

# Indian National Academy of Engineering

**THE YEAR BOOK 2022**



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### **INAE Registered Office**

Indian National Academy of Engineering (INAE)  
Ground Floor, Block-II,  
Technology Bhavan,  
New Mehrauli Road,  
New Delhi-110 016 (India)  
Phone : (+91) - 11 - 26582475  
Email : [inaehq@inae.in](mailto:inaehq@inae.in)  
Website : [www.inae.in](http://www.inae.in)

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The information published in the book is also available on our world website at <https://www.inae.in>. The home page provides access to Academy's programmes and other activities.

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## ACADEMY MEETINGS/EVENTS 2022

*(Two Programmes listed-Online & Offline. Based on conditions posed by Covid, relevant Programme shall be followed)*

	ONLINE	OFFLINE
Dates	Programme	Programme
<b>1<sup>st</sup> Feb (Tues)</b>	Apex Committee Meeting	Apex Committee Meeting
<b>25<sup>th</sup> Feb (Fri)</b>	Steering Committee Meeting	Steering Committee Meeting
<b>4<sup>th</sup> March (Fri)</b>	AICTE-INAE Programme Committee Meeting	AICTE-INAE Programme Committee Meeting
<b>11<sup>th</sup> March (Fri)</b>	First Finance Committee Meeting	First Finance Committee Meeting
<b>25<sup>th</sup> March (Fri)</b>	Governing Council Meeting	Governing Council Meeting
<b>20<sup>th</sup> April (Wed)</b>	INAE Foundation Day Celebration	INAE Foundation Day Celebration
<b>Between 4<sup>th</sup> to 20<sup>th</sup> May</b>	First Meeting of Sectional Committees for shortlisting of nominations for Election of Fellows, Foreign Fellows and Young Engineer Award for seeking Peer Review Reports	First Meeting of Sectional Committees for shortlisting of nominations for Election of Fellows, Foreign Fellows and Young Engineer Award for seeking Peer Review Reports
<b>25<sup>th</sup> May (Wed)</b>	Apex Committee meeting	Apex Committee meeting / Steering Committee meeting
<b>31<sup>st</sup> May (Tues)</b>	Selection Committee Meeting for shortlisting of INAE Young Innovator & Entrepreneur Award	Selection Committee Meeting for shortlisting of INAE Young Innovator & Entrepreneur Award
<b>3<sup>rd</sup> June (Fri)</b>	Steering Committee meeting	

	<b>ONLINE</b>	<b>OFFLINE</b>
<b>18<sup>th</sup> -20<sup>th</sup> June (Sat-Mon)</b>	National Frontiers of Engineering (NatFOE) Symposium and IMP	National Frontiers of Engineering (NatFOE) Symposium and IMP
<b>10<sup>th</sup> June (Fri)</b>	Selection Committee on Life Time Contribution Award; Prof. Jai Krishna/Prof. SN Mitra Memorial Awards and Outstanding Teachers Awards	
<b>15<sup>th</sup> June (Wed)</b>	Selection Committee Meeting for final selection of Young Innovator & Entrepreneur Award	Selection Committee on Life Time Contribution Award; Prof. Jai Krishna/Prof. SN Mitra Memorial Awards and Outstanding Teachers Awards  Second Finance Committee Meeting  Governing Council Meeting
<b>16<sup>th</sup> June (Thu)</b>	Selection Committee Meeting for final selection of Young Innovator & Entrepreneur Award	Second meeting of the Sectional Committees for recommending nominations for Election of Fellows, Foreign Fellows and Young Engineer Award  Annual General Meeting
<b>17<sup>th</sup> June (Fri)</b>	Second Finance Committee Meeting	
<b>24<sup>th</sup> June (Fri)</b>	Governing Council Meeting	
<b>Between 1st to 15<sup>th</sup> July</b>	Second meeting of the Sectional Committees for recommending nominations for Election of Fellows, Foreign Fellows	

<b>19<sup>th</sup> July (Tues)</b>		Selection Committee Meeting for shortlisting of nominations for Innovative Student Projects Award
<b>22<sup>nd</sup> July (Fri)</b>	Annual General Meeting	
<b>3<sup>rd</sup> Aug (Wed)</b>	Selection Committee Meeting for Election of Foreign Fellows	
<b>5<sup>th</sup> Aug (Fri)</b>	Meeting of the Search-cum-Selection Committee for Abdul Kalam National Innovation Fellowship	Meeting of the Search-cum-Selection Committee for Abdul Kalam National Innovation Fellowship
<b>11<sup>th</sup> Aug (Thu)</b>	Third Finance Committee Meeting and Apex Committee meeting	-Third Finance Committee Meeting -Apex Committee meeting -Selection Committee Meeting for Election of Foreign Fellows
<b>12<sup>th</sup> Aug (Fri)</b>	Steering Committee meeting	Steering Committee meeting
<b>16<sup>th</sup> – 18<sup>th</sup> Aug (Tue – Thurs)</b>	Selection Committee Meetings for final selection of Young Engineer Award	Selection Committee Meetings for final selection of Young Engineer Award, Young Innovator & Entrepreneur Award  Selection Committee Meeting for final selection of Innovative Students Projects Award
<b>22<sup>nd</sup> Aug (Mon)</b>	Governing Council Meeting with Conveners as special invitees	Selection Committee Meeting for Election of Foreign Fellows  Governing Council Meeting with Conveners as special invitees

<b>25<sup>th</sup> Aug (Thu)</b>	Selection Committee Meeting for shortlisting of nominations for Innovative Student Projects Award	
<b>15<sup>th</sup> Sep (Thu)</b>	Youth Conclave	Youth Conclave
<b>26<sup>th</sup> to 29<sup>th</sup> Sep (Mon-Thurs)</b>	CAETS Convocation and Annual Meetings	CAETS Convocation and Annual Meetings
<b>11<sup>th</sup> to 13<sup>th</sup> Oct (Tues-Thu)</b>	Selection Committee Meeting for final selection of Innovative Students Projects Award	
<b>4<sup>th</sup> Nov (Fri)</b>	Apex Committee meeting	-Apex Committee meeting -Fourth Finance Committee Meeting -Steering Committee meeting
<b>9<sup>th</sup> Nov (Wed)</b>	Steering Committee meeting	
<b>10<sup>th</sup> -11<sup>th</sup> Nov</b>	Engineers Conclave (EC)	Engineers Conclave (EC)
<b>15<sup>th</sup> Nov (Tues)</b>	Fourth Finance Committee Meeting	
<b>25<sup>th</sup> Nov (Fri)</b>	Governing Council	
<b>30<sup>th</sup> Nov</b>	SSEC Meeting to review Abdul Kalam Fellowship	
<b>December</b>	AGM/SGM/ Annual Convention	

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**Professor INDRANIL MANNA, J C Bose Fellow**

FTWAS, FNA, FNAE, FNASc, FASc, MAPAM, FIE(I), FIIM, FEMSI,  
FAScT, PRS, PhD, DSc (hc)

President, Indian National Academy of Engineering (INAE)

Vice Chancellor, Birla Institute of Technology (BIT) Mesra, Ranchi  
835215, Jharkhand

[On lien from Indian Institute of Technology (IIT) Kharagpur 721302,  
W.B., India]

Personal Website: [www.imanna.in](http://www.imanna.in)

## RESUME:

Professor Indranil Manna, a JC Bose fellow and the Vice Chancellor of BIT Mesra has assumed the mantle of INAE as its 14<sup>th</sup> President on Jan 1, 2021. Earlier, he served as the Vice President (Fellowship and Awards) between 2015-2020 and as a member of the Sectional Committee VIII during 2011-2014. He was an INAE Visvesvarya Chair Professor (2009-2011) and INAE-AICTE Distinguished Industry Professor (2007-2009), led INAE delegation to USA in 2014 and Republic of Korea in 2018, and contributed to the Curriculum Revision Committee in 2003.

Professor Manna is a metallurgical and materials engineer. He obtained his B. Engg. Degree from Calcutta University (BE College) in 1983, M. Tech. from IIT Kanpur in 1984 and PhD from IIT Kharagpur in 1990. He was a Premchand Roychand Scholar (1992) and a Mouat Medal awardee (1999) of Calcutta University and received Honorary Doctor of Science Degrees DSc (hc) from the University of Kalyani and Kazi Nazrul University, Asansol, West Bengal, both in 2017.

After a brief stint at Mishra Dhatu Nigam, Hyderabad (1984-85), he joined IIT, Kharagpur in November 1985 as a Lecturer and rose to the position of Full Professor in 2003 and HAG Professor in 2009. He continued in this position till he joined CSIR-CGCRI as the Director on March 1, 2010 which he continued till October 31, 2012. Subsequently, he served as the Director of IIT Kanpur during 7 Nov, 2012 to 6 Nov, 2017. During this period, he concurrently served as the National Coordinator of IMPacting Research INnovation & Technology (IMPRINT), a national technology development initiative of MHRD, Government of India. He played an active role in several other MHRD initiatives like UAY, SPARC, UBA, RAA, PMMMTTP, Namame Gange, etc. He was the Chairman of the Research Council of CSIR-AMPRI, Bhopal, Member of the Research Councils of BHEL, CSIR-National Physical Laboratory (NPL), Society of IIM Indore, Board of Governors of IIM Lucknow, IISER Pune, IEST Shibpur and IISER Kolkata. He was a member of the Governing Body of the Indo US Science and Technology Forum (IUSSTF), Executive Council of AICTE, and a Member, Administrative Council of the Abdul Kalam Technical University, UP. He was a member of SAMAVESH, a NITI AAYOG Think-Tank Group. He has been actively associated with various Science and Technology (S&T) organizations in the country in various capacity

like Chairman, INSA-INSPIRE Faculty Fellow Scheme (Engineering Sciences) of the Department of Science and Technology (DST), Chairman of the Program Advisory Committee (PAC) of the Metals, Materials, Mining Engineering Section of SERB-DST, Member of the Board of the Steel Research Technology Mission Initiative (SRTMI), PM Trophy Committee and R&D Board of the Ministry of Steel, and Member of the Research Council of ARCI, Hyderabad (DST) and GAIL India. He is currently the Chairman of Research Council of CSIR-NML, Jamshedpur. He was an active member of the committee on Science Technology Innovation Policy (STIP) of India and chaired the Surface Engineering (V12H3) group under the Advanced Manufacturing Forum of Vaishwik Bharatiya Vaigyanik (VAIBHAV) scheme inaugurated by the Hon'ble Prime Minister on 2<sup>nd</sup> October, 2020. He is a Member of the Academic Council of KIIT at Bhubaneswar, Homi Bhaba National Institute (Department of Atomic Energy) and Ramakrishna Mission Vidyamandir at Belur.

### **Academic and Research Contributions:**

Before taking up administrative responsibility, Professor Manna taught subjects related to physical metallurgy, phase transformations, material characterization and surface engineering at IIT Kharagpur for 25 years (1985-2010). During this period, he visited different renowned R&D institutions and universities abroad as a guest scientist like Max Planck Institute at Stuttgart, Technical University of Clausthal, Unipress in Warsaw (Poland), Liverpool University, Nanyang Technological University, National Institute of Materials Science at Tsukuba and University of Ulm with teaching or research assignments. Professor Manna has been a renowned and prolific researcher with wide ranging research interests concerning microstructure-property correlation and modelling in structural and functional materials including additive manufacturing, nanometric metals/composites, laser/plasma assisted surface engineering, nano/ferro-fluid and bainitic steel. His significant contributions on amorphous Al-alloys, laser surface engineering of steel/Mg/Ti alloys and thermal and magnetic properties of nanofluid and ferrofluid received serious attention from the scientific community and are highly lauded. His early contributions in moving boundary phase transformation are still widely cited. Professor Manna has authored over

275 journal publications, supervised 30 PhD theses, conducted about 35 sponsored projects from agencies and industry in India and abroad worth over Rupees 25 crore and holds 3 patents.

During his initial stint at IIT Kharagpur, he is credited to have developed various research facilities and laboratories in the Metallurgical and Materials Engineering Department comprising characterization and processing tools like FEG-SEM, PLD, PIII, SOFC, electron beam welding, mechanical alloying mills, wear and erosion testing units, vacuum sealing set up, high temperature furnaces, plasma nitriding unit, etc. He was the Institute Coordinator for the Nano-Science and Technology Mission Project (2004-10), and the Vice Chairman (2004-06) and Chairman (2006-09) of the Central Research facility at IIT Kharagpur. With a major research grant from the DST, he has recently developed a well-equipped laser material processing facility at IIT Kharagpur in 2018 with a 6 kW fibre delivered diode laser with several allied analytical and processing equipment to develop structurally and functionally graded materials, composites, coatings and additively manufactured (3d printed) metallic components.

Professor Manna is a passionate teacher. His teaching interest covers subjects related to physical metallurgy, phase transformations, material characterization and surface engineering. Besides IIT Kharagpur (1985-2020), Professor Manna has taught in Nanyang Technological University, Singapore (2000-01) and IIT Kanpur (2013-17). He continues teaching even now at BIT Mesra despite his administrative commitment. At IIT Kharagpur, he introduced two new courses on Introduction to Materials and Surface Engineering and took active role in developing several new teaching laboratory and experimental manuals.

### **Awards and Honours:**

Professor Manna is a recipient of several awards and honours including MRSI Distinguished Lecture Prize 2017, Gopal Tripathy Memorial Lecture Award of Banaras Hindu University in 2015, TWAS Prize in Engineering Sciences in 2015, and Platinum Jubilee Medal Lecture Award in the 98th Session of the Indian Science Congress in 2011. Earlier, he was the Sectional President of the Materials Science Section in 2009-10 and Recorder in 1998-2000 of the Indian Science Congress Association. He received the G D Birla Gold Medal of IIM in 2008,

MRSI Medal in 2000, Binani Gold Medal of IIM in 1999, AICTE Career Award for Young Teachers in 1995, and INSA Medal for Young Scientist in 1992.

He received Distinguished Alumnus Award from IIT Kharagpur in 2016 and from IEST, Shibpur in 2014. He has been a JC Bose Fellow of DST since 2012. He was elected a Fellow of all the National Academies in India: Indian National Academy of Engineering, Delhi (INAE-FNAE) in 2005, National Academy of Sciences in India, Allahabad (NASI-FNASc) in 2005, Indian Academy of Sciences, Bangalore (IASc-FASc) in 2008 and Indian National Science Academy, Delhi (INSA-FNA) in 2010. He is a recipient of Alexander von Humboldt Fellowship (2001-2002), DAAD Fellowship (1988-1990), DAAD Honorary Advisor (2006-09) and GTZ Research Grant (1997-99) from Germany (for independent research). He is a former Vice President (2013-16) and President (2016-17) of the Indian Institute of Metals (IIM). He was felicitated by the Ministry of Steel with the Young Metallurgist (1991), Metallurgist of the Year (2002) and National Metallurgist Award (2018). He was elected a Fellow of The World Academy of Sciences (TWAS) in 2016 and a Member of the Asia Pacific Academy of Materials (APAM) in 2014.

### **Personal:**

Professor Manna was born on January 22, 1961 in Kolkata, is married to Mrs Snigdha Manna and has a daughter (Oindrila) and a son (Rudroneel). He was an active sportsman in his student days, is an avid sports and music lover and is passionate about technology development for the nation and society.

## PAST PRESIDENTS OF THE ACADEMY



**Prof. Jai Krishna**

Founder President

Ph.D., D.Sc.(h.c.), D.Engg.(h.c.)

FNAE, FNA, Foreign Associate NAE(US) Hon. Fellow IE

Hon. Fellow IAEE (USA), Hon. Fellow TWAS

20 April 1987 – 12 October 1991



**Dr. VS Arunachalam**

Ph.D., D.Sc., D.Litt(h.c.)

FNAE, FNA, FEng., FIIM, Hon. FIETE

12 October 1991 – 09 July 1992



**Dr. S Varadarajan**

Ph.D., D.Sc(h.c.), D. Litt(h.c.)

FNAE, FNA, FASc., FRSc.,

Hon. Fellow ICh.E, FNAAS

09 July 1992 – 20 May 1995



**Dr. APJ Abdul Kalam**  
DMIT, D.Sc.(h.c.)  
FNAE, FASc., Hon.FIETE,  
FAstrSI, FNAMS  
20 May 1995 – 31 December 1996



**Prof. PV Indiresan**  
Ph.D.  
FNAE, Dist. Fellow IETE,  
Hon.Mem.IEEE  
01 January 1997 – 31 December 1998



**Dr. Anil Kakodkar**  
BE (Hons), MSc., DSc.(h.c.)  
FNAE, FASc., MINS, MISET,  
FIE, MIARP  
01 January 1999 – 31 Dec 2000



**Prof. P Rama Rao**  
Ph.D.  
FNAE, FNA, FASc., FNAsc.,  
FREng., FTWAS  
01 January 2001 – 31 December 2002



**Dr. A Ramakrishna**

B.E., M.Sc.(Engg.), D.Sc.(Andhra),  
Ph.D.(JNTU) h.c.  
FNAE, FIE, FICE(UK), FICI,  
MACI(USA), FASCE(USA),  
MASCC, MIABSE

01 January 2003 – 31 December 2004



**Dr. K Kasturirangan**

Ph.D., D.Sc.(h.c.)  
FNAE, FNA, FASc., FNASc.,  
Dist.FIETE, FASI, MIPA,  
Hon. Fellow AeSI, FTWAS

01 January 2005 – 31 December 2006



**Dr. PS Goel**

Ph.D.

FNAE, FNA, FNASc., FASc., FIETE,  
F.Astr.SI, FAeSI, FTWAS, MIAA(Paris),  
Hon.FESI, Hon.FIITB1

01 January 2007 – 31 December 2010

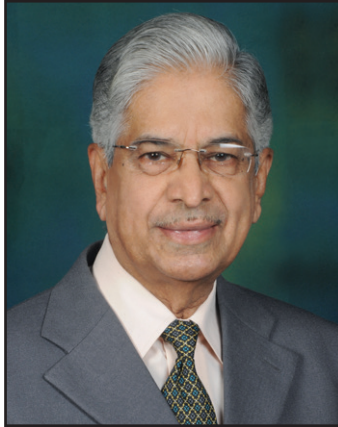


**Dr. Baldev Raj**

Ph.D.

FNAE, FNA, FASc., FNASc., FTWAS  
1 January 2011 – 31 December 2014





**Dr. BN Suresh**

Ph.D.

FNAE, FNA, FAeSI, FASI, FSSI, MIAA  
01 January 2015 – 31 December 2018



**Dr. Sanak Mishra**

Ph.D.

FNAE, FNASc., FIIM, FIOD, FCSI, FIE,  
FAIMA, Alexander von Humboldt Fellow (Germany)  
01 January 2019 – 31 December 2020

# GOVERNING COUNCIL

## NAME

## TELEPHONE /FAX/ EMAIL

### President



PROF. INDRANIL MANNA  
(Ranchi)

Mob: 08127884422  
Off: 0651-2275402  
Fax : 0651-2275401  
Email : president@inae.in,  
imanna@metal.iitkgp.ac.in  
im\_kgp@yahoo.co.in

### Immediate Past-President



DR. SANAK MISHRA  
(New Delhi)

Mob : 09810956664  
Email : mishra.sanak@gmail.com

### Vice-President (Finance & Establishment)



PROF. PURNENDU GHOSH  
(Jaipur)

Off : 0141-2385283  
Res : 0141-2223183  
Fax : 0141-2385121  
Email : ghoshiitbistr@gmail.com

### Vice-President (Academic, Professional and International Affairs)



PROF. AB PANDIT  
(Mumbai)

Off : 022-33611111  
09820408037  
Res: 022-24302660  
Fax : 022-33611002  
Email : ab.pandit@ictmumbai.edu.in;  
vc@ictmumbai.edu.in,  
dr.pandit@gmail.com

### Vice-President (Fellowship, Awards and Corporate Communication)



PROF. SIVAJI CHAKRAVORTI  
(Kolkata)

Off : 033-24146948  
Res : 033-29661020  
Email : s\_chakrav@yahoo.com,  
schakravorti.electrical@jadavpuruniversity.in

### Chief Editor of Publications and Member affiliated to Engineering Section-III



PROF. AMIT AGRAWAL  
(Mumbai)

Off : 022-25767516  
Res : 022-25768516  
Fax : 022-25726875  
Email : amit.agrawal@iitb.ac.in

## Members



MS. ALPA SHETH  
(Mumbai)

Off : 022-61725200  
Email : sheth.alpa.r@gmail.com  
alpa\_sheth@vakilmehtasheth.com



PROF. SUBHASIS CHAUDHURI  
(Mumbai)

Off: 022-25723488, 25767001  
Res : 022-25720351  
Fax: 022-2573546  
Email: director@iitb.ac.in



MR. DP MISRA  
(Mumbai)

Res : 022-26311003, 09820049581  
Email : dpmisra43@gmail.com



DR. ARCHANA SHARMA  
(Mumbai)

Off : 022-25593619/3660/3988  
Res : 022-25566042  
Email : arsharma@barc.gov.in;  
as25566042@gmail.com



PROF. ANURAG KUMAR  
(Bangalore)

Off : 080-22932281  
Res : 080-23415032  
Email : anurag@iisc.ac.in,  
anurageceiisc@gmail.com



DR. TESSY THOMAS  
(Bangalore)

Off : 080-22511401  
Fax : 080-25283028  
Email :tessy\_1963@yahoo.com



DR. DEBASHISH BHATTACHARJEE  
(Kolkata)

Off : 033 22887365  
Email : dr.dbhattacharjee@gmail.com;  
debashish.bhattacharjee@tatasteel.com



PROF. RANGAN BANERJEE  
(New Delhi)

Off : 011-26582020, 26591701  
Fax : 011-26582659  
Email : director@iitd.ac.in,  
rangan.banerjee@gmail.com



PROF. KRIPA SHANKER  
(Varanasi)

Res : 09415042484  
Email : ks@iitk.ac.in



**DEPARTMENT OF SCIENCE & TECHNOLOGY**

PROF. SUSHMITA MITRA  
(Kolkata)

Off : 033-25753102

Off : 033-25753102

Fax : 033-25783357

Email : sushmita@isical.ac.in,  
somosmita.sushmita@gmail.com



**MINISTRY OF EDUCATION (Erstwhile MHRD)**

PROF. BHASKAR RAMAMURTHI  
(Chennai)

Mob : 09444008001

Email : bhaskar@iitm.ac.in



**DEPARTMENT OF SPACE**

DR. VR LALITHAMBIKA  
(Bangalore)

Res : 09496020051

Email : vrlalithambika@gmail.com



**DEPARTMENT OF ATOMIC ENERGY**

MR. RN JAYARAJ  
(Secunderabad)

Res : 040-27971581

Email : raigirij@gmail.com



**DEFENCE RESEARCH AND DEVELOPMENT ORGANISATION**

MR. BHVS NARAYANA MURTHY  
(Hyderabad)

Off : 040-29705266

Fax : 040-24306002

Email : bhvsnm@rcilab.in;

bhvsnm@gmail.com dgmss@gov.in



**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

DR. RAJEEV SHOREY  
(New Delhi)

Off : 080-67258465

Res : 011-26106621

Email : rshorey@iitd.ac.in,

rajeevshorey@gmail.com



**INDIAN NATIONAL SCIENCE ACADEMY**

PROF. V RAMGOPAL RAO  
(New Delhi)

Off : 011-26582020, 26591701

Fax : 011-26582659

Email : rrao@iitd.ac.in



**CONFEDERATION OF INDIAN INDUSTRY (CII)**

DR. ASHISH MOHAN  
(Gurgaon)

Mob. : 09871119579

Email : ashish.mohan@cii.in



**FEDERATION OF INDIAN CHAMBERS OF COMMERCE AND  
INDUSTRY (FICCI)**

MR. SHYAM BANG  
(New Delhi)

Off : 9810106660

Email : shyam.bang@jubl.com,  
Chetan.bijesure@ficci.com

**NATIONAL ASSOCIATION OF SOFTWARE AND SERVICES  
COMPANY (NASSCOM)**

## INAE Staff



LT COL SHOBHIT RAI (Retd)  
Deputy Executive Director

Off : 011-26582475  
Email : [inaehq@inae.in](mailto:inaehq@inae.in)



DR. GEETANJALI SAWHNEY  
Senior Research Officer

Off : 011-26582475  
Email : [inaehq@inae.in](mailto:inaehq@inae.in)



MS. PRATIGYA LAUR  
Research Officer

Off : 011-26582475  
Res : 0120-4712820  
Email : [inaehq@inae.in](mailto:inaehq@inae.in)



MR. VIRENDER KUMAR  
Senior Manager (A&E)

Off : 011-26582475  
Email : [inaehq@inae.in](mailto:inaehq@inae.in)



DR. DEBJANI BHATTACHARYA  
Research Officer

Off : 011-26582475  
Email : [inaehq@inae.in](mailto:inaehq@inae.in)



MS. SHELIKA ARORA  
Research Officer

Off : 011-26582475  
Email : [inaehq@inae.in](mailto:inaehq@inae.in)



MR. BHUWAN ADHLAKHA  
Manager (F&A)

Off : 011-26582475  
Email : [inaehq@inae.in](mailto:inaehq@inae.in)



MR. RAMACHANDRAN EP  
Manager (A&E)

Off : 011-26582475  
Email : [inaehq@inae.in](mailto:inaehq@inae.in)



MR. SHEETAL SHARMA  
Assistant Systems Engineer

Off : 011-26582475  
Email : [inaehq@inae.in](mailto:inaehq@inae.in)



MR. RAHUL GARG  
Assistant Systems Engineer

Off : 011-26582475  
Email : [inaehq@inae.in](mailto:inaehq@inae.in)



MS. HEMA GUPTA  
Senior Assistant Grade-I

Off : 011-26582475  
Email : [inaehq@inae.in](mailto:inaehq@inae.in)



MR. RS CHAUHAN  
Senior Assistant Grade-III

Off : 011-26582475  
Email : [inaehq@inae.in](mailto:inaehq@inae.in)



MR. BALWANT SINGH  
Assistant Grade-I

Off : 011-26582475  
Email : [inaehq@inae.in](mailto:inaehq@inae.in)



MR. GOURAV D KANDALGAONKAR  
Assistant Grade-II

Off : 011-26582475  
Email : [inaehq@inae.in](mailto:inaehq@inae.in)



MR. SATISH KUMAR VERMA  
Multi-Tasking Staff

Off : 011-26582475  
Email : [inaehq@inae.in](mailto:inaehq@inae.in)

## PAST OFFICE BEARERS OF THE ACADEMY

### FOUNDATION FELLOWS

Prof. Jai Krishna\*  
Dr. VS Arunachalam  
Dr. GR Toshniwal\*  
Prof. SN Mitra\*  
Prof. AB Bhattacharyya  
Prof. GS Sanyal\*  
Prof. Ashoka Chandra  
Prof. Bharat Singh\*  
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Dr. AM Michael  
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## HISTORY OF THE ACADEMY

The Indian National Academy of Engineering (INAE) was formally inaugurated on 11<sup>th</sup> April 1988 at New Delhi by the then Prime Minister, Mr. Rajiv Gandhi at a colourful Foundation Function in New Delhi.

Prof. CS Jha, Educational Adviser (Tech), Department of Education remarked in a meeting in August 1983 that in the absence of a single body representing all engineering professions, the Government of India finds it difficult to consult Professional Institutions and have the benefit of their advice. This led to the concept of establishing a National Academy of Engineering in a note dated 5<sup>th</sup> October 1983 from Prof. SN Mitra, Past President, the Institution of Electronics and Telecommunication Engineers, (IETE) to the IETE Council.

Prof. CS Jha convened a meeting on 17<sup>th</sup> May 1984 of all the recognised Professional Bodies for discussing various problems on technical issues confronting the Ministry. He said that there was an urgent need for a coordinating body at the highest level whom the Government can consult on all matters pertaining to engineering and supported the creation of a National Academy of Engineering as suggested by Prof. Mitra who had earlier submitted a working paper to the Ministry of Education.

In a similar vein, Prof. Mitra wrote to The Institution of Engineers (India), (IE(I)) on 14<sup>th</sup> June 1984 as follows :

*“As the very name signifies, it will be a body of intellectuals of excellence in their respective profession. It may not be out of place to mention that the first Academy was a pleasure garden in Athens which is supposed to have belonged to an ancient attic hero named Academus. The garden was walled by Hipparchus, and eventually bequeathed as a public pleasure ground by Cimon to his Fellow citizens in Athens. In this garden, the Greek philosopher Plato taught for nearly 50 years and the Academy thus started and lasted from the days of Plato to those of Cicero for over 300 years.*

*We see thus that the original Academy, dated from about 400 B.C., was a garden utilised for philosophic teachings and discussions. It was essentially a place where any branch of knowledge could be discussed and was completely different from our specialised societies of today. In this original Academy, the philosophers must have discussed arts, and letters, mathematics and science as well as philosophy strictly so-called : so that a true Academy, without qualification, should be on a broad basis. Another point is that an Academy is essentially a place where philosophers could meet and discuss problems, the solutions sought for being essentially suited for local utilisation, and that is precisely what we are aiming today - to set*

*up an Academy of Engineering where famous engineers and technologists of India and abroad will meet and discuss problems that beset our country today, and apply their mind to the fact that, in India with the fourth largest technical and scientific manpower, our industrial growth is of a very low order inspite of heavy investment by the Government.*

*We have Professional Societies, each working after its own interest. But, we still need a coordinating body. Obviously, this body should not compete with Professional Bodies in a way that harms them. The objectives of the Academy would be such as to encompass all activities in the field of engineering and technology in a broad manner without having any conflict with any of the Professional Institutions and Societies.*

*The Academy which we are contemplating will consist of highest professional experts in the field of engineering and technology and will consist of men of excellence who have established themselves as pioneers in their respective fields of endeavour. The Academicians will have no parochial interest and will be men and women of professional standard and integrity befitting the Indian National Academy. The Academy's only interest will be to ensure that the disciplines of engineering and technologies are promoted with consequent rapid industrial growth in India.*

*There are similar Academies of Science and Engineering in other countries where these Academies are constituted precisely in the same manner as Plato did before the birth of Christ..... An argument may be advanced that when there is an Indian National Science Academy which has a Sectional Committee of Engineering and Technology, where is the need to set up another Academy of Engineering and Technology ? But as the facts would reveal, INSA gives much greater emphasis on basic sciences than their application in the fields of Science and Technology..... One would notice that the words 'Engineering and Technologies' are absent in its objectives."*

Reacting on the background note of Prof. Mitra, a Senior Member of the IE(I) felt that the formation of a National Academy of Engineering as a sister Institution of the Indian National Science Academy would admirably be able to create the appropriate climate for emerging new disciplines. He cited the example of a similar Academy set up in the United States in 1964, distinct from the National Academy of Science, but both working under the common umbrella of the National Research Council. He felt that by striving to develop a membership which spans the spectrum of engineering accomplishments, the Academy will serve to distinguish and honour those individuals whose personal efforts and technical achievements have raised engineering to the highest levels. In addition, such an Academy will enlist those individuals, whose

organisational and leadership abilities have brought engineering potential to the service of mankind and whose talents are critical to the fulfillment of the Academy's mission of service to the nation.

Pursuant to the decision taken on 17<sup>th</sup> May 1984, the Presidents of the Professional Bodies and their representatives met under the aegis of the Institution of Engineers (India). At this meeting setting up a National Academy of Engineering and Technology as an intellectual forum for the profession was accepted. In a second meeting of 17<sup>th</sup> November 1984, which Prof. CS Jha also attended, a new idea was mooted by the Aeronautical Society of India for the creation of a National Association or Federation or Council of Professional Institutions. It was decided that three representatives, one each from IE(I), IETE and the Aeronautical Society of India, should be asked to prepare a paper on the above Federation. The representatives from IE(I) and IETE could not attend this meeting and they disagreed with the proposal by Aeronautical Society of India. The third meeting on 8 March 1985 hosted by IETE was chaired by Mr. CR Alimchandani, President of the Institution of Engineers (India) and was attended by Dr. VS Arunachalam, Scientific Adviser to the Defence Minister and President of the Aeronautical Society of India, amongst others. It decided to set up an Academy of Engineering and Technology. A sub-committee was also formed with IETE as Convener with IE(I), Aeronautical Society of India and the Institute of Architects as Members, to draft the Articles of Association and By-laws for the formation of the National Academy of Engineering and Technology.

In a meeting on 23<sup>rd</sup> May 1985 in which Prof. CS Jha was a special invitee, it was decided that the Academy should be named as the "Indian National Academy of Engineering". Prof. Jha said that of the two concepts (i) Academy of Excellence and (ii) Federation of Professional Bodies, the Academy should be given the first preference for creation. The Professional Societies were requested to send their comments on the draft Articles of Association and Bylaws being prepared by the Sub-committee constituted for the purpose.

The fifth meeting held on 30<sup>th</sup> September 1985 was hosted by the Institution of Surveyors and was chaired by Air Vice-Marshall NK Nair, Honorary Secretary, Aeronautical Society of India. In a complete volte-face, the decisions taken by previous meetings were reversed and the proposal to establish Federation of Professional Bodies was again invoked. This decision evoked sharp reaction both from IETE and IE(I).

Since the meeting of the Professional Societies could not arrive at a unanimous decision on the establishment of the Academy, Prof. Mitra, Past President of IETE and Prof. A Bhattacharyya, Past President of IE(I) got together on 30<sup>th</sup> September 1985 and decided to jointly sponsor the Academy

as was originally envisaged by IETE. They were joined by Dr. GR Toshniwal, Past President, IETE, Mr. KN Majumdar, Deputy Director General, IE(I) and Maj Gen JC Ahluwalia, Secretary, IETE to finalise the draft Memorandum of Association and Rules and Regulations of the Academy which were submitted in early 1986 to the Registrar of Societies for approval and registration of the Academy. The operative Ministry for the Registrar of Societies was the Ministry of Civil Supplies to whom the case was sent for approval, who further sent the Memorandum of Association and the Rules and Regulations as drafted to the Department of Education, Ministry of Human Resource Development, Government of India.

Prof. Ashoka Chandra, who succeeded Prof. CS Jha as Educational Advisor (Tech), Department of Education, called a meeting towards end of 1986 which was attended by Prof. SN Mitra, Prof. AB Bhattacharyya of IIT Delhi, Mr. KN Majumdar of IE(I) and Maj Gen JC Ahluwalia of IETE. The Ministry wanted that in the objectives and the Rules and Regulations of the Academy, emphasis should be laid upon Government of India's National Education Policy 1986. After suitable amendments, the Ministry of Human Resource Development gave approval to the word "National" and the "Indian National Academy of Engineering" was registered on the recommendation of the Ministry of Civil Supplies on 20<sup>th</sup> April 1987 by the Registrar of Societies with Prof. Jai Krishna as its President. Other Members of an adhoc Council were Dr. VS Arunachalam (Scientific Adviser to the Defence Minister), Dr. GR Toshniwal (Chairman, Toshniwal Industries Pvt. Ltd.), Prof. SN Mitra (Technical Director, Toshniwal Bros. (Delhi) Pvt. Ltd.), Prof. AB Bhattacharyya (Head, Centre for Applied Research in Electronics, Indian Institute of Technology, Delhi), Prof. GS Sanyal (Director, Indian Institute of Technology, Kharagpur), Prof. Ashoka Chandra (Educational Adviser (Tech), Department of Education), Dr. Bharat Singh (Vice-Chancellor, University of Roorkee), Prof. A Bhattacharyya (Jadavpur University), Dr. AM Michael (Director, Indian Agriculture Research Institute, New Delhi), Prof. BR Nag (Institute of Radio Physics and Electronics, Calcutta), Prof. NM Swani (Director, Indian Institute of Technology, Delhi), Dr. S Varadarajan (Chief Consultant, Planning Commission, New Delhi) and Col. SP Wahi (Chairman, Oil and Natural Gas Commission).

The first meeting of the Council was held on 9<sup>th</sup> May 1987 at India International Centre, New Delhi. Prof. Jai Krishna presided. Dr. Satish Chandra, President, IE(I) and Shri YL Agarwal, President, IETE were special invitees to the Council. Both the Presidents offered secretarial help in functioning of the Academy.

As mentioned earlier, the Academy was formally inaugurated on 11<sup>th</sup> April 1988 by the then Prime Minister, Mr. Rajiv Gandhi at a Foundation Function

in New Delhi. The other invitees were Mr. PV Narasimha Rao, Minister of Human Resource Development and Mr. KR Narayanan, Minister of Science and Technology.

In his Presidential Address before the august gathering at the Foundation Function, Prof. Jai Krishna said that the Academy has been established in response to the desire of the fraternity of engineers, engineer-scientists and technologists to be a “Peer” organisation composed of the best talent from the entire spectrum of engineering in the country and to promote all round excellence. The Academy would provide a Forum for futuristic planning for the country’s development requiring engineering and technological inputs and bring together specialists from such fields as may be necessary for comprehensive thinking of the needs of the 21<sup>st</sup> Century. The Academy would further be concerned with the issues of academic excellence, achievements and growth of educational systems which would finally reflect the quality and reliability of performance and products.

Another function of the Academy would be to recognise young talents who show promise in creative research in innovation and provide support in pursuance of their work. In fulfilling these tasks, Prof. Jai Krishna felt that it was extremely important that the Academy maintains its objectivity and independence in its technological recommendations to the Government.

The Prime Minister congratulated all the scientists and technologists on whose initiative the National Academy has been established. This Academy must emerge as a true centre of excellence and as a reservoir of outstanding talent to be placed at the disposal of the country.

Till the mid-18<sup>th</sup> Century, in most respects, India was at the vanguard of world technological development and it had held this position virtually without interruption from about 6<sup>th</sup> century BC and perhaps even pre-Aryan India was on par with Sumeria and Egypt. The National Academy must target India at the forefront development and technology in the least time possible as a national task.

One casualty of our education system has been the scientific teaching. With some improvement in our human resource development, we can forge ahead to the vanguard of the technological advancement.

In India today, the prime need is a higher and more sophisticated technology to meet the needs of the poorest sections of our society. The Academy must keep in mind the basic aim of poverty alleviation as a fundamental objective and act as the forum of all indigenous engineering efforts.

The major task of the Academy is to chalk out the future course of Indian engineering using interdisciplinary advantages and the vast and diverse

experience that our Fellows have in India and abroad. The country expects from Fellows of the Academy to demonstrate that India can be innovative, that India can show imagination, and we can orient science & technology to the three basic directions – of indigenous development of imported technologies, of indigenous generation of new technologies and of moving to the frontiers to put Indian science & technology at the front rank in the world. The Academy's duty will be to become an instrument for acquiring technological and scientific self-reliance and bridge the gap between what is achievable and what India must achieve.

The Academy since 1989, began a series of engineering programmes by organizing national and international conferences on topics of concern and technology policy issues

The Academy also undertook publishing Newsletters from July 1991 and also introduced an Annual Lecture Series, to be delivered at the Annual Function of Fellows.

The Academy initiated a scheme to encourage young talents through an Annual "INAE Young Engineer Award" in 1996 for excellence in design and technology, innovative development and engineering research.

A major initiative taken by the Academy in 1996 was to constitute Expert Study Groups on Railways, Metallurgy and Civil Engineering to create an Archives of Indian Engineering Heritage.

The Academy also instituted in 1997 a "Life Time Contribution Award in Engineering" to honour eminent Indian citizens who have made outstanding contributions in 'Engineering', regarded as landmarks of technological development and brought prestige to the nation.

The Xth Anniversary of the Academy was organised at the National Institute of Advanced Studies, Bangalore. The Key-note Address on "Inevitability of Nuclear Energy" was delivered by Dr. Raja Ramanna, Formerly Scientific Adviser to the Defence Minister and Former Chairman, Atomic Energy Commission. Prof. PV Indiresan gave a talk on Vision 2020 : What India should do ?. A publication on "A Success Story of Engineering" giving an overview of engineering and technological achievements of independent India to coincide with the 50 Years of Indian Independence was released on the occasion.

The Academy has been recognised by the Department of Scientific and Industrial Research as a Scientific and Industrial Research Organisation (SIRO) and is an autonomous Institution supported by the Government of India, Department of Science and Technology since 1995.

Another scheme on Innovation Potential of Students Projects Award was initiated in 1998, with the object of identifying innovative research projects



undertaken by students at undergraduate and postgraduate levels in the engineering institutions to enable promoting joint projects among industry, research laboratories and academic institutions.

The Academy in 1999 launched a Distinguished Visiting Professorship Scheme jointly with the All India Council for Technical Education (AICTE) to promote industry-institute interaction.

The Academy has been elected as a Member of the International Council of Academies of Engineering and Technological Sciences, Inc (CAETS) on 28 May 1999. The mission of CAETS is to foster effective contributions to engineering and technology progress for the benefits of societies of all nations and among its objectives are to provide International Forum for discussion and communication of engineering and technological issues of common concern.

On August 15, 2002, the 55<sup>th</sup> Indian Independence Anniversary Day, the Academy paid tribute to its Past President, Dr. APJ Abdul Kalam, on the rare and unique distinction of having been elevated to the highest constitutional office of the nation – the President of India.

From the year 2004, the Academy has instituted two other awards: Prof. Jai Krishna Memorial Award and Prof. SN Mitra Memorial Award in memory of its Foundation President and first Honorary Secretary respectively. The Academy has instituted the Outstanding Teachers Award in the year 2013.

From the year 2006 onwards, the Academy has instituted new schemes - The INAE Chair Professorship, INAE Distinguished Professors/Technologists, Mentoring of Engineering Teachers by Fellows of INAE and Mentoring of Engineering Students by Fellows of INAE. INAE -AICTE Distinguished Industry Professorship Scheme was instituted in the year 2007. In the year 2013, two new schemes were instituted - The AICTE-INAE Teachers Research Fellowship Scheme and the AICTE-INAE Travel Grant Scheme for Engineering Students.

From the year 2008 onwards, the Academy has instituted certain Task Force to undertake studies on important/topical national issues. These Studies will bring out comprehensive/exhaustive document covering review of existing international and national technological and commercial aspects, analysis of options, future trends and specific implementable policy/recommendations and methodology of execution.

In order to assist the Government in formulating policies concerning important national issues, the Academy has instituted separate Forums on Engineering Education; Energy; Technology Foresight and Management; Engineering Interventions for Disaster Mitigation, Indian Landscape of Advanced Structural Materials, Civil Infrastructure and Manufacturing.

INAE has taken an initiative of organizing an annual mega event of engineers as “Engineers Conclave” starting from the year 2013 which will be organized jointly by INAE with Department of Atomic Energy (DAE), Department of Space (DOS), Defence Research & Development Organization (DRDO) and Council of Scientific and Industrial Research (CSIR) on rotation basis. Each conclave has two themes, one specific to the host department and other specific to some social problem where engineering intervention is desired. The first “Engineers Conclave” was held jointly with DRDO during September 2013 at New Delhi and Shri Pranab Mukherjee, Hon’ble President of India was the Chief Guest. The second “Engineers Conclave” was held jointly with Indian Space Research Organization (ISRO) from October 30 to November 1, 2014 at Indian Institute of Science, Bangalore. The third Engineers Conclave 2015 was organized jointly with Department of Atomic Energy (DAE) at BARC, Mumbai from September 7-9, 2015. The fourth Engineers Conclave was organized jointly with Indian Institute of Technology (IIT) Madras at IIT Madras on September 1-3, 2016. The fifth Engineers Conclave was organized jointly with Council of Scientific & Industrial Research (CSIR) at National Aerospace Laboratories (NAL), Bangalore on September 14-16, 2017. The sixth Engineers Conclave 2018 (EC-2018) was organized jointly with Larsen & Toubro (L&T) on October 4-6, 2018 at L&T LDA, Lonavala. The seventh Engineers Conclave 2019 (EC-2019) was organized jointly with Bharat Electronics Limited on September 19-21, 2019 at BEL Academy of Excellence, Bangalore. The eighth Engineers Conclave 2021 (EC- 2021) was organized online for the first time, on October 26-27, 2021 jointly with International Solar Alliance (ISA), India.

The INAE Digital Knowledge Research Centre has been set up at INAE Office, Vishwakarma Bhawan, New Delhi. The infrastructure and facilities being created at INAE Digital Knowledge Research Centre are planned in such a manner that all Fellows of INAE can have online access facility to e-journals/ e-books/Bibliographic Databases etc from their respective locations.

The activities of the Academy having expanded in the recent past and due to paucity of space at the premises of INAE office at Vishwakarma Bhawan, another office space was purchased by INAE at Gurgaon, in the year 2014. INAE office at Gurgaon was ready for functioning during the first week of January 2014 and was formally inaugurated on January 22, 2014. An inauguration function was held which was attended by members of the Governing Council.

INAE “Satish Dhawan Chair(s) of Engineering Eminence” has been instituted in the year 2014 with the objective of enhancing the visibility of the Academy in the policy domain and establishing social connect. Eminent engineers who have contributed to some aspect of nation building are chosen for this esteemed position.

As per rotation policy of International Council of Academies of Engineering and Technological Sciences (CAETS), the CAETS 2015 Annual Meetings and Convocation on “Pathways to Sustainability: Energy, Mobility and Healthcare Engineering” was hosted by INAE at Hotel Ashok, New Delhi from October 12-15, 2015.

INAE Expert Pool was created in the year 2016 with the aim of identifying domain experts in various disciplines of engineering. The Expert Pool website contains relevant details of expertise pertaining to INAE Fellows and Young Associates. In the year 2021, the Expert Pool has been linked with the individual profile pages of Fellows on INAE Digital Platform.

The INAE-DST Consultative Committee was constituted in the year 2016 with the aim to meet quarterly to discuss and align the activities undertaken by INAE with the thrust areas of the Government of India.

An INAE Facebook page and Twitter Handle were created in the year 2016 for enhancing Social Media Optimization.

INAE has launched a quarterly journal “INAE Letters” published by M/s Springer in the year 2016. The objective of the journal is to provide a medium for rapid publication of new research results and invited short review articles across different domains of engineering science and technology.

In order to increase the involvement with the industry, INAE has instituted the Innovator Entrepreneur Award in the year 2017; with a view to encourage and recognize innovation and entrepreneurship among Young Engineers.

An INAE Youth Forum for engineering students has been established in the year 2017, with the objective of facilitating the engagement of Indian youth in engineering activities at national level thereby enhancing engineering excellence, promoting youth leadership and assisting in nation building.

As a first activity of the Youth Forum, INAE has conducted an Online National Essay Competition in the year 2017, for the 4th year engineering students from B.Tech/ BE /BSc (Tech)/ Integrated MTech/ M.E. from all MHRD/AICTE approved institutions and universities, to conducted each year, on a specified topic.

INAE has taken an initiative of organizing an annual event for engineering students as “Youth Conclave” starting from the year 2017; with a view to encourage the involvement of youth for contributing to the engineering activities of the nation.

INAE and Science and Engineering Research Board (SERB), Department of Science and Technology (DST) have instituted the Abdul Kalam Technology Innovation National Fellowship in the year 2017; with the view to recognize,

encourage and support translational research by Indian Nationals working in various capacities of engineering profession, in public funded institutions in the country.

The PSA-INAE Consultative Committee constituted jointly with Office of Principal Scientific Advisor to Government of India in November 2017 to plan activities to be undertaken by INAE wherein engineering interventions are required in areas of national importance.

A Digital Platform has been instituted in the year 2018 with the objective of digitizing the functioning and operation of the activities of INAE. Additional office space procured in the same building as INAE Office, Gurgaon to facilitate implementation of the Digital Platform.

The INAE Digital Centre was inaugurated by Prof Ashutosh Sharma, FNAE, Secretary, DST at 9th Floor, SPAZE, IT Park, Tower A, Gurgaon on February 15, 2019.

INAE instituted the Woman Engineer of the Year Award in the year 2020, to recognize and honour women engineers who have made outstanding contributions to engineering/technology in India.

In the year 2020, the “INAE Letters” Journal published by M/s Springer was changed a full-fledged Journal called “Transactions of Indian National Academy of Engineering – An International Journal of Engineering and Technology”.

Two joint Consultative Committees were constituted in the year 2020 with CSIR and DRDO in order to identify topics for conduct of technical activities and programmes.

The INAE Annual Convention 2020 was held on December 21-22, 2020 on virtual mode, for the first time this year, due to the limitations posed by the ongoing Covid -19 Pandemic.

A joint Consultative Committee was constituted with ISRO in the year 2021 to identify topics of mutual interest for conduct of technical activities and programmes.

INAE Youth Conclave 2021 was held online for the first time on September 24, 2021 jointly with IIT Bombay, National Institute of Industrial Engineering (NITIE), Mumbai and Institute of Chemical Technology (ICT), Mumbai.

INAE Annual Convention 2021 was held online for the second year in a row on December 16-18, 2021, due to the limitations posed by the continuation of the Covid -19 Pandemic.

## **BENEFACTIONS TO THE ACADEMY**

The Academy is an autonomous institution partly supported by the Department of Science and Technology, Govt. of India. To carry out its aims and objects, the Academy relies, for a major part, on financial support from project funds, contributions and sponsorships. It has been possible to undertake a range of activities by the generosity of the benefactors.

The Academy welcomes donations from individuals, corporations and sponsors.

### **Purpose**

Donations or bequests can be applied to any purpose that is consistent with the Academy's aims and objects.

The Academy welcomes benefactions which encourage and promote the pursuit of excellence in the field of Engineering, inventions, investigations, applications oriented research, Professorships and awards etc.

### **Tax Deductibility**

Donations to the Indian National Academy of Engineering are tax deductible under Section 80-G of the Income Tax Act 1961 and the Academy is exempted from paying income-tax under Section 12A(a) of the Income Tax Act 1961.

### **Recognition**

All benefactions are acknowledged in the Academy Annual Report.

The Academy will be pleased to clarify any queries and help provide appropriate expertise that can define a useful purpose for any benefaction.

## **CRITERIA FOR ELECTION TO THE FELLOWSHIP**

### **Fellow**

Every person for election as a Fellow shall satisfy the Council that he/she fulfills the following criteria.

Persons for election as a Fellow (FNAE) shall be:

- (i) Indian nationals who have worked and/or maintained a regular position in India for the last five or more years and have significantly contributed to the engineering and technological field in India.
- (ii) Person of Indian origin holding Foreign Passport and OCI Card and is currently working in India continuously for the last 10 years or more (in the same or multiple organizations or be self-employed) and
- (iii) Foreign national holding Foreign Passport must be presently working in India continuously for last 10 years or more (in the same or multiple organizations or be self-employed) and has made significant contribution to Engineering and Technology in India.

The criterion for election to the Fellowship may be one or more of the following:

- i. Notable engineering achievements and novel contributions in design, production, research, innovation, intellectual property generation, project implementation, consultancy and technology development
- ii. Indigenous technology development leading to commercialization or pilot scale implementation
- iii. Engineering innovation for new technology (product or process) development and project implementation
- iv. Technical assistance, consultancy, testing/calibration, demonstration or training provided to industry
- v. Responsibility for management and professional growth of engineering industry, educational institutions and/or R&D organizations
- vi. Specific engineering contributions of an individual if involved in a team effort
- vii. Recognition by “peers” (organizations, scientific/engineering bodies, societies, etc)

- viii. Facilitation of growth of R&D or industry in the country
- ix. Proven leadership in capacity development of an engineering field or an allied area leading to innovative applications of engineering for the betterment of society or environment
- x. Recognition of exceptional merit and eminence in new and emerging fields of engineering and technology

### **Foreign Fellow**

Persons for election as a Foreign Fellow shall be:

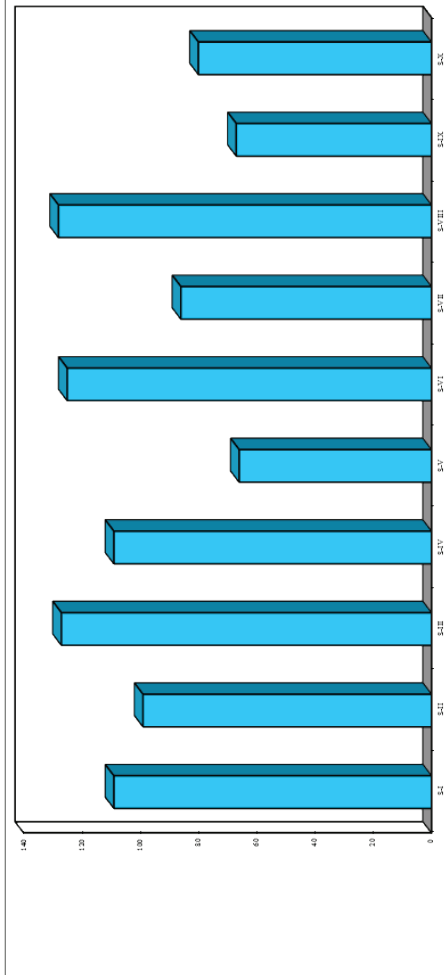
(i) Person of Indian Origin holding Foreign Passport including OCI who has worked and/or maintained regular position in a foreign country for more than last five years at a stretch and has migrated abroad during last 5-15 years only. It is mandatory for other OCIs who have migrated more than 15 years back to be a Fellow of the Engineering Academy (or Science Academy, if an Engineering Academy does not exist in that country) of his/her country.

(ii) Foreign national holding Foreign Passport who is working and living abroad and is already a Fellow of the Engineering Academy (or Science Academy, if an Engineering Academy does not exist in that country) of his/her country.

(iii) Nominees for Foreign Fellowship should preferably be less than 75 years of age.

## FELLOWSHIP IN BRIEF

**Fellowship affiliated to Engineering Sections**



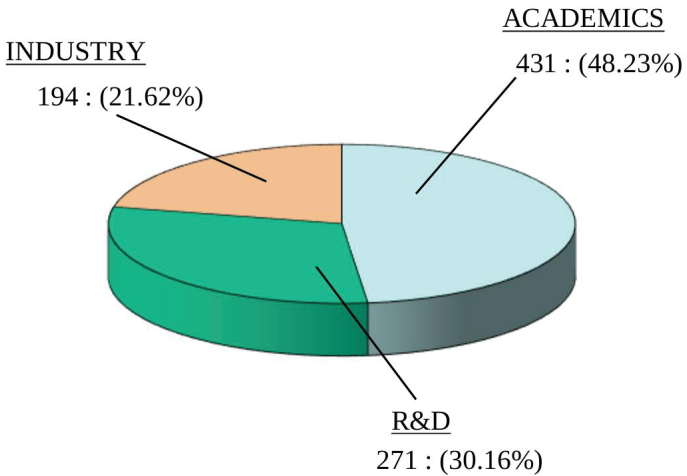
Number :	106	125	109	127	86	125	66	109.94	125	67	80
Percentage :	10.94	12.75	10.94	12.85	8.63	12.55	6.63	10.94	12.85	6.73	8.03

Fellows : 896

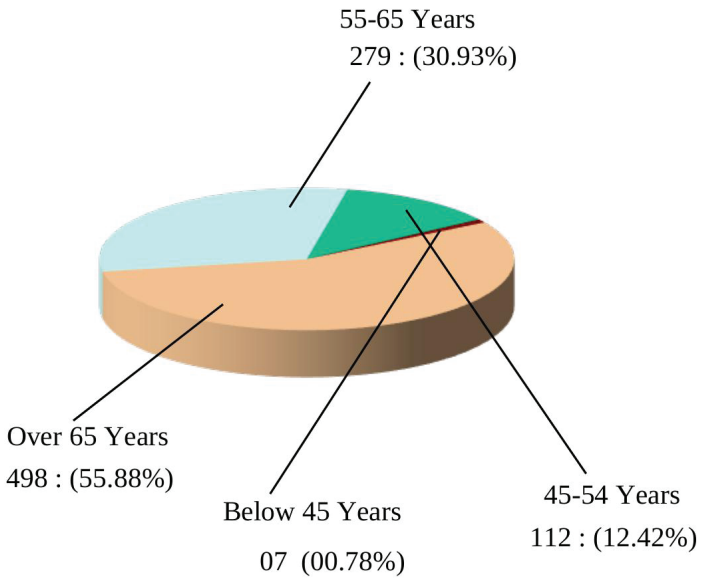
Foreign Fellows : 94



## Fellowship Profile



## Fellowship by Age



# Scroll of Republic Day Honours by the Government of India

## **Bharat Ratna**

Dr. APJ Abdul Kalam\*  
Prof. CNR Rao

## **Padma Vibhushan**

Dr. APJ Abdul Kalam\*  
Dr. VS Arunachalam  
Dr. VK Aatre  
Dr. R Chidambaram  
Dr. Anil Kakodkar  
Dr. K Kasturirangan  
Dr. Vijay L Kelkar  
Mr. G Madhavan Nair  
Dr. RA Mashelkar  
Mr. NR Narayana Murthy  
Prof. Roddam Narasimha\*  
Prof. Yash Pal\*  
Mr. Azim Hasham Premji  
Prof. P Rama Rao  
Dr. UR Rao\*  
Dr. Homi N Sethna\*  
Dr. E Sreedharan  
Prof. MR Srinivasan  
Mr. Ratan N Tata  
Dr. MVS Valiathan

## **Padma Bhushan**

Dr. APJ Abdul Kalam\*  
Dr. VK Aatre  
Mr. RN Agarwal  
Prof. Satya N Atluri  
Prof. SK Bhattacharyya  
Dr VP Bhatkar  
Mr. N Chandrasekaran

Dr. VR Gowarikar\*  
Prof. PV Indiresan\*  
Dr. George Joseph  
Prof. JB Joshi  
Prof. Thomas Kailath  
Dr. Anil Kakodkar  
Dr. Baba N. Kalyani  
Dr. K Kasturirangan  
Dr. FC Kohli\*  
Prof. Jai Krishna\*  
Prof. VC Kulandaiswamy\*  
Prof. R Kumar  
Dr. RA Mashelkar  
Mr. GM Nair  
Prof. Roddam Narasimha\*  
Dr. Arun Netravali  
Prof. AJ Paulraj  
Mr. Sundar Pichai  
Dr. Sivathanu Pillai  
Dr. Sam Pitroda  
Dr. K Radhakrishnan  
Prof. V Rajaraman  
Dr. Arcot Ramachandran\*  
Dr. S Ramachandran\*  
Dr. A Ramakrishna\*  
Prof. VS Ramamurthy  
Dr. T Ramasami  
Prof. P Rama Rao  
Prof. UR Rao\*  
Dr. Bhakta B. Rath  
Dr. Raj Reddy  
Dr. KA Reddy\*  
Dr. VK Saraswat  
Dr. N Seshagiri\*  
Dr. Homi N Sethna\*  
Dr. MR Srinivasan  
Mr. N Srinivasan\*  
Mr. Venu Srinivasan

Dr. S Srinivasan\*  
Prof. CV Sundaram\*  
Dr. BN Suresh  
Mr. Ratan N Tata  
Prof. MS Valiathan  
Dr. S Varadarajan  
Col. SP Wahi\*

### **Padma Shri**

Dr. V Adimurthy  
Mr. RN Agarwal  
Prof. Manindra Agrawal  
Dr. TK Alex  
Prof. AS Arya\*  
Prof. Sanghamitra Bandyopadhyay  
Mr. Sekhar Basu\*  
Mr. Rakesh Bakshi\*  
Prof. N Balakrishnan  
Dr. Dipankar Banerjee  
Dr. Srikumar Banerjee\*  
Mr. JC Bhattacharya\*  
Mr. Bisweswar Bhattacharjee\*  
Dr. Vijay P Bhatkar  
Mr. SB Bhoje  
Mr. Avinash Chander  
Prof. KL Chopra\*  
Prof. B Dattaguru  
Dr. BL Deekshatulu  
Prof. Dinesh Mohan\*  
Prof. SG Dhande  
Dr. C Ganguly  
Dr. PS Goel  
Mr. G Govindarajan  
Dr. VR Gowariker\*  
Dr. RB Grover  
Prof. Sujoy K Guha  
Prof. NK Gupta  
Dr. Kota Harinarayana  
Prof. Sudhir K Jain

Prof. Ashok Jhunjhunwala  
Dr. Anil Kakodkar  
Mr. VR Katti  
Mr. Satish K Kaura  
Dr. CG Krishnadas Nair  
Prof. VC Kulandai Swamy\*  
Dr. NR Narayana Murthy  
Mr. M Natarajan  
Prof. Sankar K Pal  
Mr. Chandrakant Pithawa  
Prof. T Pradeep  
Dr Prahlada  
Dr. TS Prahlad  
Dr. V Prakash  
Dr. Baldev Raj\*  
Dr. YS Rajan  
Prof. S Ramakrishnan\*  
Mr. MS Ramakumar\*  
Prof. P Rama Rao  
Dr. T Ramasami  
Dr. Paul Ratnasamy  
Dr. VK Saraswat  
Prof. P Somasundaram  
Dr. Homi N Sethna\*  
Mr. VK Sharma  
Dr. RP Shenoy\*  
Dr. LK Singhal  
Prof. RS Sirohi  
Dr. S Sivaram  
Dr. A Sivathanu Pillai  
Mr. E Sreedharan  
Dr. MR Srinivasan  
Prof. SP Sukhatme  
Dr. G Sundararajan  
Mr. BN Suresh  
Dr. ZS Tarapore  
Dr. HC Visvesvaraya  
Prof. GD Yadav

**Param Vishist Seva Medal**

Lt Gen Davinder Kumar  
Lt Gen Jagdish Narain  
Lt Gen VJ Sundaram

**Ati Vishist Seva Medal**

Lt Gen Jagdish Narain  
Commodore AJ Paulraj  
Lt Gen VJ Sundaram  
Maj Gen Surjit Singh  
Commodore RB Verma

**Vishist Seva Medal**

Maj Gen Davinder Kumar  
Lt Gen Jagdish Narain  
Capt NS Mohan Ram,IN  
Commodore AJ Paulraj  
Lt Gen VJ Sundaram  
Maj Gen Surjit Singh

\* Deceased

# ENGINEERING EXCELLENCE AWARDS

## Life Time Contribution Award in Engineering

An eminent Indian citizen who has made outstanding contributions in the field of engineering, engineering research, engineering education, technology and engineering management which are regarded as landmarks of technological development and has brought prestige to the nation. The recipients are:

### 1997



1. Prof. Satish Dhawan\*, Formerly Chairman, Space Commission, Bangalore and Formerly Director, Indian Institute of Science., Bangalore  
*(Space Programmes)*



2. Prof. Jai Krishna\*, Formerly Vice-Chancellor, University of Roorkee, Roorkee  
*(Earthquake Resistant Design of Structures)*

### 1998



1. Prof. RN Dogra\*, Founding Director, Indian Institute of Technology, Delhi.  
*(Structural Engineering, Educational Management)*



2. Dr. Dara P Antia\*, Formerly Deputy Managing Director, National Carbon Company  
*(Physical Metallurgy, Mineral Economics and Industrial Management)*

### 1999



1. Dr. Arcot Ramachandran\*, Chairman, Tata Energy Research Institute, New Delhi and Formerly Under Secretary-General & Executive Director, United Nations (Habitat); Former Secretary, Department of Science & Technology and Director General, CSIR, Delhi, Director IIT Madras  
*(Thermal Engineering and Heat Transfer, Engineering Education, Sustainable Development and Industrial Research)*

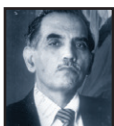


2. Dr. Homi N Sethna\*, Formerly Director, Tata Electric Companies, Mumbai and Formerly Chairman, Atomic Energy Commission and Director, BARC, Mumbai  
*(Nuclear Energy Programme, Academics and Industrial Management)*

## 2000



1. Dr. APJ Abdul Kalam\*, Former President of India  
*(Space and Missile Technology)*



2. Dr. FC Kohli\*, Formerly Deputy Chairman, Tata Consultancy Services, Mumbai.  
*(Electric Power, Technical Education and Information Technology)*

## 2001



1. Prof. MM Sharma, FRS, Honorary Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore  
*(Chemical Science, Engineering & Technology, Engineering Education and Chemical Industry)*



2. Prof. UR Rao\*, Chairman, PRL Council, and Formerly Chairman, Space Commission  
*(Indian Space Programme, Communication Applications, Broadcasting & Launch Vehicle Technology)*

## 2002



1. Dr. Jamshed J Irani, Director, Tata Sons Ltd., Mumbai and Formerly Managing Director, TISCO, Jamshedpur  
*(Lowest cost steel making as global benchmark)*



2. Prof. AS Arya\*, National Seismic Advisor, Ministry of Home Affairs, Govt. of India, UNDP-DRM Programme & Professor Emeritus, IIT, Roorkee  
*(Formation of codes of practice for earthquake resistant design and construction of buildings)*



## 2003



1. Dr. S Varadarajan, Formerly Secretary to the Govt of India, Department of Science and Technology and Formerly Director General, CSIR  
*(Basic and applied organic chemistry, molecular biology, nutrition, process technology, engineering and management)*



2. Prof. Roddam Narasimha\*, Chairman of the Engineering Mechanics Unit at the Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore and Formerly Director, National Institute of Advanced Studies, Bangalore  
*(Fluid Dynamics research, development of National Aerospace Technology)*

## 2004



1. Prof. Dwijesh Dutta Majumder\*, Professor Emeritus, Electronic & Communication Science, Indian Statistical Institute, Calcutta and Honorary Director-Secretary, Institute of Cybernetics, Systems and Information Technology, Calcutta  
*(Computer Science and Information Technology and promotion of Computer Technology)*



2. Dr. Krishnaswamy Kasturirangan, Member of Parliament, Rajya Sabha and Director, National Institute of Advanced Studies (NIAS), Bangalor.  
*(Satellite technology development)*

## 2005



1. Prof. Vaidyeswaran Rajaraman, Honorary Professor, Supercomputer Education and Research Centre, Indian Institute of Science, Bangalore  
*(Computer education, software industry)*



2. Prof. Gitindra Saran Sanyal\*, Adviser, Vinod Gupta School of Management, Indian Institute of Technology, Kharagpur  
*(Electromagnetic Theory, Microwave Antennas, Radar and Fibre Optics)*

## 2006



1. Dr. Anil Kakodkar, Chairman, Atomic Energy Commission and Secretary, Department of Atomic Energy, Mumbai  
*(Nuclear Power Reactors, Design and Construction of Dhruva Reactor)*



2. Dr. Kota Harinarayana, Formerly Programme Director, ADA, Bangalore and Formerly Vice-Chancellor, University of Hyderabad  
*(Aircraft Design, Technology Management, Aviation Technology)*

## 2007



1. Dr. CG Krishnadas Nair, Honorary President, Society of Indian Aerospace Technologies and Industries (SIATI), Bangalore; Vice-Chancellor, MATS University  
*(Metallurgical Engineering, Material Science & Engineering)*



2. Dr. BN Suresh, Director, Vikram Sarabhai Space Centre, Trivandrum  
*(Control and Guidance of Launch Vehicles)*

## 2008



1. Mr. Ratan N Tata, Chairman, Tata Industries Ltd., Mumbai.  
*(Engineering Industries and Management)*



2. Dr. E Sreedharan, Managing Director, Delhi Metro Rail Corporation, New Delhi.  
*(Civil Engineering, Railway Construction Projects)*

## 2009



1. Dr. R Chidambaram, Principal Scientific Advisor to the Govt. of India, and DAE-Homi Bhabha Professor, New Delhi  
*(Nuclear Science & Technology and Development of strategic programmes on advanced technologies)*



2. Mr. NR Narayana Murthy, Chairman & CEO, Infosys Technologies Ltd., Bangalore  
*(Computer and Information Technologies, Development of software industry)*

## 2010



1. Dr. Sam G Pitroda, Adviser to Prime Minister, Public Information Infrastructure and Innovations, Planning Commission, New Delhi  
*(Heralding the telecom revolution in India)*



2. Dr. MR Srinivasan, Formerly Member, Planning Commission; former Chairman, AEC and Secretary, Department of Atomic Energy; Formerly Adviser, International Atomic Energy Agency  
*(Nuclear Science & Technology; Deployment of technology for Nuclear Power)*

## 2011



1. Dr. VS Arunachalam, Chairman, Centre for Study of Science, Technology and Policy (CSTEP), Bangalore  
*(Metallurgical Engineering, Titanium alloys, development of technological competence in defence systems)*



2. Mr. SS Chakraborty, Managing Director, Consulting Engineering Services (India) Ltd., New Delhi  
*(Civil Engineering Projects, execution of bridge projects)*

## 2012



1. Prof. P Rama Rao, Chairman, Governing Council, International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI), Hyderabad  
**(Metallurgical Science and Engineering)**



2. Dr. RA Mashelkar, National Research Professor, National Chemical Laboratory, Pune and Chancellor, Academy of Scientific and Innovative Research (AcSIR).  
*(Polymer Science and Engineering)*

## 2013



1. Prof. KL Chopra\*, Former Director, IIT Kharagpur and Formerly IREDA Chair Professor, Centre for Energy Studies and Thin film Laboratory, Physics Department, IIT, New Delhi  
*(Physics & Technology of Thin Films, Surface and Vacuum Science)*



2. Col SP Wahi\*, Chairman, SP Wahi Management and Technology Consultants Pvt. Ltd., Gurgaon and Formerly Chairman, Oil & Natural Gas Commission, New Delhi  
*(Engineering Management)*

## 2014



Prof. S Ranganathan, INAE Distinguished Professor, Centre for Advance Study, Department of Metallurgy, Indian Institute of Science, Bangalore  
*(Metallurgy, Quasicrystals, Bulk Metallic Glasses and nano structured metals)*



Mr. S Ramadorai, Vice-Chairman, Tata Consultancy Services, Mumbai  
*(Leadership Role in Information Technology Industry)*

## 2015



Prof. DV Singh\*, Former Director, IIT Roorkee and Former Vice-Chancellor, University of Roorkee  
*(Dynamics of Mechanical Systems, Tribology)*



Prof. BL Deekshatulu, Formerly Director, National Remote Sensing Agency, Hyderabad  
*(Remote Sensing, Image Processing)*

## 2016



Dr. PS Goel, Honorary Distinguished Professor, ISRO Hqrs. and Raja Ramanna Chair Visiting Professor, National Institute of Advanced Studies (NIAS), Bangalore  
*(Satellite Technology, Space Science)*



Dr. VK Aatre, Formerly Scientific Adviser to Raksha Mantri, Ministry of Defence, New Delhi; Formerly Director, NPOL, Cochin, Former CC (R&D), DRDO, New Delhi  
*(Electronics & Communication, Aeronautics Technology)*

## 2017



Mr. Azim Hasham Premji, Chairman & Managing Director, Wipro Limited, Bangalore  
*(Software, Leadership Development)*



Prof. TK Ghose\*, Founding Chair, Biochemical Engineering and Biotechnology, IIT Delhi  
*(Biotechnology and Biochemical Engineering)*

## 2018



Dr. RK Bhandari, Geotechnical Engineer & Geohazard Specialist and Former Director, Central Building Research Institute, Roorkee & Programme Director, UN-HABITAT, Nairobi  
*(Geotechnical Engineering)*



Prof. Juzer M Vasi, Department of Electrical Engineering, Indian Institute of Technology, Mumbai  
*(Microelectronics)*

## 2019



Prof. EC Subba Rao, Formerly Professor, IIT Kanpur; Director and then Chief Consulting Advisor, Tata Research Development & Design Center, Pune  
*(Materials Science, R&D Management)*



Mr. AS Kiran Kumar, Formerly Director, Space Application Centre (SAC), Ahmedabad (Gujarat); Former Chairman, Space Commission, Chairman, ISRO and Secretary, Dept of Space, Govt. of India  
*(Electro Optical Imaging; System Engineering)*

## 2020



Prof. KA Padmanabhan, Professor of Eminence, Anna University, Member, Research & Innovation Advisory Board, TCS; Research Advisor, TCS  
*(Mechanical Metallurgy, Metal Forming (Plasticity & Superplasticity))*



Dr. TSR Prasada Rao, Chairman, Sarasi Jam Technologies, New Delhi and Formerly Director, IIP, Dehradun  
*(Heterogeneous Catalysis, Petroleum Refining and Petro-Chemical Processing)*



**2021**

Mr Senapathy "Kris" Gopalakrishnan, Co-founder Infosys & Chairman Axilor Ventures  
*(Physics; Computer Science)*



Prof- MS Ananth, Emeritus Research Fellow, Department of Chemical Engineering, IIT Madras; and Former Director, Indian Institute of Technology Madras (Thermodynamics and Mathematical Modelling)

\* Deceased

## Professor Jai Krishna Memorial Award

Eminent engineers, engineer scientists or technologists of high achievements and standing will be eligible for the award in the disciplines of Engineering Section I (Civil Engineering), Engineering Section III (Mechanical Engineering), Engineering Section IV (Chemical Engineering), Engineering Section VII (Aerospace Engineering) and Engineering Section VIII (Mining, Metallurgical and Materials Engineering). The recipients are :

**2004**



Prof. Ajoy K. Ghose\*, Formerly Director, Indian School of Mines, Dhanbad  
*(Research, education, Mining Engineering)*

**2006**



Prof. S Ranganathan, Honorary Professor, Indian Institute of Science, Bangalore  
*(Metallurgy and Materials technology, Quasicrystals)*

**2007**



Prof. DV Singh\*, Formerly Vice-Chairman, AICTE; Formerly Vice-Chancellor, University of Roorkee; Formerly Director, IIT Roorkee  
*(Dynamics of Mechanical Systems, Tribology)*

**2008**



Dr. Baldev Raj\*, Distinguished Scientist and Director, Indra Gandhi Centre for Atomic Research, Kalapakkam.  
*(Metallurgical and Materials Engineering, Non-Destructive Evaluation of Materials and Components)*

**2009**



Dr. VK Saraswat, Secretary, Dept of Defence R&D, Scientific Advisor to Raksha Mantri & DG, DRDO  
*(Development of Strategic Missile Systems)*

**2010**



Dr. Sanak Mishra, Chief Executive Officer, India Greenfield Projects, ArcelorMittal , New Delhi  
*(Metallurgy, Technologies for steel industry)*

**2011**



Dr. Dipankar Banerjee, Professor, Department of Materials Engineering, Indian Institute of Science, Bangalore  
*(Materials Engineering, structure-property relationship in titanium alloys)*

**2012**



Prof. Amitabha Ghosh, INSA Senior Scientist, Honorary Distinguished Professor, Aerospace Engineering & Applied Mechanics Department, Bengal Engineering and Science University, Howrah  
*(Manufacturing Science, Mechanics & Machine Dynamics and Robotics)*

**2013**



Prof. ML Munjal, Honorary Professor & INSA Senior Scientist, Department of Mechanical Engineering, Indian Institute of Science, Bangalore  
*(Technical Acoustics, Automotive & Industrial Noise Control)*

**2014**



Dr. Avinash Chander, Scientific Advisor to Raksha Mantri (SA to RM), Secretary, Defence Research & Development and Director General, Defence Research & Development Organization (DRDO), Ministry of Defence, New Delhi  
*(Navigation and Guidance Systems, Critical Defence Technologies)*

**2015**



Dr. LK Singhal, Director, JSL Ltd, Hisar.  
*(Role in Growth of the Steel Industry)*

**2016**



Dr. V Adimurthy, Honorary Distinguished Professor, ISRO, Vikram Sarabhai Space Centre, Thiruvananthapuram.  
*(Aerodynamics, Multi-disciplinary design optimization)*

**2017**



Prof. K Chattopadhyay, INAE Distinguished Professor, Department of Materials Engineering, Indian Institute of Science, Bangalore.  
*(Advanced Materials, Phase Transformations)*



**2018**



Dr. TK Alex, Honorary Distinguished Professor, ISRO and Distinguished Visiting Professor, VIT and Formerly Director, ISRO Satellite Centre, Bangalore  
*(Aerospace Engineering, Electro-optics)*

**2019**



Prof. KT Jacob, Emeritus Professor, Department of Materials Engineering, Indian Institute of Science, Bangalore  
*(Thermodynamics of Materials; Solid State Chemical Sensors)*

**2020**



Dr. V Ramaswamy, Professor, Department of Metallurgical Engineering, PSG College of Technology, Coimbatore  
*(Physical Metallurgy, Materials Science)*

**2021**



Prof GD Yadav, Emeritus Professor of Eminence and JC Bose National Fellow, Former Vice Chancellor & R.T. Mody Distinguished Professor, and Tata Chemicals Darbari Seth Distinguished Professor of Leadership and Innovation, Institute of Chemical Technology, Mumbai  
*(Chemical Engineering; Green Chemistry and Engineering)*

## Professor SN Mitra Memorial Award

Eminent engineers, engineer scientists or technologists of high achievements and standing will be eligible for the award in the disciplines of Engineering Section II (Computer Engineering and Information Technology), Engineering Section V (Electrical Engineering), Engineering Section VI (Electronics & Communication Engineering), Engineering Section IX (Energy Engineering) and Engineering Section X (Interdisciplinary Engineering and Special fields)]. The recipients are :

**2005**



Prof. Amalendu Bhushan Bhattacharyya, Formerly Professor, CARE, IIT Delhi; Formerly Programme Director, VLSI Design, Department of Physics, Goa University  
*(MOS Technology, surface Acoustic Wave Device, Micropower VLSI design and Microelectronics)*

**2006**



Prof. B Yegnanarayana, Professor and Microsoft Chair, International Institute of Information Technology, Hyderabad  
*(Speech and Signal Processing, Neural networks and Fourier Transform of Speech)*

**2007**



Dr. Surendra Pal, Distinguished Scientist, Programme Director, Satellite Navigation Programme and Deputy Director, Digital & Communication Area, ISRO Satellite Centre, Bangalore  
*(Space Communications, Microwaves, Electromagnetics and Antennas)*

**2008**



Prof. J Nanda\*, INSA Honorary Scientist, Department of Electrical Engineering, Indian Institute of Technology, New Delhi  
*(Electrical Power System Engineering, Computational Intelligence Application)*

**2009**



Mr. Ashok Soota, CMD, MindTree Ltd., Bangalore  
*(Technology development in the fields of Information  
Technology and Product Engineering Services)*

**2010**



Prof. SP Sukhatme, Formerly Chairman, Atomic Energy  
Regulatory Board, Mumbai; and Formerly Director, Indian  
Institute of Technology, Mumbai  
*(Safety and regulatory management of nuclear power plants  
of the nation)*

**2011**



Dr. RK Sinha, Director, Bhabha Atomic Research, Mumbai  
*(Nuclear Reactor Technology, New advanced reactors  
utilizing thorium)*

**2012**



Prof. N Viswanadham, INAE Distinguished Professor,  
Department of Computer Science and Automation, Indian  
Institute of Science, Bangalore  
*(Manufacturing and Supply Chain Networks)*

**2013**



Prof. N Balakrishnan, Associate Director and Professor,  
Supercomputer Education & Research Centre and Department  
of Aerospace Engineering, Indian Institute of Science,  
Bangalore.  
*(Numerical Electromagnetics Aerospace Electronics Systems)*

**2014**



Prof. RK Shyamasundar, Senior Professor & JC Bose National  
Fellow, Tata Institute of Fundamental Research, Mumbai  
*(Formal Modelling and Methods for Complex Software  
Systems)*

**2015**



Prof Sankar K Pal, DAE Raja Ramanna Fellow, Distinguished Scientist and Former Director, Indian Statistical Institute, Kolkata

*(Pattern Recognition, Machine Intelligence and Data Mining)*

**2016**



Prof. VS Borkar, Department of Electrical Engineering, Indian Institute of Technology Bombay, Mumbai.

*(Theory, algorithms and applications of stochastic optimization and control)*

**2017**



Prof. SC Dutta Roy, Formerly Professor of Electrical Engineering, IIT Delhi.

*(Circuits, Systems and Signal Processing)*

**2018**



Mr. B Prasada Rao, Managing Director, Steag Energy Services India, Noida and Formerly Chairman & Managing Director, Bharat Heavy Electricals Ltd. (BHEL), New Delhi

*(Corporate Planning & Strategy; Technology and R&D Management)*

**2019**



Prof. RK Shevgaonkar, Vice Chancellor and Professor of Eminence in School of Engineering and Applied Sciences, Bennett University, Greater Noida.

*(Telecommunication; Radio Astronomy)*

**2020**



Prof. LM Patnaik, Adjunct Professor and INSA Senior Scientist, National Institute of Advanced Studies, Bangalore.

*(Computer Science & Engineering, Electronics)*

**2021**



Prof Surendra Prasad, Department of Electrical Engineering,  
Indian Institute of Technology Delhi.  
*(Signal Processing, Communications)*

## Outstanding Teachers Award

**2013**



Prof. Souvik Bhattacharyya, Deputy Director, Indian Institute of Technology Kharagpur  
*(Thermal Sciences; Refrigeration)*



Prof JC Misra, Department of Mathematics, Institute of Technical Education and Research (ITER), SOA University, Bhubaneswar  
*(Bioengineering and Biomedical Mathematics)*

**2014**



Prof Pradip Dutta, Department of Mechanical Engineering, Indian Institute of Science, Bangalore.  
*(Energy Systems, Advanced Thermal Technologies)*



Prof Bhargab B Bhattacharya , Advanced Computing and Microelectronics Unit, Indian Statistical Institute, Kolkata  
*(Computer Science and Engineering, Microfluidics)*

**2015**



Prof Dipak Mazumdar, Ministry of Steel Chair Professor, Indian Institute of Technology, Kanpur  
*(Metallurgy, Steel and refractory industries)*



Prof Kripa Shanker, Emeritus Fellow, Indian Institute of Technology, Kanpur  
*(Manufacturing Systems and Management)*

**2016**



Prof. SK Sarangi, Director, National Institute of Technology, Rourkela  
*(Cryogenic Engineering, heat Transfer Equipment)*



Prof Sri Niwas Singh, Department of Electrical Engineering, Indian Institute of Technology Kanpur  
*(Power Systems, Smart Grid)*

**2017**



Prof. S Narayanan, Professor Emeritus(Adjunct), Indian Institute of Information Technology (Design & Manufacturing), Chennai  
*(Non-Linear and Random Vibration, Acoustics and Noise Control)*



Prof. (Dr.) Ganapati Panda, Professor and Deputy Director, Indian Institute of Technology Bhubaneswar, Bhubaneswar  
*(Digital Signal Processing, Soft Computing in Communication)*

**2019**



Prof. BS Murty, Director, Indian Institute of Technology Hyderabad  
*(Phase Transformation; Nano Materials)*

**2020**



Prof. Ranjit Kumar Ray, Visiting Scientist, R&D Division Tata Steel, Jamshedpur  
*(Physical Metallurgy, Crystallographic Texture)*



Prof. Bhim Singh, CEA Chair Professor, Department of Electrical Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi  
*(Power Electronics, Electrical Machines)*

**2021**



Prof Suman Chakraborty, Department of Mechanical Engineering, Indian Institute of Technology Kharagpur  
*(Thermo-Fluid Sciences and Engg and its applications to materials processing; Microfluidics and Micro/Nano scale transport processes)*



Prof Sukumar Mishra, Department of Electrical Engineering, Indian Institute of Technology Delhi  
*(Power System Control; Power Quality)*

## Women Engineer of the Year Award

The award is given to women engineers who have made outstanding contributions to engineering/technology in India. The award is bestowed on one from each of the three categories, (i) Academia, (ii) Industry and (iii) R&D. Recipients for the Women Engineer of the Year Award are as under.

**2020**



### *Academia*

Prof. Sanghamitra Bandyopadhyay, Director, Indian Statistical Institute, Kolkata



### *R&D*

Dr. Lalithambika V.R., Director, Directorate of Human Space Programme, ISRO



### *Industry*

Dr. Dheepa Srinivasan, Chief Engineer, Pratt and Whitney, R&D Centre United Technologies Corporation India Pvt. Ltd, Bangalore

**2021**



### *Academia*

Prof. Sharada Srinivasan, Professor, National Institute of Advanced Studies (NIAS), Bangalore



### *R&D*

Smt. Madhumita Chakravarti, Director, Centre for Millimeterwave Semiconductor Devices and Systems (CMSDS), Kolkata



### *Industry*

Ms. Vartika Shukla, Chairperson & Managing Director, Engineers India Limited, New Delhi



## Young Engineer Award

The award is given to young engineers in any branch of “Engineering” in excellence in design and technology transfer, innovative development and engineering research work carried out totally in India. Recipients for the Young Engineer Award 2021 are as under.

1. Dr Sri Harsha Kota, Associate Professor, Department of Civil Engineering, Indian Institute of Technology Delhi  
*(Environmental Engineering)*
2. Dr Puneet Kumar Patra, Assistant Professor, Department of Civil Engineering, Indian Institute of Technology Kharagpur  
*(Mechanics)*
3. Mr Pankaj Malhotra, Scientist, Tata Consultancy Services, Mumbai  
*(Machine Learning for Predictive Maintenance, Prognostics and Health Management; Reliability Engineering; & Time Series Analysis)*
4. Dr Abir De, Assistant Professor, Department of Computer Science and Engineering, Indian Institute of Technology Bombay  
*(Machine Learning, Artificial Intelligence & Complex Networks)*
5. Dr Neha Khatri, Senior Scientist, Department of Optical Devices & Systems, CSIR-Central Scientific Instruments Organisation (CSIR CSIO), Chandigarh  
*(Optical system Design and fabrication for Soft X-Rays & Infrared Optical elements)*
6. Dr Sourav Mondal, Assistant Professor, Department of Chemical Engineering, Indian Institute of Technology, Kharagpur  
*(Fluid Flow and Mass Transport)*
7. Mr Sri Harsha Nistala, Scientist, Tata Consultancy Services Ltd., Pune  
*(Industrial Analytics; Agglomeration with specialization in Sintering & Pelletization; Thermodynamic modelling; and Process Modeling & Simulation)*
8. Dr Abheejeet Mohapatra, Assistant Professor, Department of Electrical Engineering, Indian Institute of Technology, Kanpur  
*(Power network operation and planning & protection in the presence of renewable energy sources)*
9. Dr Manas Kumar Jena, Assistant Professor, Department of Electrical Engineering, Indian Institute of Technology, Palakkad  
*(Power Systems Engineering)*

10. Dr. Manan Suri, Associate Professor, Department of Electrical Engineering, Indian Institute of Technology Delhi  
*(Electronics & Communication Engineering)*
11. Dr. Niraj Kumar, Principal Scientist, CSIR-Central Electronics Engineering Research Institute, Pilani, Rajasthan  
*(Plasma assisted Microwave & sub-THz source)*
12. Dr. S Mathavaraj, Scientist – SE, U. R. Rao Satellite Center, ISRO, Bengaluru  
*(Space Trajectory Design; Guidance and Navigation & Control design of Space Vehicles)*
13. Dr. Samadhan Ananda Pawar, Post-Doctoral Researcher, Department of Aerospace Engineering, Indian Institute of Technology Madras  
*(Synchronization, Complex Systems, and Control of Instabilities)*
14. Dr. Chandra Sekhar Tiwary, Assistant Professor, Department of Metallurgical and Materials Engineering, Indian Institute of Technology Kharagpur  
*(Metallurgical and Materials Engineering)*
15. Mr. Pushkar Varshney, Senior Research Manager, Life End Processing, Refining Technology, Indian Oil Corporation Ltd., Research & Development Centre, Faridabad  
*(Refining Technology)*

## **INAE Young Innovator & Entrepreneur Award**

The INAE Young Innovator & Entrepreneur Award has been instituted in the year 2017 to encourage and recognize innovation and entrepreneurship among Young Engineers. The engineering innovations/inventions/ concepts that have been actually realized and implemented in industry either in new processes or products are given weightage. The recipients of the award for the year 2021 are:

1. Dr. Chandan Kumar Jha, Post-Doctoral Fellow, Indian Institute of Technology Gandhinagar.  
*(Fiber Optic Sensing' for development of highly sensitive and reliable instrumented glove)*
  
2. Dr. Madhan Balaraman, Senior Principal Scientist, CSIR-Central Leather Research Institute, Chennai.  
*('Leather Technology' for development of Collagen Composite Scaffold for treatment of wounds)*
  
3. Mr. Nikhil Kurele, Cofounder & CEO, Noccarc Robotics Private Limited, Pune, and Mr Harshit Rathore, Cofounder & CTO, Noccarc Robotics Private Limited, Pune.  
*(Mechanical engineering' for development of an advanced ICU Ventilator)*
  
4. Dr. Sebastian C. Peter, Associate Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru.  
*('CO<sub>2</sub> capture and Utilization' for Pilot Scale Development of Carbon Recycling)*

## **Innovative Student Projects Award**

The award encourages innovative and industry oriented creative research projects undertaken by the students at undergraduate and postgraduate levels in the Engineering Colleges promote joint projects among industry, research laboratories and academic institutions. Recipients for the Innovative Student Projects Award 2021 are as under.

### **Doctoral Level**

1. Dr. Indrasis Das, Indian Institute of Technology, Kharagpur  
*(Bioelectric Toilet: For onsite treatment of blackwater to facilitate reuse of treated water and electricity generation for onsite applications)*
2. Dr. Arpita Biswas, Indian Institute of Science, Bangalore  
*(Algorithms for Fair Decision Making: Provable Guarantees and Applications)*
3. Dr. Vijai Laxmi, Indian Institute of Technology, Bombay  
*(Design and Development of Microdevices for Platelet Rich/Poor Plasma Separation from Blood)*
4. Dr. Khushboo Suman, Indian Institute of Technology, Kanpur  
*(Microstructure and Viscoelasticity of Physical Gels)*
5. Dr. Syed Shahjahan Ahmad, Indian Institute of Science, Bangalore  
*(Modeling, Characterization, Control and Design of Switched Reluctance Machines)*
6. Dr. Sanghamitra Ghosal, Indian Institute of Engineering Science and Technology, Shibpur  
*(Ternary Hybrid Junctions of Semiconducting Oxide Nanostructures, Reduced Graphene Oxide and Noble Metal for Improved Gas Sensor Device Applications)*
7. Dr. Syed Idrees Afzal Jalali, Indian Institute of Science, Bangalore  
*(Evaluation of Power-Law Creep in Bending)*
8. Dr. Parvaiz Ahmad Shiekh, Indian Institute of Technology, Kanpur  
*(Engineering Bioinspired Polyurethane Scaffolds to Attenuate Oxidative Stress and Hypoxia for Cardiac and Dermal Tissue Regeneration)*

## Master's Level

1. Ms Vasamsetti Sri Harika, Jawaharlal Nehru Technological University  
*(Health Monitoring of Structures under Ambient and Vehicle Excitations)*
2. Ms Tapadyoti Banerjee, Indian Institute of Technology, Kharagpur  
*(Authenticated Encryption using Cellular Automata)*
3. Mr Sampad Laha, Indian Institute of Technology, Kharagpur  
*(The Dynamics of Blood on Paper Matrix and its Implication in Point of Care Diagnostics)*
4. Ms Lubna Muzamil Rehman, Birla Institute of Technology and Science-Pilani, K.K Birla Goa Campus, Goa  
*(Understanding the Thermodynamics of Salt-water systems)*
5. Ms Jashaswini Bhuyan, Indian Institute of Technology, Bhubaneswar  
*(Performance Analysis and Optimization of Receive Diversity PLC system with imperfect CSI in Nakagami-m noise environment)*
6. Ms Shruti Tandon, Indian Institute of Technology, Madras  
*(Investigating the intermittency route of chaos to order transition in laminar and turbulent thermoacoustic systems)*
7. Mr Nampelly Ganesh, Indian Institute of Technology, Madras  
*(Eddy Resolving Simulations of Cavity Flows)*

## Bachelor's Level

1. Mr Love Kush Tak, Indian Institute of Technology Bombay  
*(Calorific value determination of Reject Fractions from Mechanical Biological Treatment Plant)*
2. Mr Aditya Chetan & Ms Brihi Joshi, Indraprastha Institute of Information Technology, Delhi  
*(Understanding Adversarial Collusive Activities in Online Social Networks)*
3. Mr Ashwin Agrawal Mr Rohan Katkar and Mr Suyash Dadmal  
College of Engineering, Pune  
*(Design and Development of agricultural harvester mechanism for bulbous crops like onions)*

4. Mr Merul Ritesh Shah, Institute of Chemical Technology, Mumbai  
*(Design of a brine preparation unit to manufacture 2000 TPD of soda ash using sea water as raw Material)*
5. Ms Sakshi Sushant Naik, Indian Institute of Technology Hyderabad  
*(Novel strategies in Automated & Physics-driven Deep Learning for Real-time Optimal design of Cascaded Industrial Crystallizers)*
6. Mr Ishank Shekhar, Indian Institute of Space Science and Technology, Thiruvananthapuram  
*(Generation of 24-Sided Polygonal Voltage Space Vector Structure with Reduced Hardware Complexity)*
7. Mr Shashank Tomar, Indian Institute of Space Science and Technology, Thiruvananthapuram  
*(Launch Vehicle Landing Trajectory Optimisation)*
8. Mr Sontam Govardhan Reddy, Indian Institute of Technology Hyderabad  
*(Dynamic modulation of light using plasmonic nanostructures on elastomeric PDMS substrates)*

## **Academia-Industry Interaction**

The Academy launched a Distinguished Visiting Professorship (DVP) Scheme jointly with AICTE in 1999. The Scheme envisages promotion of industry-institute interaction by facilitating the dissemination of knowledge through the expertise of experienced and knowledgeable persons from industry to integrate their rich industrial experience with technical education. The Scheme has received very enthusiastic response from industry and engineering research institutions over the years.

# INAE Digital Platform

The INAE Digital Platform was instituted in the year 2018 and there was in place an INAE Digital Platform Committee with Dr Pradip, Vice-President, INAE as Chairman and a Review Committee of INAE Digital Platform, chaired by Mr. K Ananth Krishnan. In the year 2020, the INAE Digital Platform Committee was re-constituted to look at new requirements of the platform, review the development and plan future initiatives, with Mr. K Ananth Krishnan, Executive Vice President and Chief Technology Officer, TCS as Chairman; Mr. Vinay Vasant Kulkarni, Chief Scientist, Tata Research Development and Design Centre, TCS; Dr. Manish Gupta, Director of Google Research India; Co-founder & CEO VideoKen Software and Infosys Foundation Chair Professor, IIT Bangalore; Dr. Sriram K Rajamani, Distinguished Scientist and Managing Director, Microsoft Research India Lab and Prof Sukumar Nandi, Senior Professor, IIT Guwahati as Members. The platform being a dynamic one will cater for expansion of objectives and will also incorporate changes in functionality depending upon new requirements.

The Platform provides an interactive INAE Website with user friendly features for external stakeholders of INAE (e.g. the Engineering community, students and faculty, Government and policymakers, other Academies) as listed below:

- New Look and Feel
  - *Wider Slide Show of photos*
  - *Separate Information blocks*
  - *Easy Navigation to INAE Activities, Schemes, Awards, Events and INAE Publications*
  - *What's New Section - Listing of upcoming and recent INAE activities*
  - *Access to "Transactions of the Indian National Academy of Engineering"- An International Journal of Engineering and Technology*
- Improved Site Search and Quick Links to important information
- Link to INAE Webinar Series
- Social media Integration (Facebook, YouTube, Twitter, LinkedIn)
- Online Applications / Nominations for INAE Schemes and Awards open for all
- Descriptive About Us with information on
  - *History of INAE*
  - *INAE President*



- *Past Presidents*
- *INAE Office Bearers*
- *Committees of INAE*
- *INAE Secretariat*
- *INAE Local Chapters*
- INAE Expert Pool
- Archive Section
  - *INAE Videos*
  - *INAE Photo Gallery*
  - *INAE Webinar Videos*

Some of the features in the Platform that are exclusively meant for INAE Fellows are given below:

- Secured Login to Fellow Profile with unique username and password generated by INAE Digital Centre
- Interactive Dashboard with
  - *Editable Profile page with option for private and public visibility*
  - *Dashboard with option for online submission of Nominations for INAE Fellowship, INAE Awards and INAE Schemes*
  - *Request to conduct webinar*
  - *Access to articles published in 'Transactions of INAE'*
  - *Search for Fellows*
  - *Online Request for Travel booking*

New features have been added to the INAE Digital Platform in the year 2020 to facilitate INAE Fellows submitting nominations online for Fellowship, schemes and awards and for improved functioning and digitizing of operations of INAE Office. In the year 2020, the receipt, review and scrutiny of nominations for Fellowship were done online.

Profile pages for each INAE Fellow and INAE Young Associate have been created on the website which can be updated by them, as and when required. The username and password for accessing the profile pages have been shared with each and every INAE Fellow and INAE Young Associate. All the Fellows and INAE Young Associates have been requested to please log in to his/her home page and complete his/her profile. Please contact the INAE Digital Centre helpline for any assistance.

*INAE Digital Centre Help Line +91 7428520410*

# KEY TO ENTRIES

## Example :

1	2	3	4	5	6
		AATRE	Dr. Vasudev Kalkunte		1991
		Scientific Adviser to Minister of Defence Ph.D.	08/28/1939		VI
		FNAE, FNASc., FIEEE, Dist.FIETE, FASI, NAS(I) <i>Address (Off)</i>	<i>Address (Res)</i>		
		Ministry of Defence 137, South Block New Delhi - 11001	C-1/8, Pandara Park, New Delhi - 110003		
		<i>Tele:</i> +91-011-3011519	<i>Tele:</i> 080-23511733		
		<i>Fax:</i> +91-011-3018216			
		<i>Email:</i>			
		Formerly Scientific Adviser to Raksha Mantri, Ministry of Defence, New Delhi; Formerly Director, NPOL, Cochin, Former CC (R&D), DRDO, New Delhi Counc. 1997-98			
		1 Service in the Council			
		2 Membership of Professional Bodies			
		3 Designation/Appointment			
		4 Date of birth (Month/Date/Year)			
		5 Field of Specialisation and affiliation to Engineering Section			
		6 Year of Election			

The Indian National Academy of Engineering (INAE) has 994 Fellows from India and 94 Foreign Fellows on its rolls.

*Abbreviations used are : FF - Foundation Fellow, Pres.-President, V.P.-Vice-President, Hon. Secy.-Honorary Secretary, F. Secy.-Foreign Secretary, Hon. Treas.-Honorary Treasurer, Ed. Pub.-Editor of Publications, Counc.-Council*

# The Fellowship





**ADIMURTHY Dr. Vipparthi** 2008  
 Honorary 1946 VII  
 Distinguished  
 Professor, ISRO  
 Ph.D.  
 FNAE, FSSI, FASI, Senior Fellow, Alexander von Humboldt  
*Address (Off)* *Address (Res)*  
 Vikram Sarabhai Space Silver Sun, Chettikunnu  
 Centre, ISRO P.O. Medical College P.O.,  
 Thiruvananthapuram-695022 Thiruvananthapuram-695 011  
*Tele:* 0471-2564792  
*Fax:* 0471-2564097  
*Email:* vip.adimurthy@gmail.com



Formerly Outstanding Scientist and Associate Director, VSSC, Trivandrum; Formerly Professor Satish Dhawan Professor, Dean (R&D), Indian Institute of Space Science and Technology, Department of Space, Trivandrum

**AGARWAL Prof. Avinash Kumar** 2015  
 Professor & Sir JC 1972 III  
 Bose National Fellow  
 B.E.(Mech), M.Tech. (Energy), Ph.D.(Mech)  
 FNAE, FAAAS, FASME, FSAE, FRSC, FISEES,  
 FNASc, FWSSET, MIAHE, MTSI, MCI(IS)  
*Address (Off)* *Address (Res)*  
 FB-339, Faculty Building, House No.605, Lane 31,  
 Department of Mechanical Indian Institute of Technology  
 Engineering, Indian Institute Kanpur,  
 of Technology Kanpur, Kanpur-208 016  
 Kanpur-208 016 *Tele:* 0512-259 8682  
*Tele:* 0512-2597982  
*Fax:* 0512-2597408  
*Email:* akag@iitk.ac.in, aviagarwal@yahoo.com



Founder Director, IIT Kanpur Science and Technology Park (Technopark) (2018-21); SBI Endowed Chair Professor, IIT Kanpur (2018-21); Poonam and Prabhu Goyal Endowed Chair Professor, IIT Kanpur (2013-16)

**AGARWAL Lt Gen (Retd) Girish** 1990  
**Chandra**  
 1930 X  
 BE(Hons), MSc., Ph.E.  
 FNAE, FIS, MCA  
*Address (Res)*  
 37, Curzon Road,  
 Dalwanwala, Dehradun-248001  
*Tele:* 0135-2655395



Formerly, Surveyor General of India and Former VC, Maharishi Dayanand University, Rohtak

**AGARWAL**      **Mr. Ram Narain**      2000  
1941      VII

B.Sc., DMIT, ME  
FNAE, FASI

*Address (Res)*  
18-8-254/1/A/32, Bharat Ratna  
Society, PO Saidabad,  
Hyderabad-500059



*Tele:* 040-24345555, 24340566

*Email:* rnaragwal2003@yahoo.co.in

Formerly Director, Advanced Systems Lab. And Programme Director (AGNI), Defence Research & Development Laboratory (DRDO), Hyderabad

**AGARWAL**      **Dr. Uday Shankar**      2016  
President (R&D), 1962      IV

Grasim Industries Ltd.  
Ph.D.  
FNAE, MACS

*Address (Res)*  
501, Safal Angan, Plot No.3 & 4,  
Union Park, Chembur,  
Mumbai-400 071



*Tele:* 022-25205191

*Email:* Uday.Agarwal@hotmail.com

**AGARWAL**      **Prof Vivek**      2011  
1964

BSc, ME, Ph.D,  
FNAE, FIETE, SMIEEE, LMISTE

*Address (Off)*

Department of Electrical  
Engineering, Indian Institute  
of Technology Bombay,  
Powai, Mumbai - 400 076

*Address (Res)*

C-105, Building No 17,  
Central Area, IIT Bombay,  
Powai, Mumbai - 400 076



*Tele:* 022-25767422    *Tele:* 022-25768422

*Fax:* 022-25723707

*Email:* agarwal@ee.iitb.ac.in





**AGRAWAL**      **Mr. Ram Gopal**      2010

Distinguished  
Scientist and Head  
B.E.

FNAE, MINS

*Address (Off)*

Refuelling Technology  
Division, Hall No.7,  
Bhabha Atomic Research  
Centre, Trombay,  
Mumbai-400 0085

*Tele:* 022-25593624

*Fax:* 022-25505151

*Email:* r.g.agrawal@gmail.com

*Address (Res)*

J-1202, Haware's Splendor,  
Sector 20, Kharghar,  
Navi Mumbai-410 210

*Tele:* 022-27740972



**AGRAWAL**      **Dr. Vinod Kumar**      2007

Director, Crucible  
of Research &  
Innovation and  
Professor  
Ph.D.

FNAE, SMIEEE, MAstr.SI, MISHME

*Address (Off)*

Department of Information  
Science & Engineering,  
PES Institute of Technology,  
Bangalore-560 085

*Tele:* 080-26724783

*Email:* vk\_agrawal@hotmail.com, vk.agrawal@pes.edu

Formerly Group Director, Control Systems, ISAC, ISRO Satellite Centre, Bangalore;

Formerly Lab Group Manager, General Motors R&D, Bangalore

*Address (Res)*

No.1, 1st Floor, 9th Cross,  
1st Main, ISRO Layout,  
Bangalore-560 078

*Tele:* 080-26669308



**AHMAD**      **Dr. Shamim**      1997

Ph.D.

FNAE, FIETE, FSSI

*Address (Res)*

508 Brentwood Tower  
Eros Garden  
Charmwood Village  
Faridabad - 121 001

*Email:* drsahmad@email.com

Formerly Director, Central Electronics Engineering Research Institute, (CEERI), Pilani;

Formerly Vice-Chancellor, Jamia Hamdard, (Hamdard University), New Delhi

Counc.2016-18



**AIYAGARI**            **Dr. Venkatesh Rao**            2005  
 1947    X

D.Sc.(h.c.)  
 FNAE

*Address (Res)*  
 64, Nehru Apartments  
 Kalkaji Outer Ring Road  
 New Delhi-110 019  
*Tele:* 011-26479829



*Email:* raoaiyagari@yahoo.com

Formerly Adviser & Head, Science & Engineering Research Council, Department of Science & Technology, New Delhi; Formerly Adviser, Public Health Foundation of India, New Delhi Counc.2010-2012 and 2013-15

**AKARTE**            **Mr. Ramesh Ramkrishna**            2003  
 Consultant Adviser   1945    III

M.Tech  
 FNAE, MIAE, MSAE

*Address (Res)*  
 8 ANAMIKA, 5, Bhosale Nagar,  
 Pune-411 007  
*Tele:* 020-25561951



*Email:* akarterr@gmail.com

Formerly Vice-President, Tata Engineering, Engineering Research Centre, Pune

**ALEX**            **Dr. Thekkethil Kochandy**            1994  
 Honorary            1948    VII

Distinguished  
 Professor, ISRO  
 and Distinguished  
 Visiting Professor,  
 VIT  
 Ph.D.

FNAE, FASc., FIETE, FOSI, MISI, MASI  
*Address (Off)*    *Address (Res)*

ISRO Headquarters,  
 New BEL Road,  
 Bengaluru -560231

*Tele:* 080-22172404    *Tele:* 080-23642277

*Email:* drtkalex@gmail.com

Formerly Director, ISRO Satellite Centre, Bangalore  
 Counc.2005-2006 and 2008-2010



**AMBANI**                      **Mr. Mukesh**                      2002

Chairman and                      **Dhirubhai**                      IV  
 Managing Director  
 BE(CHEM)

FNAE, International Member, NAE(USA)

*Address (Off)*

Reliance Industries Ltd.,  
 Maker Chamber IV,  
 4th Floor, 222, Nariman  
 Point, Mumbai-400021

*Tele:* 022-22871418, 22045523    *Tele:* 022-22150704, 22150714, 22180130

*Fax:* 022-22870303, 22042268

*Email:* mukesh\_ambani@ril.com

*Address (Res)*

Sea Wind, 39, Cuffee Parade,  
 Mumbai-400005



**AMBIRAJAN**                      **Dr. Amrit**                      2018

Consultant                      1965                      III

Ph.D.

FNAE, MISHMT

*Address (Res)*

392, 1st Cross, HAL,  
 2nd Stage, Indiranagar,  
 Bangalore-560 008  
*Tele:* 080-25275568



*Email:* amrit.ambirajan@gmail.com

Former Deputy Division Head of Thermal Testing Division and Head of Cryogenics Systems Section, UR Rao Satellite Centre (URSC), Bangalore

**ANAND**                      **Mr. Anil Kumar**                      2001

Director Technical    1939                      IX

B.Sc.(Engg)

FNAE, MINS, MISHMT

*Address (Off)*

Microtrol Sterilisation  
 Services Pvt Ltd,  
 Saki Vihar Road, Powai,  
 Mumbai - 400 072

*Tele:* 022-28570097

*Fax:* 022-28572938

*Email:* anil@microtrol-india.com, akanand9.11@gmail.com

Formerly Director (Reactor Projects Group), BARC, Mumbai, Formerly Scientific Consultant, Academia-Industry Interaction, Office of the PSA to the Govt of India

*Address (Res)*

19, Vikram Jyoti, Devnar,  
 Mumbai-400088

*Tele:* 022-25566494



**ANAND**                      **Prof. Gargeshwari**                      2002  
**Venkatasubbiah**

Professor Emeritus    1943                      VI

B.Sc., M.Sc. (Physics), Ph.D.  
 FNAE, FASc., FIETE, FASI

*Address (Off)*

Department of E&CE,  
 School of Engineering,  
 Dayanand Sagar University,  
 Hosur Main Road,  
 Bangalore-560 114

*Tele:* 080-49092932

*Address (Res)*

20/10, 9th Main Road,  
 2nd Cross, RMV Extn.,  
 Sadashivnagar,  
 Bangalore-560080

*Tele:* 080-23611263

*Email:* gargeshwari.anand@gmail.com, anandgv@alumni.iisc.ac.in

Formerly Professor, Department of Electrical Communication Engineering, Indian Institute of Science, Bangalore; Formerly MRD Chair Professor, PES University, Bangalore



**ANAND**                      **Prof. Sneh**                      1996  
 Professor Emeritus    1949                      X

Ph.D.

FNAE, FIETE

*Address (Off)*

299 Block II, Centre for  
 Biomedical Engineering,  
 Indian Institute of Technology,  
 Delhi, Hauz Khas,  
 New Delhi-110 016

*Tele:* 011-26591039

*Fax:* 011-26582037

*Email:* sneha@cbme.iitd.ac.in, snehanand.iitd@gmail.com

Counc.2005-2006; 2007-2009

*Address (Res)*

319, Nalanda Apartments,  
 Indian Institute of Technology  
 Delhi, Hauz Khas,  
 New Delhi-110 016

*Tele:* 011-26591830, 26863439



**ANAND**                      **Dr. Yogendra Pal**                      1990  
    1934                      X

Ph.D.

FNAE, MSESI, FIPWE, FIRT, FIIBE, FIEI

*Address (Res)*

Flat No.513, Pocket C,  
 Sector A, Vasant Kunj,  
 New Delhi-110 070  
*Tele:* 011-26898913

*Email:* ypanandindia@yahoo.co.in

Formerly Chairman, Railway Board, Formerly Director, National Gandhi Museum, New Delhi

Counc.-1997-98 and 2003-2004



**ANANDA MOHAN**                      **Dr. Pemmaraju Venkata**                      2008  
1949    VI

Ph.D (I.I.Sc). M.Sc (Tech) (Andhra)  
FNAE, FIEEE, FIETE

*Address (Res)*  
1445, B Block,  
Sahakara Nagara  
Bangalore 560092  
*Tele:* 9448488560



*Email:* anandmohanpv@live.in

Former General Manager and Executive Director, ECIL, Bangalore

**ANANTH**                                      **Prof. Madaboosi Santanam**                      1999  
Distinguished                                      IV  
Visiting Professor

Ph.D.  
FNAE, FICh.E

*Address (Off)*  
Department of Chemical  
Engineering, Indian Institute  
of Technology, Bombay,  
Powai, Mumbai-400076

*Tele:* 022-25767239

*Email:* ananth@iitm.ac.in, msa1945@gmail.com

Former Director (2001-2011), Indian Institute of Technology Madras  
Counc.2003-2004; 2005-2006; 2014-2016

*Address (Res)*  
No.55, Rukmani Road,  
Kalakshetra Colony,  
Chennai 600090



**ANANTH KRISHNAN**                      **Mr. Krishnaswami**                      2013  
Executive Vice-President                      II  
and Chief Technology Officer

B.Sc.(Physics), M.Sc.(Physics), M.Tech

FNAE, SMIEEE, MACM, SMCSI

*Address (Off)*                                      *Address (Res)*  
Tata Consultancy Services,                      A-1/11/4, 'Srivatsa',  
Tower Block, CTO's Office,                      23rd Cross Street, Besant Nagar,  
Plot # G1 SIPCOT IT Park,                      Chennai-600 090, Tamil Nadu  
Navalur Post,

Chennai-603 103, Tamil Nadu

*Tele:* 044-66160080

*Tele:* 044-24914346

*Email:* ananth.krishnan@tcs.com

Formerly Vice-President, Tata Consultancy Services  
Counc.2015-2017



**ANANTHASURESH**      **Prof Gondi Kondaiah**      2011  
1967      III

Ph.D.  
FNAE, MASME, MISSS, MAMM, MISSMO  
*Address (Off)*  
Department of Mechanical  
Engineering, Indian Institute  
of Science,  
Bangalore - 560 012  
*Tele:* 080-22932334/3363  
*Fax:* 080-23600648  
*Email:* suresh@iisc.ac.in

*Address (Res)*  
NE-118, Faculty Quarters,  
Indian Institute of Science,  
Bangalore - 560 012  
*Tele:* 080-23606687



**APPA RAO**      **Dr. Tamirisa VSR**      1990  
Emeritus Scientist (CSIR)      1941      I

Ph.D.  
FNAE, FIE  
*Address (Off)*  
Structural Engineering  
Research Centre (CSIR),  
CSIR Campus, Taramani,  
Chennai-600 011  
*Tele:* 044-22549194  
*Fax:* 044-22541508  
*Email:* apparaotvsr5@gmail.com  
Formerly Director, SERC, Madras

*Address (Res)*  
No.1, VGP Avenue,  
Seethapathy Nagar, Velachery,  
Chennai-600 042 (Tamil Nadu)  
*Tele:* 044-22435358



**APRAMEYAN**      **Dr. Kuppannaiyengar**      1998  
1942      III

Dr.Ing.  
FNAE, MIRIS, MIIM

*Address (Res)*  
311, 7th Main, MICO Layout,  
BTM 2nd Stage,  
Bangalore-560076  
*Tele:* 080-26681076



*Email:* kaprameyan75@hotmail.com  
Formerly Chairman & Managing Director, Bharat Earth Movers Ltd., Bangalore  
Counc.-1999-2000 and 2005-2006

**ARAKERI**      **Prof. Jaywant H**      2006  
1956      III

Ph.D.  
FNAE  
*Address (Off)*  
Department of Mechanical  
Engineering,  
Indian Institute of Science,  
Bangalore-560 012  
*Tele:* 080-22933228  
*Fax:* 080-23600648  
*Email:* jaywant@iisc.ac.in

*Address (Res)*  
286/A, 1st Main, 38th Cross,  
8th Block, Jayanagar,  
Bangalore-560 082  
*Tele:* 080-26345468



**ARUNACHALAM**

Ph.D. , MSc (Engg) , B.E.  
FNAE, SMIEEE, MCIGRE

**Dr. Malaiyandi**  
1948

2005  
V

*Address (Res)*  
Flat No.105, JJ Hill View,  
No.5, 4th A Main, Kalyananagar,  
Nagarabhavi Main Road,  
Bangalore-560 072  
*Tele:* 080-23147284



*Email:* arunachalammalaiyandi@yahoo.co.in

Formerly General Manager (CE-ENGG-HVDC & SCADA), Electronics Division, BHEL, Mysore and Formerly Senior Specialist (EE), BHEL, Bangalore

**ARUNACHALAM**

Director  
B.E., M.S., Ph.D.  
FNAE, FIE, MICI, MISWE

*Address (Off)*  
Jaypee Wind Engineering  
Application Centre,  
Jaypee University of  
Engineering & Technology,  
A.B. Road, Raghogarh, Guna,  
Madhya Pradesh-473 226  
*Tele:* 07544-267051, 26731014  
*Fax:* 07544-267011

**Prof. Srinivasan**  
1957

2014  
I

*Address (Res)*  
53/9, Canal Road,  
Opposite to Sekaran Kalyana  
Mandapam, Thiruvannamiyur,  
Chennai-600041 (Tamil Nadu)



*Email:* sarunacha@yahoo.co.in, s.arunachalam@juet.ac.in

Formerly Chief Scientist & Advisor (Management), and Head, Wind Engineering Lab, CSIR-Structural Engineering Research Centre, Chennai; Formerly Dean (Academics & Research), Jaypee University, Guna, M.P.

**ARUNACHALAM**

Chairman

Ph.D.(Wales), D.Engg(hc), D.Sc.(h.c.), D.Litt(h.c.)  
FNAE, FASc., FNAsc., FNA, FREng.(UK), FIETE, MIRGCSTC

*Address (Off)*  
Centre for Study of Science,  
Technology and Policy  
(CSTEP), Dr. Raja Ramanna  
Complex, Raj Bhavan Circle,  
High Grounds,  
Bangalore - 560 001

*Tele:* 080-22373311, 42490000/14/15      *Tele:* 080-26491399  
*Fax:* 080-22372619

*Email:* vsa@cmu.edu, vsa@cstep.in

Formerly Scientific Adviser to the Minister of Defence, Secretary, Defence Research and Development Organisation

FF-1987 ; VP-1987-91 ; Pres-1991-92

**Dr. Vallampadugai  
Srinivasa Raghavan**  
1935

1987  
VIII

*Address (Res)*  
547, 9th Cross, JP Nagar III Phase,  
Bangalore-560 078



**ASWATHA NARAYANA**

Visiting Professor

Ph.D.

FNAE, FIE, FAeSI

*Address (Off)*

Department of Aerospace  
Engineering, Jain Global  
Campus, Jakkasandra Post,  
Kanakapura Taluk,  
Ramanagara Distt-560 112

**Prof. PA**

1940

2002

I

*Address (Res)*

“Sooryshree”, No.12, Fourth Cross,  
Papaiah Garden, Sankarnag Road,  
BSK Third Stage,  
Bangalore-560 085

*Tele:* 080-26797993*Email:* paa\_iitm@yahoo.co.in

Formerly Professor, Department of Applied Mechanics, IIT Madras

**AWASTHI**

Managing Director

B.Sc.

FNAE, FICh.E, MFAI

*Address (Off)*

Indian Farmers Fertilizer  
Coop. Ltd., IFFCO Sadan,  
C-1, District Centre,  
Saket Place, New Delhi-110 017  
Tele: 011-42592601, 42592641

*Fax:* 011-42592659*Email:* mdoffice@iffco.in**Mr. Udai Shankar**

1945

2004

IV

**AYAPPA**

Ph.D

FNAE, LMIChE, MAICHe, MACS, MBPS

*Address (Off)*

Department of Chemical  
Engineering, Indian Institute  
of Science,  
Bangalore-560 012  
Tele: 080-22932769

*Email:* ayappa@iisc.ac.in**Prof. K Ganapathy**

1962

2013

IV

*Address (Res)*

A1, Regency Manor,  
34, Davis Road, Cooke Town,  
Bangalore-560 084

*Tele:* 080-25465174**AYYAPPAN**

M.Tech, Ph.D.

FNAE, FIE, FASI, FAstr.SI, MICC, MISSSE

**Dr. Gopala Pillai**

1960

2018

VII

*Address (Res)*

“SRIRENGOM”, TC-28/2115,  
TENRA-75, Thycaud, Elankom Nagar,  
Thiruvananthapuram

*Tele:* 09496020045*Email:* ayyappang1960@yahoo.co.in

Former Project Director, GSLV MK III Project; Former Outstanding Scientist, Programme Director, Space Transportation System, Thiruvananthapuram





**BAJAJ****Mr. Harbans Lal**

2009

1945

IX

B.Sc.Engg (Electrical), M.Sc. Engg(Electrical), Ph.D.  
FNAE, FIEEE, FIE, FIET(UK)

*Address (Res)*  
N-37 2nd Floor,  
Panchsheel Park,  
New Delhi 110 017  
*Tele:* 011-41708366



*Email:* bajajhl@gmail.com

Former Chairman, Central Electricity Authority; Former Technical Member, Appellate Tribunal for Electricity  
Counc.2010-2012; 2013-15

**BAJAJ****Mr. Satinder Singh**

2006

1945

IX

BE (Mech)  
FNAE, MINS, MISHM

*Address (Res)*  
6A, Elegant Apartments,  
3, Sobani Road, Cuffe Parade,  
Colaba, Mumbai-400 005  
*Tele:* 022-22160600



*Email:* satinderbajaj@gmail.com

Former Chairman, Atomic Energy Regulatory Board, Govt. of India, Distinguished Scientist and Senior Executive Director (Safety), Nuclear Power Corpn of India Ltd., Raja Ramanna Fellow and Advisor, NPCIL/ DAE

**BALAJI****Prof. Chakravarthy**

2013

1968

III

Ph.D.  
FNAE, MISHMT  
*Address (Off)*  
Department of Mechanical  
Engineering, Indian Institute  
of Technology, Madras,  
Chennai-600 036  
*Tele:* 044-22574689  
*Fax:* 044-225764652  
*Email:* balaji@iitm.ac.in

**BALAKRISHNAN****Prof. Arcot Ramachandran**

2003

1950

IV

B.Tech.(Madras), M.ASc., Ph.D.(Waterloo)  
FNAE, FIE, MAIChe, MIIChe, MASME, MISHMT, MISTE

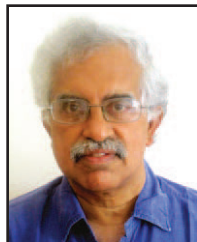
*Address (Res)*  
22, Rajarathnam Street, Kilpauk,  
Chennai-600 010  
*Tele:* 044-26411823



*Email:* arcotbalakrishnan@gmail.com

Formerly Professor and Head, Dept of Chemical Engg, IIT Madras

**BALAKRISHNAN** **Prof. Meenakshi** 2018  
 Professor, CSE Department 1956  
 and Deputy Director  
 (Strategy & Planning)  
 Ph.D.  
 FNAE, SMIEEE, SMACM  
*Address (Off)*  
 Indian Institute of Technology,  
 Delhi, Hauz Khas,  
 New Delhi-110 016  
*Tele* :011-26591285, 26591704  
*Fax*: 011-26581060  
*Email*: mbala@cse.iitd.ac.in  
 Former Associate Professor, IIT Delhi



**BALAKRISHNAN** **Prof. Narayanaswamy** 1993  
 Honorary Professor 1950  
 Ph.D.  
 FNAE, FNA, FNASc., FIETE, FASc, FTWAS  
*Address (Off)* *Address (Res)*  
 Supercomputer Education  
 and Research Centre,  
 Indian Institute of Science,  
 Bangalore-560 012  
*Tele*: 080-23600325  
*Fax*: 080-22933438  
*Email*: balki@serc.iisc.in  
 Formerly Chairman, Division of Information Sciences and Services, SERC, Indian Institute  
 of Science, Bangalore; Former Associate Director, Indian Institute of Science, Bangalore  
 Counc.2005-2006 and 2007-2009



**BALANI** **Prof. Kantesh** 2021  
 Professor & Head, 1978  
 Advanced Centre for  
 Materials Science  
 B. Tech., M.Tech. (IIT Madras), M.S. (University of Kentucky)  
 Ph.D.(Florida International University, USA)  
 FNAE, FIIM, FICS, FEMSI, FASM, FACSA, FMMMS  
*Address (Off)* *Address (Res)*  
 Professor, Faculty Building  
 Room 413, Department of  
 Materials Science and  
 Engineering, Indian Institute  
 of Technology Kanpur,  
 Kanpur -208016  
*Tele*: 512259-6194  
*Email*: kbalani@iitk.ac.in, kbalani@yahoo.com  
 House 478, Type IV Qtrs,  
 IIT Kanpur  
 Kalyanpur, Kanpur, India,  
 Uttar Pradesh- 208016  
*Tele*: (0512) 2598711



**BALARAMAMOORTHY**     **Mr. Kambhampati**     2013  
1933     VIII

B.Sc., DIISc.

FNAE, Hon.FISNDT, FIIM, MINS

*Address (Res)*

Plot 15, Atomic Energy Employees  
Cooperative Housing Society,  
Anupuram, ECIL Post,  
Hyderabad-500062  
Tele: 040-27123862



Email: kbr33@hotmail.com, kbaramamoorthy@gmail.com

Formerly Chairman/Chief Executive, Nuclear Fuel Complex, Hyderabad

**BALASUBRAHMANIAN**     **Mr. AYALUR KRISHNAN**     2021  
1961     IX

B. Tech (Mechanical)

FNAE, MINS

*Address (Res)*

Flat No. 902, Giriraj Oscar,  
Sector 20, Koparkhairane  
Navi Mumbai-400709,  
Maharashtra, India  
Tele: 8291090456



Email: ayalurbala@gmail.com

Former Director (Technical), Nuclear Power Corporation of India Limited, Mumbai

**BALASUBRAMANIAM**     **Prof. Krishnan**     2012  
1962     III

Professor & Head

Centre for NDE

B.E., M.S., Ph.D.

FNAE, FISNT, MASME, MIMA, MASNT, MASA,  
MSAMPE, MUIA

*Address (Off)*

MEMH/MDS 301,  
Department of Mechanical  
Engineering, Indian Institute  
of Technology Madras,  
Chennai - 600036

Tele: 044-22574662

Email: balas@iitm.ac.in

*Address (Res)*

B-2, Lake View Road,  
IIT Madras Campus,  
Chennai - 600036

Tele: 044-22576662



**BALASUBRAMANIAM**

Former Head, Design &  
Manufacturing Section  
M.Tech, Ph.D  
FNAE

*Address (Off)*

Bhabha Atomic Research  
Centre, Trombay,  
Mumbai-400085

*Tele:* 022-25591747

*Fax:* 022-5505309

*Email:* cwsbalu@barc.gov.in, revathibalu2003@gmail.com

Head, Design & Manufacturing Section

**Dr. Rajappa**

1961

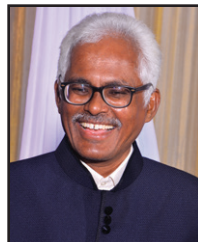
2020

III

*Address (Res)*

Old No:8, New No:4,  
Cart Track Road, T.Nagar,  
Chennai-600017  
Tamil Nadu, Chennai, India, 600017

*Tele:* 044-28142384

**BANDYOPADHYAY**

Senior Advisor, Transaction  
Advisory Services,  
Ernst & Young LLP,  
New Delhi; Senior Advisor,  
International Institute of Energy  
Conservation, New Delhi.  
M.Sc.(Physics), Ph.D.  
FNAE, FISLE, FIE

**Dr. Bibek**

1953

2019

IX

*Address (Res)*

L-10, (2nd Floor), Kalkaji,  
New Delhi-110019  
*Tele:* 011-41831202

*Email:* bbibek12@gmail.com

Former Visiting Professor, Indian Institute of Engineering Science & Technology, Shibpur;  
Distinguished Visiting Professor, National Institute of Technology, Arunachal Pradesh;  
Director, Solar Energy Centre and Advisor, Ministry of New & Renewable Energy, Govt. of  
India

**BANDYOPADHYAY**

Former Institute Chair  
Professor  
Ph.D.  
FNAE, FIETE, MIEEE, MSSSI

**Prof. Bijnan**

1956

2007

V

*Address (Off)*

Room No.208, IDP in  
Systems and Control  
Engineering,  
Systems and Control Building  
Indian Institute of Technology,  
Bombay, Powai,  
Mumbai-400 076

*Address (Res)*



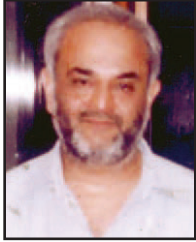

B-186, Ananta Building  
IIT Bombay Campus,  
Powai Mumbai-400076

*Tele:* 022-25767889, 25724424

*Fax:* 022-25720057, 25723480

*Email:* bijnan@sc.iitb.ac.in; bijnan@ee.iitb.ac.in



- |  |  |                                 |   |
|--|--|---------------------------------|---|
| <p><b>BANDYOPADHYAY</b><br/>           Director<br/>           Ph.D.<br/>           FNAE, FNASc., SMIEEE, SMCSI<br/> <i>Address (Off)</i><br/>           Indian Statistical Institute,<br/>           203, BT Road,<br/>           Kolkata - 700108<br/> <i>Tele:</i> 033-25753304<br/> <i>Email:</i> director@isical.ac.in, sanghami@isical.ac.in</p>   | <p><b>Prof. Sanghamitra</b><br/>           1968<br/> <br/> <i>Address (Res)</i><br/>           6, Dingshai Para Road,<br/>           Bally, Howrah - 711201,<br/>           West Bengal<br/> <i>Tele:</i> 033-26467081</p> | <p>2012<br/>           II</p>   |    |
| <p><b>BANDYOPADHYAY</b><br/>           Professor<br/>           Ph.D.<br/>           FNAE, MACS, MSES, MIE<br/> <i>Address (Off)</i><br/>           Department of Energy<br/>           Science and Engineering,<br/>           Indian Institute of<br/>           Technology Bombay,<br/>           Powai, Mumbai-400076<br/> <i>Tele:</i> 022-25767894<br/> <i>Fax:</i> 022-27526875<br/> <i>Email:</i> santanub@iitb.ac.in</p>  | <p><b>Prof. Santanu</b><br/>           1970<br/> <br/> <i>Address (Res)</i><br/>           B-211, Aravali,<br/>           IIT Campus,<br/>           Powai, Mumbai-400076<br/> <br/> <i>Tele:</i> 022-25721325</p>         | <p>2015<br/>           IX</p>   |    |
| <p><b>BANERJEE</b><br/>           Professor<br/>           Ph.D.<br/>           FNAE, FASc., FNA, FNASc., MIIM, MMRSI, TMS(USA)<br/> <i>Address (Off)</i><br/>           Department of Materials<br/>           Engineering, Indian Institute<br/>           of Science,<br/>           Bangalore-560 012<br/> <i>Tele:</i> 080-22932558<br/> <i>Fax:</i> 080-23600472<br/> <i>Email:</i> dbanerjee@iisc.ac.in</p>   | <p><b>Dr. Dipankar</b><br/>           1952<br/> <br/> <i>Address (Res)</i><br/>           DQ6 IISc Campus<br/>           Bangalore, 560012<br/> <br/> <i>Tele:</i> 080-23605893</p>  | <p>2000<br/>           VIII</p> |   |
| <p><b>BANERJEE</b><br/>           Director<br/>           B.Tech, PhD<br/>           FNAE<br/> <i>Address (Off)</i><br/>           Indian Institute of Technology<br/>           Delhi, Hauz Khas,<br/>           New Delhi-110 016<br/> <i>Tele:</i> 011-26582020, 26591701<br/> <i>Fax:</i> 011-2658 2659<br/> <i>Email:</i> director@iitd.ac.in, rangan.banerjee@gmail.com<br/>           Former Forbes Marshall Chair Professor, Department of Energy Science and Engineering,<br/>           Indian Institute of Technology Bombay, Mumbai<br/>           Counc.2022-2024</p> | <p><b>Prof. Rangan</b><br/>           1964</p>   | <p>2017<br/>           IX</p>   |  |

**BANERJEE**

Consultant

Ph.D.

FNAE

*Address (Off)*Customer Satisfaction  
Evaluation Unit, CSIR,  
MERADO Campus,  
Pune-411 008*Tele:* 020-393104*Fax:* 020-393718*Email:* mtbaner@gmail.com**Dr. Shilowbhadra**

1939

*Address (Res)*H1 Riviresa, 287/3,  
Baner Road,  
Pune-411 045*Tele:* 020-7290967, 7290731

1990

VIII

**BANERJEE**

BE, M.Tech, Ph.D.

FNAE, FNA, FASc, FTWAS, FIEEE, FNASc, FWASc

*Address (Off)*IISER Kolkata,  
Mohanpur Campus,  
Dist. Nadia- 741246 (WB)*Fax:* 033-25873020*Email:* soumitro.banerjee@gmail.com, soumitro@iiserkol.ac.in

Formerly Professor, Department of Electrical Engineering, Indian Institute of Technology, Kharagpur

**Prof. Soumitro**

1960

*Address (Res)*B7/170, Kalyani,  
Nadia-741 235,  
West Bengal  
*Tele:* 033-25025380

2004

V

**BARSHILIA**

Chief Scientist and Head

Ph.D.

FNAE, LMSESI, LMESI, LMMRSI, LMISAMPE, LMAeSI

*Address (Off)*Surface Engineering Division  
CSIR-National Aerospace  
Laboratories

HAL Airport Road, Kodihalli

Bangalore - 560 017

*Tele:* 080-2508 6248, 6247*Fax:* 080-2521 0113*Email:* harish@nal.res.in**Dr. Harish C**

1969

2020

VIII

**BASAK**

Senior Engineer

ME(CSE), Ph.D.

FNAE, SMIEEE(USA), MIUPRAI(India)

*Address (Off)*NetApp India Private Ltd,  
NetApp Bangalore Campus  
ITPL Main Road, Hoodi,  
Bengaluru – 560048  
Karnataka, India*Tele:* 080-41843199*Email:* basakjayanta@yahoo.com

Formerly Research Staff Member, IBM Research Lab, Delhi

**Dr. Jayanta**




1965

*Address (Res)*K-57, Diamond District,  
Old Airport Road, Kodihalli,  
Bangalore - 560 008*Tele:* 080-25089059

2006

II



- |  |   |                                 |   |
|--|---|---------------------------------|---|
| <p><b>BASU</b><br/>           Director<br/>           Ph.D.<br/>           FNAE, MIEEE, MACM<br/> <i>Address (Off)</i><br/>           National Institute of Technology<br/>           Durgapur,<br/>           Mahatma Gandhi Avenue,<br/>           Durgapur – 713 209<br/>           Dist–Paschim Bardhman, (WB)<br/> <i>Tele:</i> 0343-254 6397<br/> <i>Fax:</i> 0343-254 7375<br/> <i>Email:</i> director@admin.nitdgp.ac.in, anupambas@gmail.com<br/>           Former Head, Department of Computer Science &amp; Engineering, Indian Institute of Technology, Kharagpur</p>  | <p><b>Prof. Anupam</b><br/>           1957</p>    | <p>2001<br/>           II</p>   |    |
| <p><b>BASU</b><br/>           Professor, Materials<br/>           Research Centre,<br/>           Indian Institute of Science,<br/>           Bangalore, Bengaluru, India;<br/>           Honorary Professor,<br/>           University of Manchester, UK<br/>           Ph.D.,<br/>           FNAE, FACerS, CEng., UK, FAMS, FAIMBE, FNAsc.,<br/>           FASc.T, FBAO, FASc., FIMMM (UK)<br/> <i>Address (Off)</i><br/>           Materials Research Center,<br/>           Indian Institute of Science,<br/>           Bangalore –560012<br/> <br/> <i>Tele:</i> 080-2293 3256<br/> <i>Fax:</i> 080-23607316<br/> <i>Email:</i> bikram@iisc.ac.in<br/>           Former Adjunct Professor, Faculty of Dental Sciences, MS Ramaiah University of Applied Sciences, Bangalore; Honorary Distinguished Visiting Professor, Indian Institute of Engineering Science and Technology, Shibpur, Howrah</p> | <p><b>Prof. Bikramjit</b><br/>           1973</p> | <p>2015<br/>           VIII</p> |    |
| <p><b>BASU</b><br/> <br/>           Ph.D.<br/>           FNAE, FIIM<br/> <i>Address (Off)</i><br/>           2522, Clover Highlands,<br/>           NIBM Road, Kondhwa,<br/>           Pune 411 048<br/> <i>Tele:</i> 022-27403108<br/> <i>Fax:</i> 022-27403199<br/> <i>Email:</i> bbasu1707@gmail.com<br/>           Former Dy. Chief Technology Officer, Aditya Birla Science &amp; Technology Co. Pvt. Ltd., Panvel</p>  | <p><b>Dr. Biswajit</b><br/>           1959</p>    | <p>2018<br/>           VIII</p> |  |

**BASU**

M.Tech  
FNAE

**Mr. Dhruva**  
1942

2000  
II



*Address (Res)*  
1/1B, Prannath Pandit Street,  
Kolkata-700025  
*Tele:* 033-24544505

*Email:* dhruva\_basu@hotmail.com

Formerly Group Director, Electronics Group, VSSC, ISRO, Thiruvananthapuram, Kerala, and INAE Distinguished Professor, West Bengal University of Technology, Kolkata

**BASU**

B.E., M.Tech., Ph.D.)  
FNAE, FIE, MIASiMRT, MINS, MICI, MASET

**Dr. Prabir Chandra**  
1951

2006  
I



*Address (Res)*  
AH-4/91&96, Kendriya Vihar,  
Sector-11, Kharghar,  
Navi Mumbai-410 210  
*Tele:* 022-27749101

*Email:* pcbasu@gmail.com

Former Distinguished Scientist & Director, Civil & Structural Engineering Division, Atomic Energy Regulatory Board, Mumbai and Consultant, International Atomic Energy Commission

**BASU**

Chief Scientist  
Ph.D.

FNAE, FIE, FIIM, FASc.T, MNASI, LMMRSI

*Address (Off)*  
Fuel Cell & Battery Division,  
Central Glass & Ceramic  
Research Institute, 196,  
Raja S.C. Mullick Road,  
Kolkata-700 032

*Tele:* 033-24292951

*Fax:* 033-24730957

*Email:* rnbasu@cgcri.res.in, rajenbasu54@gmail.com

**Dr. Rajendra Nath**  
1960

2015  
VIII



*Address (Res)*  
South City Residence,  
Tower-3, Flat 21L,  
375 Prince Anwar Shah Road,  
Kolkata-700 068

*Tele:* 033-24999338

**BASU**

DRDO Chair Professor  
Ph.D.

FNAE, FASME, FIOP(UK), FFAST, Assoc.FAIAA

*Address (Off)*  
Department of Mechanical  
Engineering, Indian Institute  
of Science,

Bangalore-560 012

*Tele :*080-22933367

*Email:* saptarshibasukol@gmail.com; sbasu@iisc.ac.in

**Dr. Saptarshi**  
1976

2016  
III





**BASU**

Director, CSIR-Institute of Minerals & Materials Technology, Bhubaneswar and Professor of Chemical Engineering, Indian Institute of Technology Delhi  
B.Tech.; MS converted Ph.D.  
FNAE, FNASc, FRSC, FIE, FICS

*Address (Off)*

CSIR-Institute of Minerals & Materials Technology, Acharya Vihar, Bhubaneswar-751013

*Tele:* 0674 2379400, 2567456

*Fax:* 0674-2567160

*Email:* sbasu@immt.res.in, sbasu@iitd.ac.in

**Dr. Suddhasatwa**

1963

2020

IX

*Address (Res)*

73 Vikarmshila Apt., I.I.T. Delhi, Hauz Khas, New Delhi 110016

*Tele:* 011-26591035, 26591526

**BASU**

Professor Emeritus  
(Production Engg.)

Ph.D., D.Sc.(Engg)

FNAE, CEng., FIMech.E(Lond), FIE, FORSI

*Address (Off)*

Department of Production Engineering, College of Engineering (An autonomous Institute of Govt of Mah), Shivajinagar, Pune-411 005

*Tele:* 020-25541367, 25507283

*Fax:* 020-25507299

*Email:* basu\_sk@yahoo.com

Formerly Director, Central Mechanical Engineering Research Institute, Durgapur Counc.1991-95

**Prof. Sushil Kumar**

1931

1987

III

*Address (Res)*

9, 'BUENA MONTE', NCL Cooperative Housing Society, Pune-411 008

*Tele:* 020-25899462, 25898715

**BEHERA**

Chairman,

OPSL & ED, RICOR

B.Tech, M.Tech., Ph.D.

FNAE, FIIE

*Address (Off)*

Overseas Projects & Services Ltd, OPSL Tower, F/16, Chandaka Industrial Estate, Chandrasekharpur, Bhubaneswar-751024 Odisha

*Telefax:* 0674-2744108

*Email:* akbeherakt@gmail.com

Formerly Managing Director, OSIC, OAIC & APICOL; Former Chairman, Knowledge Trust; Bhubaneswar, Odisha

**Dr. Amiya Kumar**

1954

2006

X

*Address (Res)*

Plot No.1522, Mahanadi Vihar, Cuttack-753004 (Odisha)

*Tele:* 0671-2440121

**BEHERA**

Director

B.Sc.(Engg), M.Sc.(Engg), Ph.D., Post-doctoral Studies  
FNAE, SMIEEE*Address (Off)*

Director's office

Indian Institute of  
Technology Mandi,  
Kamand Campus,  
VPO Kamand,

Distt. Mandi - 175075

Himachal Pradesh

Tele: 1905-267001

Fax: 01905-267009

Email: director@iitmandi.ac.in, lbehera@iitk.ac.in

Formerly Professor, Department of Electrical Engineering, Indian Institute of Technology  
Kanpur**Prof. Laxmidhar**

1967

2017

V

**BELLARE**

Institute Chair Professor

B.Tech (IITB), Ph.D. (Univ Minn), Post Doc, MIT(USA)  
FNAE, FNASc., FNASI, MICh.E, MRSI, MISSST, EMSA*Address (Off)*

Department of

Chemical Engineering,

Indian Institute of

Technology, Bombay,

Powai, Mumbai-400 076

Tele: 022-25767207

Fax: 022-25726895, 25723480

Email: jb@iitb.ac.in

**Prof. Jayesh Ramesh**

1960

2007

IV

*Address (Res)*44-1318, Adarsh Nagar,  
Worli Colony,  
Mumbai-400 030**BERA**

Raja Ramanna Fellow

Ph.D., B.Tech(Hons)

FNAE, FIE, FINS, MIChE

*Address (Off)*

Rare Materials Project,

Bhabha Atomic Research

Centre, PO Yelwal,

Mysore-571 130, Karnataka

Tele: 0821-2406789

Fax: 0821-2403064

Email: tk\_bera@rediffmail.com

Formerly Distinguished Scientist and Director, Chemical Technology Group, BARC, Mumbai  
& Project Director, Rare Materials Project, BARC, Mysore**Dr. Tushar Kanti**

1954 IX

2002

*Address (Res)*708, 8th Main Road,  
1 Hebbal II Stage, PO Vijaynagar,  
Mysore-570 017, Karnataka

Tele: 0821-2302900



**BHADURI**

Homi Bhabha Chair  
Professor

B.Tech. (Honours), Ph.D.

FNAE, FIntrl.IW, FIIM, FIIW, LMMRSI, LMISNDT, LMINS

*Address (Off)*

Indira Gandhi Centre  
for Atomic Research,  
Kalpakkam-603 102

Tele: 044-27480240

Fax: 044-27480060

Email: bhaduri@igcar.gov.in, arunkbhaduri@gmail.com, dir@igcar.gov.in

Former Director, Indira Gandhi Centre for Atomic Research

**Dr. Arun Kumar**

1959

2007

VIII



*Address (Res)*

108/B, A.P.C. Road, India,  
West Bengal,  
Kolkata, 700009

Tele: 044-27482083

**BHANDARI**

Chairman

B.E.(Electrical)

FNAE, MIEEE, MISS, MSAEI

*Address (Off)*

Electrotherm (India) Ltd.,  
No.72, Palodia  
(Via Thaltej, Ahmedabad),  
Gujarat-382 115

Tele: 02717-660617

Fax: 02717-234861

Email: mb@electrotherm.com

**Mr. Mukesh**

1951

2008

V



*Address (Res)*

A/1, Skylark Apartment,  
Satellite Road,  
Ahmedabad-380 015

Tele: 079-26768844, 26768855

**BHANDARI**

Distinguished

Visiting Professor

IIT, Roorkee

Ph.D., DIC(London), C.Eng.

FICE(Lon), FNAE, FIE, FIGS

**Dr. Rajendra Kumar**

1941

1988

I



*Address (Res)*

302, Kamadgiri Tower, Kausambi,  
Ghaziabad-201010 (U.P.)

Tele: 0120-2773688

Email: rajmee@yahoo.com

Formerly Director, Central Building Research Institute, Roorkee & Programme Director, UN-HABITAT, Nairobi. Formerly Chairman, Centre for Disaster Mitigation and Management, VIT, Vellore

Hon. Treas.-1999-2000; F.Secy.-2001-2002 and 2003-2004

**BHANU SANKARA RAO**      **Prof. Kota**      2002

Pratt & Whitney Chair      1949      VIII

Professor

Ph.D.

FNAE, FASc, FASM, FIIM, FTASc, MIW, MMRSI

*Address (Off)*

School of Engineering  
Sciences and Technology,  
University of Hyderabad,  
Hyderabad-500 046

*Address (Res)*

Villa 9A, Lahari Homes,  
Opposite Lane to MLA House,  
Masjidbanda, Kondapur,  
Hyderabad-500 084

Email: kota.bhanu@gmail.com

Formerly Associate Director, Materials Development and Characterization Group and Head, Mechanical Metallurgy Division, Former Indira Gandhi Centre for Atomic Research, Kalpakkam; Formerly Professor and Dean School of Engineering Sciences and Technology, University of Hyderabad, Hyderabad; Formerly Ministry of Steel (Govt. of India) Chair Professor, Mahatma Gandhi Institute of Technology, Hyderabad.  
Chief Ed. of Pub.2019-2021



**BHARADWAJ**      **Prof. Amrutur**      2015

Professor      1969      VI

Ph.D.

FNAE

*Address (Off)*

Electrical Communication  
Engineering Department,  
Indian Institute of Science,  
Bangalore-560 012

Tele: 080-22933172

Email: amrutur@gmail.com



**BHARDWAJ**      **Mr. Shiv Abhilash**      2003

Chairman      1949      IX

B.Sc., M.Tech

FNAE, MINS

*Address (Off)*

Atomic Energy Regulatory  
Board, Niyamak Bhawan,  
Anushakti Nagar,  
Mumbai-400 094

*Address (Res)*

C-602, Balaji Tower,  
Plot 8, Sector 22, NERUL,  
Navi Mumbai-400706

Tele: 022-25562343

Tele: 022-27714025

Fax: 022-25562344

Email: sabhardwaj@gmail.com

Former Director (Technical), Nuclear Power Corporation of India Ltd., Mumbai



**BHASIN**                      **Mr. Vivek**                      2016  
Associate Director    1965                      IX

B.Sc. Engg.(Mech)

FNAE, LMINS, LMISHMT, MASME

*Address (Off)*

Nuclear Fuels Group (NFG),

RLG, Bhabha Atomic

Research Centre (BARC),

Trombay, Mumbai-400 085

Tele: 022-25593502, 25593636    Tele: 022-23615257

Fax: 022-25505339

Email: vivekb@barc.gov.in, vivekb.barc@gmail.com

*Address (Res)*

Flat No.18, Anand Bhavan,

Breach Candy,

Mumbai-400 026



**BHAT**                      **Dr. Balakrishna Talapady**                      2009  
1949                      VIII

B.Tech, ME, Ph.D.

FNAE

*Address (Res)*

Plot No.36, H.No.9-20,

Old Gayatrinagar, Jillelaguda,

Meerpet Post, Hyderabad -500097

Tele: 040-24090451

Email: tbalakrishnabhat@gmail.com

Former Scientist, Defence Metallurgical Research Laboratory, Hyderabad



**BHAT**                      **Prof. Bharathi**                      1987  
1941                      VI

Ph.D.

FNAE, Dist.FIETE, SMIEEE

*Address (Res)*

1125, 13th Cross, 4th Main

Vijayanagar, Stage-I

Mysore-570 017

Tele: 0821-4259623

Email: bbhat77@hotmail.com

Formerly Professor, Centre for Applied Research in Electronics, IIT Delhi  
Counc.-1987-89



**BHAT**                      **Prof. K Narayana**                      1999  
Visiting Professor    1943                      VI

Ph.D.

FNAE

*Address (Off)*

Electrical Communication

Engineering, Indian Institute

of Science,

Bangalore-560 012

Tele: 080-22933181 extn 206

Fax: 080-23600563

Email: knbhat@gmail.com

*Address (Res)*

“SRIVAS”, Flat No.102,

18/1, 19th Cross Road,

8th Main, Malleshwaram,

Bangalore-560 055

Tele: 080-23567180





**BHATNAGAR**

Professor

Ph.D., M.Tech., B.E.

FNAE, FNASc., FOSI, FIET (UK), FIETE, SMIEEE, MOSA

*Address (Off)*Department of Electrical  
Engineering, Indian Institute  
of Technology Delhi,  
Hauz Khas, New Delhi-110016

Tele: 011-26597251

Fax: 011-26596102

Email: manav@ee.iitd.ac.in, bhatnagar.manav.r@gmail.com

Former Associate Professor, Department of Electrical Engineering, IIT Delhi

**Prof. Manav**

1976

2017

VI

*Address (Res)*Flat No.21, Taxila Apartment,  
IIT Delhi Campus,  
Hauz Khas, New Delhi-110016

Tele: 011-26591586

**BHATNAGAR**

Ph.D.

FNAE, FNA, FASc., FIETE, SMIEEE, JC Bose National Fellow

*Address (Off)*Department of Computer  
Science and Automation,  
Indian Institute of Science,  
Bangalore-560 012

Tele: 080-22932987

Fax: 080-23602911

Email: shalabh@iisc.ac.in

**Prof. Shalabh**

1968

2013

II

*Address (Res)*Apt. DV-015, Vijnanpura,  
Indian Institute of Science Campus,  
Bangalore-560 094

Tele: 080-23518822

**BHATTACHARJEE**

Vice President,

Technology &amp; New

Materials Business

B.Tech., M.Tech., Ph.D.

FNAE, FIIM

*Address (Off)*Tata Steel Limited,  
Tata Centre,  
43 JL Nehru Road,  
Kolkata - 700 071,  
West Bengal

Tele: 033 22887365

Email: dr.dbhattacharjee@gmail.com ; debashish.bhattacharjee@tatasteel.com

Former Director Research, Development & Technology, Tata Steel Group, Tata Steel,  
Jamshedpur

Counc.2022-2024

**Dr. Debashish**

1964

2009

VIII

*Address (Res)*House No.G-24/1,  
Karunamoyee Housing Estate,  
Salt Lake,  
Kolkata - 700 091,  
West Bengal

**BHATTACHARYA**

Professor

Ph.D.

FNAE, MASCE

*Address (Off)*

Department of Civil

Engineering,

Indian Institute of

Technology Kharagpur,

Kharagpur-721 302

Tele: 03222-283422

Fax: 03222-282254

Email: baidurya@civil.iitkgp.ernet.in

**Prof. Baidurya**

1968

*Address (Res)*

B-41, IIT Campus,

Kharagpur-721 302

2016

I

**BHATTACHARYA**

Ph.D.

FNAE, FNASc., FIEEE

*Address (Off)*

Advanced Computing and

Microelectronics Unit,

Indian Statistical Institute,

203, Barrackpore Trunk

Road, Kolkata-700 108

Tele: 033-23753003

Fax: 033-25773035

Email: bhargab.bhatta@gmail.com,

**Prof. Bhargab B**

1953

*Address (Res)*

HB-12, Flat 4,

Salt Lake City,

Kolkata-700 106

Tele: 033-23585858

2000

II

**BHATTACHARYA**

INAE

Distinguished Professor

Ph.D

FNAE, FAEG, FGSI, MSEG (USA), MAGU, MEAGE,

*Address (Off)*

Satyendra Nath Bose

National Centre for

Basic Sciences,

Block-JD, Sector-III,

Salt Lake,

Kolkata-700 098

Tele: 033-23355705-8,

23353057/61, 23350312

Fax: 033-23353477

Email: bimalendu@bose.res.in, bimal\_ism@yahoo.com

Former Leader, Fourth Indian Scientific Antarctica Expedition; Formerly Director, Indian School of Mines, Dhanbad

**Prof. Bimalendu Bhusan**

1942

*Address (Res)*

H-30, Flat E/1, Moorchhana,

B-P Township,

Kolkata-700 094

Tele: 033-24627083

1993

VIII





**BHATTACHARYA**

Professor and Head

Ph.D.

FNAE, FIE, MMGMI, MISTE

*Address (Off)*

Department of Mining

Engineering,

Indian Institute of Technology,

Kharagpur-721 302

Tele: 03222-282282, 283702    Tele: 03222-278159, 283703

Fax: 03222-282282, 282700,  
255303

Email: jayantab@mining.iitkgp.ernet.in, jayantaism@gmail.com

**Prof. Jayanta**

1958

2008

VIII

*Address (Res)*

A/68, IIT Kharagpur Campus,

Kharagpur-721 302

**BHATTACHARYA**

Distinguished Technologist

Ph.D.(Computer Science and Automation)

FNAE, MIEEE, MACM

*Address (Off)*

Hewlett Packard Enterprise,

Sry 192 Whitefield Road,

Mahadevapura Post,

Bangalore- 560048

Email: suparna.bhattacharya@hpe.com, suparnaiisc@gmail.com

Former Senior Technical Staff Member, IBM India

**Dr. Suparna**

1971

2020

II

*Address (Res)*

#455 IIM Bangalore Campus,

Bannerghatta Road,

Bangalore-560076

**BHATTACHARYYA**

Chairman Board

of Governors,

NIT Durgapur

Ph.D.

FNAE, FNA

*Address (Off)*

C-184, Sector 26,

Noida, Uttar Pradesh

Pincode-201301

Fax: 0120-4311691

Email: abhattacharyya@yahoo.com, abhattacharyya11@gmail.com

Formerly Professor, CARE, IIT Delhi; Formerly Programme Director, VLSI Design, Department of Physics, Goa University; Formerly Emeritus Professor, Jaypee Institute of Information Technology, Noida

FF-1987; Counc.-1987-89

**Prof. Amalendu Bhushan**

1937

1987

VI

*Address (Res)*

C-184, Sector 26,

Noida, Uttar Pradesh

Pincode-201301

Tele: 0120-4282691



**BHATTACHARYYA**

Professor

B.Tech.(Mech.), M.Prod.E., Ph.D.(Engg)  
FNAE, FIE, MISTE, MIET(UK)*Address (Off)*Production Engineering  
Department,  
Jadavpur University,  
Kolkata-700 032

Tele: 033-24146676, 24146153

Fax: 033-24146676

Email: bb13@rediffmail.com, bbhattacharyya13@gmail.com

**Prof. Bijoy**

1958

2018

III

**BHATTACHARYYA**

Professor

Ph.D.

FNAE

*Address (Off)*Department of Computer  
Science and Automation,  
Indian Institute of Science (IISc.),  
Bangalore-560 012

Tele: 080-22932468

Fax: 080-23602911

Email: chiru@iisc.ac.in

**Prof. Chiranjib**

1970

2015

II

**BHATTACHARYYA**

Ph.D.

FNAE, MACM, MACL, MCSI

*Address (Off)*Department of Computer  
Science & Engineering,  
Indian Institute of Technology  
Bombay, Powai, Mumbai-400 076  
Tele: 022-25764729

Email: pushpakbh@gmail.com

Former Director, Indian Institute of Technology Patna

**Prof. Pushpak**

1962

2015

II

**BHATTACHARYYA**

Vice Chancellor

BME (Jadavpur), MS (Cincinnati), PhD (Texas A&amp;M)

FNAE, FNAS, FWAST

*Address (Off)*BITS Pilani, Vidya Vihar,  
Pilani- 333031  
Rajasthan

Tele: 9836833100, 9434020357

Email: souvik@pilani.bits-pilani.ac.in, souvik.iit@gmail.com

Formerly Deputy Director, IIT Kharagpur and Formerly Vice-Chancellor, Jadavpur University, Kolkata

**Prof. Souvik**

1959

2006

III



**BHATTACHARYYA**

Vice-Chancellor

B.E(Civil), M.Tech(Str), Ph.D(Engg)

FNAE, FNASc., FIASE, FIE(I)

*Address (Off)*

Vice-Chancellor, Shiv Nadar

University Chennai,

Rajiv Gandhi Salai (OMR),

Kalavakkam,

Tamil Nadu - 603 110;

Department of Civil

Engineering, Indian Institute

of Technology,

Kharagpur-721 302,

West Midnapur, West Bengal

Tele: 4435069780

Email: vc@snuchennai.edu.in,

Professor &amp; Deputy Director

**Prof. Sriman Kumar**

1957

B.E(Civil), M.Tech(Str), Ph.D(Engg)

*Address (Res)*

Block-A, SSN College campus

Rajiv Gandhi Salai (OMR)

Kalavakkam

Tamil Nadu - 603110

A-193, IIT Campus

Kharagpur – 721302

West Midnapur

West Bengal

Tele: 4435571200

bsri@civil.iitkgp.ac.in, srimankb@gmail.com

2005

I

**BHOJE**

BE, D.Sc.(Hon.)

FNAE, MINS

*Address (Res)*

301, Vardhman Terraces,

7th Lane, Rajarampuri,

Kolhapur-416 008 (Maharashtra)

Tele: 0231-2520508

Email: shivram.bhoje@gmail.com

Formerly Director, IGCAR, Kalpakkam; Formerly Chief Academic Adviser, Shivaji University, Kolhapur

Counc.-1999-2000 and 2001-2002

**Mr. Shivram Baburao**

1942

1995

IX

**BHOWMICK**

Managing Director

M.Tech.(Structures)

FNAE, MIABSE(Zurich), MIRC, MIPEI

*Address (Off)*

B&amp;S Engineering

Consultants Pvt. Ltd.,

315-316, Vishal Chambers,

P1, Sector 18,

Noida-201301 (UP)

Tele:0120-4570703

Email: bsec.ab@gmail.com

**Mr. Alok**

1959

2019

I



**BHOWMICK****Prof. Anil Kumar**  
19542002  
VIII

Ph.D.

FNAE, FNA, MRDACS(USA)

*Address (Off)*Department of Chemical  
& Biomolecular Engineering  
The University of Houston  
Houston, TX 77204-4004  
USA*Address (Res)*7490 Brompton Street,  
Apt # 361, Houston,  
Texas 77025 USA

Tele :001-713-743-9241

Tele: 001-832-798-7602

Email: akbhowmick@uh.edu; anilbhowmick@gmail.com

Former Professor of Eminence, Dean ( SRIC ) , Dean (PGS), Head (RTC), Indian Institute of  
Technology Kharagpur, Kharagpur West Bengal, India; Founding Director, Indian Institute  
of Technology, Patna**BHUJANGA RAO****Dr. Vepakomma**  
19512000  
III

ISRO Chair Professor

Ph.D.(Mech.Engg.), Ph.D. (Management)

FNAE, FASI, FIPE

*Address (Off)*Room No.F-22,  
National Institute of  
Advanced Studies(NIAS)  
I I Sc Campus,  
Bangalore 560012

Email: vepcrew1@rediffmail.com

Former Distinguished Scientist & Director General (Naval Systems & Materials), DRDO,  
(Min of Defence),New Delhi; Former Director,  
Naval Science & Technological Laboratory, Visakhapatnam  
Counc.2018-2020**BHUVANESWARI****Prof. Gurumoorthy**  
19652013  
V

Ph.D.

FNAE, LMISTE, International Member, International Member,  
NAE(USA)*Address (Off)*Department of EEE,  
Mahindra University,  
Hyderabad-500043,  
Telangana*Address (Res)*30-A, Asha officers colony,  
Ramakrishna Puram,  
Secunderabad -500056.,  
Telangana, Hyderabad

Fax: 011-26581606

Email: bhuvan@ee.iitd.ac.in ; bhuvan225@gmail.com

Counc.2021



**BIMALKHEDKAR**

Chief Mentor  
BE  
FNAE

*Address (Off)*

AutoTEC Systems Pvt Ltd  
#177/68, Billekahalli,  
Bannerghatta Road,  
Bengaluru 560076

Tele: 080-40327678

Email: sbimalkhedkar@gmail.com

Former Advisor, EWAS Technologies Pvt. Ltd., Bangalore

**Mr. Srinivas**

1945

*Address (Res)*

Radiant Silver Oak,  
Villa 16 Yellanhalli Main Road,  
Opp Echo Hyper Market,  
Akshaya Nagar  
Bengaluru, 560068

Tele: 9845475261

2001

VI

**BINDRA**

Consultant (Power & Energy)

M.Sc.(Hons) - Mech. Engg. Diploma in Russian language

FNAE, MASME, MISTA

**Mr. Gurvinder Jit Singh**

1951

*Address (Res)*

H-33/11 , UGF ,  
DLF City Phase 1 ,  
Gurgaon -122002 ,  
Haryana

Tele: 0124-2358836

2015

IX



Email: gsbindradlf@yahoo.com, Gsbindrabgr@gmail.com

Former Executive Director, BHEL; Former President-Project Engg. & Mgmt; BGR Energy

**BISWAL**

Chief Scientist and Head

Ph.D.(Chemical Engg.)

FNAE, FIE, LMIChE, LMIIME, LMIIM, LMSGAT

*Address (Off)*

Mineral Processing Department,  
CSIR-Institute of Minerals  
and Materials Technology  
(Formerly RRL),

Acharya Vihar,

Near Apollo Hospital,

Bhubaneswar-751 013, Odisha

Tele: 0674-2379455

Fax: 0674-2567637

Email: skbiswal@immt.res.in

**Dr. Surendra Kumar**

1961

2015

VIII



**BISWAS**

Chairman,  
AERB SCCI  
B.Tech(Hons)  
FNAE, MINS

**Mr. Bibhuranjan Basudeb** 2006  
1948 VI

Address (Res)  
506 Simran Heights  
W T Patil Marg,  
Govandi East  
PO: TF Deonar  
Mumbai 400088  
Tele: 9819871048



Email: bbbiswas@yahoo.com, bi@live.in

Formerly Distinguished Scientist and Head, Reactor Control Division, Bhabha Atomic Research Centre, Mumbai; Formerly DAE RR Fellow

**BISWAS**

Professor and J C Bose  
National Fellow,  
IIT Kanpur  
Ph.D.

FNAE, FNA, FASc, FNAsc, FASME, FIE

*Address (Off)*

Department of Mechanical  
Engineering,  
Indian Institute of  
Technology Kanpur  
Kanpur - 208016

Tele :0512-2597656

Fax: 0512-2587408

Email: gtm@iitk.ac.in

Formerly Dean (Academic Research), IIT Kanpur; and Formerly Director, CSIR-Central Mechanical Engineering Research, Institute (CMERI), Durgapur; Formerly Director Indian Institute of Technology Guwahati

**Prof. Gautam**

1956

2004  
III

*Address (Res)*

House – 642, IIT Campus,  
Indian Institute of Technology  
Kanpur,  
Kanpur – 208016

Tele: 0512-259-8564

**BOHRA**

Advisor 1944 IX

BE (Hons)

FNAE, MINS

Address (Off)

The Tata Power Company Ltd.,  
Corporate Centre 'A',  
34, Sant Tuka Ram Road,  
Carnac Bunder,  
Mumbai-400 009

Tele: 022-67171407

Fax: 022-67171950

Email: sabohra@yahoo.co.in, sabohra@gmail.com

Formerly Senior Executive Director (Technical), Nuclear Power Corporation of India Ltd., Mumbai

**Mr. Sharaf Ali**

2004

Address (Res)

Plot No.15 Gali D,  
Kharol Colony, Fatehpura,  
Udaipur - 313 001  
Rajsthan

Tele: 81071 02904



**BONGIRWAR**

Advisor, L&amp;T, IDPL

B.Tech(Hons), M.Tech.

FNAE, MIRC, MACI, MIIBE, MICI

*Address (Off)*

ECC, L&amp;T Ltd.,

Landmark A, Ground Floor,

Suren Road, Off Andheri,

Kurla Road, Andheri (E),

Mumbai-400 093

Tele: 022-61817687

Fax: 022-56965345

Email: plbongirwar@rediffmail.com, bongirwar.p@gmail.com

Formerly Additional Metropolitan Commissioner (Engineering), MMRDA, Mumbai

**Mr. Pramod Laxman**

1945

2005

I

*Address (Res)*

B/1102, Pataliputra,

C.H.S. Four Bungalow Signal,

Andheri (W),

Mumbai-400 053

Tele: 022-26321010

**BORKAR**

Emeritus Fellow

Ph.D.

FNAE, FNA, FASc., FIEEE, FNASI, FIASc, FIETE, FTWAS FAMS,

MIMS, MINFORMS, MSIAM

*Address (Off)*

Department of Electrical

Engineering, Indian Institute

of Technology Bombay,

Powai, Mumbai-400 076

Tele: 022-25769405

Fax: 022-25723707

Email: borkar.vs@gmail.com

**Prof. Vivek Shripad**

1954

2004

V

*Address (Res)*

VFA-4, B18,

IIT Campus, Powai,

Mumbai-400076

Tele: 022-25764054

**BOSE**

Ph.D.

FNAE, MIIM

**Dr. Dipen Kumar**

1942

2002

VIII

*Address (Res)*

B-403, Nandkutir,

CHS Ltd., Plot 21,

Sector 3, Koperkhairane,

Navi Mumbai-400709

Tele: 022-27549432



Email: dipenkb@yahoo.co.in

Formerly Head, Uranium Extraction Division, BARC, Mumbai

**BRAHMACHARI**

JC Bose National Fellow,  
Academy Professor,  
Academy of Scientific  
and Innovative Research

B.Sc., M.Sc., Ph.D.

FNAE, FASc., FNA, FNASc., FBRSI

*Address (Off)*

CSIR-Institute of Genomics  
and Integrative Biology,  
Mathura Road,  
Sukhdev Vihar

New Delhi-110 020

Tele: 011-29879405

Email: [skb@igib.in](mailto:skb@igib.in)

Formerly Secretary, DSIR & Director-General, Council of Scientific & Industrial Research (CSIR), New Delhi

**Prof. Samir K**

1952

2010

IV



*Address (Res)*

14, Cavalry Lines,  
Delhi University,  
Delhi-110007

**CALLA**

Director

ME

FNAE, Dist.FIETE, FIE,FGAS, SMIEEE, MIMRESS, MATMA

*Address (Off)*

International Centre for  
Radio Science (ICRS),  
Plot No.1, Rano Ji Ka Baag,  
Khokharia Bera, Nayapura,  
Mandore, Jodhpur-342304  
(Rajasthan)

Tele: 0291-2571030, 2571390

Fax: 0291-2571390

Email: [opncalla@gmail.com](mailto:opncalla@gmail.com), [opncalla.s.os@gmail.com](mailto:opncalla.s.os@gmail.com)

**Mr. Om Prakash Narayan**

1935

1989

VI



*Address (Res)*

Plot No.2/3, Rano Ji Ka Bagh,  
Khokharia Bera, Nayapura,  
Mandore, Jodhpur-342304  
(Rajasthan)

Tele: 0291-2571003

**CHAKRABARTI**

Professor

Ph.D.

FNAE, FNA, FASc., SMIEEE, MACM

*Address (Off)*

Dept. of Computer Science  
and Engg. Jointly with Centre  
of Excellence in Artificial  
Intelligence, IIT Kharagpur,  
Kharagpur- 721302

Tele: 03222-283466

Fax: 03222-282000

Email: [ppchak@cse.iitkgp.ac.in](mailto:ppchak@cse.iitkgp.ac.in), [ppchak\\_99@yahoo.com](mailto:ppchak_99@yahoo.com)

Former Director, IIT Kharagpur and Dean (Sponsored Research & Industrial Consultancy), IIT Kharagpur

**Prof. Partha Pratim**

1962

2003

II



*Address (Res)*

Qtr. No.A-5, IIT Campus,  
Kharagpur-721 302

Tele: 03222-282003



**CHAKRABARTI**

Professor

B.E., M.E., Ph.D.

FNAE, SMIEEE (USA), FIE(I)

*Address (Off)*Department of Electrical  
Engineering,

Kanpur-208016

Tele: 512-2596598 T

Email: saikat.chakrabarti@gmail.com, saikatc@iitk.ac.in

**Prof. Saikat**

1975

*Address (Res)*

House No. 458

IIT Kanpur,

Kanpur, 208016

ele: 5122598847

2021

V

**CHAKRABARTI**

Associate Professor

B.Tech, MS, Ph.D.

FNAE

*Address (Off)*SIA 204, Computer  
Science Department,Indian Institute of  
Technology Bombay,

Powai, Mumbai-400076

Tele: 022-25767716

Email: soumen@cse.iitb.ac.in

**Dr. Soumen**

1969

*Address (Res)*

B-158, Ananta,

Indian Institute of  
Technology Bombay,

Powai, Mumbai-400076

2014

II

**CHAKRABORTY**

Ph.D.

FNAE, FIE, FIETE, SMIEEE

*Address (Off)*Department of Electrical  
Engineering,Indian Institute of Technology,  
Kharagpur - 721 302 (WB)

Tele: 03222-283096

Fax: 03222-282262

Email: cc@ee.iitkgp.ac.in

**Dr. Chandan**

1965

*Address (Res)*

B-100, IIT Campus,

IIT Kharagpur-721 302 (WB)

2010

V



**CHAKRABORTY**

Professor

Ph.D.

FNAE, FTAS, FAeSI, FIE, LMAstr, LMCI, LMASI,  
LMAstrSI, LMHEMSI, LMSSWR*Address (Off)*Department of Aerospace  
Engineering,Director, Centre of  
Propulsion TechnologyIndian Institute of  
Technology, Bombay  
Powai, Mumbai-400076

Tele :040-24583310

Fax: 022-25764948

Email: debasis\_copt@iitb.ac.in, debasis\_copt@aero.iitb.ac.in, debasis.cfd@gmail.com;  
debasis\_drld@yahoo.co.inFormer Outstanding Scientist (Scientist H), Former Associate Director (Technology) and  
Director (Design), DRDL, Hyderabad**Dr. Debasis**

1959

2014

VII

*Address (Res)*Qtr. No. C-126,  
(Building No. CTR-19)  
IIT, Bombay Campus,  
Powai. Mumbai-400076

Tele: 022-25768109, 09440909964, 9372745783

**CHAKRABORTY**

B.E., M.Tech, Ph.D.

FNAE, FIETE, SMIEEE, MIET

*Address (Off)*Department of E&ECE,  
Indian Institute of Technology,  
Kharagpur-721 302 (WB)

Tele: 03222-283512

Fax: 03222-255303

Email: mrityun@ece.iitkgp.ac.in

**Prof. Mrityunjoy**

1961

2010

VI

*Address (Res)*

Tele: 03222-283513

**CHAKRABORTY**

Professor (HAG)

of Civil Engineering

B.E., M. Tech, PhD

FNAE, FAST, FCVS, FIE, MASCE, MISET, MISTE, MFOSET

*Address (Off)*Department of Civil  
Engineering, Indian Institute  
of Engineering Scienceand Technology Shibpur  
(Formerly Bengal Engineering& Science University Shibpur),  
Howrah-711 103 (West Bengal)

Tele: 033-26684561 (Extn 673)

Fax: 033-26682916

Email: schak@civil.iests.ac.in, schakbec@gmail.com

Formerly Professor and Head, Department of Civil Engineering, Bengal Engineering and  
Science University, Howrah**Prof. Subrata**

1969

2011

I

*Address (Res)*Flat No 7B Tower 2,  
Merlin Waterfront,  
40 Swarnamoyee Road  
Howrah - 711103  
West Bengal

Tele: 033-35508782

**CHAKRABORTY**

Founder &amp; Chairman

BE - Civil

FNAE, FIE, FICE, FISr.E.(UK), FIIBE

*Address (Off)*

Bengal FAITH Health

Care Pvt. Ltd.

C-22, Lakewood City,

Sector-39, Surajkund Road,

Faridabad – 121009, Haryana

Tele : 0129-4895859

Email: sudhangsu.chakraborty@gmail.com, sschakraborty.education@gmail.com

Formerly Co-Founder & Chairman-cum-Managing Director, Consulting Engineering Services (India) Private Ltd.; Chairman-Emeritus, Consulting Engineering Services (India) Private Ltd.; Co-Founder & Chairman, Second Vivekanand Bridge Tollway Company Pvt. Ltd.

Hon. Treas. 2005-2006

**Prof. Sudhangsu Sekhar**

1937

1998

I

**CHAKRABORTY**

Professor

B.E., M.E., Ph.D

FNAE, FNA, FASc, FNASc, FASME, FAPS, FRSC

*Address (Off)*

Department of Mechanical Engineering, Indian Institute of Technology, Kharagpur-721 302

Tele: 03222-282990

Email: suman@mech.iitkgp.ac.in

**Prof. Suman**

1973

2009

III

*Address (Res)*

28/9, Station Road, P.O. Dhakuria, Kolkata-700 031

Tele: +91-9831402939

**CHAKRABORTY**

Bajaj Group

Chair Professor

B.Tech (Hons), M.S.(Elect. Engg), Ph.D.(Elect. Engg)

FNAE, MACM, MIARCS

*Address (Off)*

Department of Computer Science & Engineering, Indian Institute of Technology Bombay, Powai, Mumbai-400 076

Tele: 022-25767721

Fax: 022-25720290

Email: supratik@cse.iitb.ac.in

**Prof. Supratik**

1971

2019

II

*Address (Res)*

Flat No.B-280, 13th Floor, Nilgiri Building (Building No.24), IIT Bombay, Powai, Mumbai-400076

Tele: 022-25768721

**CHAKRAVORTI**

Professor

Ph.D.

FNAE, FNASc, FAST, FIETE, FIE

*Address (Off)*

Electrical Engineering

Department

Jadavpur University

Kolkata 700032,

West Bengal

Tele :033-24146948

Email: s\_chakrav@yahoo.com, schakravorti.electrical@jadavpuruniversity.in

Former Director, National Institute of Technology Calicut

Counc.2017-2019, 2020 and V.P. 2021, 2022-2024

**Prof. Sivaji**

1962

2008

V

*Address (Res)*

Flat No. 1E, Swati Kunj,

3/1A Paddapukur Road

Kolkata 700 092

Tele: 033-29661020

**CHANDA**

Ph.D.

FNAE, FNASc., FIETE, FIAPR

*Address (Off)*

Electronics and

Communication Sciences

Unit, Indian Statistical

Institute, 203, B.T. Road,

Kolkata-700 018

Tele: 033-25752909/2915

Fax: 033-25776037/6035

Email: chanda@isical.ac.in

**Prof. Bhabatosh**

1957

2005

II

*Address (Res)*

125,

Madhusudan Mukherjee Road,

Khardah-700 116

Tele: 033-25633097

**CHANDA**

Ph.D.

FNAE, MICh.E., MIPI

*Address (Off)*

Department of Chemical

Engineering,

Indian Institute of Science,

Bangalore-560 012

Tele: 080-23600411 Extn.2341

Fax: 080-23600683, 23600085

Email: chanda@iisc.ac.in

**Prof. Manas**

1940

1992

IV

*Address (Res)*

920/921, 7th Cross,

Gokul (HMT Layout),

Bangalore-560 054

Tele: 080-23366626

**CHANDE** **Mr. Shridhar Krishnarao** 2015  
 Member of the International Nuclear Safety Group, IAEA, Vienna  
 Advisor, Atomic Energy Regulatory Board, Mumbai  
 B.E.(Hons) in Mech Engg.  
 FNAE, FIE, MINEA, LMISNDT, LMINS  
*Address (Off)* *Address (Res)*  
 B-802, Galaxy Nebula,  
 Plot No..220-221,  
 Sector 10, Kharghar,  
 Navi Mumbai-410 210  
 Tele: 09819832100



Email: chandes@gmail.com

Formerly Distinguished Scientist and Vice-Chairman, Atomic Energy Regulatory Board, India; Former Raja Ramanna Fellow, Department of Atomic Energy

**CHANDER** **Dr. Avinash** 2007  
 President 1950 VII  
 B.Tech, M.Tech, Ph.D.  
 FNAE, Hon. FIETE, FSSI, FIE, FAPAS  
*Address (Off)* *Address (Res)*  
 Sensors Research Society,  
 RCI, 95, Palm Meadows  
 Hyderabad – 500 069 GundlaPochampalli Road  
 Kompally,  
 Hyderabad – 500 014



Email: chander\_avinash06@yahoo.co.in, chander\_avinash1950@yahoo.com

Formerly Scientific Adviser to Raksha Mantri, Secretary Defence R&D and Director General, DRDO; Formerly Distinguished Scientist and DS & CC R&D (MSS), DRDO and formerly Director, Advanced Systems Laboratory, DRDO, Ministry of Defence, Hyderabad

**CHANDER** **Mr. Venkataraman** 2006  
 1946 VI  
 B.Sc.(Hons), B.Tech(Hons), M.Sc.(Engg)  
 FNAE, FIETE, FIE, FUSI, MOSI  
*Address (Res)*  
 7C, NJK Sivam, Layam Road,  
 Ernakulam Head PO,  
 Kochi-682 011  
 Tele: 0484-2362615



Email: chander.cochin@gmail.com

Formerly Director/Scientist 'H', Naval Physical & Oceanographic Lab (NPOL), Cochin

**CHANDRA**

Ph.D.

FNAE, FNASc., FIE, Dist.FIETE

**Prof. Ashoka**

1942

1987

X

*Address (Res)*

A-15, Sector 15,

Noida - 201 301 (UP)

Tele: 0120-4321642, 9810394959

Email: prof\_ashoka\_chandra@yahoo.com

Formerly Special Secretary Ministry of HRD, Govt. of India, New Delhi;

FF-1987; Counc.-1987-89

**CHANDRA**

Ph.D.

FNAE, FIETE, FMSI

**Dr. Kailash**

1934

1990

VI

*Address (Res)*

E-46, Greenwoods City,

Sector 46,

Gurgaon - 122 001, Haryana

Tele: 0124-2582165

Email: kchandra100@hotmail.com

Formerly Director Grade Scientist, NPL, New Delhi and Chief Technical Adviser, UNIDO

Metrology Project, Riyadh

**CHANDRAKER**

Consultant, BHEL 1949

Ph.D.

FNAE

**Dr. Amrit Lal**

III

2000

*Address (Res)*

A-8/2, BHEL Colony,

Opp. Loyola Deg College,

Old Alwal, Hyderabad-500 010

Tele: 040-27861345

Email: alc357@gmail.com

Formerly Executive Director, Bharat Heavy Electricals Ltd., Hyderabad

**CHANDRAN**

Professor

Ph.D.

FNAE, MNASc.

*Address (Off)*

Department of Computer

Science and Automation,

Indian Institute of Science,

Bangalore-560 012

Tele: 080-22932907 Tele: 080-23464083

Fax: 080-23602911

Email: sunil.cl@gmail.com

**Prof. L SUNIL**

1974

2015

II





*Address (Res)*

KRVH 1, IISc. Gym Khana Campus,

Indian Institute of Science,

Bangalore-560 012



- |  |   |      |   |
|--|---|------|---|
| <b>CHANDRASEKARAN</b>  | <b>Mr. Natarajan</b>                        | 2013 |    |
| Chairman   | 1963  | X    |   |
| MCA<br>FNAE, SMIEEEE, International Member, NAE(USA)   |   |      |   |
| <i>Address (Off)</i><br>Tata Sons Ltd., Bombay House,<br>Homi Mody Street, Fort,<br>Mumbai 400001  |   |      |   |
| Email: chairman@tata.com<br>Former Chief Executive Officer & Managing Director, Tata Consultancy Services, Mumbai  |   |      |   |
| <b>CHANDRASEKHAR</b>   | <b>Dr. Muthugadahalli<br/>Gangarudraiah</b> | 1999 |    |
| Director   | 1949  | VII  |   |
| Ph.D.<br>FNAE, FNASc., Dist. FIETE, FIGU, MIAA, MIISL  |   |      |   |
| <i>Address (Off)</i><br>Devas Multimedia Pvt. Ltd,<br>1011, Arlington Blvd,<br>Apartment # 706, Arlington,<br>VA-22209-2233, USA   |   |      |   |
| <i>Address (Res)</i><br>No.284/C, 40th Cross,<br>9-A Main, 5th Block Jayanagar,<br>Bangalore-560 041   |   |      |   |
| Tele: 001703-593-4986  | Tele: 080-26638300                          |      |   |
| Fax: 080-26338300  |   |      |   |
| Email: drchandramg@yahoo.co.in<br>Formerly Scientific Secretary, ISRO, Formerly Executive Vice-President, World Space Corporation, Washington, USA & Vice-President, GeoEye, USA   |   |      |   |
| <b>CHANDRASHEKHARA</b>   | <b>Prof. Kurthakoti</b>                     | 1993 |   |
| Ph.D., D.Sc.<br>FNAE, FIE  |   |      |   |
| <i>Address (Res)</i><br>29/1, 18th Cross,<br>Malleswaram, Bangalore-560 055<br>Tele: 080-23348894  |   |      |   |
| Email: kurthakoti@yahoo.co.in<br>Emeritus Fellow (AICTE), IISc., Bangalore   |   |      |   |
| <b>CHANDRU</b>   | <b>Prof. Vijay</b>                          | 2010 |  |
| INAE Distinguished Professor   | 1953  | II   |   |
| B.E., M.S., Ph.D.<br>FNAE, FASc., SMIEEEE<br><i>Address (Off)</i><br>Centre for BioSystems<br>Science and Engineering<br>(BSSE), Indian Institute<br>of Science, Bangalore-560 012 |   |      |   |
| <i>Address (Res)</i><br>591, III Main Road,<br>Sadashivanagar,<br>Bengaluru-560 080  |   |      |   |
| Fax: 080-236104254   |   |      |   |
| Email: chandru@strandls.com, chandru@alum.mit.edu<br>Former Chairman and CEO, Strand Life Sciences, Bangalore  |   |      |   |

**CHATTERJEE**

Professor

Ph.D.(Engg), MEE

FNAE, FIE, FIETE, SMIEEE(USA)

*Address (Off)*

Electrical Engineering

Department,

Jadavpur University,

Kolkata-700 032

Tele: 033-24146949

Email: cha\_ami@yahoo.co.in

**Prof. Amitava**

1968

*Address (Res)*

14D/2D, Naktala Road,

Kolkata,

West Bengal-700 047

Tele: 033-24115531

2018

V

**CHATTERJEE**

Ph.D.

FNAE

*Address (Off)*

Mechanical Engineering

Department,

Indian Institute of

Technology Kanpur

Kanpur-208016

**Prof. Anindya**

1966

*Address (Res)*

Tele: 0512-2598173

2012

III



Email: anindya100@gmail.com

**CHATTERJEE**

Director

Ph.D.

FNAE, FIICer., MNICer.E (USA), MACS, MIM

*Address (Off)*

Dr. Fixit Institute of

Structural Protection and

Rehabilitation,

c/o Pidilite Industries Ltd.,

Ramkrishna Mandir Road,

MIDC, Andheri (E),

Mumbai-400 059

**Dr. Anjan Kumar**

1941

*Address (Res)*

N4F, Singhi Park Apartments,

48/3, Gariahat Road,

Kolkata-700 019

2000

VIII



Tele: 033-32936788

Email: anjan.k.chatterjee@gmail.com

Formerly Wholetime Director, The Associated Cement Cos. Ltd., Mumbai; Formerly Chief Executive, The Chatterjee Group, Calcutta; Former Managing Director, Conmat Technologies Pvt. Ltd., Kolkata



**CHATTERJEE****Mr. Samir Kumar**  
19351992  
IXBE  
FNAEAddress (Res)  
A4-11, Broadway Avenue,  
Mira Road (E), Mumbai-401 107  
Tele: 022-23556944

Fax: 022-28117011, 28122451

Email: samirchatterjee2013@yahoo.com

Former Member, Atomic Energy Commission and MD, Nuclear Power Corporation of India Ltd.

**CHATTERJEE****Mr. Utpal Kumar**  
19381995  
VIBE  
FNAE, FIETE, MOSA, MILA, MINS, MIVSAddress (Res)  
3-D, Panchavadi Cooperative  
Housing Society, Plot 18, Sector-14,  
Vashi, Navi Mumbai-400 703  
Tele: 022-27662632

Email: utpalkumarc@gmail.com

Formerly Head, L&amp;PTD, BARC, Mumbai

**CHATTOPADHYAY****Prof. Asit Baran**  
19432004  
IIIPh.D.  
FNAE, FIE  
*Address (Off)*Department of Mechanical  
Engineering, Academy of Technology,  
G.T.Road (Adisaptagram)  
Aedconagar, Hooghly-712121  
West Bengal, India

Email: abcme@mech.iitkgp.ernet.in, abchattopadhyay@aot.edu.in

**CHATTOPADHYAY****Dr. Jayanta**  
19662017  
IIIOutstanding Scientist and  
Head, Reactor Safety Division,  
BARC; Professor, HBNI  
BE (Mechanical), M.Tech.(Design), Ph.D.  
FNAE*Address (Off)*Hall 7, Bhabha Atomic  
Research Centre,  
Mumbai-400 085

Tele: 022-25593775

Fax: 022-25505151

Email: jchatt@barc.gov.in, jc66in@gmail.com

*Address (Res)*11B, Kanchanjunga,  
Anushaktinagar,  
Mumbai-400 094

Tele: 022-25587090



**CHATTOPADHYAY**

Honorary Professor

Ph.D.

FNAE, FNA, FASc.,FNASc., FIIM, MMRSI

*Address (Off)*

Department of Materials

Engineering and

Interdisciplinary Centre for

Energy Research (ICER),

Indian Institute of Science,

Bangalore-560012

Tele: 080-22933521/2262

Fax: 080-23601991

Email: kamanio@iisc.ac.in, kamanioc@gmail.com

Professor and Chairman, Department of Materials Engineering, Indian Institute of Science, Bangalore

**Prof. Kamanio**

1950

2001

VIII

*Address (Res)*

410/411, Block 3,

RMV Cluster, II Stage,

10/11 A, L.T. Halli,

Devinagar Extn.

Bangalore-560 054

Tele: 09845949940

**CHATTORAJ**

Director

Ph.D. (Metallurgical Engg)

FNAE, LMIIM, LMIE

*Address (Off)*

CSIR-National Metallurgical

Laboratory, Burma Mines,

Jamshedpur-831 007

Tele: 0657-2345226

Fax: 0657-2345213

Email: ichatt@nmlindia.org

**Dr. Indranil**

1962

2017

VIII

*Address (Res)*

2981, Vijaya Gardens,

Baridih, Jamshedpur-831 007

Tele: 0657-2343508

**CHATURVEDI**

Ph.D.

FNAE, FIE, FIWRA, MIAHR

**Prof. Mahesh Chandra**

1925

1991

I

*Address (Res)*

323, Nilgiri Apartments,

Alakhnanda,

New Delhi-110 019

Tele: 011-26039756

Email: mcchaturvedi1@gmail.com

Formerly Professor IIT Delhi, Visiting Professor, Harvard University

**CHATURVEDI**

Vice-President

B.Sc., DMIT(Auto)

FNAE, FWREC(UK), FWEF(UK), FIE, FIMA, FIIPE

*Address (Off)*

World Environment  
Foundation, M 56A,  
Greater Kailash,  
Part-II (Market),  
New Delhi-110048

**Mr. Pradeep**

1946

*Address (Res)*

C-4, Gulmohar Park,  
New Delhi-110049

2014

IX



Tele: 011-26519536

Email: pradeepc08@gmail.com

Formerly Regional Representative, Centre for Application of Solar Energy (UNIDO sponsored).

Counc.2016-18

**CHATURVEDI**

Director

B.Tech, Ph.D.

FNAE, LMPSSI

*Address (Off)*

Institute for Plasma  
Research, Bhat,  
Gandhinagar-382428,  
Gujarat

Tele: 079-23962050, 23969040

Fax: 079-23969016, 23962277

Email: shashank@ipr.res.in, shashankvizag@gmail.com,

Former Head, Computational Analysis Division, Bhabha Atomic Research Centre, Visakhapatnam

**Dr. Shashank**

1962

*Address (Res)*

D-604, Gala Swing,  
Near Sobo Centre, South Bopal,  
Ahmedabad-380 058, Gujarat

2013

IX

**CHAUDHARI**

Distinguished

Professor Emeritus

Ph.D.

FNAI (USA), FNAE, FNA, FASc, FMASc, AMIICHe

*Address (Off)*

Room 112 B,  
Center for Environmentally  
Beneficial Catalysis,  
Chemical & Petroleum  
Engineering Department  
University of Kansas  
1501 Wakarusa Drive  
Lawrence, KS 66047, USA

Tele: +1-785-864-1634

Fax: +1-785-864-6051

Email: rvc1948@ku.edu

**Dr. Raghunath Vitthal**

1948

*Address (Res)*

6109, Palisades Drive,  
Lawrence, Kansas State,  
USA

1993

IV



Tele: +1-785-218-0036

**CHAUDHURI**

Pro Vice-Chancellor  
Ph.D.

FNAE, FNA, FNASc, FIETE, FTWAS, FIAPR, LFIEEE

*Address (Off)*

Techno India University,  
EM 4, Sector V,  
Salt Lake, Kolkata-700 091

**Prof. Bidyut Baran**

1950

*Address (Res)*

87/29, AK Mukherjee Road,  
Kolkata-700 090

Tele: 033-9038329290

Email: bidyutbaranchaudhuri@gmail.com, bbcisical@gmail.com

Former Head, Computer Vision & Pattern Recognition Unit, Indian Statistical Institute, Kolkata; Ex INAE Distinguished Professor and J. C. Bose Fellow, Indian Statistical Institute; Kolkata

1996

II

**CHAUDHURI**

Director

Ph.D.

FNAE, FNASc., SMIEEE, FIETE

*Address (Off)*

Indian Institute of  
Technology Bombay,  
Powai, Mumbai-400076

Tele :022-25723488, 25767001

Fax: 022-2573546

Email: director@iitb.ac.in

Counc.2021-2023

**Prof. Subhasis**

1963

*Address (Res)*

C-68, IIT Bombay,  
Powai, Mumbai400 076

Tele: 022-25720351

2003

II

**CHAUDHURI**

Vikram Sarabhai &

PM Awardee,

Visiting Professor

IIT Mumbai,

Distinguished Professor

Bharat Inst of Engineering

& Technology

(BIET, JNTUH),

Hyderabad

B.E., M.Tech, Ph.D.

FNAE, SMIEEE, MAeSI, MSSSI

**Dr. Subir Kumar**

1949

*Address (Res)*

Flat No 301,  
Dakhsini Harmony Appt,  
Sri Sai Nagar, PO Kanchanbagh  
Hyderabad 500058, India

Tele: 040-29701949


2009


VII




Email: subirchaudhuri94@hotmail.com

Former Director, Research Centre Imarat, Hyderabad

<p><b>CHAUDHURY</b>          Director          Ph.D.          FNAE, FNASc., MIETE, MIUPRAI  <i>Address (Off)</i>          Indian Institute of          Technology Jodhpur,          Nagaur Road,          Karwad -342037 (Rajasthan)          Tele: 0291-2801200          Email: director@iitj.ac.in, schaudhury@gmail.com          Former Director, CSIR-Central Electronics Engineering Research Institute (CEERI), Pilani;          Former Professor, Department of Electrical Engineering, Indian Institute of Technology Delhi</p>	<p><b>Prof. Santanu</b>          1961</p>	<p>2006          II</p>	
---	---	-----------------------------	---

<p><b>CHAUHAN</b>          Ph.D          FNAE, FAAS, FNAAS, FIE, FISAE, MIWRS  <i>Address (Off)</i>          C/o Col Y S Bhadoriya          D M 30/4 , Dronacharya Top,          Neori Hills, Airport Road          Bhopal-462038 (MP)          Tele: 9450020929          Email: hchauhan368@gmail.com          Formerly Dean, College of Technology, GB Pant University of Agriculture &amp; Technology          and AICTE Emeritus Fellow</p>	<p><b>Dr. Harendra Singh</b>          1936</p>	<p>1988          I</p>	
---	--	----------------------------	---

<p><b>CHAUHAN</b>          Professor          B.E., M.Tech., Ph.D.          FNAE, FIEEE  <i>Address (Off)</i>          Dept. of Electrical          Engineering,          Indian Institute of          Technology Kanpur,          Kanpur,- 208016, U.P.          Tele: 0512-6797244          Email: yogeshsingh.chauhan@gmail.com, chauhan@iitk.ac.in</p>	<p><b>Prof. Yogesh Singh</b>          1978</p>	<p>2021          VI</p>	
--	--	-----------------------------	---

**CHAWLA** **Dr. Amrik Singh** 1993  
 Consultant, Water Resources 1935 I  
 Ph.D.  
 FNAE, FIWRS, FIE, FIAH  
*Address (Off)* *Address (Res)*  
 202B, Magnolias, DLF, 202B, Magnolias, DLF,  
 Golf Course Road, Golf Course Road,  
 Sector 42, Sector 42, Gurgaon  
 Gurgaon Haryana Haryana  
 Email: chawla\_as@rediffmail.com, chawla.chawla4435@gmail.com  
 Formerly Professor, WRDTC, University of Roorkee (now IIT Roorkee)



**CHELLAPANDI** **Dr. Perumal** 2001  
 BE, ME, Ph.D. 1956 III  
 FNAE, MIAMIRT, MASME, LMINS, MIIM  
*Address (Res)*  
 4/21, U.V. Swaminathan Street,  
 New Perungalathur,  
 Srinivasa Nagar Post,  
 Chennai-400 063  
 Tele: 044-22742720



Email: perumalchellapandi@gmail.com  
 Formerly Head, Mechanics and Hydraulics Division, IGCAR, Kalpakkam; and Formerly Distinguished Scientist, Reactor Design Group, Indira Gandhi Centre for Atomic Research, Kalpakkam

**CHENULU** **Mr. Vedula China Venkata** 1990  
 B.E., D.I.C.(Lond) 1931 V  
 FNAE  
*Address (Res)*  
 700 Marshall Road,  
 S.W. Vienna VA 22180, USA  
 Tele: +1-703-938-4863



Email: vcvchenulu@gmail.com  
 Formerly Member (Electrical), Railway Board

**CHETAL** **Mr. Subhash Chander** 2001  
 B.Sc.(Engg) 1949 IX  
 FNAE, FIE, MINS, MISNT, MIIM, MIIW  
*Address (Res)*  
 F38, Mansarover Garden  
 New Delhi 110015



Email: chetalsc@gmail.com  
 Formerly Distinguished Scientist and Director, Indira Gandhi Centre for Atomic Research, Kalpakkam

**CHETTY**

B.E., M.Tech  
FNAE, FASI

**Mr. Shyam**  
1954

2008  
VII

Address (Res)  
'SHARAN' 3009/1-6,  
II Main, 17th Cross,  
Banashankar II Stage,  
Bangalore – 560 070  
Tele: 080-26763205



Email: shysur54@gmail.com

Former Director, CSIR-NAL Project Director (LCA-CLAW), CSIR-National Aerospace Laboratories, Bangalore

**CHHABRA**

Chevron Corporation Chair  
Ph.D.

FNAE, FNASc., FASc., FNA, MICh.E

Address (Off)

Department of Chemical  
Engineering,  
Indian Institute of  
Technology Ropar,  
angal Road,  
Rupnagar-140001 (Punjab)

Tele: 01881-242212

Email: chhabra@iitk.ac.in, rpc1953@yahoo.com

**Prof. Rajendra Prasad**  
1953

2001  
IV

Address (Res)

House #3, Transit Campus-I,  
Indian Institute of Technology  
Ropar, Nangal Road,  
Rupnagar-140001 (Punjab)

Tele: 9839741317

**CHIDAMBARAM**

DAE-

Homi Bhabha Professor

Ph.D., DSc.

FNAE, FNA, FASc., FTWAS, Hon.FIETE

Address (Off)

6th Floor,  
Central Complex,  
Bhabha Atomic Research  
Centre, Trombay,  
Mumbai-400 085

Tele: 022-25505305

Fax: 022-25505132

Email: rajachid@gov.in

Formerly Director, BARC; Formerly Chairman, Atomic Energy Commission and Secretary, Department of Atomic Energy and Formerly Principal Scientific Adviser to the Govt. of India & DAE Homi Bhabha Professor, Bhabha Atomic Research Centre, Mumbai

**Dr. Rajagopala**  
1936

1998  
IX

Address (Res)

405/406, Appollo,  
Raheja Acropolis-I,  
Mahalakshmi Temple Road,  
Mumbai-400 088

Tele: 022-25561315



**CHITALE**

BE, D.Sc.(h.c.), D.Litt (h.c.)  
FNAE, FIE, MIAH

Fax: 0240-2334154

Email: chitalema@gmail.com

Formerly Secretary, Ministry of Water Resources and Secretary-General, Honoraire, ICID;  
Chairman, GWP-SASTAC, Aurangabad  
Counc.-1989-91; V.P.-1991-93

**Dr. Madhav Atmaram**

1934

Address (Res)  
Vedanta Grihakul,  
New Shreyanagar,  
Aurangabad-431005  
Tele: 0240-2338939

1987

I

**CHOCKALINGAM**

Associate Professor  
Ph.D.  
FNAE,FIETE, SMIEEE

Address (Off)

Department of ECE,  
Indian Institute of Science,  
Bangalore-560 012  
Tele: 080-22933156  
Fax: 080-23600563  
Email: achockal@iisc.ac.in

**Dr. Ananthanarayanan**

1962

Address (Res)

29,AECS 2nd Stage Layout,  
2nd Main, Nagasettihalli,  
Bangalore - 560 004  
Tele: 080-23516637

2007

VI

**CHOKSHI**

Ph.D.  
FNAE, FNA, FNASc., MMRSI, MIIM

Address (Off)

Department of Metallurgy,  
Indian Institute of Science,  
Bangalore-560 012  
Tele: 080-22932684  
Fax: 080-23601480  
Email: achokshi@iisc.ac.in

**Prof. Atul H**

1958

Address (Res)

NE1, Indian Institute of Science,  
Bangalore-560 012  
Tele: 080-23602466

2005

VIII





**CHOPRA**

Chancellor

Ph.D.

FNAE, FIICChE

Address (Off)

University of Petroleum &amp;

Energy Studies,

Energy Acres, P.O. Bidhauri,

Via Prem Nagar,

Dehradun-248 007

Tele: 0135-2102690-91, 2694201/203

Fax: 0135-2694204

Email: chancellor@upes.ac.in, sj\_chopra@hotmail.com

Formerly Director (Technical), Engineers India Ltd., New Delhi

**Dr. Sawaran Jit**

1941

2006

IV

**CHOWDHURY**

Principal Consultant

Ph.D

FNAE, FIE, MACI, MICI

Address (Off)

Sardip Consulting Engineers,

CJ-147, 1st Floor, Sector 11,

Salt Lake, Kolkata-700091

Tele: 033-40046330 Tele: 022-25211193

Email: subrato.chowdhury195@gmail.com, suchow1954@yahoo.co.in

Former Head R&amp;D, Cement Business, Aditya Birla Group, Ultratech Cement Ltd, Mumbai

**Dr. Subrata**

1954

2011

I

Address (Res)

Sky Rise Apartment, Wing-A,

Flat No.601, Central Avenue Road,

Chembur, Mumbai-400 071

**CHRISTOPHER**

Professor

BE (Hons), MTech, Ph.D.

FNAE, FIETE, MIEEE, MSEE

Address (Off)

ESB 335A, Department of

Electrical Engineering,

Indian Institute of

Technology, Madras,

Adyar, Chennai 600036,

Tamil Nadu

Tele : 044 22574488,

9599663320

Email: chris@ee.iitm.ac.in; sargunraj.christopher@gmail.com

Former Secretary, Department of Defence R&amp;D, MoD, GoI and Chairman, DRDO; Former Project Director, Super Vision 2000 Radar, LRDE, Bangalore; Programme Director AEW&amp;C and Director Centre for Air Borne Systems, (CABS); Ministry of Defence, Govt. of India, Bangalore

**Dr. Sargunraj**

1955

2005

VI

Address (Res)

D-107, Casa Ansal Apartment

No.18, Bannarghatta Main Road,

NS Palya, JP Nagar, IIIrd Stage

Bangalore-560 076,

Karnataka

Tele: 080-26592323



**CLEETUS**

Emeritus Scientist

Ph.D.

FNAE, FIETE, MIEEE, MSEE

*Address (Off)*

Aeronautical Development

Agency (ADA),

PB No.1718, Vimanpura Post,

Bangalore-560 017

Tele: 080-65717369

Fax: 080-28372648

Email: georgecleetus@gmail.com

Formerly Director, Electronics &amp; Radar Development Establishment, DRDO, Bangalore

**Dr. George M**

1943

*Address (Res)*

#74, LRDE Layout

(Karthik Nagar), Ring Road

Marathahalli

Bangalore-560 037

Tele: 080-28531687

1996

VI

**DAS**

AICTE-INAE

Distinguished

Visiting Professor B.Sc.(Hons), B.Tech., Ph.D.

FNAE, FIAHE, FAScT, FBRSI, FIE(I), MIChE

*Address (Res)*

Block 9, Flat 3D,

Srijan Midlands

83, Jessore Road,

Madhyamgram

Kolkata 700132,

West Bengal

Tele: 033-40014961

Email: ddas.iitkgp@gmail.com

**Prof. Debabrata**

1953

2015

IX

**DAS**

Ph.D.

FNAE, MISHMT

*Address (Off)*

Department of Mechanical

Engineering, Indian Institute

of Technology,

Kharagpur-721 302 (W.B.)

Tele: 03222-282916

Fax: 03222-255239

Email: pkd@mech.iitkgp.ernet.in

**Prof. Prasanta Kumar**

1962

2009

III

*Address (Res)*

B-44, IIT Campus,

IIT Kharagpur-721 302

(W.B.)

Tele: 03222-282917, 278045



**DAS**

Institute Professor

Ph.D.

FNAE, MISHMT

*Address (Off)*Indian Institute of  
Technology, Madras,  
Chennai-600036**Prof. Sarit Kumar**

1963

*Address (Res)*A/38, Narumukhai Apartment,  
Brindavan Nagar Extn.,  
2nd Street, Adambakkam,  
Chennai-600 088

Tele: 044-22530602

2007

III



Email: skdas@iitm.ac.in, sarit\_das@hotmail.com

Formerly Director, IIT Ropar, Professor, Heat Transfer &amp; Thermal Power Lab., Department of Mechanical Engineering, Indian Institute of Technology, Madras, Chennai.

**DASGUPTA**

Ph.D

FNAE, MIEEE, MISSS

*Address (Off)*Department of Electrical  
Engineering,  
Indian Institute of  
Technology Madras,  
Chennai - 600036

Tele: 044-22574416

Fax: 044-22574402

Email: adg@ee.iitm.ac.in

**Prof Amitava**

1959

*Address (Res)*C-1-2, Delhi Avenue,  
IIT Madras,  
Chennai - 600 036

Tele: 044-22576416

2011

VI

**DASGUPTA**

Professor

Ph.D.

FNAE, MIEEE, MISSS

*Address (Off)*Department of Electrical  
Engineering,  
Indian Institute of  
Technology Madras,  
Chennai-600036

Tele: 044-22574422

Email: nand@ee.iitm.ac.in

**Prof. Nandita**

1962

2019

VI



**DASGUPTA****Prof. Pallab**

2013

1967

II

B.Tech, M.Tech, Ph.D.  
FNAE, SMIEEEE, MACM

*Address (Off)*

Department of Computer  
Science & Engineering,  
Indian Institute of Technology Kharagpur,  
Kharagpur-721 302

Tele: 03222-283470

Fax: 03222-278985

Email: pallab@cse.iitkgp.ernet.in

**DASGUPTA****Prof. Sunando**

2009

1962

IV

Ph.D

FNAE, LMIIChe

*Address (Off)*

Department of Chemical  
Engineering,  
Indian Institute

of Technology,  
Kharagpur-721 302

Tele: 03222-283922

Fax: 03222-282250, 277190

Email: sunando@che.iitkgp.ac.in, sunando.dasgupta@gmail.com

Formerly Associate Dean (Sponsored Research & Industrial Consultancy), IIT Kharagpur

*Address (Res)*

B-199, IIT Campus,  
IIT Kharagpur-721 302

Tele: 03222-283923, 277780

**DASH****Prof. Pradipta Kishore**

1998

1941

V

Director

Ph.D., D.Sc.(Engg.)

FNAE, LSMIEEEE, FIE, MCSI

*Address (Off)*

Research & Consultancy,  
Siksha 'O'

Anusandhan University,  
Khandagiri Square,  
Bhubaneswar-751 030

(Orissa)

Tele: 0674-2350635

Fax: 0674-2350642

Email: dashpk13@yahoo.com, pkdash.india@gmail.com

Formerly Professor and Chairman, Centre for Intelligent Systems, Dept. of Electrical Engg., REC, Rourkela; Formerly Director, Silicon Institute of Technology, Bhubaneswar; Formerly Director, College of Engineering, Bhubaneswar; Formerly Vice-Chancellor, Siksha 'O' Anusandhan University and Dean (PG & Research), Institute of Technical Education & Research, Bhubaneswar

Counc.2011-13

*Address (Res)*

Plot No. 298, Kalarahanga,  
Nandan Vihar, KIIT Post,  
Bhubaneswar-751 024  
(Orissa)

Tele: 0674-2725336



**DATE**

Rahul Bajaj  
Chair Professor &  
Emeritus Fellow  
Ph.D.  
FNAE, Life Mem.ISHMT  
*Address (Off)*  
Room No.102,  
Department of Mechanical  
Engineering,  
Indian Institute of Technology,  
Powai, Mumbai-400076  
Tele :022-25767517  
Fax: 022-25726875  
Email: awdate@me.iitb.ac.in

**Prof. Anil Waman**

1945  
  
*Address (Res)*  
B-123, Staff Quarters  
(Bldg 21), IIT Bombay,  
Mumbai-400076

Tele: 022-25722262

2000

III

**DATTA**

Professor  
B.M.E, M.M.E., Ph.D.  
FNAE, FWBASc., Fellow, FISEES, MIE, LMCI, MISHMT, MIAE  
*Address (Off)*  
Department of Power  
Engineering LB-8,  
Jadavpur University  
Sector - III, Salt Lake,  
Kolkata-700098,  
West Bengal  
Tele: 033-23355813  
Fax: 033-23357254  
Email: amitava.datta@jadavpuruniversity.in  
Former Reader, Jadavpur University

**Prof. Amitava**

1966  
  
*Address (Res)*  
AB – 239, Sector I,  
Salt Lake,  
Kolkata 700064

Tele: 9831189810

2020

III

**DATTA**

Ph.D., D.Sc.  
FNAE, FIE, FIETE, SMIEEE, C.Eng.

**Prof. Kanti Bhushan**

1939  
  
*Address (Res)*  
11/1 B, Rishi Bankim Chandra Road,  
Stephen's Enclave, Flat No. 4A,  
Dum Dum Cantonment,  
Kolkata - 700028

1999

V



Email: attadbitnak@yahoo.com

Formerly Professor, Department of Electrical Engineering, Indian Institute of Technology, Kharagpur

**DATTA****Prof. Tushar Kanti**

1997

1944

I

Ph.D.

FNAE

*Address (Off)*

Department of Civil

Engineering,

Indian Institute of Technology,

New Delhi-110 016

Tele:011-26591184

Fax: 011-26862037

Email: tushar\_k\_datta@yahoo.com

*Address (Res)*

J-1, IIT Campus, Hauz Khas,

New Delhi-110 016

Tele: 011-26855960, 26591820

**DATTAGURU****Prof. Bhagavatula**

1992

1942

VII

Professor, Jain University,

Bengaluru

Ph.D.

FNAE, FIE, FAeSI, Founder Fellow InSIS, MMRSI,

Honorary Member ISAMPE, MISNDT, MISTAM, MISSS

*Address (Off)*

Department of Aerospace

Engineering,

International Institute of

Aerospace Engineering &amp;

Management (IIAEM)

45th km NH - 209,

Jakkasandra Post,

Kanakapura Road, Jain ,

Karnataka 562112

Tele :9900128420

Email: datgurb@gmail.com, datgur@yahoo.co.in

Formerly Chairman and Head, Dept. of Aerospace Engg., IISc., Bangalore

*Address (Res)*

79, 3rd Main Road,

Amarjyothi Layout, Cholanagar,

RT Nagar (P.O),

Bangalore - 560 032

Tele: 080-23337696

**DAYARATNAM****Prof. Pasala**

1994

1932

I

Ph.D.

FNAE, FIE

*Address (Res)*

1-5-21/7, Road No.8/23,

Habsiguda,

Hyderabad-500 007

Tele: 040-27172738

Email: dayaratnam@gmail.com

Formerly Vice-Chancellor, Jawahar Lal Nehru Technological University, Hyderabad

Counc.-1997-98



**DE**

Senior Vice-President and  
Chief Technology Officer  
B.Tech, M.E., Ph.D

FNAE, FIE, FIETE, SMIEEE, MISCA

*Address (Off)*

Samsung India, #2870,  
Phoenix Building,  
Bagmane Constellation  
Business Park,

Outer Ring Road,  
Doddanekundi Circle,  
Marathahalli Post,  
Bangalore-560 037

Fax: 080-41819000

Email: aloknath.de@gmail.com ; alokde\_telecom@yahoo.co.in ; alokde@accsindia.org

Former Country Manager, ST-Ericsson India

**Dr. Alok Nath**

1962

2009

VI

*Address (Res)*

Villa 54, Prestige Summerfields,  
Gear School Road,  
Bhoganahalli, India, Karnataka,  
Bangalore, 560103

**DE**

B.Tech., M.Tech., Ph.D.

FNAE, MICh.E., MISTAM

*Address (Off)*

Department of Chemical  
Engineering,  
Indian Institute of Technology,  
Kharagpur - 721302

Tele: 03222-283926

Fax: 03222-255303

Email: sde@che.iitkgp.ernet.in

**Prof. Sirshendu**

1967

2012

IV

**DE**

Professor

Ph.D.

FNAE, FIETE, SMIEEE

*Address (Off)*

Department of Electrical  
Engineering,  
Indian Institute of  
Technology Delhi,  
Hauz Khas,  
New Delhi-110 016

Tele: 011-26591042

Fax: 011-26581606

Email: swadesd@ee.iitd.ac.in, swadesd@gmail.com

**Dr. Swades Kumar**

1969

2016

VI

*Address (Res)*

31, North Avenue,  
Indian Institute of Technology  
Delhi, Hauz Khas,  
New Delhi-110 016

Tele: 011-26597242

**DEB**

Professor

Ph.D., ME, BE

FNAE, MSAEI, MASME

*Address (Off)*

CPDM,

Indian Institute of Science,

Bangalore- 560012

Tele: 080-22932922

Fax: 080-2360 6478

Email: adeb@iisc.ac.in, caedsafe@gmail.com

Formerly Chairman, CPDM, IISc., Bangalore

**Prof. Anindya**

1962

*Address (Res)*

E24, New Housing Colony ,

IISc Campus,

Bangalore- 560012

Tele: 080-23608160

2015

III

**DEB**

General Manager (SED)

B.Tech (Hons), M.Tech

FNAE, FIE, MIIM, MAeSI

*Address (Off)*

Sukhoi Engine Division,

HAL, Koraput, Sunabeda,

Dist.-Koraput-763 002,

Odisha

Tele: 06853-220200

Fax: 06853-222292

Email: debashis2207@gmail.com

Formerly Chief of Projects (SED), HAL, Koraput, Odisha

**Mr. Debashis**

1960

*Address (Res)*

Type-VI-1, HAL Township,

Sunabeda, Dist.-Koraput-763 002,

Odisha

2015

VIII

**DEB**

Ph.D.

FNAE, FISGEC, SMIEEE, MASME

*Address (Off)*

428 S. Shaw Lane,

2120 Engineering Building

Michigan State University

East Lansing, MI 48864, USA

Tele:(+1) 517 432 2144

Email: deb@iitk.ac.in, kdeb@egr.msu.edu

**Prof. Kalyanmoy**

1962

2005

III





**DEEKSHATULU****Dr. Bulusu Lakshmana** 1990  
1936 VI

B.Sc., ME, Ph.D.

FNAE, FNA, FNASc., FASc., FTWAS, FCI, DFIETE, FIE, FIGU,  
FAEG, FAPASc., FIEEE, FAeSI, DFASI, MAARS(Japan)

Address (Res)

10-3-123/3/1, East Maredpally,

Secunderabad-500026

Tele: 040-27732423



Email: deekshatulu@hotmail.com ; deekshatulu@gmail.com

Former Distinguished Scientist & Director NRSA, ISRO, Hyderabad; Director  
CSSTEAP(UN), Dehradun

Counc.-1991-95 and 2007-2009

**DEO****Prof. Makarand** 2013  
**Chintamani**  
1954 I

BE, M.Tech, Ph.D.

FNAE, MISH, MASCE

Address (Off)

Department of Civil

Engineering,

Indian Institute of

Technology Bombay,

Powai, Mumbai-400076

Fax: 022-25767302

Email: mcdeo@civil.iitb.ac.in ; drmcdeo@gmail.com

Address (Res)

102 Devgiri,

I I T Bombay Staff Society,

Behind Shetty School,

Powai, India, Maharashtra,

Mumbai, 400076

Tele: 022-25722377

**DEODHAR****Mr. Prabhakar Shankar** 2002  
1934 VI

Chairman

BE

FNAE, FIEEE, FIE, Hon.FBES, Dist.FIETE

Address (Off)

Aplab Limited,

Aplab House, A/5,

Wagle Estate,

Thane-400604

Tele: 022-25823117

Fax: 022-25823137, 25831128

Email: psdeodhar@aplab.com

Formerly Chairman, Electronics Commission, Govt. of India; Formerly Advisor (Electronics)  
to the P.M.

Address (Res)

Landmark,

175, Carter Road,

Bandra West

Mumbai 400050

Tele: 022-26494847



**DESAI**

Professor Emeritus  
Ph.D.

FNAE, FNA, SMIEEE, FIETE

*Address (Off)*

C609, IIT Hyderabad,  
Kandi, Sangareddy,  
Hyderabad-502285

Tele: 9491040801, 7989072405

Email: ubdesai@gmail.com

Formerly Dean (Students Affair), IIT Bombay; Formerly Professor, Department of Electrical Engineering, Indian Institute of Technology, Mumbai; Former Director, Indian Institute of Technology Hyderabad  
Counc.2018-2020

**Prof. Uday Babulal**

1951

2001

VI

*Address (Res)*

J2001, Aparna Sarovar,  
Nallgandala, Serilingampally,  
Hyderabad 500019

Tele: 9491040801, 7989072405

**DESHMUKH**

Professor

B.Tech, M.Tech, Ph.D.

FNAE, FIETI, LMASI, LMIIIIE, LMISME

*Address (Off)*

Room Block III/257,  
Mechanical Engineering  
Department, Indian Institute  
of Technology Delhi,

Hauz Khas, New Delhi-110016

Tele: 11-26591056

Fax: 011-26582053

Email: deshmkh.sg@gmail.com

Former Director, ABV-Indian Institute of Information Technology & Management, Gwalior

**Prof. Sanjeev Govindrao**

1959

2019

III

*Address (Res)*

4, Vikamshila Apartments,  
IIT Campus, Hauz Khas,  
New Delhi-110016

Tele: 011-26591608

**DESHPANDE**

Ind Consultant ;

Adj Visiting Faculty

B.Tech (Chem. Engg), M.Tech (Management & Systems)

FNAE, FIChE, Member, Academic Council , UPES ;

Trustee, Lovraj Kumar Memorial Trust;

INAE Distinguished Visiting Professor; (ChEng)

*Address (Off)*

A-75 , IFS Apartments  
Mayur Vihar Phase-1  
Delhi - 110091

Tele: 011-22753410

Email: andeshpande@yahoo.com; ajayndeshpande@gmail.com

Ex CMD and Director (Technical) - EIL, New Delhi

**Mr. Ajay Narayan**

1958

2016

IV

*Address (Res)*



**DESHPANDE**

Senior Research Associate  
Ph.D.

FNAE, FASc., FMASc.

*Address (Off)*

Engg. Mech. Unit,  
JNCASR, Jakkur,  
Bangalore-560 064  
Tele:080-22082816  
Fax: 080-22082766

Email: desh1942@gmail.com; smd@jncasr.ac.in

Formerly Professor, CFD Centre, Department of Aerospace Engineering, Indian Institute of Science, Bangalore

**Prof. Suresh Madhusudan**

1942

1995

VII

*Address (Res)*

ALANDI, # 524,  
5th Cross, Tatanagar,  
Bangalore-560 092  
Tele: 080-23412029



**DESHPANDE**

Chairman & CEO

BE, MSEE

FNAE, SMIEEE

*Address (Off)*

Encore Software Ltd.,  
407, 7th Cross, 1st Floor  
Domlur 1st Stage  
Bangalore – 560 071  
Tele: 080-41110347  
Email: vinay@ncoretech.com

**Mr. Vinay Laxman**

1947

2000

VI



**DEY**

Head

Ph.D.

FNAE, MIIM, MMRSI

*Address (Off)*

Materials Science Division,  
Bhabha Atomic Research  
Centre, Trombay,  
Mumbai-400 085  
Tele :022-25595062  
Fax: 022-25505151  
Email: gkdey@barc.gov.in

**Dr. Gautam Kumar**

1957

2008

VIII

*Address (Res)*

32, Shantiniketan,  
Anushaktinagar,  
Mumbai-400 094

Tele: 022-25502075



**DEY**

Principal Consultant  
M.Sc., M.Tech., Ph.D.  
FNAE, MACM

*Address (Off)*

IIT Delhi Research Park,  
Hauz Khas,  
New Delhi 110016  
Tele: 9650537766

Email: lipikadey@gmail.com, lipika.dey@tcs.com

Formerly Senior Consultant; Assistant Professor, Dept. of Mathematics, IIT Delhi

**Dr. Lipika**

1965

*Address (Res)*

17 Vikramshila,  
IIT Delhi Campus,  
Hauz Khas, New Delhi 110016  
Tele: 9891334239

2021

II

**DEY**

Professor

Ph.D.

FNAE, FNA, FASc, FNASc, JC Bose

Fellow

*Address (Off)*

Department of Civil  
Engineering,  
Indian Institute of Technology,  
Kharagpur 721 302 (WB)  
Tele: 03222-283418

Fax: 03222-282254

Email: sdey@iitkgp.ac.in

**Prof. Subhasish**

1958

*Address (Res)*

Quarters A-159 (G+7 type),  
IITCampus,  
Indian Institute of Technology  
Kharagpur - 721 302 (WB)  
Tele: 03222-283419

2008

I

**DHANDE**

Ph.D.

FNAE, FMASc, FIE, MASME.

**Dr. Sanjay Govind**

1948

*Address (Res)*

58 Buena Monte'  
Panchavati, Pashan  
Pune 411 008

Email: sgd@iitk.ac.in, sgdhandel@gmail.com

Formerly Director, Indian Institute of Technology, Kanpur  
Counc.2003-2004 and 2005-2006

2002

III

**DHARAP**

BE

FNAE, FIE, MIABSE, MIRC

**Mr. Vijay Madhusudan**

1937

*Address (Res)*

A-8, Anandchhaya,  
P. Balu Marg, Prabhadevi,  
Mumbai-400025  
Tele: 022-24224360

2001

I



Email: dharapvijay@yahoo.com

Formerly Senior Vice-President and Advisor (Technical), Gammon India Ltd. Mumbai

**DHEKANE****Mr. Madhav Vasudeo**  
19572018  
VIIB.Tech (Elec.), M.Tech (Systems and Control), IIT Bombay  
FNAE, LMSSI, LMASI, LMISSE*Address (Res)*  
E1303, Kunal Aspiree  
Near Dasara Chowk  
Balewadi, Pune 411045  
Maharashtra  
Tele: 9496090065

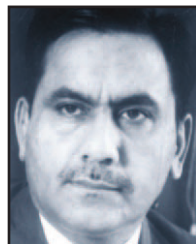
Email: madhav.dhekane@gmail.com

Former Distinguished Scientist and former Director , IISU/ ISRO, Former Satish Dhawan  
Professor IIST**DHEKNE****Mr. Prabhakar Shankar**  
19452003  
IIB.Sc.(Hons), BE (Instrumentation & Controls)  
FNAE, FIETE, MIPA, MINS, MSETS*Address (Res)*  
A-501, Kanchan Vastu,  
Left Bhusari Colony,  
Medi Corner Lane,  
Near Kothrud Depot,  
Paud Road, Pune-411 038  
Tele: 020-25280118

Email: ps.dhekne@nic.in, dhekne@yahoo.com

Former Scientific Consultant to the PSA to the GOI and Former Associate Director E&I  
Group, BARC, Mumbai**DHIR**Consulting Engineer  
Ph.D.

FNAE, FIE, FIGS, MIRC

**Dr. Mittar Pal**  
19351989  
I*Address (Res)*  
A-1/91 Second Floor,  
Safdarjung Enclave ,  
New Delhi -110029  
Tele: 011-41650886

Fax: 011-26108868

Email: mittardhir@yahoo.com

Formerly Director (Engg. Coord.), CSIR and Director, CRRRI

**DRAVID**

Chairman

D.Sc.

FNAE, FICh.E, FIE, Hon.Fellow IIT Bombay

*Address (Off)*Jacobs Engineering India,  
1111, S. Arroyo Parkway,  
Pasadena, CA-91105, USA

Tele:+1-626-568-7058

Fax: 022-22150985, +1-626-578-2916

Email: arun.dravid@jacobs.com

Formerly Managing Director, Humphreys and Glasgow Consultants Ltd., Mumbai; Formerly Vice-President, International, Jacobs Engineering Group Inc., USA

**Dr. Arun Nilkanth**

1943

*Address (Res)*7, Ashley House, 169,  
Colaba Road,  
Mumbai-400 005

Tele: +626-798-0019

1989

IV

**DUBE**

Managing Director

B.E.(Hons), M.Sc.(Engg.)

FNAE, MASTM, LMSTSI

*Address (Off)*Ducom Instruments Pvt. Ltd.,  
477A, 4th Phase,  
Peenya Industrial Area,  
Bangalore-560 058

Tele: 080-40805555

Fax: 080-40805510

Email: nmdube@gmail.com ; nmdube@ducom.com

**Mr. Narendra Mohan**

1948

*Address (Res)*543, 13th Cross, 5th Main,  
2nd Stage, RMV Extension,  
Bangalore-560 094

2016

III

**DUBE**

Ph.D.

FNAE, FIMS, FIGU, MISMMCS

*Address (Off)*Centre for Atmospheric  
Sciences, Indian Institute  
of Technology, Hauz Khas,  
New Delhi-110 016

Tele: 011-26591308

Email: skdubeiit@gmail.com,

skdube@cas.iitd.ac.in

Formerly Director, Indian Institute of Technology, Kharagpur; Formerly Dean (Industrial Research), IIT Delhi

**Prof. Shishir Kumar**

1947

*Address (Res)*

Tele: 011-26854709

2004

X



**DUTTA**

Ph.D

FNAE, MINS, MIndACM

*Address (Off)*

Homi Bhabha National  
Institute, 2nd Floor,  
Training School Complex  
Anushakti Nagar  
Mumbai 400094

Tele: 022-25597640

Fax: 022-25503384

Email: bijon.dutta@gmail.com

**Prof. Bijan Kumar**

1953

*Address (Res)*

C-1904, Sector-7  
Tharwani Heritage  
Kharghar,  
Navi Mumbai 410210

Tele: 0975700363

2004

III

**DUTTA**

Professor

Ph.D.

FASME, FNAE, FASc., FNA, FNASc., MISHMT

*Address (Off)*

Department of Mechanical  
Engineering,  
Indian Institute of Science,  
Bangalore-560 012

Tele: 080-22933225

Fax: 080-23604536

Email: pradip@iisc.ac.in

**Dr. Pradip**

1960

*Address (Res)*

Quarter No.302, IIM Campus,  
Bannerghatta Road,  
Bangalore-560 076

Tele: 080-26993249

2005

III

**DUTTA ROY**

Formerly Professor of  
Electrical Engineering,  
IIT Delhi

M.Sc.(Tech), D.Phil., D.Sc.(h.c.IIEST), D.Sc.(h.c. DEI)

FNAE, FNA, FASc., FNASc., FIEEE, Dist.FIETE, FASI,

*Address (Res)*

164, Hauz Khas Apartments (S.F.S. )  
New Delhi-110 016

Tele: 011-26963054

1987

VI



Email: s.c.dutta.roy@gmail.com

Ed. Pub.1987-89, 1991-93 & 1993-95; Hony.Secy.1995-96; Counc.1989-91; 1991-93 and  
1995-96; 2013-15;

**DWARAKADASA**

Chairman Emeritus

B.E. (Metallurgy), B.Sc. (Science), M.Sc. (Engineering) (Metallurgy),  
Ph.D. FNAE, FIIM, FIIM, FECSIFAeSI, FIE, FIIW, MEMSI,  
MMRSI, MISMPE*Address (Off)*M/s Karnataka Hybrid  
Micro Devices Ltd.,  
Plot No. 103, 4th Cross,  
Electronic City,  
Bangalore-560 100

Tele:9480696623

Fax: 080-28520209, 41151974

Email: esdasa@khmdl.com, dwarakadasa@gmail.com, dwarakadasaes@alumni.iisc.ac.in

Former Chairman, M/s Karnataka Hybrid Micro Devices Ltd., Bangalore

**Prof. Eswarahalli  
Sundararajan**

1941

1998

VIII

*Address (Res)*Apt. A-105,  
G CORP Mahalakshmi,  
3rd Main, SAHAKARANAGAR  
Bangalore 560092

Tele: 080-45806768

**ESWARAN**

Ph.D.

FNAE

*Address (Off)*Department of Mechanical  
Engineering,  
Indian Institute of Technology  
Hyderabad,

Kandi - 502285, Telangana

Tele: 040-23016009

Email: eswar@iith.ac.in

**Prof. Vinayak  
Sunderarajan**

1959

2008

III

**FERNANDES**

Professor

Ph.D.

FNAE, MIEEE

*Address (Off)*Department of Electrical  
Engineering,  
Indian Institute of Technology  
Bombay,

Powai, Mumbai-400 076

Tele: 022-25767400

Fax: 022-25723707

Email: bgf@ee.iitb.ac.in

Former Head, Department of Electrical Engineering, Indian Institute of Technology Bombay

**Prof. Baylon Godfrey  
Sunderarajan**

1962

2016

V





**FORBES**

Co-Chairman  
Ph.D. in Industrial Engineering  
FNAE

*Address (Off)*

Forbes Marshall Pvt. Ltd.,  
P.B. No.29, Mumbai-Pune Road,  
Kasarwadi, Pune-411 034  
Tele: 020-39858555  
Email: nforbes@forbesmarshall.com

**Dr. Naushad Darius**

1960

2017  
III



**GAIKAR**

Bharat Petroleum  
Chair Professor of  
Chemical Engineering  
Ph.D.

FNAE, FMASc., MICh.E, MISSST

*Address (Off)*

Department of Chemical  
Engineering, Institute of  
Chemical Technology,  
Nathalal Parekh Marg,  
Matunga, Mumbai-400 019  
Tele: 022-33612013  
Fax: 022-33611020  
Email: v.g.gaikar@ictmumbai.edu.in, v.g.gaikar@gmail.com

**Prof. Vilas Gajanan**

1960

2008  
IV



*Address (Res)*

703 A, Dhananjay Apts.,  
Off. Veera Desai Road,  
Andheri (West),  
Mumbai-400 053  
Tele: 022-26732167

**GALLA**

Founder & Chairman  
B.E.(Electrical), M.E.(Applied Electronics),  
M.S.(System Sciences)  
FNAE

*Address (Off)*

Amara Raja Group,  
Head Office-  
Renigunta-Cuddapah Road,  
Karakambadi-517520,  
Chittoor Dist. (A.P.)  
Tele: 0877-2265000  
Fax: 0877-2285600  
Email: rng@amararaja.com

**Dr. Ramachandra Naidu**

1938

2019  
IX



*Address (Res)*

“Giridrushya”,  
Renigunta-Cuddapah Road,  
Karakambadi-517520,  
Chittoor Dist. (A.P.)  
Tele: 0877-2265000

Former Managing Director, Amara Raja Group

**GANDHI**

**Prof. Kandukuri  
Sivananda**  
1942

2003

IV

Ph.D.

FNAE, FASc., FICh.E

*Address (Off)*Department of Chemical  
Engineering,

Indian Institute of Science,

Bangalore-560 012

Tele: 080-22932320

Fax: 080-23608121, 23600683

Email: Gandhi Kandukuri &lt;gandhi@iisc.ac.in&gt;, gandhi533@gmail.com

Coun.2005-2006

**GANESAN**

**Prof. Venkitachalam**  
1945

2000

III

Ph.D.

FNAE, Life Mem.CI(USA), Life Mem.SFMFP,

MSAE (USA), MISTE

*Address (Res)*

11/6, 4th Main Road,

Indira Nagar, Adayar,

Chennai-600020

Tele: 044-24417575

Email: vganesan.iitm@gmail.com

Formerly Professor and Head, Department of Mechanical Engineering, Indian Institute of  
Technology Madras, Chennai**GANESH**

Chief Technical Advisor  
and Director

B.E. and Ph.D. in Chemical Engg

FNAE, MSESI, MIESA

*Address (Off)*

Cummins Technical Centre

India (CTCI)

Survey No. 31,32,33,

Dhanukar Colony Kothrud,

Pune-411038

Tele: 020 30233000

Email: anuradda.ganesh@cummins.com, ganesh.anuradda@gmail.com

Former Professor, Department of Energy Science and Engineering, IIT Bombay

**Dr. Anuradda**

1968

2020

IX

*Address (Res)*

2401, VERONA CHS,

Hiranandani Gardens,

Powai, Mumbai 400076



**GANGULI**

Senior Professor

Ph.D.

FNAE, FNASc, FASME, FRAeS, FAeSI, AFAIAA

*Address (Off)*Department of Aerospace  
Engineering,  
Indian Institute of Science,  
Bangalore-560 012

Tele: 080-22933017

Fax: 080-23600134

Email: ganguli@iisc.ac.in; drganguli@gmail.com

Former Satish Dhawan Chair Professor, Indian Institute of Science, Bangalore

**Prof. Ranjan**

1967

2009

VII

*Address (Res)*8505, PMC OMARA,  
Yelahanka,  
Bangalore-560 064

Tele: 080-28461416

**GANGULY**

Advisor to Director General,

Distinguished Professor &amp;

Chairman, Board of Studies

B.E.(Metallurgical Engg), P. G. in Nuclear Science &amp; Engg,

BARC Training School, Ph.D.(Metallurgical Engg)

FNAE, FNA, FASc., FNASc., FIE, FIIM, FIICer. Humboldt Fellow

*Address (Off)*Department of Nuclear  
Science & Technology,  
Pandit Deendayal

Petroleum University,

Gandhinagar, Gujarat-382007

Tele:040-42217549

**Prof. Chaitanyamoy**

1946

1994

VIII

*Address (Res)*Caladia 703, The Botanika,  
Kondapur, Behind Radisson Hotel,  
Gachibowli, Hyderabad-500032

Tele: 040-42217549

Email: chm\_ganguly@yahoo.com, chaitanya.ganguly@gmail.com

Formerly Director, Central Glass &amp; Ceramic Research Institute and Formerly Chairman, NFC Board and Chief Executive, Nuclear Fuel Complex, DAE, Hyderabad; Former President, Cameco India Ltd., Hyderabad; Former INSA Senior Scientist, Engineering Staff College of India (ESCI), Hyderabad

**GANGULY**

Professor

Ph.D.

FNAE, MACM, MIEEE

**Address (Off)**Department of Computer  
Science & Engineering,  
Indian Institute of Technology  
Kharagpur,  
Kharagpur-721 302 (WB)

Tele:03222-283460

Fax: 03222-278985

Email: niloy@cse.iitkgp.ac.in

**Prof. Niloy**

1969

2018

II

**Address (Res)**Qtr. No.A-40, IIT Kharagpur Campus,  
Indian Institute of Technology  
Kharagpur,  
Kharagpur-721 302 (WB)

Tele: 03222-283461

**GANTAYET**

Chief Mentor,  
Drishti R&D LLP  
Ph.D.  
FNAE, MINS, MIChE, MPMAl, MIVS

**Dr. Lalit Mohan**

1950

2005

IX

*Address (Res)*

4A, Divyajyoti CHS, Plot 51,  
Sector 29, Vashi,  
Navi Mumbai, 400 705,  
Maharashtra  
Tele: 022-27890388



Email: [lm.gantayet@gmail.com](mailto:lm.gantayet@gmail.com)

Former Distinguished Scientist and Director, Beam Technology Development Group, Bhabha Atomic Research Centre  
Counc.2010-2012

**GARG**

President R&D  
B.Tech ( LIT Nagpur), M.Tech (IITK),  
Ph.D ( University of Melbourne)  
FNAE, MIChE, MISI, MISAS

**Dr. Madhukar Onkarnath**

1954

2009

IV

*Address (Off)*

Building TC 30 B, CA 01,  
Reliance Corporate Park,  
Thane Belapur Road,  
Ghansoli, Navi Mumbai,  
Maharashtra-400079

*Address (Res)*

Tower 8, Flat 12B, Beverly Park,  
Sector 14, Koparkhairane,  
Opp. Reliance Foundation School,  
Navi Mumbai, Maharashtra-400709

Tele: 8356903819

Email: [madhukarogarg@yahoo.com](mailto:madhukarogarg@yahoo.com), [madhukar.garg@ril.com](mailto:madhukar.garg@ril.com)

Formerly Director, Indian Institute of Petroleum, Dehradun; Former Director-General, CSIR, New Delhi; Former Professor, Department of Chemical Engineering, Indian Institute of Technology Bombay, Mumbai

**GARG**

Janaki and KA Iyer  
Chair Professor  
Ph.D.(IIT Delhi)  
FNAE, FASc.

**Prof. Naveen**

1971

2020

II

*Address (Off)*

Department of Computer  
Science and Engineering,  
Indian Institute of Technology  
Delhi, Hauz Khas,  
New Delhi-110016

*Address (Res)*

Vikramshila 21,  
Indian Institute of Technology  
Delhi, Hauz Khas,  
New Delhi 110016

Tele: 011-26591296

Tele: 011-26596941

Email: [naveen@cse.iitd.ac.in](mailto:naveen@cse.iitd.ac.in), [Naveengarg71@gmail.com](mailto:Naveengarg71@gmail.com)

Former, Professor, Department of Computer Science and Engineering, IIT Delhi



**GARG**

MSc.(Tech)  
FNAE, FMASc

**Mr. Ram Kanwar**  
1930

1992  
IV



*Address (Res)*  
4, Vikram Jyoti Cooperative  
Housing Society, Deonar,  
Near Telecom Factory,  
Mumbai-400 088  
Tele: 022-25559251

Email: gargnk@gmail.com

Formerly Chairman, RAC, DRDO, Chairman, Cochin Minerals and Rutile Pvt. Ltd., Alwaye, Kerala

**GETTU**

Dean, Industrial Consultancy  
& Sponsored Research,  
and VS Raju Chair Professor  
Ph.D.(Struct. Engg)  
FNAE, FRILEM, LMICI, MRAE

*Address (Off)*

Department of Civil  
Engineering, IIT Madras  
Chennai-600 036

Tele: 044-22578060, 9840600871

Fax: 044-22574252

Email: gettu@iitm.ac.in

**Prof. Ravindra**

1962

2018  
I



*Address (Res)*

12A Moores Road,  
Moores Garden,  
Chennai-600 006

**GHANGREKAR**

Institute Chair Professor  
Professor, Department of  
Civil Engineering, Head,  
School of Environmental

Science and Engineering, Head,  
PK Sinha Centre for Bioenergy  
and Renewables, Professor In-charge,  
Aditya Choubey Centre for  
Re-water Research, IIT Kharagpur

B.E. (Civil Engineering), Ph.D. (Environmental Science and Engineering)

FNAE, FIAEM, FIE(I), FIWA, FASCE, FISMET

*Address (Off)*

Department of Civil  
Engineering,  
I.I.T. Kharagpur,  
Kharagpur – 721302 (W.B.)

Tele: 9434023357

Fax: 03222-282254

Email: ghangrekar@civil.iitkgp.ac.in; m\_ghangrekar@rediffmail.com

**Prof. Makarand Madhao**

1969 I

2020



*Address (Res)*

Quarter No. A-144,  
IIT Kharagpur Campus,  
Kharagpur – 721302 (W.B.)

Tele: 03222-283441

**GHATAK**

Professor

Ph.D.

FNAE

*Address (Off)*

Department of Chemical  
Engineering, Indian Institute  
of Technology Kanpur,  
Kanpur-208 016 (UP)

Tele: 0512-6797146

Email: aghatak@iitk.ac.in

**Prof. Animangsu**

1971

*Address (Res)*

FA -401/A Block,  
IIT Kanpur Campus,  
Kanpur-208 016 (UP)

Tele: 0512-6798668

2018

IV

**GHOSAL**

Ph.D.

FNAE, MAMM

*Address (Off)*

Department of Mechanical  
Engineering, Indian Institute  
of Science, Bangalore-560012

Tele: 080-22932956

Fax: 080-23600648

Email: asitava@iisc.ac.in

**Prof. Ashitava**

1959

*Address (Res)*

NE-23, IISc. Qtrs.,  
Indian Institute of Science,  
Bangalore-560 012

Tele: 080-23601660

2010

III

**GHOSE**

B.Sc.(Engg), ME, Ph.D.

FNAE, MIEEE

*Address (Off)*

Department of Aerospace  
Engineering,  
Indian Institute of Science,  
Bangalore-560 012

Tele: 080-23414173

Fax: 080-23601279

Email: dghose@iisc.ac.in

**Prof. Debasish**

1960

*Address (Res)*

550, 1A, Main Road,  
4th Cross, Tatanagar,  
Kodigehalli,  
Bangalore-560 092

Tele: 080-22933023

2006

VII

**GHOSH**

Sc.D.

FNAE, FIIM, FIE

Email: ahin1937@gmail.com

Formerly Professor, Department of Materials & Metallurgical  
Engineering, IIT Kanpur

**Prof. Ahindra**

1937

*Address (Res)*

Flat 3C, 'Shatabdi', 54/2/1/1/1,  
Andul Road, Howrah-711109

Tele: 9007449524

1997

VIII



**GHOSH**

Associate Professor  
Ph.D. in Physics  
FNAE

*Address (Off)*

SF03, Centre for Nano Science  
and Engineering (CeNSE),  
Indian Institute of Science,  
Bangalore-560 012  
Tele:080-2293-2442

Email: ambarish@iisc.ac.in

Former Assistant Professor, Centre for Nano Science and Engineering (CeNSE), Bangalore

**Prof. Ambarish**

1973

2020

X

**GHOSH**

INSA Honorary Scientist  
and Honorary Distinguished  
Professor

D.Phil, DSc(h.c)

FNAE, FNA, FASc., FIE, FNAsc, FAMM

*Address (Off)*

Aerospace Engineering &  
Applied Mechanics  
Department,  
Bengal Engineering and  
Science University,  
Shibpur P.O. Botanic Garden,  
Howrah-711 103

Tele: 033-26680521 Extn 441

Fax: 033 - 26682916

Email: amitabha@iitk.ac.in, amitabhaitk@gmail.com

Former Professor of Mechanical Engineering, IIT Kanpur; Former Director, IIT Kharagpur  
Counc.2001-2002

**Prof. Amitabha**

1941

1994

III

*Address (Res)*

Flat -D 2, 50/A, College Road,  
PO : Botanic Garden,  
Howrah 711 103

**GHOSH**

Research Academic  
Professor  
Ph.D.

FNAE, FIE, FIEEE

*Address (Off)*

Department of Electrical  
and Computer Engineering  
Curtin University  
Kent St, Bentley, WA 6102,  
Australia

Tele:+61 8 9266 7938

Email: arindam.ghosh@curtin.edu.au

**Prof. Arindam**

1952

2005

V

*Address (Res)*

5/150, Fern Road  
Wilson, WA 6107,  
Australia

**GHOSH**

Executive Director

Ph.D.

FNAE

*Address (Off)*

Birla Institute of  
Scientific Research,  
Statue Circle,  
Jaipur-302001

Tele: 0141-2385283

Fax: 0141-2385121

Email: ghoshiitbistr@gmail.com

Chief Ed. of Pub.2013-18; V.P.2017-2019 and 2020-2022

**Prof. Purnendu**

1946

2001

IV

*Address (Res)*

15, Achrol House,  
Civil Lines,  
Jaipur-302006

Tele: 0141-2223183

**GHOSH**

Former Chair Professor

Ph.D., M.Tech., B.Tech.(Hons)

FNAE, FIE, MIIM, MMRSI, MIIW, MISNT

Email: rngosh@metal.iitkgp.ernet.in, rngosh@metal.iitkgp.ac.in

Formerly Scientist 'G' and Head, Materials Science and Technology Division, National Metallurgical Laboratory, Jamshedpur; Former Chair Professor, Department of Metallurgical & Materials Engg. IIT Kharagpur

**Dr. Rabindra Nath**

1948

2007

VIII

*Address (Res)*

Plot 47B, Hijli Cooperative Society,  
Prembazar, PO Kharagpur – 721306

Tele: 9233761970 / 9476105646

**GHOSHAL**

Head

Ph.D.

FNAE, FSSI, FAstrSI

*Address (Off)*

Electrical Engineering  
Department,  
Jadavpur University,  
Kolkata-700 032

Tele: 033-24146129

Fax: 033-4146723

Email: tkghoshal@gmail.com

**Prof. Tapan Kumar**

1945

2003

VII

*Address (Res)*

D-108, Baghajatin,  
Kolkata-700 032

Tele: 033-24255703





**GNANAMOORTHY**

Professor

Dr Engg (Japan), M S (by Research), B E  
FNAE, LMAMM, LMMRSI, LMIIM, LMTSI, LMSBM*Address (Off)*Department of Mechanical  
Engineering, Indian Institute  
of Technology Madras,  
Chennai 600 036

Tele: 044-22574691

Email: gnanamoorthy66@gmail.com

Former Director, Indian Institute of Information Technology Design and Manufacturing (IIITDM) Kancheepuram

**Prof. Rajappa**

1966

*Address (Res)*12, 7th Avenue,  
7th Main Road,  
Dhandeeswaram Nagar, Velachery,  
Chennai 600 042

Tele: 044-22432421

2017

III

**GODREJ**

Managing Director-

Godrej Industries Ltd. and Chairman,

Godrej Agrovet Ltd.

M.S.(Chemical Engg), MBA from Harvard Business School

FNAE

*Address (Off)*Godrej One, 5th Floor,  
Godrej Industries Ltd.,  
Pirojshanagar,  
Eastern Express Highway,  
Vikhroli, Mumbai - 400079

Tele: 022-25188070

Fax: 022-25188072

Email: nb.godrej@godrejinds.com

**Mr. Nadir Burjorji**

1951

*Address (Res)*The Trees, 2nd fl.,  
40-D, B.G. Kher Marg,  
Malabar Hill,  
Mumbai-400 006

2018

IV

**GOEL**

Chairperson,

National Innovation Foundation-India,

Honorary Distinguished Professor,

ISRO Hqrs. and Raja Ramanna Chair Visiting Professor

Ph.D.

FNAE, FNA, FNASc., FASc., FIETE, F.Astr.SI, FAeSI, FTWAS,

MIAA(Paris), Hon.FESI, Hon.FIITB

*Address (Off)*Room No F19,  
National Institute of  
Advanced Studies, IISc  
Campus, Bangalore -560012

Tele: 080-23410013,

22185072, 22172150

Email: dr.psgoel@gmail.com

Formerly Secretary, Ministry of Earth Sciences and Chairman, Earth Commission; and Director, ISRO Satellite Centre, Bangalore; Formerly Chairman, Recruitment and Assessment Centre, DRDO, Ministry of Defence, Govt. of India, Delhi; Formerly Prof. M.G.K Menon DRDO Chair Counc.2001-2002 and 2003-2004; Pres-2007-2008 and 2009-2010

**Dr. Prem Shanker**

1947

*Address (Res)*No 6, 1<sup>st</sup> Main, 9th Cross,  
Oppo. BESCOM Office,  
ISRO Layout,  
Bangalore 560111

Tele: 7382618774, 9910049388

1990

VII



**GOENKA**

M.S., Ph.D.

FNAE, FSAEI, MASME, International Member, NAE(USA)

**Dr. Pawan Kumar**

1954

2004

III

*Address (Res)*

Flat No.602, 9, JVPD,  
10th Road, Vile Parle Scheme,  
Vile Parle (West), Mumbai-400 056  
Tele: 022-26235827

Email: goenka.pawan@mahindra.com

Former Managing Director &amp; CEO, Mahindra &amp; Mahindra Ltd.;

Formerly Chief Operating Officer, Mahindra &amp; Mahindra Ltd., Mumbai

**GOGATE**

Professor of Chemical  
Engineering & Controller  
of Examinations

B.Chem.Engg., M.Chem.Engg., Ph.D.(Tech)

FNAE, FMASc., FICCh.E(UK), FICS, FIEI

*Address (Off)*

Chemical Engineering

Department,

Institute of Chemical

Technology (ICT),

Matunga, Mumbai-400 019

Tele: 022-33612024/ 33611027

Email: pr.gogate@ictmumbai.edu.in

Formerly Associate Professor

**Dr. Parag Ratnakar**

1975

2019

IV

*Address (Res)*

1102, Faculty Tower,  
Institute of Chemical  
Technology (ICT),  
RA Kidwai Road, Matunga,  
Mumbai-400019

Tele: 022-33611622

**GOKHALE**

Professor (Emeritus Fellow)

B Tech, MS, Ph.D

FNAE, LMIIM, LMMRSI, LMIIF

*Address (Off)*

Department of Mechanical

Engineering,

Indian Institute of

Technology Bombay,

Powai, Mumbai 400076

Tele: 022-25767399

Fax: 022-25726875

Email: amolhina@rediffmail.com, gokhale@iitb.ac.in

Formerly Distinguished Scientist, Director, Defence Metallurgical Research Laboratory, Hyderabad

**Dr. Amol A**

1955

2011

VIII

*Address (Res)*

3201 Heritage Building,  
Cliff Avenue, Powai  
Mumbai, 400076,  
Maharashtra,



**GOPAKUMAR**

Chairman

Ph.D.

FNAE, FIETE, SMIEEE

*Address (Off)*

Department of Electronic  
Systems Engineering-  
DESE (Formerly CEDT),  
Indian Institute of Science,  
Bangalore-560 012

Tele: 080-22933089, 22932246

Fax: 080-22932290

Email: kgopa@iisc.ac.in, kgopacedt@gmail.com

**Prof. Kumarakuttan Nair**

1956

2009

V

*Address (Res)*

# 104, SRIKOVIL, 4th Cross,  
9th Main, NTI Layout,  
Vidyaranyapura,  
Bangalore-560 097

Tele: 080-23647514

**GOPALAKRISHNAN**

Secretary-General Honoraire,  
Ex Central Water Commission  
Government of India

M.E.(Hons)

FNAE, FIE(I), FIWRS, FAIH, FISET, FGTS, FISRMTH,  
FISCMS, FISH, FAAWRE

*Address (Off)*

International Commission  
on Irrigation and  
Drainage(ICID), 48,  
Nyaya Marg, Chanakyapuri,  
New Delhi - 110021

Tele: 011-26116837, 26683190

Email: mgopalakrishnan@hotmail.com, gopalakrishnansaraswathi@gmail.com

Formerly Secretary General International Commission on Irrigation and Drainage

**Mr. Mukuteswara**

1943

2012

I

*Address (Res)*

Flat No 001 B ZED Collective Apts  
Off Doddabellapur Main Road  
(Near Presidency School), Yelahanka  
Bengaluru, 560064

**GOPALAKRISHNAN**

Professor

Ph.D.(Purdue Univ,USA)

FNAE, FASC, FIMechE, CEng, AFAIAA

*Address (Off)*

Department of Aerospace  
Engineering,  
Indian Institute of Science,  
Bangalore-560 012

Tele: 080-22933019

Fax: 080-23600134

Email: krishnan@iisc.ac.in

Counc.2019-2021

**Prof. S**

1960

2006

VII

*Address (Res)*

NE 103, New Housing Colony,  
Indian Institute of Science,  
Bangalore-560 012

Tele: 080-23604551



**GOPALAKRISHNAN**

Co-founder Infosys &  
Chairman Axilor Ventures  
M.Sc.(Physics), M.Tech (Computer Science)  
FNAE

*Address (Off)*

855, 13th Main,  
4A Cross, 3rd Block,  
Koramangala,  
Bangalore 560034  
Tele: 080-25533215  
Email: kris.gopalakrishnan@outlook.com

**Mr. Senapathy**

1955

*Address (Res)*

2016

II

**GOPALAN**

Associate Director  
M.Sc, M.Tech, Ph.D.  
FNAE, LMMRSI, LMMSI, LMEMSI, LMISAS  
*Address (Off)*

International Advanced  
Research Centre for  
Powder Metallurgy and  
New Materials (ARCI),  
2nd Floor, IITM Research Park,  
Taramani, Kanagam Road,  
Chennai-600113

Tele: 044-66632723, 66632831

Fax: 044-66632702

Email: gopy@arci.res.in, gopy1960@gmail.com

Former Scientist G, ARCI

**Dr. Raghavan**

1960

*Address (Res)*

C2, 201, Palmera Garden,  
Sakthi Srinivasan Salai,  
Thoraiappakkam,  
Chennai-600097

2018

VIII

**GOPINATHAN**

Chief Executive Officer  
and Managing Director

Post Graduate Diploma in Management from IIM,  
Ahmedabad; Electrical & Electronic Engineer from NIT, Trichy  
FNAE

*Address (Off)*

Tata Consultancy Services,  
TCS House, Raveline Street,  
21 DS Marg, Fort,  
Mumbai-400 001

Tele: 022-67789999

Email: ceo.office@tcs.com

Former Chief Financial Officer, TCS

**Mr. Rajesh**

1971

2018

II



**GOVINDARAJAN**

Advisor

MSc.(Engg)

FNAE, MINS

*Address (Off)*

PSG Institute of Advanced  
Studies, Peelamedu,  
Coimbatore-641 004

Tele: 0422-4344535

Email: govindk72@hotmail.com

Formerly Director, E&I Group, A&M Group, Reactor Control Division, Bhabha Atomic  
Research Centre, Mumbai  
Counc.2003-2004

**Mr. Gopaldaswamy**

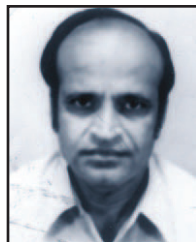
1944

1993

V

*Address (Res)*

98, Sirukaliamman Kovil Street,  
Pappanaicken Palayam,  
Coimbatore-641 037

**GOWRISHANKAR**

Technical Advisor,

India Pistons Ltd.

B.Tech, MS, Ph.D.

FNAE, MASM

**Dr. Narayanaswamy**

1944

2006

VIII

*Address (Res)*

1, Eighth Trist Cross St,  
Mandavalipakam  
Chennai-600028  
Tele: 9840049419



Email: harigowrishankar@gmail.com

Former Director, M/s IP Rings Ltd., Maraimalar Nagar (Tamil Nadu)

**GOWTAMA**

Chairman &amp; Managing

Director

M.Tech.(Advanced Electronics)

FNAE

*Address (Off)*

Bharat Electronics Ltd.,  
Outer Ring Road, Nagavara,  
Bengaluru-560045

Tele:080-25039200

Fax: 080-25039211

Email: gowtamamv@gmail.com

**Mr. Mannava  
Venkateswara**

1961

2019

VI

*Address (Res)*

House No.41, BYNR Layout,  
2nd Cross, Horamavu Main Road,  
Bengaluru-560043



**GROVER**

Emeritus Professor,  
and Member Atomic  
Energy Commission  
Ph.D., B.Sc. (Mech Engg)  
FNAE, FWAAS, FMASc, MINS, MISHMT  
*Address (Off)*  
Homi Bhabha National  
Institute, 2nd Floor,  
Training School Complex,  
Anushakti Nagar,  
Mumbai-400094  
Tele: 022-25597620  
Fax: 022-25594898  
Email: [rbgrover@hbni.ac.in](mailto:rbgrover@hbni.ac.in)

**Dr. Ravi Bhushan**  
1949

*Address (Res)*  
B2/503, Shree Saraswati CHS,  
NG Acharya Marg,Chembur,  
Mumbai-400 071

Tele: 022-25212547

1999  
III



Director/Vice-Chancellor, Homi Bhabha National Institute; Principal Adviser, Strategic Planning Group, Department of Atomic Energy; Director, Knowledge Group, BARC.

**GUDI**

Professor  
B.Tech, M.Tech, Ph.D  
*Address (Off)*  
Department of Chemical  
Engineering,  
IIT Bombay, Powai,  
Mumbai 400076  
Tele: 022-25767231  
Email: [ravigudi@iitb.ac.in](mailto:ravigudi@iitb.ac.in)

**Prof. Ravindra Dheerendra** 2021  
1962 IV

*Address (Res)*  
C-234, Shivalik Building,  
IIT Campus, Powai,  
Mumbai 400076

**GUHA**

M.Tech, Ph.D.  
FASc, FNASc, FIEEE, SigmaXi  
*Address (Off)*  
Institute of Radio Physics  
and Electronics,  
University of Calcutta,  
92, APC Road,  
Kolkata-700 009  
Tele: 033-23509115  
Fax: 033-23515828  
Email: [dguha@ieee.org](mailto:dguha@ieee.org), [debatoshguha@rediffmail.com](mailto:debatoshguha@rediffmail.com)

**Prof. Debatosh**  
1963

*Address (Res)*  
23/17/2B, D.P.P. Road,  
Kolkata-700 047

Tele: 033-24812263

2013  
VI



**GUHA**

Professor

B.Tech.(Hons), M.Tech, M.S., Ph.D., MBBS  
FNAE, FNASc.*Address (Off)*School of Medical Science  
and Technology, Indian  
Institute of Technology,  
Kharagpur-721 302 (WB)

Tele: 03222-283574

Email: guha\_sk@yahoo.com

Formerly Professor, All-India Institute of Medical Sciences and Centre for Biomedical Engineering, IIT Delhi; Formerly S.R. Sengupta Chair Professor, IIT Kharagpur.

**Prof. Sujoy Kumar**

1940

Ph.D., MBBS

*Address (Res)*B-99, , Indian Institute of  
Technology Campus,  
Kharagpur-721 302 (WB)

Tele: 03222-283575

1989

X

**GUMASTE**

Associate Professor

Ph.D.(Elect.Engg)

FNAE, SMIEEE

*Address (Off)*Department of CSE,  
Indian Institute of  
Technology Bombay,  
Powai, Mumbai-400 076

Tele: 022-25767911

Email: ashwing@ieec.org

**Dr. Ashwin**

1975

2018

VI

**GUPTA**Adviser/Scientist-G & Head,  
Strategic Programmes,

Large Initiatives and Coordinated

Action Enabler (SPLICE) and Climate Change Programme;

Head, Planning Coordination &amp;

Performance. Monitoring Division (PCPM)

M.Sc (Physics), PhD (Atmospheric Sciences)

FNAE, FIMS, LMIMS, LMAA

*Address (Off)*Room No 16B,  
Administrative Block  
Department of Science  
& Technology

Technology Bhavan,

New Mehrauli Road

New Delhi-110 016, India

Tele: 011-26590459

Fax: 011-26862512

Email: akhilesh.g@nic.in, gakhilesh2008@gmail.com

Former Secretary, University Grants Commission

**Dr. Akhilesh**

1963

2016

X



**GUPTA****Dr. Anil Kumar**

2006

1951

VIII

Ph.D.(Engg)

FNAE, FIE, FMSI, MIIM, MMRSI, MAeSI, CE

*Address (Res)*ER-11, Inder Puri,  
New Delhi-110 012

Tele: 011-45132161



Email: akg51us@yahoo.com

Formerly Scientist G & Head, Division of Engineering Materials, National Physical Laboratory, New Delhi and Formerly Director, CSIR-AMPRI, Bhopal, Former Chief Scientist & Head, Division of Engineering Materials, CSIR-NPL, New Delhi, Former Director-Technical, Shivam Autotech Ltd.

**GUPTA****Prof. Ashok Kumar**

2018

1969

I

Professor,

Department of Civil

Engineering and Head,

School of Water Resources

B.Tech, M.E., Ph.D.

FNAE, LMASCE, LMIPHE, LMIAAPC, LMIASS

*Address (Off)*

Environmental Engineering

Division, Department of

Civil Engineering,

IIT Kharagpur

Kharagpur (W.B.) 721 302

Tele: 03222-283428

Fax: 03222-255303

Email: agupta@civil.iitkgp.ac.in, akgupta@iitkgp.ac.in

*Address (Res)*

Flat no A-152, IIT KGP Campus

IIT Kharagpur

Kharagpur (W.B.)-721 302, India

Tele: 03222-283429

**GUPTA****Dr. Chiranjib Kumar**

1991

1939

VIII

Ph.D.

FNAE, FIIM, MMRSI

*Address (Res)*

A-101, Nandkurti Cooperative

Housing Society, Sector 3,

Koparkhairane, Navi Mumbai

Tele: 022-27548908



Email: cgupta@vsnl.com

Formerly Director, Materials Group, Bhabha Atomic Research Centre, Mumbai

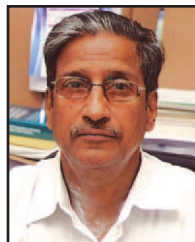


**GUPTA**

B.Tech., M.Tech., Ph.D.  
 FNAE, MISTE, MISME, MISI, MAMM  
*Address (Off)*  
 Mechanical Engineering  
 Department,  
 Indian Institute of Technology  
 Delhi, Hauz Khas,  
 New Delhi - 110016  
 Tele : 011-26591122  
 Fax: 011-26582053  
 Email: kgupta@mech.iitd.ac.in

**Prof. Kshitij**  
 1951

2012  
 III

**GUPTA**

Director  
 Ph.D.  
 FNAE, FACM  
*Address (Off)*  
 Google Research India,  
 Tower E, RMZ Infinity,  
 No. 3, Swamy  
 Vivekananda Rd,  
 Sadanandanagar,  
 Bennigana Halli,  
 Bengaluru-560016, Karnataka  
 Tele: 080-25393209  
 Email: manishgupta@google.com  
 Formerly Managing Director, Technology, Goldman Sachs India; Former Vice-President and Director, Xerox Research Centre India, Bangalore; Former CEO, VideoKen Software Private Ltd., Bangalore and Infosys Foundation Chair Professor

**Dr. Manish**  
 1965

2015  
 II

*Address (Res)*  
 209/I Palm Meadows,  
 Ramagondanahalli,  
 Bangalore-560 066

**GUPTA**

Emeritus Professor  
 Ph.D., Dr.(h.c.-RAS)  
 FNAE, FIE, FAe.SI, FNASc., FNA, FTWAS, Hon.Mem.WIF  
*Address (Off)*  
 Department of Applied  
 Mechanics,  
 IIT Delhi, Hauz Khas,  
 New Delhi-110 016  
 Tele: 011-26591178  
 Fax: 011-26581119  
 Email: nkgupta@am.iitd.ac.in  
 Counc.2010-2012

**Prof. Narinder Kumar**  
 1942

1995  
 III

*Address (Res)*  
 A-53, Gyandeep Appartments,  
 Mayur Vihar Phase - I,  
 Delhi - 110 091  
 Tele: 011-22796430



**GUPTA**

Geotechnical and Rock  
Engineering Consultant  
Ph.D.

FNAE, MIGS, MMGI, MMEA, MIE, MISRMTT

**Prof. Rama Nand**

1942

1999

VIII

*Address (Res)*

Apt. C-002, Gopalan Celestial Greens,  
P.O. C.V.Raman Nagar,  
Old Madras Road,  
(Behind Gopalan Signature Mall),  
Bangalore-560093 (Karnataka)  
Tele: 9448048686, 7019765702



Fax: 080-25247121

Email: [guptarn1942@rediffmail.com](mailto:guptarn1942@rediffmail.com), [guptarn1942@gmail.com](mailto:guptarn1942@gmail.com)

Formerly Director, National Institute of Rock Mechanics, Kolar Gold Fields, Kolar District, Karnataka

**GUPTA**

Distinguished Professor  
Ph.D.

FNAE, FASc., FNASc.

*Address (Off)*

Department of Chemical  
Engineering,  
University of Petroleum  
& Energy Studies (UPES),  
Energy Acres,  
PO Bidholi (Via Prem Nagar),  
Dehradun-248 007  
Tele: 9554272320  
Fax: 0135-2776090

Email: [skgupta@iitk.ac.in](mailto:skgupta@iitk.ac.in), [skgupta@ddn.upes.ac.in](mailto:skgupta@ddn.upes.ac.in)

Formerly Professor, Department of Chemical Engineering, Indian Institute of Technology, Kanpur

**Dr. Santosh Kumar**

1946

2010

IV

*Address (Res)*

Flat No. 102, Narmada Block  
Siddhartha Paradise Apartments  
Panditwadi,  
Dehradun 248007

**GUPTA**

Ex-Head, DIDE and  
Project Coordinator

B.Tech, M.Tech, Ph.D.

FNAE, FNAAsc., FISAE, FISSSWQ, FISCAR

**Dr. Suresh Kumar**

1949

2004

I

*Address (Res)*

198, Sector- 8, Part I  
Karnal – 132001 (Haryana)  
Tele: 09416081613



Email: [drskg1949@yahoo.com](mailto:drskg1949@yahoo.com), [skg.cssri@gmail.com](mailto:skg.cssri@gmail.com)

Former Project Coordinator, Use of Saline Water

**GUPTA**

Ph.D.

FNAE, FREng., FIC, FIMech.E, FCGI, C.Eng

**Dr. Syamal**

1934

2005

X

*Address (Res)*

19, Commonwealth, 5th Floor,

Madam Cama Road, Mumbai-400 020

Tele: 022-22811832

Email: [syamalgupta@tata.com](mailto:syamalgupta@tata.com)

Former Chairman, Tata International Limited, Mumbai

**GUPTA**

Ph.D.

FNAE, FISET, MISWE, MIE, MEERI(US)

*Address (Off)*

Department of Civil

Engineering, IIT Kanpur

Kanpur-208 016

Tele: 0512-2597118

Fax: 0512-2597395

Email: [vinaykg@iitk.ac.in](mailto:vinaykg@iitk.ac.in)**Prof. Vinay Kumar**

1962

2005

I

*Address (Res)*

House # 619, IIT Campus,

Kanpur-208 016

Tele: 0512-2591828, 2598425

**HABLANI**

Ph.D

FNAE, AIAA Associate Fellow, Institute of Navigation - Member,

MASI, MAeSI

**Prof. Hari B**

1950

2015

VII

*Address (Res)*

10042 Starbright Circle

Westminster, California, USA 92683

Tele: +1 (657) 271-3359

Email: [hbhablani2@gmail.com](mailto:hbhablani2@gmail.com)

Formerly Professor, Department of Aerospace Engineering, IIT Bombay, Former Professor, Mechanical Engineering, IIT Gandhinagar; Former Professor, Center of Astronomy, IIT Indore; Visiting Faculty Professor at the Department of Aerospace Engineering, IIT Kanpur, Boeing Technical Fellow, Huntington Beach, USA

**HARI**

Professor

Ph.D.

FNAE, FIEEE, FIETE

*Address (Off)*

Department of ECE,

Indian Institute of Science,

Bangalore-560 012

Tele: 080-22932745 Tele: 080-23602868

Email: [hari@iisc.ac.in](mailto:hari@iisc.ac.in)**Prof. KVS**

1962

2016

VI

*Address (Res)*

NE 119, Housing Colony,

Indian Institute of Science,

Bangalore-560 012



**HARITSA** **Prof. Jayant Ramaswamy** 2010  
 HAG Professor 1964 II  
 Ph.D.  
 FNAE, MCSI, MIEEE, MACM  
*Address (Off)* *Address (Res)*  
 CDS, 17/1, Vani Vilas Road,  
 Indian Institute of Science, Basavanagudi,  
 Sir CV Raman Road, Bangalore-560 004  
 Bangalore-560 012 Karnataka  
 Tele: 9449015894 Tele: 080-26578609  
 Fax: 080-23602648  
 Email: haritsa@iisc.ac.in  
 Former Professor, CDS, Indian Institute of Science, Bangalore



**HEGGADE** **Mr. Venkataramana** 2015  
**Narayana**  
 1962 I  
 B.E. (Civil), PDCM, MAM.  
 FNAE, FIE, MACCE, FIASE, MICI, MIIBE, MACI, MIMA,  
 MIGS, MIRC, MIABSE, MISI, MISSE  
*Address (Res)*  
 C-401 Greenfield Towers,  
 Kadam Wadi, Vakola,  
 Santa Cruz (East),  
 Mumbai -400051  
 Tele: 022-26666141  
 Email: vnheggade@gmail.com; vnheggade@yahoo.co.in;  
 Former CEO of STUP & Former ED of Gammon, India, Mumbai



**IRANI** **Dr. Jamshed Jiji** 1993  
 Director 1936 VIII  
 Ph.D.  
 FNAE, FASc., FEng., Hon.KBE, FISE, MMRSI, FIIM  
*Address (Off)* *Address (Res)*  
 Tata Sons Ltd., 7, Beldih Lake,  
 24, Homi Mody Street, Northern Town,  
 Fort, Mumbai-400001 Jamshedpur-831001  
 Tele: 022-56658015 Tele: 022-56352000  
 Fax: 022-56658030  
 Email: jjirani@tata.com  
 Formerly Managing Director, Tata Steel  
 Counc.-1999-2000



**IYENGAR**

Director

Ph.D.

FNAE, FASc., FNASc., FIE, MISET, MMRSI, MISCA, LMIGS, LMINS

*Address (Off)*

Centre for Disaster

Mitigation,

Jain University,

Bangalore-Kanakapura Road,

Jakkasandra-562 112

**Prof. Rangachar Narayana** 1992

1943

I

*Address (Res)*

2203/N, 24th Cross,

BSK 2nd Stage,

Bangalore-560 770

Tele: 080-26711119



Email: aareni@yahoo.com

Formerly Director, CBRI, Roorkee, Formerly KSIIDC Chair Professor, IISc. Bangalore and Raja Ramanna Fellow, IISc., Bangalore

**IYER**

Dean (IPS)

&amp; Visiting Professor

Ph.D.

FNAE, FIE, FIASE, FIACM, MICI, MCSI, MISI

*Address (Off)*

Indian Institute of

Technology Dharwad,

WALMI Campus,

Belur Industrial Area,

Near High Court,

PB Road, Dharwad,

Karnataka-580011

Tele: 0836-2312844

**Dr. Nagesh Ranganatha** 2008

1952

I

*Address (Res)*

M32-33, "Sree Mahalakshmi",

Block-2, 4-E,

Thiruvalluvar Salai,

Thiruvanniyur,

Chennai-600041

Tele: 044-24420701



Email: nageshiyer@gmail.com, dean.ips@iitdh.ac.in

Formerly: Director, CSIR-SERC; Coordinating Director, CMC; Director, Engineering Coordination CSIR; Acting Director, AcSIR; Former Distinguished Emeritus Professor, AcSIR

**JACOB**

Emeritus Professor

Ph.D, DSc.(Engg)

FNAE, FNA, FASc., FNASc., FIIM, MTMS, MASM, Mem.

Asia Pacific Academy of Materials, M.Am.Ceram.Soc., MMRSI

*Address (Off)*

Department of Materials

Engineering,

Indian Institute of Science

Bangalore - 560 012

Tele: 080-22932494

Fax: 080-23600472

Email: katob@iisc.ac.in

**Prof. Kallarackel Thomas** 1999

1944

VIII

*Address (Res)*

210, Indira Nagar, Stage I,

7th Cross,

Bangalore-560 038

Tele: 080-25252765



**JAGADEESH**

Chairman, Centre of  
Excellence in Hypersonics  
& Professor  
B.E., M.E., Ph.D  
FNAE, FRAeS (UK), AFAIAA (USA)  
*Address (Off)*  
Department of Aerospace  
Engineering,  
Indian Institute of Science,  
Bangalore-560 012  
Tele: 080-22933030  
Fax: 080-23606250  
Email: jaggie@iisc.ac.in

**Prof. Gopalan**

1966  
*Address (Res)*  
763/37, 15th B Main,  
Gokula Ist Stage, Ist Phase,  
Bangalore-560 054  
Tele: 080-23576262

2010  
VII**JAGADESH KUMAR**

Chairman  
Ph.D.  
FNAE, FNASc, FIETE, SMIEEE  
*Address (Off)*  
University Grants  
Commission, Bahadur  
Shah Zafar Marg,  
New Delhi-110002

**Prof. Mamidala**

1960  
*Address (Res)*  
19, Vikramshila,  
Indian Institute of Technology,  
Hauz Khas,  
New Delhi 110 016  
Tele: 011-2659 1959

2008  
VI

Email: cm.ugc@nic.in, mamidala@ee.iitd.ac.in

Former NXP (Philips) Chair Professor, Department of Electrical Engineering, Indian Institute of Technology, Delhi; Formerly Vice-Chancellor, JNU

**JAIN**

Director  
B.E., M.E., Ph.D.  
FNAE, FIE, FJSPS(Japan)  
*Address (Off)*  
Indian Institute of  
Technology (BHU),  
Varanasi-221005

**Prof. Pramod Kumar**

1964  
*Address (Res)*  
A-9, Principal Colony,  
Indian Institute of Technology  
(BHU)  
Varanasi-221005  
Tele: 9897039788

2019  
X

Tele: 0542-2368427

Fax: 0542-2368428

Email: director@iitbhu.ac.in, pkjain.iitr@gmail.com

Former Professor, Mechanical & Industrial Engineering, IIT Roorkee

**JAIN**

BE  
FNAE, MINS

**Dr. Shreyans Kumar**  
1948

2007  
IX

*Address (Res)*  
10B, Zerlina, L.G. Road,  
Malabar Hill,  
Mumbai-400 006  
Tele: 022-27741616



Email: skmj85@gmail.com

Formerly Chairman & Managing Director, NPCIL, Mumbai

**JAIN**

Director and Professor  
of Civil Engineering  
Ph.D.

FNAE, International Member, NAE(USA), FEERI(US),  
FIAEE, Fiset

*Address (Off)*

Director's Office,  
Indian Institute of Technology  
Gandhinagar, Palaj,  
Gandhinagar -382355  
(Gujarat)

Tele:079-23952001, 23952002

Email: skjain.iitk@gmail.com, director@iitgn.ac.in

Counc.2014-16

**Prof. Sudhir Kumar**  
1959

2003  
I



**JAIN**

Ph.D.  
FNAE, FIE, FISTE

**Prof. Vijay Kumar**  
1948

2014  
III

*Address (Res)*  
Rudraksh Park Phase-I,  
Block SR-2,  
Flat # 202, Baabariya Kalaa,  
Aakrati Eco City Road,  
Bhopal-462039 (M.P.)  
Tele: 0512-2598646



Email: vkjain@iitk.ac.in

Former Professor, Mechanical Engineering Department, Indian Institute of Technology Kanpur

**JALOTE**

Distinguished Professor  
(Founding Director 2008-2018)  
B.Tech, MS, Ph.D,  
FNAE, FIETE, FIEEE, MACM. MCSI

*Address (Off)*

Indraprastha Institute of  
Information Technology,  
Okhla Industrial Estate,  
Phase-III  
(Near Govind Puri Metro Station),  
New Delhi - 110 020

Tele: 011-26907499

Email: jalote@iiitd.ac.in

Former Director, Indraprastha Institute of Information Technology, New Delhi

**Prof Pankaj**

1960

2011

II

**JASRA**

Senior Vice-President  
(R&D)

Ph.D.

FNAE, FNA, FGSA MISSST, MMRSI, MISAS, ACS(USA)

*Address (Off)*

R&D Centre,  
Reliance Industries Ltd.,  
PO Petrochemicals,  
Vadodara-391 346

Tele: 0265-2616313, 2842304

Fax: 0265-6693934

Email: rvjasra@gmail.com; rakshvir.jasra@ril.com

Formerly Scientist-G, Central Salt & Marine Chemicals Research Institute (CSMCRI), Bhavnagar

**Dr. Raksh Vir**

1952

2008

IV

*Address (Res)*

B-245, Sundervan Cooperative  
Housing Society,  
New Sama Road,  
Vadodara-390008

Tele: 0265-2711986

**JAWAHAR**

Professor

Ph.D.

FNAE, FIAPR, MIUPRAI, MIEEE, MACM

*Address (Off)*

CVIT,  
International Institute of  
Information Technology  
(IIIT), Gachibowli,  
Hyderabad-500 032

Tele: 040-66531148

Email: jawahar@iiit.ac.in

Former Associate Professor, IIIT

**Prof. C.V.**

1970

2018

II

*Address (Res)*

A-23, IIIT,  
Gachibowli,  
Hyderabad-500 032

Tele: 040-66531203



**JAYADEVA** **Prof.** 2020  
 Institute Chair Professor 1967 VI  
 and Head of the Dept.  
 B.Tech in Electrical Engineering from IIT Delhi,  
 1988 Ph.D from IIT Delhi in 1994.  
 Thesis title: "Optimization with Neural Networks"  
 FNAE, SMIEEE, FIETE  
*Address (Off)*  
 Department of Electrical  
 Engineering, IIT Delhi,  
 Hauz Khas, New Delhi-110016  
 Tele: 011-2659 6102  
 Email: jayadeva@ee.iitd.ac.in  
 Former Microsoft Chair Professor



**JAYAKUMAR** **Dr. Tammana** 2005  
 1955 VIII  
 B.Tech., M.S., Ph.D.  
 FNAE, FASc., FASc.T, FINS, FIIM, FISNT, FUSI;  
 MMRSI, MASI, MIW

*Address (Res)*  
 Flat No. OPAL-501, M-Block,  
 Rainbow Vistas @ Rock Gardens,  
 Green Hills Road,  
 IDL Road, Moosapet,  
 Hyderabad – 500018  
 Tele: 040-48520259



Email: tjk.igc@nic.in, jayakumar200@gmail.com, jayakumar@nitw.ac.in  
 Formerly Group Director, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic  
 Research (IGCAR), Kalpakkam, Tamil Nadu

**JAYARAJ** **Mr. Raigiri Narayana** 2011  
 Raja Ramanna Fellow 1950 IX  
 BE  
 FNAE, FIChE, FAPAS, FIE, MIARP  
*Address (Off)* *Address (Res)*  
 Nuclear Fuel Complex, House No 8-131,  
 Department of Atomic Behind Ram Mandir,  
 Energy, ECIL PO, Temple Alwal,  
 Hyderabad Secunderabad - 500010  
 Tele: 040-27971581



Email: raigirij@gmail.com  
 Formerly Chairman & Chief Executive, Nuclear Fuel Complex, Department of Atomic  
 Energy, Hyderabad  
 Counc. 2019-2021; 2022-2024

**JAYARAJAN**

Chairman,  
 BARC Safety Council,  
 B.Tech (Mechanical Engineering)  
 FNAE, MINS, MAMPI, MINSARM, MNAARRI  
*Address (Off)*  
 Babha Atomic Research  
 Centre, Trombay,  
 Mumbai - 400 085  
 Tele: 022-25595307  
 Fax: 022-2550 5165

**Mr. Kutuvan Kannan**

1962  
*Address (Res)*  
 74, Shantiniketan,  
 Anushakti Nagar,  
 Mumbai- 400 094  
 Tele: 022-25500524

2011  
 III



Email: jayarajan.barc@gmail.com, kjayaraj@barc.gov.in, k\_jayarajan@yahoo.com  
 Former Head, BARC Safety Council Secretariat; Head, Tele-Manipulator Section, BARC

**JAYARAM**

Professor  
 B.A., Ph.D.  
 FNAE, FNASc., FASc., FNA, FIIM  
*Address (Off)*  
 Department of Materials  
 Engineering,  
 Indian Institute of Science,  
 Bangalore-560 012  
 Tele: 080-22933243  
 Fax: 080-23601198  
 Email: qjayaram@iisc.ac.in, qjayaram@yahoo.com

**Prof. Vikram**

1956  
*Address (Res)*  
 M-204, Brigade Gateway,  
 26/1, Rajkumar Road,  
 Malleswaram(West),  
 Bangalore-560 055  
 Tele: 080-23375110

2006  
 VIII

**JAYARAMAN**

BE, M.S, Ph.D  
 FNAE, FIETE, FIGU, MISRS, MISG, MASI  
*Address (Res)*  
 202, Ist Main Road,  
 ISRO Layout,  
 Bangalore-560 078  
 Tele: 080-26661637

**Dr. Venkatakrisnan**

1949

2009  
 X



Email: vjay202@gmail.com, vjay202@yahoo.com  
 Former Satish Dhawan Professor, ISRO and Director, National Remote Sensing Centre,  
 ISRO, Hyderabad  
 Counc.2016-18; 2019-2021

**JAYASIMHA**

Chairman

MS

FNAE, FIETE, SMIEEE

*Address (Off)*

Signion Systems Pvt. Ltd.

71 &amp; 72, ANRICH

Industrial Estate,

IDA Bollaram

Medak District – 502325

Telangana

Tele: 08458-279321

Fax: 08458-279320

Email: sjayasimha@hotmail.com

Former Member of Technical Staff, GTE Govt. Systems

Counc.2003-2004; and 2007-2008

**Mr. Sriram**

1957

*Address (Res)*

304, 6th Main Road,

HAL 2nd Stage,

Bangalore-560 038

Tele: 080-25255102, 25282824

1998

VI

**JHUNJHUNWALA**

Institute Professor

IIT Madras

Ph.D.

FNAE, FNA, FASc., FNAsc., FIEEE, FWWRf,

International Member, NAE(USA)

*Address (Off)*

ESB 331A, II Floor,

TeNeT Office,

Department of Electrical

Engineering, IIT Madras,

Chennai-600 036

Tele: 044-22574408

Fax: 044-22570120

Email: ashok@tenet.res.in

Counc.2007-2009

**Prof. Ashok**

1957

*Address (Res)*

C-2-02-05, III Loop Road,

IIT Campus, IIT Madras,

Chennai-600 036

Tele: 044-22570202

1994

VI

**JINDAL**

Chairman, JSW Group

B.E.(Mech)

FNAE, MIIM, MISA

*Address (Off)*

JSW Steel Ltd., JSW Centre,

Bandra Kurla Complex,

Bandra (East),

Mumbai-400 051

Tele: 022-42868118/8119

Fax: 022-42863000

Email: joyce.fernandes@jsw.in

**Mr. Sajjan**

1959

2016

III



**JOSEPH**

Honorary Distinguished  
Professor (ISRO)  
Ph.D.  
FNAE, FASc., FNASc.  
Address (Off)  
Space Applications Center  
Ahmedabad 380015

Tele: 079-26913348

Email: josephgeor@yahoo.com, georgead1@sancharnet.in

Formerly Director, SAC, ISRO, Ahmedabad; Formerly Director, CSSTEAP, Utrakhnad

**Dr. George**

1938

Address (Res)

No.12, Sector D1,  
Sterling City, Bopal  
Ahmedabad 380058  
(Gujrat)

Tele: 02717 231535

1996

VII

**JOSHI**

Emeritus Professor  
B.Chem. Engg., Ph.D.(Tech)  
FNAE, FNA, FASc., FTWAS, FMASc, Hon.FICh.E.,  
International Member, NAE(USA)

*Address (Off)*

Room No.222,  
Homi Bhabha National  
Institute, Training School  
Complex, Anushaktinagar,  
Mumbai-400 094

Tele: 022-25597625

Fax: 022-33611020

Email: jbjoshi@gmail.com

Former Director, Institute of Chemical Technology, Mumbai; DAE Homi Bhabha Chair Professor

**Prof. Jyeshtharaj  
Bhalchandra**

1949

*Address (Res)*

401, Shubha Ashirwad Society,  
5th Lane, Hindu Colony,  
Dadar (East),  
Mumbai-400 014

Tele: 022-4115448

2016

IV

**JOSHI**

B.Tech., M.S., Ph.D.  
FNAE, MMRSI, MIIM, MTSI, MPSSI, MILA

*Address (Res)*

Flat No.202,  
Gharonda Maitri Apartments,  
St. No.9, Himayatnagar,  
Hyderabad - 500029  
Tele: 040-27601453

Email: me.svjoshi@gmail.com, shrikant.joshi@hv.se

Formerly Associate Director, International Advanced Research Centre for Powder Metallurgy & New Materials (ARCI), Hyderabad

**Dr. Shrikant Vishwanath**

1960

2012

VIII



**JOSHI**

Director

B.E., M.E., Ph.D.

FNAE

*Address (Off)*

IIT Indore,

Khandwa Road, Simrol,

Indore 453552 (Madhya Pradesh)

Tele: 0731-2438700

Ext- 3111

Fax: 731 2438 710

Email: director@iiti.ac.in

Formerly Rahul Bajaj Chair Professor and Dean, Department of Mechanical Engineering, Indian Institute of Technology Bombay

**Dr. Suhas S.**

1968

2018

III

**JOSHI**

Pandit Girish &amp; Sushma

Rani Pathak Chair Professor

Ph.D.

FNAE, MSR(US), MISR, MIChE., MNASI

*Address (Off)*

Department of Chemical

Engineering,

IIT Kanpur,

Kanpur-208 016

Tele: 0512-6797993

Fax: 0512-6790104

Email: joshi@iitk.ac.in

**Prof. Yogesh Moreshwar**

1974

2016

IV

*Address (Res)*

FA/A 503,

IIT Kanpur,

Kanpur-208 016

Tele: 0512-6798365

**JUVEKAR**

BE, Ph.D

FNAE, MIChE

*Address (Off)*

Departmental of Chemical

Engineering,

IIT Bombay,

Powai, Mumbai - 400 076

Tele: 022-25767236 Tele: 022-25720955

Fax: 022-25726895

Email: vaj@iitb.ac.in

Formerly R&amp;D Manager, Industrial Processes (M) Ltd

**Prof Vinay Anant**

1948

2011

IV

*Address (Res)*

B-74/A, IIT Bombay,

Powai, Mumbai - 400 076

**KADAM**

Consultant  
M.Tech

FNAE, FSSI, FAeSI, FIETE, MAstrSI

*Address (Off)*

Directorate of Systems,  
Defence Research &  
Development Laboratory,  
Kanchanbagh PO,  
Hyderabad-500 058

Tele: 040-24340014

Fax: 040-24340014

Email: [nvkadam@rediffmail.com](mailto:nvkadam@rediffmail.com)

Formerly Associate Director, DRDL and Director, Weapon Systems, DRDL, Hyderabad

**Mr. Nivritti Vithoba**

1944

*Address (Res)*

East Delhi-110091

Tele: 09849352452

1996

VII

**KAKODKAR**

Chancellor, Homi Bhabha

National Institute,

Member, AEC and Chairman,

Rajiv Gandhi Science &

Technology Commission,

Govt. of Maharashtra

BE (Hons), M.Sc., D.Sc.(h.c.)

FNAE, FASc, FNASc, FIE, FIETE, MINS

*Address (Off)*

7th Floor, Central Complex,

Bhabha Atomic Research

Centre (BARC),

Trombay, Mumbai-400 085

Tele: 022-25505210

Fax: 022-25505110

Email: [kakodkar@barc.gov.in](mailto:kakodkar@barc.gov.in), [kakodkaranil@gmail.com](mailto:kakodkaranil@gmail.com)

Formerly Director, BARC, Mumbai; Formerly Chairman, Atomic Energy Commission and

Secretary, Department of Atomic Energy, Mumbai

Counc.-1993-95; Pres.-1999-2000

**Dr. Anil**

1943

*Address (Res)*

5/1104,

Accolade Cooperative Housing Society,

Hajuri Dargah Marg, Behind LIC,

Thane (W)-400 604

Tele: 022-25828899

1991

IX

**KALE**

B.Tech ,PG Training Course in BARC

FNAE, FIE, MINS, MISHMT, MIChE

**Mr. Ravindra Dattatraya**

1942

*Address (Res)*

Flat 9 , D Building

Runwal Paradise Coop Hsg Society

Bhusari Colony ( R ) Kothrud

Pune 411038

2002

IX



Email: [ravindrakale42@gmail.com](mailto:ravindrakale42@gmail.com)

Formerly Outstanding Scientist (Rtd) Group Director Fast Reactor Technology Group and  
Director Engineering Services Group, IGCAR, Kalpakkam

**KALYANARAMAN**

Programme Director,  
Special Initiatives, IBM Research-India  
Ph.D.  
FNAE, FIEEE

**Dr. Shivkumar**

1971

2015

II



Address (Res)  
B 1002, Mantri Astra,  
116/1, Chelekere Extn.,  
Kalyan Nagar,  
Bangalore-560 043

Fax: 080-67043961

Email: shivkuma@gmail.com

Formerly Chief Scientist, IBM Research- Australia

**KALYANARAMAN**

B.Sc., DMIT, MS  
FNAE, FIETE, MISRS, MAstr.SI

Address (Off)  
Department of Electronics  
and Communication,  
Dayananda Sagar College  
of Engineering,  
Bangalore-500 078

**Prof. Subramanyam**

1942

2000

VII



Address (Res)  
26, 8th Cross,  
ISRO Layout,  
Bangalore-560078

Tele: 080-26664243

Fax: 080-26660789

Email: kalyanarin@yahoo.co.in, skraman1942@gmail.com

Formerly Programme Director, IRS, ISRO Satellite Centre, Bangalore

**KALYANI**

Chairman & MD  
BE(Mech)(Hons), MS(MIT)  
FNAE, MASM

Address (Off)  
Bharat Forge Ltd.,  
Mundhwa,  
Pune-411 036

**Dr. Baba Neelkanth**

1949

2007

X



Address (Res)  
221/A,  
"Amit" Kalyani Nagar,  
Central Avenue,  
Road No -3, Yerawada,  
Pune - 411 006

Tele: 020-26657220

Tele:020-26823001

Fax: 020-26822512

Email: bkalyani@bharatforge.com

**KAMARAJ**

Professor  
M.Sc., M.Tech., Ph.D.  
FNAE, MIIW, MIWS, MIE(I)  
*Address (Off)*  
Department of Metallurgical  
and Materials Engineering,  
IIT Madras,  
Chennai-600036  
Tele: 091 44 2257 4769  
Email: kamaraj@iitm.ac.in

**Prof. M**

1961  
*Address (Res)*  
B-3 Lake View Road,  
IIT Campus, IIT Madras,  
Chennai-600036,  
Tamil Nadu  
Tele: 0091 44 22576769

2021  
VIII**KAMAT**

Director General,  
Naval Systems and Materials,  
DRDO  
B.Tech, Ph.D.  
FNAE, FIE, LMIIM, LMMRSI, LMMSI  
*Address (Off)*  
DG (NS&M) Office,  
NSTL Campus  
Vigyan Nagar,  
Visakhapatnam 530027  
Tele: 0891-2558961  
Fax: 0891-2558258  
Email: kamat@dmrl.drdo.in, samir.kamat64@gmail.com  
Former Director, Defence Metallurgical Research Laboratory, DRDO  
Counc.2019-2021

**Dr. Samir Venkatpati**

1964  
*Address (Res)*  
E-14/3, Lab Quarters,  
PO Kanchanbagh,  
Hyderabad-500058  
Tele: 040-24340734

2013  
VIII**KAMRA**

Emeritus Scientist  
B.Tech, Ph.D  
FNAE, FNAAS, LMISAE  
*Address (Off)*  
Division of Irrigation &  
Drainage Engineering,  
Central Soil Salinity  
Research Institute,  
Karnal-132 001 (Haryana)  
Tele: 0184-2209377 Tele: 0184-2231363  
Fax: 0184-2290480  
Email: sk.kamra@icar.gov.in,  
sushilkamra@yahoo.com  
Former Principal Scientist and Head, Division of Irrigation and Drainage Engineering,  
CSSRI, Karnal

**Dr. Sushil Kumar**

1954  
*Address (Res)*  
1587, Sector 9,  
Urban Estate,  
Karnal-132 001 (Haryana)

2009  
I



**KANT**

Professor Emeritus and  
INSA Senior Scientist  
Ph.D.

FNAE, FNA, FASc, FNASI, FNASc., FIE, FAeSI, FIASE,  
FIndACM, MISTE, MISTAM

*Address (Off)*

Department of Civil  
Engineering,  
IIT Bombay,  
Powai, Mumbai - 400 076  
Tele: 9969164646

Fax: 022-25767302

Email: tkant@civil.iitb.ac.in ; tkant1946@gmail.com

Formerly Head, Civil Engineering Department and Dean (Planning), IIT Bombay, Mumbai

**Prof. Tarun**

1946

1999

I

*Address (Res)*

201, Shree Ram Niwas,  
IIT Market, Powai,  
Mumbai-400 076

**KAPUR**

B.Sc., M.Sc., Ph.D.

FNAE, FASc., Foreign Assoc. NAE(US)

*Address (Res)*

R-485, New Rajinder Nagar,  
New Delhi-110 060  
Tele: 011-28742645

Email: pckapur@gmail.com

Formerly Professor, IIT Kanpur

**Prof. Prakash Chand**

1935

2006

VIII

**KAPURIA**

R. C. Malhotra

Chair Professor &

J. C. Bose National Fellow

B.C.E., M.E., Ph.D.

FNAE, FNA, FASc., FNASc

*Address (Off)*

Department of Applied  
Mechanics,

IIT Delhi, Hauz Khas,

New Delhi-110016

Tele: 011-26591218

**Prof. Santosh**

1968

2010

I

*Address (Res)*

Tele: 011-26581563

Email: kapuria@am.iitd.ac.in, s\_kapuria@hotmail.com

Former Director, CSIR-Structural Engineering Research Centre [SERC], Chennai; Former Coordinating Director, CSIR Madras Complex, Chennai; Former Director (Addl. Charge), Central Leather Research Institute, Chennai

**KAR**

Professor

Ph.D.

FNAE, SMIEEE

*Address (Off)*

Department of Electrical  
Engineering,  
Indian Institute of  
Technology Delhi,  
Hauz Khas,  
New Delhi-110016

Tele: 011-26581083

Email: ink@ee.iitd.ac.in, indra4@gmail.com

**Prof. Indra Narayan**

1966

*Address (Res)*

28, Vikramshila Apartment,  
IIT Delhi Campus,  
New Delhi-110016

2020

V

**KARANTH**

Ph.D.

FNAE, MIChE, MAMI, MSBC, MAFSI

**Dr. Naikanakatte Ganesh**

1946

*Address (Res)*

773, 12th Main,  
14th Cross,  
Saraswathipuram,  
Mysore-570009  
Tele: 0821-2544289

2002

IV



Email: ngkaranth@yahoo.com

Formerly Senior Deputy Director and Head, Fermentation Technology & Bioengineering  
Department, Central Food Technological Research Institute (CFTRI), Mysore

**KARTIKEYAN**

Professor

Ph.D.

FNAE, FIEEE, FIET, FIE, FIETE

*Address (Off)*

Department of Electrical  
Engineering  
Indian Institute of  
Technology Tiruapti  
Tirupati-Renigunta Road,  
Settipalli Post  
Tirupati 517 506, AP

Email: kartik@ieee.org, kartik@ec.iitr.ac.in

**Prof. Machavaram  
Venkata**

1961

2020

VI



**KASHYAP**

Head and Visiting Professor  
Ph.D.

FNAE, FNASc, MIIM, MMRSI

*Address (Off)*

Department of Metallurgical  
and Materials Engineering,  
IIT Jodhpur, NH62,  
Nagaur Road, Karwar,  
Jodhpur 342030

Tele: 8369700427

Email: bpk@iitj.ac.in

Formerly Professor and Head, Department of Metallurgical and Materials Engineering, IIT Bombay

**Prof. Bhagwati Prasad**

1948

2007

VIII



*Address (Res)*

Quarter # 3123, Type-B  
IIT Jodhpur, NH62,  
Nagaur Road, Karwar,  
Jodhpur 342030

Tele: 8369700427

**KASTURIRANGAN**

Chairman, Karnataka

Knowledge Commission,

Distinguished Professor Emeritus

Ph.D., D.Sc.(h.c.)

FNAE, FNA, FASc., FNASc., Dist.FIETE, FASI, MIPA,

Hon. Fellow AeSI, FTWAS, MPASc.

*Address (Off)*

National Institute of  
Advanced Studies (NIAS)  
Indian Institute of  
Science Campus

Bangalore 560 012

Email: krangank@gmail.com, krangan@iisc.ac.in

Formerly Chairman, Space Commission and Secretary, Department of Space, Bangalore;  
Formerly Director, National Institute of Advanced Studies, Bangalore; Formerly Member  
(Science), Planning Commission, New Delhi; Former Chancellor, JNU  
Counc.-1993-96; Pres.2005-2006

**Dr. Krishnaswamy**

1940

1989

VII



*Address (Res)*

Tele: 080-23445606

**KATTI**

Outstanding Scientist/  
Programme Director

ME

FNAE, FAstr.SI, MIMAPS(I)

*Address (Off)*

ISRO Satellite Centre,  
Govt. of India,  
Department of Space,  
Vimanpura P.O.,  
Bangalore-560 017

Tele: 080-25205258, 25082107

Fax: 080-25082199

Email: vrkatti\_in@yahoo.com

**Mr. Vadiraj Raghavendra**

1946

2006

VII



*Address (Res)*

# 603, 14th Cross,  
9th A Main, ISRO Layout,  
Bangalore-560 078

Tele: 080-26860332

**KAURA**

B.Tech, M.Tech  
FNAE

**Mr. Satish Kumar**  
1944

2003  
VI

*Address (Res)*  
B-407, New Friends Colony,  
New Delhi - 110 065  
Tele: 011-26837787

Email: [skkaura@samtelgroup.com](mailto:skkaura@samtelgroup.com)  
Former Chairman, Samtel Avionics Limited, New Delhi

**KAUSHIK**

Ph.D.  
FNAE, FPAS, FIE, FICI, FISE, FISET, FIGS, FIIBE, FABI,  
FIFS, FIV, FACCE, FIAStruct.E, MIRC, MIBC, MASCE,  
MACI-MC, MISWE, CE, PENG, MISNDT, MMRSI, MISTE  
*Address (Off)*  
Central Stores,  
Dera Baba Jaimal Singh,  
Beas-143204,  
Dist. Amritsar (Punjab)

**Prof. Surendra Kumar**  
1944

1999  
I

*Address (Res)*  
# R-273, Dera Baba Jaimal Singh,  
Beas-143 204,  
Dist. Amritsar (Punjab)

Tele: 01853-272346 Extn.227    Tele: 01853-272757-272346 Ext.514  
Fax: 01853-271850

Email: [surenkaushik@rediffmail.com](mailto:surenkaushik@rediffmail.com)

Formerly Professor and Head, Dept. of Civil Engineering, IIT Roorkee; Formerly President, Indian Concrete Institute, Chennai and Indian Society of Construction Materials & Structures, Roorkee; Honorary Distinguished Research Professor, ITM & Thapar University Counc.2001-2002; 2007-2009

**KELKAR**

Chairman  
Ph.D.  
FNAE

*Address (Off)*  
National Stock Exchange  
of India Ltd, 134/4-6,  
Ashok Nagar,  
Off Range Hill Road,  
Bhosale Nagar,  
Pune -411 007  
Tele: 020-25560069  
Fax: 020-25560068

**Dr. Vijay Laxman**  
1942

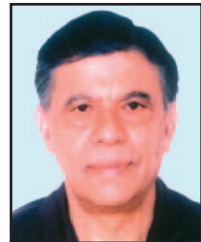
2005  
X

*Address (Res)*  
A-701, Blossom Boulevard  
Plot No. 421, South Main Road,  
Near Pingale Farm,  
Koregaon Park, Pune - 411001

Tele: 020-26109113

Email: [kelkar.vijay42@gmail.com](mailto:kelkar.vijay42@gmail.com)

Formerly Advisor to Minister of Finance



**KHAKHAR**

Ph.D.  
FNAE, FNA, FASc., MICh.E

Email: khakhar@iitb.ac.in  
Coun.2008-2009

**Prof. Devang Vipin**  
1959

*Address (Res)*  
7 Rajesh Mansion,  
140, M Karve Road,  
Mumbai-400 020  
Tele: 022-22874148

2001  
IV



**KHANDEKAR**

Sir M Visvesvaraya  
Chair Professor  
Ph.D.(Univ. of Stuttgart,Germany)  
FNAE, FIE, MIHMTS

*Address (Off)*  
Room SL-109,  
Department of Mechanical  
Engineering,  
IIT Kanpur,  
Kanpur-208016

Tele: 0512-2597038  
Fax: 0512-2597408

Email: samkhan@iitk.ac.in, samkhan.iitk@gmail.com

**Prof. Sameer**  
1971

*Address (Res)*  
4059, Type-IV, Lane 33,  
IIT Kanpur Campus,  
GT Road, Kalyanpur,  
Kanpur-208016

Tele: 0512-2598762

2019  
III



**KHANNA**

Independant Consultant  
Ph.D.  
FNAE, FNASc., FIE, Foreign Mem.  
Russian Academy of Engineering

Email: prof.skkhanna@gmail.com

Formerly Vice-Chairman, UGC; Former Chairman, AICTE; Former Chief Advisor, Sharda University, Greater Noida  
Counc.-1993-96

**Prof. Sudarshan Kumar**  
1932

*Address (Res)*  
Apartment 2C 045,  
Wellington Estate,  
DLF Phase - V,  
Gurgaon (Haryana)  
Tele: 9810116408

1987  
I



**KHAPARDE**

Ph.D.  
FNAE, SMIEEE

Email: sak@ee.iitb.ac.in  
Former Professor, IIT Bombay

**Prof. Shrikrishna Anant**  
1949

*Address (Res)*  
203, Sukh Apartments, 53,  
Jay Prakash Nagar,  
Goregaon (East),  
Mumbai-400 063

2019  
V

**KHILNANEY**

Director (Operations)  
B.E.(Chemical)  
FNAE

*Address (Off)*  
Heavy Water Board,  
DAE, 5th Floor,  
Vikram Sarabhai Bhawan,  
Anushaktinagar,  
Mumbai-400 094  
Tele: 022-25486520  
Fax: 022-25563360  
Email: vkk2904@gmail.com

**Mr. Vinod Kumar**  
1960

*Address (Res)*  
17 B, Annapurna,  
Anushakti Nagar,  
Mumbai-400094

Tele: 022-25561128

2018  
IV

**KIRAN KUMAR**

M Tech  
FNAE, MISRS, MASI, MIMA

Email: kiran\_seelin@yahoo.co.in  
Formerly Director, Space Application Centre (SAC), Ahmedabad (Gujarat); Former  
Chairman, Space Commission, Chairman, ISRO and Secretary, Dept of Space, Govt. of India

**Mr. Alur Seelin**  
1952

*Address (Res)*  
'VYOMA', 485/1,  
80 Ft. Road, RT Nagar,  
Bangalore-560 038  
Tele: 080-23557725

2010  
X



**KIRLOSKAR**

Chairman and Managing  
Director, Kirloskar Systems Ltd.  
B.S.(Mech Engg, MIT, USA)  
FNAE

**Mr. Vikram**

1958

2021

III

*Address (Res)*  
Kirloskar Residence,  
Kirloskar Business Park,  
Bellary Road, Hebbal  
Bangalore – 560024

Email: vikram.kirloskar@kirloskar.com

**KOILPILLAI**

Qualcomm Institute  
Chair Professor and Head,  
Department of Electrical  
Engineering

B.Tech (EE) Indian Institute of Technology Madras,  
1984MS (EE) California Institute of Technology,  
Pasadena, USA (1985)Ph.D. (EE) California Institute of Technology,  
Pasadena, USA (1991)  
FNAE, MIEEE

*Address (Off)*  
IIT, Madras,  
Chennai-600 036

**Prof. Ravinder David**

1962

2004

VI

*Address (Res)*  
B-9-8 Delhi Avenue,  
IIT Campus,  
Chennai-600 036  
Tamil Nadu

Tele: 044-22574405 / 4401

Tele: 044-22576405

Fax: 044-22570120

Email: davidk@iitm.ac.in; koilpillai@ee.iitm.ac.in

Former Professor & Dean (Planning)

**KONAR**

Professor  
Ph.D.  
FNAE, SMIEEE, FWBAS

*Address (Off)*  
Electronics and  
Telecommunication  
Engineering Department,  
Jadavpur University,  
Kolkata-700 032

**Prof. Amit**

1963

2015

II

*Address (Res)*  
Flat 215, HIG IIA, Ph.2,  
Calcutta Greens Housing Complex,  
1050/2, Survey Park, Kolkata-700075

Tele: 033-24162697

Email: konaramit@yahoo.co.in



**KOTA**

SERB Distinguished Fellow,  
CSIR-NAL  
Ph.D.  
FNAE, FAeSI, FNASc., FASc.

**Dr. Harinarayana**

1943

1999

VII

*Address (Res)*

NEB 3/401, Shriram Spandana,  
Challaghatta, Off Wind Tunnel Road,  
Bangalore-560 037  
Tele: 080-42019017



Email: hnkota@yahoo.com

Formerly Programme Director, ADA, Bangalore and President, Aeronautical Society of India, Bangalore; Formerly Vice-Chancellor, University of Hyderabad, Hyderabad; Formerly Raja Ramanna Fellow, Structures Division, NAL, Bangalore; Former Dr. DS Kothari DRDO Chair Professor, Aeronautical Development Establishment, Bangalore

**KOTESWARA RAO**

Advisor  
BE (Hons)  
FNAE, FIE

*Address (Off)*

Consolidated Quality  
Management Services,  
No.5, 2nd Link Street,  
CIT Colony, Mylapore,  
Chennai-600 004

Tele: 044-23454500

Fax: 044-24990225

Email: pckraol@gmail.com

Formerly Director-CEG, IGCAR, Kalpakkam; Formerly Consultant, National Centre for Biological Sciences, Bangalore

**Mr. Peeta China**

1940

2001

I

*Address (Res)*

Flat No.C-24,  
Kendriya Vihar,  
Velappan Chavadi,  
Chennai-600 077

Tele: 044-65165607

**KOTHARI**

Hon. Adjunct Professor  
BE, M.E., Ph.D.(BITS)

FNAE, FNASc, FIEEE, FIE(I), FIETE, Hon Fellow ISTE AMCSI

*Address (Off)*

Chamber No. 211,  
New Academic Block,  
EE Department,  
Visvesvaraya National  
Institute of Technology  
(VNIT), Nagpur – 440011

Tele: 8308802218 7972723202

Fax: 0712 2223969

Email: dpkvits@gmail.com,

dpk0710@yahoo.com

Formerly Vice-Chancellor, VIT Vellore, Director i/c, IIT Delhi; Deputy Director (A), IIT Delhi; Principal, VRCE Nagpur; Former Professor & Dean (R&D), JD College of Engineering & Management, Nagpur

**Prof. Dwarkadas Pralhaddas**

1944

2006

V

*Address (Res)*

102 Megh  
Yashudham Enclave,  
Prashant Nagar,  
Near Ajni Chowk,  
Wardha Road,  
Nagpur-440 015

Tele: 0712-2250444





**KOTHARI**

Accenture Technical Labs.,  
Fellow  
B.E.(Hons), M.S., Ph.D.  
FNAE, SMIEEE

**Dr. Ravi**  
1964

2015  
II

*Address (Res)*

C-28, Geetanjali Enclave,  
2nd Floor, New Delhi-110017

Email: ravi.kothari@gmail.com



**KOTTANTHARAYIL**

Professor  
Dr.-Ing (Ph.D. in Engg)  
FNAE, SMIEEE

*Address (Off)*

Department of Electrical  
Engineering, Indian Institute  
of Technology Bombay,  
Powai, Mumbai-400 076

Tele: 022-25767438

Email: anilkg@ee.iitb.ac.in

**Prof. Gopalan Anil**  
1971

2017  
VI



**KOTWAL**

Independent Director  
on Boards - Sanghvi Movers Ltd.  
& Kirlloskar Ferrous Industries Ltd,  
Member Board for Research in  
Nuclear Sciences,  
Member Pune International Centre,  
Member Advisory Board  
Pahle India Foundation  
B.E. (Mech)

**Mr. Madhukar Vinayak**  
1948

2008  
IX



FNAE, Member Board For Research in Nuclear Sciences, DAE

*Address (Res)*

A-1202, The Spires,  
Aundh-Baner Link Road,  
Near Irene Towers, Baner,  
Pune (Maharashtra)  
Tele: 020-65400110

Email: mvkotwal@gmail.com

Ex-Member of the L&T Board & President Heavy Engineering  
Counc.2016-18; 2019-2021

**KOUL**

Ph.D.

FNAE, FIETE, FIEEE

*Address (Off)*

Room No.320, Block III,

Centre for Applied

Research in Electronics,

IIT Delhi, Hauz Khas,

New Delhi-110 016

Tele :011-26591104, 26863165, 26591704

Fax: 011- 26596219

Email: [skkoul@care.iitd.ac.in](mailto:skkoul@care.iitd.ac.in), [shiban\\_koul@hotmail.com](mailto:shiban_koul@hotmail.com),  
[shiban\\_koul@yahoo.com](mailto:shiban_koul@yahoo.com), [s.k.koul@ieee.org](mailto:s.k.koul@ieee.org)**Prof. Shiban Kishen**

1954

*Address (Res)*

B-073, Gyandeep Apartments

Mayur Vihar Phase-1

East Delhi-110091

Delhi

1994

VI

**KRISHNA**

Ph.D.

FNAE, FIE, FISWE

**Prof. Prem**

1938

*Address (Res)*

B-033, Raheja Atlantis,

National Highway 08,

Sector 31-32A,

Gurgaon 122001

Tele: 0124-4226618

1987

I

Email: [pk1938@gmail.com](mailto:pk1938@gmail.com)Formerly Professor & Head of Civil Engg. Department, IIT Roorkee  
V.P.2008-2010 and 2011-2013**KRISHNA**

Ph.D., Eur.Ing.

FNAE, FASc., FICCh.E., CEng.(UK), MICh.E., MKIv.I.

*Address (Off)*

Van 't Hoff Institute for

Molecular Sciences

Science Park 904,

Amsterdam

The Netherlands

Tele:+31 20 525 5265

Fax: +31 20 525 5604

Email: [r.krishna@contact.uva.nl](mailto:r.krishna@contact.uva.nl)**Prof. Rajamani**

1946

*Address (Res)*

Plantagekade 11,

1018 ZV Amsterdam,

The Netherlands

1990

IV



**KRISHNA KUMAR**

Institute Professor,  
Perry L. Blackshear Institute  
Chair, IIT Madras  
Ph.D.  
FNAE

*Address (Off)*

Department of Engineering  
Design, Indian Institute of  
Technology Madras,  
Chennai-600 036  
Tele: 044-22578532  
Fax: 044-22570509, 22570545  
Email: rkkumar@iitm.ac.in

**Prof. Ramarathnam**

1956

2004

III

*Address (Res)*

11, Venkatrathnam Nagan Extn.,  
2nd Street, Adyar,  
Chennai-600 020

Tele: 044-24418170



**KRISHNA MOORTY**

M.Tech  
FNAE, SR.MIEEE, LMOSI, FISI, MSPIE

**Mr. Jayanti Ananta Rama**

1947

2001

X

*Address (Res)*

Flat No 501, Meghmala Classics,  
7-1-619/1, Gayatri Nagar,  
Ameerpet, Hyderabad - 500 038  
Tele: 040-23730490

Email: jarkrishnamoorty@yahoo.com  
Formerly Director, IRDE & Outstanding Scientist



**KRISHNA MURTHY**

Ph.D.  
FNAE

**Prof. Matammudra  
Venkata Ramaiah**

1941

1994

III

*Address (Res)*

#568, 10th Cross,  
15th Main,  
Padmanabha Nagar,  
Bangalore-560 070

Email: aatman41@yahoo.co.in  
Formerly Professor, Department of Mechanical Engineering, IISc., Bangalore; Formerly  
Director, V.I.T. University, Vellore



**KRISHNADAS NAIR**

Chancellor,  
Jain University Honorary,  
President, Society of Indian  
Aerospace Technologies &  
Industries (SIATI)

B.Tech Metallurgical Engg, IIT Madras. ME Mechanical Engg & Ph.D,  
Metal Fatigue (University of Saskatoon, Canada)

FNAE, FAe.SI, FIE, Hon. Fellow, IIM

*Address (Off)*

Society of Indian Aerospace  
Technologies & Industries  
(SIATI), AeSI Building,  
Suranjandas Road,  
Off. Old Madras Road,  
Bangalore-560 075 (Karnataka)

Tele: 080-25219951, 25275262

Fax: 080-25292440

Email: krishnadnair@hotmail.com, cgkn@siati.org

Formerly Chairman, Hindustan Aeronautics Ltd , Bangalore.

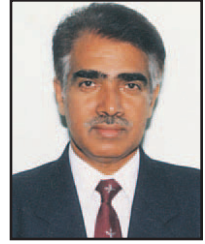
Counc.2010-2012; 2013-15

**Dr. Chandrathil Gouri**

1941

1992

VIII

*Address (Res)*

'Chandrathil Mane', No.2388/1,  
16th 'A' Main, HAL II Stage,  
Kodihalli, Indiranagar,  
Bangalore-560008  
(Karnataka)

Tele: 080-25272258

**KRISHNAMURTY**

Ph.D.

FNAE, FASc., FAe.SI, FIE, AFAIAA

**Prof. Achyutuni Venkata**

1938

1994

VII

*Address (Res)*

8, 5th Main, NTI Layout,  
RMV II Stage, Nagasettihalli,  
Bangalore-560094  
Tele: 080-23410116

Email: avkrishnamurty@yahoo.co.in

Formerly Professor of Aerospace Engg., IISc.,Bangalore

**KRISHNAN**

Former L&T Chair,

MSU, Baroda

B.E., M.Tech, Ph.D.

FNAE, FIIW, FIE, LMINS, LMISNT, LMIVSc.

**Dr. J.**

1949

2009

III

*Address (Res)*

2/48, Cosmopolitan Cooperative  
Housing Society, Sector 9A,  
Vashi, Navi Mumbai-400703  
Tele: 022-27650821

Email: j.krishnan23@gmail.com

Formerly Head, Manufacturing, CDM, Bhabha Atomic Research Centre (BARC), Mumbai;  
and Sr.GM, Planning & Tech, BFTL,

Indore; Former L&T Chair, MSU, Baroda



**KRISHNAPURAM**

Distinguished Member of  
Technical Staff

Ph.D

FNAE, FIEEE, MACM

*Address (Off)*

Robert Bosch Centre for  
Cyber-Physical Systems  
Indian Institute of Science  
Bangalore-560012

Tele :080-23600644

Extn: 110 Tele: 080-23669851

Fax: 080-2293 2046

Email: kraghu@iisc.ac.in, rkrishnapuram@yahoo.com

Formerly Senior Manager, Knowledge Management, IBM Research - India; Former Associate Director, IBM Research - India, Bangalore; Former Head, R&D and IP Cell, Ramaiah Institute of Technology, Bangalore

**Dr. Raghu**

1956

2014

II



*Address (Res)*

851 Swiss Town,  
Sadahalli Post  
Devanahalli Taluk  
Bangalore Rural 562110

**KRITHIVASAN**

Ph.D.

FNAE, MCSI, MISTE

**Prof. Kamala**

1948

2007

II



*Address (Res)*

87 (Old No.44),  
Sri Padmanaba Nagar,  
5th Street, Adyar,  
Chennai-600 020  
Tele: 044-24919886

Email: kamalacrithi2002@yahoo.co.in, kamala.krithivasan@gmail.com

Formerly Professor and Head, Department of Computer Science and Engineering, IIT Madras, Chennai  
Counc.2018-2020

**KRUPANIDHI**

Ph.D.

FNAE, FASc., FNA

*Address (Off)*

Materials Research Centre,  
Indian Institute of Science,  
Bangalore - 560012

Tele: 080-22932781

Fax: 080-23607316

Email: sbkenator@gmail.com

**Prof. Saluru Baba**

1951

2012

X



*Address (Res)*

#164, 2nd Cross,  
Central Excise Layout,  
Bhoopasandra,  
Bangalore - 560094  
Tele: 080-23418550

**KUDCHADKER**  
 Professor Emeritus,  
 IIT, Bombay  
 Ph.D.  
 FNAE, FAICh.E, FICh.E, Tau Beta Pi,  
 Phi Lambda Upsilon, Sigma Xi

**Prof. Arvind Pandurang** 1994  
 1934 IV



*Address (Res)*  
 H-10, Susheg,  
 Dattaguru Society,  
 Mahalaxmi Mandir Marg,  
 Deonar, Mumbai - 400088  
 Tele: 022- 25563696

Email: arvindk@echeguru.com

Formerly Director General, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat

**KULKARNI**  
 Senior Principal Scientist  
 B. Chem. Eng., M. Chem. Eng., Ph.D.(Tech.)  
 FNAE

**Dr. Amol Arvindrao** 2021  
 1976 IV



*Address (Off)*  
 Chemical Engineering and  
 Process Development  
 Department, National  
 Chemical Laboratory,  
 Dr. Homi Bhabha Road,  
 Pashan, Pune - 411008  
 Tele: 020 - 25902153  
 Fax: 020 - 25902622  
 Email: aa.kulkarni@ncl.res.in, amol.kulkarni@gmail.com

*Address (Res)*  
 D-2-24, NCL Colony,  
 Dr. Homi Bhabha Road,  
 Pashan, Pune – 411008  
 Tele: 020 - 25884518

**KULKARNI**  
 Professor  
 Ph.D.  
 FNAE, SMIEEEE, MIEI

**Prof. Anil** 2020  
 1970 V



*Address (Off)*  
 C-140, CSRE Bldg,  
 IIT Bombay, Powai,  
 Mumbai 400076  
 Tele: 022-25767416  
 Fax: 022-25723707  
 Email: anil@ee.iitb.ac.in

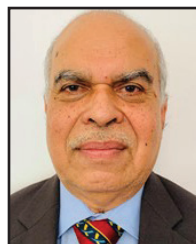
**KULKARNI** **Prof. Giridhar Udapi Rao** 2021  
 President 1963 X  
 B. Sc., M. Sc., Ph.D.  
 FNAE, FNASc., FASc., FAPAM, FNA  
*Address (Off)* *Address (Res)*  
 Jawaharlal Nehru Centre #54, Tulsi, 3rd Phase,  
 for Advanced Scientific Royal Enclave, Srirampura,  
 Research (JNCASR) Jakkur, Jakkur, Bengaluru North 560064,  
 Bengaluru- 560064, India, Karnataka  
 Karnataka, India,  
 Tele: 080 2208 2752  
 Email: kulkarni@jncasr.ac.in  
 Former Director, Centre for Nano and Soft Matter Sciences, Bengaluru



**KULKARNI** **Dr. Mohan Gopalkrishna** 2005  
 Emeritus Scientist 1950 IV  
 Ph.D.  
 FNAE, FASc., MSPSI, MMRSI  
*Address (Off)* *Address (Res)*  
 URDIP Unit for Research and Development of  
 Information Products  
 National Chemical Laboratory Campus,  
 Pashan, Pune 411 008  
 Tele:020-25383557 Tele: 020-25882189  
 Fax: 020-25902618  
 Email: kulkmohan@gmail.com  
 Formerly Head, Polymer Science and Engineering Division, National Chemical Laboratory, Pashan, Pune



**KULKARNI** **Dr. Ravindra D.** 2020  
 Managing Director 1948 IV  
 B.Sc., B.E. M.S., Ph.D.  
 FNAE, International Member, NAE(USA)  
*Address (Off)* *Address (Res)*  
 Elkay /chemicals Pvt. Ltd., 286/3/1 Pallod Farms,  
 Bremen Business Centre, III, Soham, Baner,  
 5th Floor, 2652 University Pune 411045, India  
 Road, Aundh,  
 Pune, 411007, India  
 Tele: 98 223 91891  
 Email: ravi.kulkarni@elkaysilicones.com



**KULKARNI**

Professor, EE Dept & Dean  
(Administrative Affairs)  
Ph.D.

FNAE, FIEEE, FIETE, LMNASI, LMISTE

*Address (Off)*

Department of Electrical  
Engineering,

IIT Bombay, Powai,  
Mumbai - 400076

Tele: 022-25767430

Fax: 022-25723707

Email: svk@ee.iitb.ac.in

**Prof. Shrikrishna  
Vyankatesh**

1967

2012

V

**KULKARNI**

Distinguished  
Chief Scientist

B Tech (Elec Engg); M S (Elec Engg)

FNAE, SMIEEE, MACM

*Address (Off)*

Tata Research Development  
& Design Center,

Tata Consultancy Services,  
54B, Industrial Estate,  
Hadapsar, Pune-411013, India

Tele: 020-6608 6333

Fax: 020-6608 6399

Email: vinay.vkulkarni@tcs.com

Chief Scientist

**Mr. Vinay Vasant**

1966

2016

II



*Address (Res)*

B-13, Chidanand Housing Society  
Sus Road, Pashan,  
Pune, 411021, India

Tele: 020-2587 0095

**KUMAR**

Secretary,  
BTech, MS, Ph.D  
FNAE

*Address (Off)*

Department of Defence,  
Govt of India

Ministry of Defence,  
Room No.101-A, South Block,  
New Delhi - 110 011

Tele:011-23012380

Email: ajay@gov.in

Former Defence Production Secretary

**Dr. Ajay**

1962

2021

V





**KUMAR** **Prof. Anurag** 1999  
 Honorary Professor 1955 VI  
 Ph.D., B. Tech  
 FNAE, FIEEE FNA, FTWAS, FASc  
*Address (Off)* *Address (Res)*  
 Dept. of Electrical 23 UAS Layout,  
 Communication Engineering, RMV Extn. Stage II,  
 Indian Institute of Science, Bangalore-560094  
 Bangalore 560 012  
 Tele: 8022932281 Tele: 080-23415032  
 Email: anurag@iisc.ac.in, anurageciisc@gmail.com  
 Former Director, Indian Institute of Science, Bangalore  
 Counc.2021-2023



**KUMAR** **Dr. Chandrakanta** 2020  
 Scientist/ Engineer-'SG' 1976 VI  
 M.Sc., M. Tech., PhD  
 FNAE, FIETE, SMIEEE,USA, LMAstr.SI  
*Address (Off)* *Address (Res)*  
 Communication Systems Flat No 201, Sri Sai Jyothi Greens,  
 Group, U R Rao Satellite 1st Main, Nagappa Reddy Layout,  
 Centre, Vimanapura PO. Kaggadasapura,  
 Bangalore 560017 Bangalore 560093  
 Tele: 080-2508 3359 Tele: 080-4853 8326  
 Fax: 080-2508 3303  
 Email: kumarchk@gmail.com; kumarchk@ursc.gov.in



**KUMAR** **Lt Gen (Retd) Davinder** 2000  
 1946 VI  
 B.Tech, ME, M.Phil, MA(Def. Studies)  
 FNAE, FIETE, FBES, FNTF, FIMA, MCSI, MISC, CMASIS  
*Address (Res)*  
 H.No.2911-H,  
 Sector 23,  
 Gurgaon-122 001  
 (Haryana)  
 Fax: 0124-4259050  
 Email: dickeyk@gmail.com  
 Formerly Signal Officer-in-Chief, Army Headquarters



**KUMAR**

Distinguished  
Research Advisor  
M.Sc., Ph.D.

FNAE, FIETE, SMIEEE, MIVS, FMSI, FVEDAS

*Address (Off)*

Department of Electronics  
& Telecommunication  
Engineering, Siddaganga  
Institute of Technology,  
Bengaluru-Honnar Road,  
Tumakuru,  
Karnataka 572103

Tele: 0816 2282695

Email: dr\_lalitkumar@hotmail.com, dr.kumarlalit@sit.ac.in

Ex-Director, MTRDC, DRDO, Bangalore; Ex-Chairman, CEPTAM, DRDO, Delhi

**Dr. Lalit**

1953

2015

VI

**KUMAR**

Professor  
B. Tech., M. E, Ph.D.

FNAE, SMIEEE, MPES, MPEL, MIES

*Address (Off)*

ESB 349A,  
Department of Electrical  
Engineering,  
I.I.T. Madras,  
Chennai- 600036

Tele:044-22574429

Fax: 044-2257 4402

Email: mahesh@ee.iitm.ac.in

**Prof. Mahesh**

1967

2017

V

**KUMAR**

Vice-Chairman

BE (Electronics & Communication Engineering)

FNAE, FIETE, LMIEEE

*Address (Off)*

The Sanmar Group  
9, Cathedral Road  
Chennai - 600 086

Tele: 044-28128800

Email: nk1@sanmargroup.com

**Mr. Narayanan**

1950

1999

VI



*Address (Res)*

No.1, George Avenue,  
Door No.1, Kasturi Estate,  
2nd Street & George Avenue,  
Alwarpet, Chennai-600 018

Tele: 044-24991199

**KUMAR**

Deputy Director  
B.Sc.(Engg), Ph.D.  
FNAE, MISNDT, MINS

*Address (Off)*

ITER,  
Saint Paul Less Durance,  
France

Tele:+33 609781083

Email: prabhat\_npc@yahoo.com

Former Chairman & Managing Director, Bharatiya Nabhikiya Vidyut Nigam Ltd. (BHAVINI), Kalpakkam

**Dr. Prabhat**

1950

*Address (Res)*

Tele: 044-27484122

2014

IX

**KUMAR**

Associate Professor  
B.Tech., M.Sc.(Engg), Ph.D.(Mech Engg)  
FNAE, MASME, LMISHMT

*Address (Off)*

Department of Mechanical  
Engineering,  
Indian Institute of Science,  
Bangalore-560012

Tele: 080-22933521

Email: pramod@iisc.ac.in

Former Assistant Professor, Department of Mechanical Engineering, IISc., Bangalore

**Dr. Pramod**

1975

2020

III

**KUMAR**

Ph.D.  
FNAE, FNA, FASc.

*Address (Off)*

Department of Chemical  
Engineering,  
Indian Institute of Science,  
Bangalore-560 012

Tele:080-23942320

Fax: 080-23608121, 23600683

Email: kumar@iisc.ac.in

VP.-1995-98; Counc.-2003-2004

**Prof. Rajinder**

1934

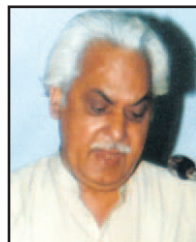
*Address (Res)*

47/1, 7th Cross,  
5th Main, Malleswaram,  
Bangalore-560 003

Tele: 080-23346394

1987

IV



**KUMAR**

Outstanding Scientist & Head  
B.E.(Elect. & Telecomm Engg.)  
FNAE

*Address (Off)*

Department of Atomic  
Energy, 2nd Floor,  
OYC Building, CSM Marg,  
Mumbai-400001  
Tele: 022-22043041  
Fax: 022-22043041  
Email: ranajitk@dae.gov.in

**Mr. Ranajit**

1962  
Address (Res)  
13, Nandadevi,  
Anushakti Nagar,  
Mumbai-400 094

Tele: 022-25566968

2019  
X

**KUMAR**

Managing Director,  
B.Tech.  
FNAE

*Address (Off)*

Energy Efficiency Services  
Limited (EESL),  
7th Floor, Core 3,  
NFL Building,  
Scope Complex,  
Lodhi Road,  
New Delhi-110003  
Tele: 011-45801262  
Fax: 011-45801265  
Email: skumar@eesl.co.in

**Mr. Saurabh**

1967  
Address (Res)  
BI, Tower 8, Type VI,  
Kidwai Nagar East,  
New Delhi-110 023

2018  
IX

**KUMAR**

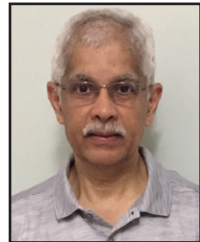
Honorary Professor  
Ph.D.(Elect. Engg.)  
FNAE, FIEEE, FASc, FNA  
*Address (Off)*

Department of Electrical  
Communication Engineering,  
Indian Institute of Science,  
Bangalore-560012  
Tele: 9945179215  
Email: pvk1729@gmail.com

**Panganamala Vijay**

1955

2014  
VI



Formerly Chairman and Professor, ECE, IISc., Bangalore

**KUMAR****Dr. Vikas**

2019

1959

VIII

B.E.(Metallurgical Engg), M.Tech.(Metallurgical Engg), Ph.D.  
FNAE, FIIM, FIE, LMAeSI, LMISNT

*Address (Res)*  
8/9/78, Dhatu Nagar,  
Kanchanbagh,  
Hyderabad-500058  
Tele: 040-24341831



Email: vikas.dmrl@gmail.com

Former Distinguished Scientist and Director, Defence Metallurgical Research Laboratory, Kanchanbagh, Hyderabad

**KUMAR****Dr. Vikram**

2009

1947

VI

Honorary Professor,  
B.Sc., M.Sc., M.S., Ph.D.  
FNAE, FNASI, FIETE

*Address (Off)*  
Solid State Physics  
Laboratory  
Delhi 110054

*Address (Res)*  
165, Prodyogiki Apartments,  
Plot 11, Sector 3, Dwarka,  
New Delhi-110 075

Tele: 011 23903415 Tele: 9891270409

Email: vkmr47@gmail.com, vkmr@iitd.ac.in

Formerly Dr Raja Ramanna DRDO Distinguished Fellow,  
Professor/Emeritus Professor, IIT Delhi

Director, CSIR-NPL Delhi

Director, SSPL (DRDO) Delhi; Faculty, Indian Institute of Science Bangalore

**KUMAR****Mr. Yesh Pal**

2005

1947

X

B.E., PG Dip.(Proj.Planning)  
FNAE, FIE, MMRSI, MRANS, MIWS, MAPAM

*Address (Res)*  
B-17 (Second Floor),  
Geetanjali Enclave,  
New Delhi-110 017  
Tele: 011-26693600



Email: kumaryp@hotmail.com

Formerly Advisor and Head (International Cooperation), Department of Science & Technology, New Delhi; Councillor (S&T), Embassy of India, Moscow; Formerly Senior Advisor, Council for Scientific & Industrial Research, New Delhi

**KUMARAN**

B.Tech, Ph.D.  
 FNAE, FASc., FNA  
*Address (Off)*  
 Department of Chemical  
 Engineering,  
 Indian Institute of Science,  
 Bangalore-560 012  
 Tele: 080-22933112  
 Fax: 080-23608121  
 Email: kumaran@iisc.ac.in

**Prof. V**  
 1966

*Address (Res)*  
 NE-120,  
 Indian Institute of Science,  
 Bangalore-560 012

Tele: 080-23601034

2006  
 IV

**KUMARASWAMY**

Professor  
 B.Tech, M.S., Ph.D.  
 FNAE, FAPS  
*Address (Off)*  
 Department of Chemical  
 Engineering,  
 Indian Institute of  
 Technology Bombay,  
 Powai, Mumbai-400 076  
 Tele: 022-25764239  
 Email: guruswamy@iitb.ac.in

**Dr. Guruswamy**  
 1973

*Address (Res)*  
 A-501, Gold Coast,  
 Ivory Estates  
 (Near Hotel Greenpark),  
 Banner Road, Pune-411 008

2019  
 IV

**KUNDU**

Honorary Visiting Professor,  
 Indian Statistical Institute,  
 Kolkata  
 M.Tech, Ph.D.  
 FNAE, FIAPR (USA, FNASc, FIETE, LSMIEEE (USA)  
*Address (Off)*  
 Machine Intelligence Unit,  
 Indian Statistical Institute,  
 203, B.T. Road,  
 Kolkata-700 108  
 Tele: 033-25753108  
 Fax: 033- 25783357  
 Email: malay@isical.ac.in, malay@alum.mit.edu, kundumk@gmail.com  
 Formerly Professor (HAG) Machine Intelligence Unit, Indian Statistical Institute, Kolkata

**Prof. Malay Kumar**  
 1948

*Address (Res)*  
 130, Ramdulal Sarkar Street,  
 Flat No.M2,  
 Kolkata-700 006

Tele: 033-22570226

2006  
 II



**KUNHIKRISHNAN****Mr. P**

2017

VII

Director  
B.Tech (Electronics & Communication)  
FNAE, MASI, MISSSE

*Address (Off)*

U R Rao Satellite Centre (URSC)  
Old Airport Road  
Vimanapura Post,  
Bengaluru - 560 017  
Tele:080 2508 4383

Email: director@ursc.gov.in, kunhikrishnan\_p@yahoo.com

Former Project Director, Polar Satellite Launch Vehicle (PSLV); Former Director, Satish Dhawan Space Centre, SHAR, ISRO, Sriharikota, Sri PSR Nellore District, Andhra Pradesh

**KUNZRU****Prof. Deepak**

2002

IV

Distinguished Professor

Ph.D.

FNAE, MIChE, FNASc

*Address (Off)*

School of Engineering &  
Applied Science,  
Ahmedabad University,  
GICT Building,  
Central Campus, Navrangpura,  
Ahmedabad-380009

Tele: 7048002882

Fax: 079-26440396

Email: dkunzru@iitk.ac.in

Formerly Dean, Research & Development, IIT Kanpur; and Former Emeritus Professor, Department of Chemical Engineering, Indian Institute of Technology Kanpur, Kanpur

1947

*Address (Res)*

701, Sangath Diamond Tower,  
Motera,  
Ahmedabad-380 005

Tele: 9936335523

**KUSHWAHA****Mr. Hari Shankar**

2000

III

Raja Ramanna Fellow

B.Sc., M.Tech

FNAE, MINS

*Address (Off)*

Hall # 7, RSD,  
Reactor Design &  
Development Group,  
Bhabha Atomic Research  
Centre, Trombay,  
Mumbai-400 085

Tele: 022-25593705

Email: kushwaha746@gmail.com

Formerly Distinguished Scientist & Director, Health, Safety, & Environment Group, HS&E Group Office, BARC, Mumbai

*Address (Res)*

Flat No. L-485,  
Raghunath Vihar,  
Army Welfare Society,  
Sector - 14, Kharghar,  
Navi Mumbai -410210

Tele: 022-27740215



**KUTUMBARAO**

**Prof. Vinnakota  
Venkatapurna**  
1944

2001  
VIII



Ph.D.  
FNAE, FIIM, MAPAM, MMRSI

*Address (Res)*  
401, Trident Exotica,  
Street No.7, Lane No.2,  
West Maredpally,  
Secunderabad-500 026  
Tele: 040-27802349, 65556393

Email: rao.vvk@gmail.com

Formerly Director, Jawaharlal Nehru Aluminium Research Development and Design Centre (JNARDDC), Nagpur; Formerly Principal, College of Engineering, Gandhi Institute of Technology and Management, Visakhapatnam; Formerly Honorary Visiting Scientist, DMRL, Hyderabad  
Counc.2005-2006

**LAHIRI**

**Prof. Samir Kumar**  
1943

2002  
VI



Ph.D.  
FNAE, SMIEEE

*Address (Res)*  
FORTUNE CITY, Flat Q-303,  
155 Old Jessore Road,  
PO: Ganganagar Madhyamgram,  
Kolkata-700 132  
Tele: 033-65291188

Email: sklsmooth@gmail.com

Formerly Deputy Director and Advisor, SRIC, IIT Kharagpur

**LAKKAD**

**Prof. Subhash Chandra**  
1943

2002  
VII



Ph.D.  
FNAE, FASI, MMRSI  
Address (Off)  
Department of Aerospace  
Engineering,  
Indian Institute of  
Technology, Powai,  
Mumbai-400076  
Tele: 022-25767107  
Fax: 022-25722602  
Email: scsl@aero.iitb.ac.in, sclakkad@yahoo.com

*Address (Res)*  
8D, Anjaneya C.H.S.,  
Opp. Hiranandani Foundation School,  
Orchard Avenue, Powai,  
Mumbai-700 076  
Tele: 022-2579864



**LAKSHMANA GOWDA**      **Prof. Bangalore Hanumaiah**      2001  
1942      I

Ph.D.  
FNAE, FAeSI, Assoc.FAIAA

*Address (Res)*  
No.575, 24th Main,  
14th Cross, J.P. Nagar,  
1st Phase, Bangalore-560 078



Email: bhlgowda@yahoo.com

Formerly Professor, Department of Applied Mechanics, Indian Institute of Technology Madras, Chennai

**LAKSHMINARAYANAN**      **Dr. PA**      2013  
1949      III

B.Tech, M.S., Ph.D.  
FNAE, FSAE, MISEES, MCI, MInSIS

*Address (Res)*  
Old 99, New 201,  
Thambu Chetty Street,  
1st floor, Chennai-600001



Email: lakshminarayananloganayagi@gmail.com

Former Technical Advisor and Chief Technical Officer, Simpson & Co. Ltd., Chennai; Former Head, Engine R&D, Ashok Leyland Ltd., Hosur; Former General Manager, Technical Centre, Kirloskar Oil Engines Ltd., Pune

**LAL**      **Prof. Govind Kumar**      1999  
1938      III

Ph.D.  
FNAE, Fellow ASME, FIE, PE

*Address (Res)*  
Mandakini, 184,  
Barasirohi, Shivli Road,  
Kanpur-208016  
Tele: 0512 2150158



Email: gklal@iitk.ac.in

Former Professor, Department of Mechanical Engineering Dept., Indian Institute of Technology Kanpur

**LAL****Mr. Mahesh B**

2003

1947

IV

B.Tech

FNAE, Hon.Fellow,UDCT, MDCAAI

*Address (Res)*

K-2009, Royale Garden Estate,

E-12, Sector 61,

Noida-201 307

Email: maheshblal@gmail.com

Formerly Director (Refineries), Bharat Petroleum Corporation Ltd.; Formerly Chairman & Managing Director, HPCL, Mumbai; Formerly Technical Member (P&NG), Appellate Tribunal for Electricity, New Delhi

**LALITHAMBIKA****Dr. V R**

2020

1962

VII

Ph. D.

FNAE, FIE, LMSSI, LM AeSI, LMASI

*Address (Res)*

TC 31/455(1), Sruthy,

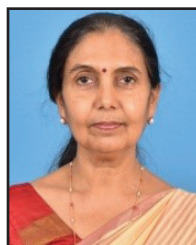
Madhumukku, Anayara,

Thiruvananthapuram- 695029

Tele : 9496020051

Email: vrlalithambika@gmail.com

Formerly Distinguished Scientist and Director, Directorate of Human Space Programme, ISRO Headquarters, Bangalore; Formerly Deputy Director, Vikram Sarabhai Space Centre, Thiruvananthapuram  
Counc.2022-2024

**LELE****Dr. Ashish K**

2004

1967

IV

Ph.D.

FNAE, MIPI, MSR(US), MSPSI

*Address (Res)*

Apartment No.68,

NCL Colony, Pashan Road,

Pune-411 008

Tele: 020-5893089

Email: aklele@gmail.com

Former Scientist E-1, Complex Fluids, Polymer Engineering Group, Polymer Science & Engineering Division, National Chemical Laboratory, Pune



**LELE**

Ph.D.

FNAE, FNA, FIIM, FNASc.,FASc.

**Prof. Shrikant**

1943

2007

VIII

*Address (Res)*  
 Plot No.377,  
 Lane No.16,  
 Mahatma Society,  
 S/No.62+65,  
 Kothrud, Pune-411 038  
 Tele: 020-2536 0906



Email: drslele@gmail.com

Formerly Director, Institute of Technology, BHU; and Formerly Rector, Banaras Hindu University, Varanasi

**LIKHI**

Adjunct Professor

Ph.D.

FNAE, MIIM, IIMM, MNIPM

*Address (Off)*IIT Roorkee,  
Uttarakhand**Dr. Dinesh Kumar**

1960

2016

VIII

*Address (Res)*  
 J-604, IREO Grand Arch  
 Sector 58  
 Gurugram-122101  
 (Haryana)



Email: dinesh.likhi@ms.iitr.ac.in, dinesh\_likhi@hotmail.com, dr.dineshlikhi@gmail.com

Formerly Chairman &amp; Managing Director, Mishra Dhatu Nigam Limited (MIDHANI), Hyderabad

**LODHA**

Professor

B.Tech., M.S., Ph.D.

FNAE, SMIEEE

*Address (Off)*Department of Electrical  
Engineering,  
IIT Bombay,  
Powai, Mumbai- 400076,  
Tele:022-25767460**Prof. Saurabh**

1977

2021

VI

*Address (Res)*  
 B-148, Ananta Building,  
 Hillside, IIT Bombay,  
 Powai, Mumbai-400076



Tele: 022-25768460

Email: slodha@ee.iitb.ac.in, saurabh.lodha@gmail.com

**MADAN** **Mr. Man Mohan** 2013  
Chairman 1954 I

(Hydro & Tunnelling Group),  
ASSOCHAM India  
B. Tech (Civil), DIM, PGDHRM, MBA  
FNAE, FIE, FIV(I), CE(I),  
LMISRMTT, MIHPA

*Address (Off)*

ASSOCHAM  
Corporate Office, 5,  
Sardar Patel Marg,  
Chanakyapuri,  
New Delhi- 110021

Tele:011-46550555

Fax: 011-23017008/9

Email: mmmadan2007@gmail.com, mmmadan2001@yahoo.co.uk

Former CEO (Hydro & Renewables), JPL, President (APPCA), CEO(BD Hydro), GVK Infra  
CEO(Malana & AD Hydro), LNJB Group, Executive Director(NHPC)

*Address (Res)*

H.No- 704, Shiva Apartment,  
Sector- 21D,  
Faridabad-121001, Haryana

Tele: 0129 4004555, 9971814445



**MADHAV** **Prof. Madhira Radha** 1996  
Professor Emeritus and 1940 I  
Visiting Professor,

IIT Hyderabad

Ph.D., D.Sc.

FNAE, FIE, FIGS, MIALT, MISSMGE

*Address (Off)*

Department of Civil  
Engineering,  
J.N. Technical University,  
College of Engineering,  
Hyderabad-500 085

*Address (Res)*

159, Road No.10,  
Banjara Hills,  
Hyderabad-500 034

Tele: 040-23396236

Email: madhavmr@gmail.com

Formerly Professor, Department of Civil Engineering, Indian Institute of Technology, Kanpur  
Ed. Pub.-2001-2002 and 2003-2004



**MADHAVAN** **Prof. Krishnan Pozhath** 2003  
1937 IV

Ph.D.

FNAE

*Address (Res)*

3D, Anjaneya Cooperative Housing  
Society, Opp. Hiranandani Foundation  
School, Orchard Avenue, Powai,  
Mumbai-400 076

Tele: 022-25724066

Email: kp\_madhavan@yahoo.com

Formerly Professor, Chemical Engg. Dept., IIT Bombay



**MADHUSUDHAN REDDY** **Dr. G** 2014  
 Outstanding Scientist 1963 VIII  
 & Director  
 B.Tech, M.E., Ph.D.  
 FNAE, FASM, FAPAS, FIIM, FIWS, FIW, FIE, FTAS, MSFA,  
 MMRSI, MISNDT, MSAME, MISAMPE  
*Address (Off)* *Address (Res)*  
 Defence Metallurgical H.No.IP-125,  
 Research Laboratory Indraprastha Township,  
 (DMRL), Phase #1, Saidabad,  
 Ministry of Defence, Hyderabad-500059  
 Govt. of India, DRDO,  
 Kanchanbagh,  
 Hyderabad-500058,  
 Telangana  
 Tele: 040-24340681, 24340233 Tele: 040-24073349  
 Fax: 040-24340080  
 Email: director@dmrl.drdo.in, gmreddy\_dmrl@yahoo.co.in



**MADRAS** **Prof. Giridhar** 2014  
 Professor 1967 IV  
 Ph.D.  
 FNAE, FNA, FASc.  
*Address (Off)* *Address (Res)*  
 Department of Chemical NE-106,  
 Engineering, Indian Institute of Science,  
 Indian Institute of Science, Bangalore-560012  
 Bangalore-560012  
 Tele:080-22932321  
 Fax: 080-22932321  
 Email: giridhar@iisc.ac.in



**MAHADEVAN** **Dr. Ramamurthy** 2010  
 Director 1943 III  
 B.Tech, M.Tech, Ph.D.  
 FNAE, FSAEI, FNIQ  
*Address (Off)* *Address (Res)*  
 India Pistons Ltd., 1B, Sujatha Apartments,  
 Huzur Gardens, Sembiam, 103, 4th Street, Abhirampuram,  
 Chennai-600 011 Chennai-600 018  
 Tele: 044-25375231  
 Fax: 044-25375095  
 Email: rm@indiapistons.com



**MAHAPATRA**

Associate Professor  
and DRDO Chair  
Ph.D.

FNAE, LMSPIE, MASME, MAIAA, MIEEEE, MSIAM

*Address (Off)*

Department of Aerospace  
Engineering,

Indian Institute of Science,

Bangalore-560 012

Tele: 080-22932419

Fax: 080-23600134

Email: roymahapatra@iisc.ac.in

**Dr. Debiprosad Roy**

1974

2019

VII

**MAHAPATRA**

Ph.D.

FNAE, FIETE

*Address (Off)*

Department of Aerospace  
Engineering,

Indian Institute of Science,

Bangalore- 560012

Email: pravasm@gmail.com

Former Professor of Aerospace Engineering and Dean, Faculty of Engineering, IISc., Bangalore

**Prof. Pravas Ranjan**

1947

1998

VII

*Address (Res)*

Tele: 080 2341 4496

**MAHAPATRA**

Ph.D

FNAE, SMIEEEE

*Address (Off)*

Department of Electrical  
Engineering,

IIT Bombay, Powai,

Mumbai - 400076

Tele: 022-25720408

Fax: 022-25763707

Email: souvik@ee.iitb.ac.in

**Prof Souvik**

1970

2011

VI

*Address (Res)*

C-56, IIT Bombay,

Powai, Mumbai- 400076

Tele: 022-25768412



**MAINI**

Adviser, Chairman &  
MD's Mahindra  
BSME, MSME  
FNAE, MSAE, MSPE

**Mr. Chetan**

1970

2013

III

*Address (Res)*

Epsilon Villa (Next to CGI),  
Villa No I-9, Yemlur Village  
Main Road, Yemlur,  
Bangalore 560037  
Tele: 080-41217296



Email: chetanmaini@ymail.com,

Formerly Chief of Strategy & Technology, Mahindra Reva Electric Vehicles Pvt Ltd., Bangalore

**MAITI**

Project Adviser  
B.E, M. Tech., Ph.D.  
FNAE, FNASc., FWAST, FIICeram., FITAS, LMISCA,  
LMMRSI, LMInCers, LMISSS

**Prof. Himadri Sekhar**

1947

2005

VIII

*Address (Off)*

Govt. College of Engineering  
and Ceramic Technology,  
73, Abinash Chandra  
Banerjee Lane,  
Kolkata-700 010  
Tele: 033-23701264  
Fax: 033-23633675

*Address (Res)*

Flat No: D-1,  
Neo-nine Cooperative Housing  
Society, 216A, Kalikapur Road,  
Kolkata-700 099

Tele: 9433009241



Email: hsmaiti2009@gmail.com, maiti.himadri2011@gmail.com

Formerly Director, Central Glass and Ceramics Research Institute, Kolkata, Former Senior Adviser, DG, CSIR, New Delhi; Visiting Professor, NIT, Rourkela; INAE Distinguished Professor

**MAJUMDAR**

Emeritus Professor  
Ph.D.

**Prof. Arun Kumar**

1948

1998

II

FNAE, SMIEEE (USA), FIE(I)

*Address (Off)*

JIS Institute of Advanced  
Studies and Research,  
ARC Water front (N/AC,  
GP Block), Sector V,  
Bidhannagar, Kolkata,  
West Bengal 700091  
Tele: 9434013847

*Address (Res)*

P-22, Sahitya Parishad Street,  
Kolkata-700006

Tele: 9933077690



Email: akmajumdar@hotmail.com

Formerly Professor, Computer Science and Engineering Department  
Indian Institute of Technology, Kharagpur  
Counc.2003-2004 and 2005-2006

**MAJUMDAR**

Ph.D.  
FNAE, MASME, MIE

**Prof. Bankim Chandra**  
1941

1997  
III

*Address (Res)*  
405A, Brooklyn Apartments,  
63, Banswadi Main Road,  
Jai Bharat Nagar,  
Bangalore - 560 033  
Tele: 080-25801903



Email: bcmajum44@gmail.com

Formerly Professor of Mechanical Engineering, IIT Kharagpur

**MAJUMDAR**

Professor, Metallurgical  
and Materials Engineering  
Department & Chairperson,  
Central Research Facility  
B.E., M.Tech., Ph.D., Dr-Ing.  
FNAE, LMIIM, LMISCA, LMILA, LMMRSI, LMIF, LMNACE

*Address (Off)*  
Department of Metallurgical  
and Materials Engineering,  
Indian Institute of  
Technology Kharagpur,  
West Bengal - 721302  
Tele: 9547621207

**Prof. Jyotsna Dutta**  
1969

2021  
VIII

*Address (Res)*  
B 165, IIT Kharagpur  
West Bengal,  
Kharagpur-721302

Tele: 3222283289



Email: jyotsnadmajumdar@hotmail.com, duttamajumdarjyotsna@gmail.com

**MAJUMDAR**

Professor  
B.E., M.E., Ph.D.  
FNAE, FASI, MNSFMFP

*Address (Off)*  
Department of Mechanical  
Engineering,  
Nitte Meenakshi Institute  
of Technology,  
P.B. No.6429, Yelahanka,  
Bangalore-560 064

Tele: 080-22167800  
Extn. 840

Fax: 080-22167605, 22167901

Email: essem17@gmail.com

Formerly Head, Computational & Theoretical Fluid Dynamics, National Aerospace Lab., Bangalore

**Dr. Sekhar**  
1948

2010  
III

*Address (Res)*  
B-413,  
Natasha Golf View Apartments,  
Intermediate Ring Road,  
Domlur, Bangalore-560 071

Tele: 080-41151413





**MALAKONDAIAH****Dr. Guntupalli**  
19512003  
VIII

Ph.D.

FNAE, MIIM, MMRSI, FAPASc.

*Address (Res)*  
8-9-140, Dhatu Nagar,  
Kanchanbagh PO,  
Hyderabad- 500 058,  
Telangana State

Email: gmalak123@gmail.com

Formerly Chief Controller R&D, DRDO; Formerly Director, Defence Metallurgical Research Laboratory, Hyderabad; Former Steel Chair Professor, Department of Metallurgical and Material Engineering, National Institute of Technology Warangal  
Warangal, Talanga**MALLA REDDY****Mr. B**  
19472010  
VIManaging Director  
B.E., M.E.

FNAE, MIEEE

*Address (Off)*M/s Astra Microwave  
Products Ltd., III Floor,  
Astra Towers,  
Opp. CII Building,  
Kondapur,  
Hyderabad-500 084

Tele:040-30618002/8001

Fax: 040-23378944

Email: bmr@astramp.com, info@astramp.com, bmreddy47@hotmail.com

*Address (Res)*Plot 514, Road 29,  
Jubilee Hills,  
Hyderabad

Tele: 040-23542724

**MALLIK****Prof. Asok Kumar**  
19471996  
III

Ph.D.

FNAE, FNASc., FASc., FNA, FAMM

*Address (Res)*  
P-31, CIT Road,  
Scheme VIM(S),  
Kolkata - 700 054  
Tele: 033-23648833

Email: akmallik@iitk.ac.in, asokiitk@gmail.com

Formerly Professor, Department of Mechanical Engineering, Indian Institute of Technology, Kanpur; Former Honorary Distinguished Professor, Department of Applied Mechanics and Aerospace Engineering IEST, Shibpur, Howrah

**MALLIK** **Prof. Ranjan Kumar** 2005  
1964 VI

Ph.D.

FNAE, FNASc., FASc., FNA, FTWAS, FIET, FIETE, FIEEE, MISTE

*Address (Off)*

Department of Electrical  
Engineering,

Indian Institute of

Technology, Hauz Khas,

New Delhi-110 016

Tele: 011-26591049

Fax: 011-26581606

Email: rkmallik@ee.iitd.ac.in

Counc.2012-2014

*Address (Res)*

23, North Avenue,

Indian Institute of Technology,

Hauz Khas,

New Delhi-110 016

Tele: 011-26591572



**MANDAL** **Prof. Asit Baran** 2013  
INAE Distinguished 1952 X

Professor

B.Sc.(Chem.Hons), M.Sc.(JU), Ph.D.

FNAE, FASc., FRSC(UK), FSAB (Hony.),

FICS, FMSF, LMCRSI, LMMRSI

*Address (Off)*

CSIR- Central Glass and

Ceramic Research Institute

(Council of Scientific &

Industrial Research), 196,

Raja SC Mullick Road,

Jadavpur, Kolkata-700032

Tele: 033-23223402, 24735829, 24839241

Fax: 033-24730957, 24839241

Email: abmandal@hotmail.com, abmandal@cgcric.res.in, abmandalchem@gmail.com,

abmandalchem@yahoo.com

Formerly Director and Outstanding Scientist, CSIR-Central Leather Research Institute, Chennai

*Address (Res)*

Flat No. C-13.3,

NBCC VIBGYOR Tower,

New Town-1, Rajarhat,

Kolkata-700156



**MANDE** **Dr. Sharmila S.** 2020  
Distinguished Chief 1962 X

Scientist, TCS Research

Ph.D (Physics)

FNAE, FMASc.

*Address (Off)*

Tata Consultancy Services

Ltd. (TCS), PTI building

(4th Floor), 4, Sansad Marg,

New Delhi-110001

Tele: 8237616589 Tele: 011-26932360, 8237616589

Email: sharmila.mande@tcs.com; sharmila.s.mande@gmail.com

Former Chief Scientist, TCS Research

*Address (Res)*

DG-CSIR Bungalow, CRR1 Colony,

CV Raman Marg, Maharani Bagh,

Delhi-110065



**MANGALARAMANAN**

Vice President,  
Product Development  
B.E., M.S., Ph.D.  
FNAE, MSFA

*Address (Off)*

Ashok Leyland Technical  
Centre, Vellivoyal Chavadi,  
Near Manali New Town,  
Tamil Nadu-600103  
Tele: 9841721811

Email: sprasad.email@gmail.com, prasad.alc@ashokleyland.com

General Manager, Product Development

**Dr. Sathya Prasad**

1969

2021

III

*Address (Res)*

Plot 39, Door 22,  
First Cross Street,  
Srinivasa Nagar, Kolathur,  
Chennai-600099 Tamil Nadu

**MANJUNATH**

Professor

Ph.D.

FNAE, MIEEE

*Address (Off)*

Department of Electrical  
Engineering,  
Indian Institute of  
Technology Bombay,  
Powai, Mumbai-400 076

Tele: 022-25767427

Fax: 022-25720232

Email: dmanju@ee.iitb.ac.in

**Prof. Dharmaiah**

1964

2019

VI

*Address (Res)*

Bungalow A-17, Hillside Area,  
IIT Bombay,  
Powai, Mumbai-400 076

Tele: 022-25768427

**MANNA**

Vice Chancellor,

Birla Institute of Technology  
(BIT), Mesra,

Ranchi (on lien from IIT

Kharagpur, W.B-721302)

Ph.D., DSc(h.c.), P.R.S.

FNAE, FTWAS, FNA, FNASc, FASc, MAPAM, FIE(I), FIIM,

FEMSI, FAScT, JC Bose Fellow

*Address (Off)*

Birla Institute of  
Technology (BIT),  
Mesra, Ranchi,  
Jharkhand 835215

Tele: 0651- 2275402

Fax: 0651-2275401

Email: president@inae.in, imanna@metal.iitkgp.ac.in, im\_kgp@yahoo.co.in

Former Director, Indian Institute of Technology Kanpur, U.P.; Former Director, CSIR-Central  
Glass & Ceramic Research Institute (CGCRI), Kolkata

Vice-President 2015-2018; 2019-2020; President 2021-2022

**Prof. Indranil**

1961

2005

VIII

*Address (Res)*

VC Lodge, BIT,  
Mesra, Ranchi,  
Jharkhand 835215



**MANNAN**

Consultant

Ph.D.

FNAE, FIIM, FIIW

*Address (Off)*Gas Turbine Research  
Establishment, DRDO,CV Raman Nagar,  
Banagalore-560 093

Tele: 080-25040401

Fax: 080-25241507

Email: slmannan@hotmail.com, sardari.mannan@gmail.com

Former Director, Metallurgy and Materials Group, IGCAR, Kalpakkam

**Dr. Sardari Lal**

1946

*Address (Res)*Apartment No.403, 4th Floor,  
Brigade Harmony, No.250,  
Ramagondanahalli, Varthur Hobli,  
White Field, Bangalore-560 066  
Tele: 09742767742

1999

VIII

**MANOHAR**

Consulting Engineer

BE(Hons), DIC, MSc.(Eng.)

FNAE, FIE, SMIEEE, FINS, FCGI

**Mr. Vasant Narayan**

1932

*Address (Res)*Consulting Engineer,  
Goenka House, 16,  
Walkeshwar Road,  
Mumbai-400 006  
Tele: 022-23633899

1999

IX



Email: vnmanohar@yahoo.com

Formerly Director-In-Charge &amp; CEO, Tata Consulting Engineers, Mumbai

**MASHELKAR**

National Research Professor

Ph.D., DSc.(h.c.), D.Lit.

FNAE, FRS, FNA, FNASc., FASc., FREng., FICh.E,  
Hon.FIETE, FAAAS, International Member, NAE(USA)*Address (Off)*Global Research Alliance,  
3rd Floor Adams Court,  
Above Bank of Baroda,  
Baner Road, Baner  
Pune – 411045**Dr. Raghunath Anant**

1943

*Address (Res)*"Raghunath", D-4,  
Varsha Park, Baner,  
Pune-411 045

1987

IV



Tele: 020-4692 5703

Email: ram@mashelkar.com

Former Secretary, DSIR, Director General, CSIR, New Delhi; Former Chancellor, Academy  
of Scientific and Innovative Research (AcSIR)

Counc.-1995-96

**MATHEW**

Professor & Chair,  
Aerospace Engineering

B.Tech, Mechanical Engineering, IIT Madras M.S.,  
Mechanical Engineering, University of Missouri-Rolla,  
Ph.D. Mechanical Engineering, Massachusetts Institute of Technology  
FNAE, MCI, MAeSI, AFAIAA, MISMMACS

*Address (Off)*

Department of Aerospace  
Engineering,  
Indian Institute of Science,  
Bangalore-560012

Tele: 080-22933027

Fax: 080-23600134

Email: [jmathew@alum.mit.edu](mailto:jmathew@alum.mit.edu), [joseph@iisc.ac.in](mailto:joseph@iisc.ac.in)

**Prof. Joseph**

1961

2013

VII

**MATHUR**

Ph.D

FNAE, FRICS, MIE (India), MIAEE, MSIAM, MAICE

*Address (Res)*

283, SFS, Hauz Khas,  
New Delhi - 110 016  
Tele: 011-26534007

Email: [amathur@isolaralliance.org](mailto:amathur@isolaralliance.org);

Former Director-General, The Energy and Resources Institute (TERI), New Delhi; Former  
Director-General, Bureau of Energy Efficiency, Govt of India, New Delhi

**Dr. Ajay**

1958

2011

IX

**MATHUR**

Ph.D.

FNAE, FIAAPC, FIAC

**Prof. Harbansh Bahadur**

1936

1991

III

*Address (Res)*

Flat No.A-30,  
Bathla Apartments,  
43, IP Extension, Patparganj,  
New Delhi-110 092  
Tele: 011-22722822, 32472850

Email: [h\\_bmathur@yahoo.co.in](mailto:h_bmathur@yahoo.co.in)

Formerly Professor & Head, Mechanical Engineering Dept., IIT Delhi; Formerly Programme  
Director and Head, Advanced Centre for Studies & Research in Energy Technologies, Delhi  
College of Engineering, Delhi



**MATSAGAR**

Dogra Chair Professor

Ph.D.

FNAE, FISET, FIE(I), FCDRI, FCVS, Humboldt Fellow

*Address (Off)*

Department of Civil

Engineering,

Indian Institute of

Technology (IIT) Delhi,

Hauz Khas,

New Delhi - 110 016

Tele: +91-11-2659-1225

Fax: +91-11-2658-1117

Cellphone: +91-98681-81807

Email: vasant.matsagar@gmail.com, matsagar@civil.iitd.ac.in

**Prof. Vasant Annasaheb**

1976

2021

I

*Address (Res)*

AP-6, Mini Campus,

Indian Institute of Technology

(IIT) Delhi, Hauz Khas,

New Delhi - 110 016, India

Tele: +91-11-2659-1812

**MAULIK**

Professor

Ph.D.

FNAE, FIEEE; FNASI; FIAPR; Dist MACM

*Address (Off)*

Department of Computer

Science and Engineering,

Jadavpur University, 188,

Raja SC Mullick Road,

Kolkata-700032

Tele: 9831059085

Email: ujjwal\_maulik@yahoo.com ; ujjwal.maulik@jadavpuruniversity.in

**Prof. Ujjwal**

1965

2014

II

*Address (Res)*

Regent Park, Rahara,

24 Parganas (North)-700118

**MAZUMDAR**

Ph.D.

FNAE, MIIM, MISS

*Address (Off)*

Department of Materials &amp;

Metallurgical Engineering,

IIT Kanpur,

Kanpur-208 016

Tele: 0512-2597328

Fax: 0512-25977505

Email: dipak@iitk.ac.in

**Prof. Dipak**

1958

2003

VIII

*Address (Res)*

Type IV, Q.No.421,

IIT Campus, IIT,

Kanpur-208 016

Tele: 0512-2592801



**MAZUMDAR-SHAW**

Chairman &amp;

Managing Director

B.Sc. Zoology (Hons), Master Brewer

FNAE, International Member, NAE(USA)

*Address (Off)*

Biocon Ltd.,

20th KM Hosur Road,

Electronics City,

Bangalore-560 100

Tele: 080-28523425

Fax: 080-28523428

Email: kiran.mazumdar@biocon.com

**Dr. Kiran**

1953

2015

X

**MEHENDALE**

TI Fellow, Director,

Nano-power Foundational

Technology, Kilby Labs

B. Tech (EE), M.Tech (CS&amp;E), Ph.D. (CS&amp;E)

FNAE, SMIEEE

*Address (Off)*

13560, North Central

Expressway, MS 3747,

Dallas, TX 75243, USA

Tele: +1-469-510-6514

Email: m-mehendale@ti.com

**Mahesh Madhukar**

1963

2016

VI

*Address (Res)*

8234 Primrose Way,

Dallas, TX 75252, United States,

Texas, Dallas, 75252

Tele: +91-9845401100

**MEHRA**

Ph.D.

FNAE

*Address (Off)*

Department of Chemical

Engineering,

Indian Institute of Technology

Bombay, Powai,

Mumbai-400 076

Tele: 022-25767217

Fax: 022-25726895

Email: mehra@iitb.ac.in

**Prof. Anurag**

1959

2010

IV



**MEHRA**

M.Tech  
FNAE, MINS, MISNT

**Mr. Vinod Kumar**  
1948

2004  
IX

*Address (Res)*  
1402, Balaji Heights,  
Sector - 11,  
Plot No 4, Sanpada,  
Navi Mumbai - 400 705  
Tele: 9969035347



Email: mehravkmehra@rediffmail.com

Formerly Director, RPG & ESG, Reactor Projects Group, Bhabha Atomic Research Centre, Mumbai

**MEHROTRA**

Professor-in-charge  
External Relations  
Ph.D.

FNAE, FNASc., FIIM, FIE, IIME

*Address (Off)*  
Indian Institute of  
Technology Gandhinagar,  
Palaj Campus,  
Gandhinagar -382355,  
Gujarat

Tele: 09998023817, 07923952012

Email: spmehrotra@gmail.com; spm@iitgn.ac.in

Formerly Dean (Faculty Affairs), Department of Materials & Metallurgical Engineering, IIT Kanpur; Formerly Director, National Metallurgical Laboratory(CSIR), Jamshedpur Counc.2005-2006; 2007-2009; 2016-2018

**Prof. Surya Pratap**  
1947

2001  
VIII

*Address (Res)*  
Block 1/ Apartment 102,  
Faculty Housing,  
Indian Institute of Technology  
Gandhinagar, Palaj Campus,  
Gandhinagar – 382355, Gujarat

**MEHTA**

Professor  
Ph.D.

FNAE, FNASc, FNA, FIEEE

*Address (Off)*  
SPW 205,  
Department of Electrical  
Communication Engineering,  
Indian Institute of Science  
(IISc.), Bangalore-560 012

Tele: 080-22933174

Fax: 080-23600563

Email: neeleshbmehta@gmail.com, nbmehta@iisc.ac.in

**Prof. Neelesh B**  
1975

2015  
VI

*Address (Res)*  
NE202 New Housing Colony  
Indian Institute of Science,  
India, Karnataka,  
Bangalore, 560012

Tele: 8023609469





**MEHTA**

Consultant to Atomic  
Energy Regulatory Board  
BE (Mech)  
FNAE, MISHMT, MINS, MISNDT

**Mr. Shillander Kumar**

1934 IX

2014

*Address (Res)*  
18 Vikram Jyoti Cooperative  
Housing Society,  
Opposite Telecom, Deonar,  
Mumbai-400088  
Tele: 022-25566926



Email: mehtask34@gmail.com

Formerly Director Reactor Group, Bhabha Atomic Research Centre, Mumbai

**MISHRA**

Director  
Ph.D  
FNAE  
*Address (Off)*  
Indian Institute of  
Technology Goa  
(At Goa Engineering  
College Campus),  
Farmagudi, Ponda,  
Goa-403401

Tele: 0832-2490866/861

Email: bk@iitgoa.ac.in, director@iitgoa.ac.in,

Former Director, Institute of Minerals & Materials Technology, (IMMT), Bhubaneswar  
Counc.2019-2021

**Dr. Barada Kanta**

1959

2009

VIII

*Address (Res)*  
House No. 661,  
Kalmamol,  
Borim, Ponda,  
Goa-403401

**MISHRA**

INAE Professor  
Ph.D.  
FNAE, FIE, CEng, FSAEST, MILA

**Prof. Prasanta Kumar**

1945

1999

III

*Address (Res)*  
Appt. No. 5/201,  
CLUB TOWN  
Chandrasekharapur, Patia,  
Bhubaneswar-751024  
Tele: 08763997094, 09921229115



Email: pk.pkmishra@gmail.com, anumishra2007@yahoo.com

Emeritus Professor, Mechanical Engineering, IIT Bhubanedwar

**MISHRA**

Former President  
(2019 and 2020)

BE Metallurgy, B.Sc. Honours, Physics, M.S., Ph.D.  
FNAE, FNASI, FAIMA, FID, FCSI, FIE, Fellow & Hon. MIIM,  
MAPAM

*Address (Off)*

341 Green Heavens,  
SAIL-CGHS,  
Plot 35, Sector 4, Dwarka,  
New Delhi 110078

Tele: 9810956664

Email: mishra.sanak@gmail.com

Formerly Managing Director, Rourkela Steel Plant and Director, Steel Authority of India Ltd. (SAIL); Vice-President, ArcelorMittal and CEO India Projects; Secretary General, Indian Steel Association; President, Indian Institute of Metals; ; President, Indian National Academy of Engineering

Hon.Treas.2001-2002; V.P. 2007-2008 and 2014-16; Pres.2019-2020

**Dr. Sanak**

1945

*Address (Res)*

Tele: 9810956664

1997

VIII

**MISHRA**

Ph.D.

FNAE, FNASc., FIETE, FIET, SMIEEE

*Address (Off)*

Department of Electrical  
Engineering,  
Indian Institute of  
Technology, Hauz Khas,  
New Delhi-110 016

Tele: 011-26591074

Fax: 011-26591074

Email: sukumar@ee.iitd.ac.in, sukumariitdelhi@gmail.com

**Prof. Sukumar**

1970

*Address (Res)*

30, Vikramshila Apartment,  
IIT Campus, Hauz Khas,  
New Delhi-110 016

Tele: 011-26596908

2009

V

**MISRA**

NASI Distinguished

Professor

Ph.D.

FNAE, FNASc., MSPE(USA), MPPS, FICh.E, MMRSI

*Address (Off)*

Interdisciplinary Centre  
for Energy Research  
Indian Institute of Science,  
Bangalore-560097

Tele: 080-22933521/ 25,

Email: ashokmisra47@gmail.com

Formerly Director, Indian Institute of Technology Bombay and formerly Chairman-India, Intellectual Ventures; Chairman, Board of Governors, IIT Roorkee  
Counc.2001-2004 and 2010-2012

**Prof. Ashok**

1947

*Address (Res)*

68 Adarsh Vista  
Basavanagar  
Bangalore-560037

Tele: 080-42037779

1996

IV



**MISRA**

Advisor

B.CH.E., DI.I.P.

FNAE, FICHEM.E(UK), FIICHE, FIE

*Address (Off)*

Excel Industries Ltd.

**Mr. Durga Prasanna**

1944

*Address (Res)*C-1104, Royal Classic Towers,  
New Link Road, Andheri -West,  
Mumbai-400 053

Tele: 022-26311003, 09820049581

2009

IV



Email: dpmisra43@gmail.com

Formerly Dy Managing Director Jacobs Engg(India)Ltd

Director TCE Consulting Engineers

Director General, Indian Chemical Council

Counc.2017-2019 and 2020-2022

**MISRA**

Adjunct Professor

Ph.D., D.Sc.

FNAE, FNASc, FIMA(U.K.), FIThP, FRSM (London),

FiET (U.K.), FRSB (London)''

*Address (Off)*Indian Institute of  
Engineering Science  
and Technology,  
Shibpur, Howrah-711103**Prof. Jagadis Chandra**

1944

*Address (Res)*Flat No. B-74,  
IIT Campus,  
Kharagpur-721 302

2000

X



Tele: 03222-282338, 282339

Email: misrajc@gmail.com

Formerly Pro Vice-Chancellor (Academic), SOA University Bhubaneswar; Formerly Professor and Head, Department of Mathematics, IIT Kharagpur; Ex-President, Mathematical Sciences Section, Indian Science Congress; Former Principal Investigator, DST Project on Healthcare Science and Technology

**MISRA**

Founder and

Past Editor-in-Chief,

International Journal of

Performability Engineering ;

Editor, Book Series on

Performability Engineering

Ph.D.

FNAE, FIASc, FIETE, FIE, FSaR (U.K.)

*Address (Off)*RAMS Consultants,  
Krishna Kutir, 71,  
Vrindaban Vihar,  
Ajmer Road, Jaipur-302 019  
<http://ramsconsultants.org>

Tele: 0141-4026080

**Prof. Krishna Behari**

1943

*Address (Res)*RAMS Consultants,  
Krishna Kutir, 71,  
Vrindaban Vihar, Ajmer Road,  
Jaipur-302 019 (Rajasthan)

1996

X



Tele: 0141-2811080

Email: kbmisra@gmail.com, kbmisra@Ramsconsultants.org,

Formerly Director, NERIST, Nirjuli (Itanagar); Formerly Director-grade- Scientist, NEERI, Nagpur; Formerly Founder Head &amp; Professor, Reliability Engineering Centre, IIT Kharagpur (WB)

**MISRA**

Professor

Ph.D. (Carleton University)

FNAE, FIEEE, FNASI, FIET(UK), FBCS (UK),

FRSPH (UK), FIETE, Dist.MACM

*Address (Off)*

Department of Computer

Science &amp; Engg.,

Indian Institute of Technology

Kharagpur,

Kharagpur-721302 (WB)

Tele: 9734880277

Fax: 03222-255303

Email: smisra@cse.iitkgp.ac.in, sudip\_misra@yahoo.com

**Prof. Sudip**

1977

2020

II

**MISRA**

Director

BE

FNAE, MIAA

*Address (Off)*

Space Applications Centre

(ISRO), SAC PO,

Ahmedabad-380 015

Tele: 079-26915313, 26915380, 26913344

26913344

Fax: 079-26915842

Email: misratapan@sac.isro.gov.in

Formerly Division Head, Microwave Sensors Systems Division

**Mr. Tapan**

1961

2007

VII

**MITRA**

President and MD

B Tech, Ph.D

FNAE, SMIEEE

*Address (Off)*

Texas Instruments India,

Bagmane Tech Park,

No. 66/3, CV Raman Nagar,

Bangalore - 560093

Tele: 080-25099777

Email: bmitra@ti.com, mitra.bobby@gmail.com

**Dr. Biswadip**

1965

2011

II



**MITRA** **Prof. Mira** 2021  
 Associate Professor 1977 VII  
 B.E., MSc(Engg), Ph.D.  
 FNAE, MAIAA(USA), MISSS  
*Address (Off)* *Address (Res)*  
 Department of Aerospace Engineering, Sikha Bari, Bulbulhati  
 IIT Kharagpur, Kharagpur 721301  
 Kharagpur-721302 West Bengal  
 Tele:(022) 25767117  
 Email: mira@aero.iitkgp.ac.in, mira.mitra@gmail.com



**MITRA** **Prof. Rahul** 2016  
 Professor 1966 VIII  
 B.Tech (Hons), Ph.D.  
 FNAE, FEMSI, MIIM, MICS, MMRSI  
*Address (Off)* *Address (Res)*  
 Department of Metallurgical and Materials Engineering, Qr. No. A-108, Block-4,  
 Indian Institute of Technology, Gurukul Complex,  
 Kharagpur, IIT Campus,  
 Kharagpur – 721302 Kharagpur – 721302,  
 West Bengal West Bengal  
 Tele:03222-283292 Tele: 03222-283293  
 Fax: 03222-282280  
 Email: rahul@metal.iitkgp.ac.in, rahulmitra1966@gmail.com



**MITRA** **Prof Sushmita** 2007  
 Professor HAG 1962 II  
 Ph.D., J. C. Bose National Fellow  
 FNAE, FIEEE, FNAsc., FNA, FIAPR, FTWAS  
*Address (Off)* *Address (Res)*  
 Machine Intelligence Unit, AE 590,  
 Indian Statistical Institute, Salt Lake Sector I,  
 203, BT Road, Kolkata 700064  
 Kolkata-700 108  
 Tele: 033-25753102  
 Fax: 033-25783357  
 Email: sushmita@isical.ac.in, somosmita.sushmita@gmail.com  
 Counc.2022-2024



**MITTA**

Ph.D.

FNAE, SMIEEE, MACM

**Dr. Sridhar**

1946

2002

II

*Address (Res)*  
 Villa No.143, Phase-I,  
 Palm Meadows,  
 Ramagondana Halli,  
 Bangalore-560 066  
 Tele: 080-28540161



Email: sridhar.mitta@nextwealth.in

Formerly Managing Director, e4e India Pvt. Ltd., Bangalore and Former Managing Director,  
 NextWealth Entrepreneurs Pvt. Ltd., Bangalore

**MITTAL**

Ph.D.(Univ. of Minnesota,USA)

FNA, FNAE, FNASc, FASc, JC Bose Fellow

*Address (Off)*

Department of Aerospace  
 Engineering,  
 Indian Institute of  
 Technology,  
 Kanpur-208 016 (U.P.)

Tele: 0512-2597906

Fax: 0512-2597561

Email: smittal@iitk.ac.in, smittaliitk@gmail.com

Council.2013-15 and 2016-2018

**Prof. Sanjay**

1968

2006

VII

*Address (Res)*  
 House No..635,  
 IIT Kanpur,  
 Kanpur-208 016 (U.P.)

Tele: 0512-2598702, 2591132

**MODAK**

Ph.D.

FNAE, FNASc, MICh.E

*Address (Off)*

Department of Chemical  
 Engineering,  
 Indian Institute of Science,  
 Bangalore-560 012

Tele: 080-22933108

Fax: 080-23608121, 23600683

Email: modak@iisc.ac.in

**Prof. Jayant M**

1962

2005

IV

*Address (Res)*  
 1171, BEL Layout,  
 Ind BL, Vidyaranyaपुरa,  
 Bangalore-560 097

Tele: 080-23641925



**MODI**

Chairman &  
Managing Director  
Ph.D.

FNAE, MASM, MGSA, MNYAS, MASCB

*Address (Off)*

Cadila Pharmaceuticals Ltd.,

Cadila Corporate Campus,

Sarkhej-Dholka Road, Bhat,

Ahmedabad-382 210

Tele: 02718-225001, 225031

Fax: 02718-225031

Email: rimodi@cadilapharma.co.in

**Dr. Rajiv Indravadan**

1960

2008

IV

**MOHAN**

Professor of

Civil Engineering

BE, ME, Ph.D.

FNAE, FIWRS, FIPHE, FIWWA, MIWRA, MIAH(UK),

MIE(I), MIAEM

*Address (Off)*

Department of Civil

Engineering,

Indian Institute of Madras,

Chennai, (TN) - 600036

Tele: 044-2257 4261

Fax: 044-22574252

Email: smohan@iitm.ac.in, smohan1959@gmail.com

Formerly Director NITTTR, Chennai

**Dr. S**

1959

2006

I



*Address (Res)*

C28 Third Loop Road,

Delhi Avenue,

IIT Madras Campus,

Chennai – 600 036

Tele: 044-22576261

**MOHAN LAL**

Prof. Satish Dhawan

Professor

B.E ( Electronics & Communication),

M.Tech (Applied Electronics & Instrumentation),

PhD (Computer Science

FNAE, FAeSI, FASI, FIE, FIETE, SMIEEEE

*Address (Off)*

Indian Institute of Space

Science & Technology

(IIST), Valiamala,

Trivandrum- 695547Tele: 0471-2568641

Email: mohanlalpp@yahoo.com

Former Director, ISRO Inertial Systems Unit, DOS, ISRO, Thiruvananthapuram

**Dr. Pappu Ponniah**

1954

2016

VII



*Address (Res)*

TC 13/2091-2, Nikunjam,

KRA-D30, Attara Lane,

Kannamoola, Trivandrum- 695011

Tele: 0471-2447105

**MOHAN RAM**

B.Tech (Hons), MBA  
FNAE, FIINA

**Capt., IN (Retd)**  
**Needamangalam Srinivasan**  
1936

2001  
III

*Address (Res)*  
Flat No.505,  
Brigade Classic,  
Arumugam Circle,  
Basavangudi,  
Bangalore-560 004  
Tele: 080-26568363



Email: ns.mohanram@gmail.com  
Former Consultant, TVS Motor Company Ltd., Hosur (Tamil Nadu)  
Counc.2009-2011; 2012-2014

**MOHAN REDDY**

Founder & Executive  
Chairman  
M.Tech, M.Sc.  
FNAE, FIE

*Address (Off)*  
Cyient Ltd., Plot No.11,  
Software Units Layout,  
Infocity, Madhapur,  
Hyderabad-500 081  
Tele: 040-67641114  
Fax: 040-23101405

Email: mohan.reddy@cyient.com  
Former Chairman & Managing Director,

**Mr. Bondanapu**  
**Venkat Rama**  
1950

2018  
III

*Address (Res)*  
Plot No.1020,  
Road No.46, Jubilee Hills,  
Hyderabad-500033  
Tele: 040-23546322

**MOHANTY**

Director  
M.Sc., Ph.D.  
FNAE, FNASI

*Address (Off)*  
Bhabha Atomic  
Research Centre,  
Mumbai-400085

Tele:022-25505300

Fax: 022-2550-5151

Email: ajitkumar.mohanty@gmail.com, ajitkm@barc.gov.in

**Dr. Ajit Kumar**  
1959

2021  
X

*Address (Res)*  
10B, Zerlina,  
Near Kamla Nehru Udyan  
Malabar Hill,  
Mumbai 400006





**MOHANTY**

Professor and Head  
of the Department Shyamal  
Ghosh and Sunanda Ghosh  
Chair Professor

B.Sc. Engg.(Hons), M.Tech, Ph.D. (University of Kentucky, USA)  
FNAE, FASI, FCMSI, FISEAM

*Address (Off)*

Department of Mechanical  
Engineering,  
Indian Institute of  
Technology Kharagpur,  
Kharagpur 721302

Tele: 03222 – 282944

Fax: 03222 – 255303

Email: amohanty@mech.iitkgp.ernet.in, iitmohanty@gmail.com

**Prof. Amiya Ranjan**

1965

2017

III

*Address (Res)*

Qr. No. A-10,  
IIT Campus,  
Kharagpur 721302

Tele: 03222 – 282945

**MOHANTY**

Chief Consultant,

B.Sc.(Engg), M. Tech, PG DIP {GM}, Ph.D., D.Sc.  
FNAE, FORSI, FIIE, FIETI

*Address (Off)*

SOA University,  
Bhubaneswar, Odisha,  
Khandagiri Square-751030

Email: rpmohanty@gmail.com

Formerly Vice-President, The Associated Cement Companies Ltd., Mumbai, Formerly  
Chair Professor, Dean and Advisor, ITM Group of Institutions, Navi Mumbai; Vice-  
Chancellor, Siksha 'O' Anusandhan University, Bhubaneswar; Former Senior Advisor, ICAFI  
Group, IFHE University, Hyderabad

**Dr. Rajendra Prasad**

1944

2004

X

*Address (Res)*

6B-925/2; Swaraj CDA,  
Sector 9, Cuttack-753 014,  
Odisha  
Tele: 7045354120, 9438200137

**MOHANTY**

Vice-Chairman cum

Managing Director

M.E., Master in Industrial Management

FNAE, FIIM, FIE

*Address (Off)*

Nellachal Ispat Nigam Ltd.,  
Ipicol House,  
Annex Building, first floor,  
Bhubaneswar, Odisha-751012

Tele: 0674-2543231 Tele: 0674-2740652

Fax: 0674-2541763

Email: sashishekhara1406@gmail.com, mohantysashishekhara56@gmail.com

Former Director (Tech), SAIL

**Mr. Sashi Shekhar**

1956

2019

VIII

*Address (Res)*

HIG-51, Shailashree Vihar,  
Phase-VII, Chandrasekharpur,  
Bhubaneswar-751023



**MOHANTY**

Visiting Professor,  
School of Earth,  
Ocean and Climate Sciences  
(SEOCS), IIT Bhubaneswar  
Ph.D.

FNAE, FASc., FNA, FNASc., FIMS, FIGU, MAMS, MISC,  
MISMMCS, POBA

*Address (Off)*

School of Earth Ocean  
and Climate Sciences,  
IIT Bhubaneswar,  
Room No-309, SBS  
Building, Argul, Khurda  
Jatni-752050, Odisha

Tele:0674-7135505

Email: ucmohanty@gmail.com, ucmohanty@iitbbs.ac.in

Formerly Professor, Centre for Atmospheric Science, Indian Institute of Technology Delhi

**Prof. Uma Charan**

1948

2010

X

*Address (Res)*

Plot No-1579/2558,  
Lane-4 A, Bhakta Madhu Nagar,  
Jagamara , Khandagiri,  
Bhubaneswar-751030, Odisha

Tele: 0674-2953164, 8763862775 / 7008576620

**MUDALI**

Vice-Chancellor

M.Tech., M.Sc., Ph.D.

FNAE, FNACE(USA), FASM(USA), FAPAM, FIIM, FECSI,  
FIE(I), FTASc., Hon.FESI, FNASI, FCh.E, Hon.MUDCTAA,  
MICT, Hon.MIIM, FICS

*Address (Off)*

VIT Bhopal University  
Indore-Bhopal Highway,  
Kotri Kalan, Sehore Dist.,  
Bhopal - 466114,  
Madhya Pradesh

Tele:07560-254575,

9443884515

Email: ukmudali1@gmail.com;vc@vitbhopal.ac.in

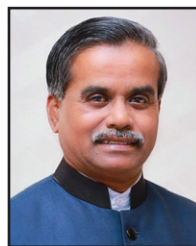
Former Chairman & Chief Executive, Heavy Water Board, DAE, Mumbai  
Counc.2019-2021

**Dr. U Kamachi**

1960

2009

VIII

*Address (Res)*

No. A-17, Crescent Residency  
Near RAK College  
Ichhawar Road  
Sehore – 466 001.  
Madhya Pradesh

Tele: 9981824515

**MUJUMDAR**

Professor

B.Tech., M.Tech., Ph.D.

FNAE, FISH, MAGU, MIAHS, MIAHR

*Address (Off)*

Department of Civil  
Engineering,  
Indian Institute of Science,  
Bangalore-560 012

Tele: 080-23600290, 22932669

Fax: 080-23600290, 23600404

Email: ppmujumdar@gmail.com

**Prof. Pradeep Pralhad**

1958

2017

I

*Address (Res)*

E-32, New Housing Colony,  
Indian Institute of Science,  
Bangalore-560 012

Tele: 080-23602668

**MUKHERJEE**

Professor and Dean  
Research and Development  
B.Tech, M.Tech, Ph.D  
FNAE

*Address (Off)*

IIT Gandhinagar,  
Palaj Campus,  
Gandhinagar -382355,  
(Gujarat)

Email: [abhi.mukh.india@gmail.com](mailto:abhi.mukh.india@gmail.com)

Formerly Director, Thaper University, Patiala

**Prof. Abhijit**

1959

*Address (Res)*

D8 Sopan Heights  
New CG Road, Chandkheda  
Ahmedabad 382424

2009

I



**MUKHERJEE**

B.E., Ph.D.  
FNAE

Email: [asit\\_Bm@rediffmail.com](mailto:asit_Bm@rediffmail.com)

**Dr. Asit Baran**

1958

*Address (Res)*

Tele: 022-25595197

2017

IX



**MUKHERJEE**

Senior Professor,  
Coordinator & Head-LIGO  
Division, Dean-Academics  
& Student Affairs  
Ph.D.

FNAE, LMIIM, LMMRSI, LMPSSI, LMIVS, LMIPA

*Address (Off)*

Institute for Plasma Research,  
Near Indira Bridge,  
Bhat Village,  
Gandhinagar-382 428  
(Gujarat)

Tele: 079-23962171

Fax: 079-23962277

Email: [mukherji@ipr.res.in](mailto:mukherji@ipr.res.in)

Former Professor; Head-FCIPT Division, Associate Dean-Academics

**Prof. Subroto**

1963

*Address (Res)*

29, Swagat Bungalows-1,  
New CG Road,  
Near ICICI Bank, Chandkheda,  
Ahmedabad-382 424 (Gujarat)

Tele: 079-23290711

2018

VIII



**MUKHERJEE**

Scientific Advisor to  
Chairman, SAPL & Director,  
SIRRERM

Ph.D.

FNAE, MIIM, MMRSI, MMSI

Address (Off)

Saraf Agencies Pvt Ltd,  
Saraf Institute of Research  
on Rare Earths and Rare  
Metals, 4/1 Red Cross Place,  
Kolkata-700001

**Dr. Tapan Kumar**

1945

Address (Res)

B-31, Geetanjali,  
Plot - 52, Sector - 17,  
Vashi, Navi Mumbai - 400 703  
(Maharashtra)

Tele: 022-27892729

Email: tk.mukherjee@gmail.com

Formerly Chairman & Managing Director, Indian Rare Earths Ltd., Mumbai; and Formerly Scientific Advisor, Titanium Mineral Products Ltd., Kolkata

1999

VIII

**MUKHERJEE**

Ph.D.

FNAE, FEng, Hon.Mem.IIM

**Dr. Tridibesh**

1942

Address (Res)

No.6A, Road No.10,  
Circuit House Area (East),  
Jamshedpur-831 001 (Jharkhand)  
Tele: 0657-2431125

Email: docm2009@gmail.com

Formerly Director, Tata Steel/Group Director (Technology & Integration), Tata Steel Ltd., Jamshedpur

1996

VIII

**MUKHERJI**

Professor

Ph.D. (University of North Carolina USA)

FNAE, MIEEE, MOSA, MSPIE; MNASI

Address (Off)

Department of Biosciences  
and Bioengineering,  
IIT Bombay,  
Powai, Mumbai 400076  
Tele: 022-2576-7767

Email: mukherji@iitb.ac.in; soumyo.mukherji@gmail.com

**Prof. Soumyo**

1967

Address (Res)

B Type Bldg 24,  
Flat B-304,  
IIT Bombay Campus,  
Powai, Mumbai 400076  
Tele: 022-2576-8767

2020

X



**MUKHERJI**

Professor and Head

B.Tech., M.S., Ph.D.

FNAE, FIE(I), FGSI, LMIEA, LMIAEM, LMISCA, MAWWA, MIWA, MSETAC, MSAM, MAWMA

*Address (Off)*

ES 513 Treatment

Remediation and Applied

Microbiology (TRAM)

Lab5th Floor, Environmental

Science and Engineering

Department (ESED)

Energy &amp; Environment

Building, IIT Bombay,

Powai, Mumbai-400076, India

Tele:91222576-7854

Fax: 022-2572-3480

Email: mukherji.suparna@gmail.com, mitras@iitb.ac.in

**Prof. Suparna**

1966

2021

X

*Address (Res)*

B 304 Building No. 24,

IIT Bombay Campus,

Powai, Mumbai 400076,

Maharashtra

Tele: 91222576-8767

**MUKHOPADHYAY**

Research Advisor

Ph.D., D.I.C., M.Tech, B.Engg (Metallurgy Engg)

FNAE, FASMI(USA), FIMMM(UK), FAv.HF., FIE, LMIMM

*Address (Res)*

Hindalco Innovation Centre,

Hindalco Industries Limited,

Plot No. 2, MIDC Talaja

A. V., Navi Mumbai,

Dist. Raigad,

Maharashtra-410208

Tele: 9908116549

2016

VIII



Email: ashim\_mukhopadhyay@yahoo.com

Former Outstanding Scientist and Associate Director, Defence Metallurgical Research Laboratory, Hyderabad

**MUKHOPADHYAY**

Professor

B.Tech (Hons), MS, Ph.D.

FNAE, SMACM, SMIEEE, MIACR

*Address (Off)*

Department of Computer

Science and Engineering,

Indian Institute of Technology

Kharagpur-721302 (WB)

Tele: 03222-282352

Email: debdeep.mukhopadhyay@gmail.com

Formerly Associate Professor, Indian Institute of Technology Kharagpur

**Prof. Debdeep**

1977

2021

II

*Address (Res)*

A-104,

IIT Kharagpur Campus,

India, West Bengal,

Kharagpur-721302

Tele: 7478792350

**MUKHOPADHYAY**

Professor

B.Tech, M.Tech, Ph.D

FNAE, SMIEEEE, LMIUPRAI, LMTSI, LMAPSIPA

*Address (Off)*Dept. of Computer  
Science and Engineering,  
IIT Kharagpur,

Kharagpur-721 302

Tele:03222-283484

Fax: 03222-255303

Email: jay@cse.iitkgp.ac.in

Formerly Associate Professor, Indian Institute of Technology, Kharagpur

**Prof. Jayanta**

1963

2009

II

*Address (Res)*A-52, IIT Kharagpur Campus,  
Indian Institute of Technology,  
Kharagpur-721 302

Tele: 03222-283485

**MUKHOPADHYAY**

Professor &amp;

Head of Department

B.E., M.E., Ph.D

FNAE, FIIM, FEMSI, FIE, LMMRSI, LMICA

*Address (Off)*Department of Metallurgical  
Engineering, Indian Institute  
of Technology,  
(Banaras Hindu University),  
Varanasi-221 005 (UP)

Tele:0542-2369346

Fax: 0542-2369478, 2368428

Email: mukho.met@iitbhu.ac.in, mukho\_nk@rediffmail.com

**Prof. Nilay Krishna**

1962

2009

VIII

*Address (Res)*Flat A-22, GTFRC,  
Hyderabad Colony,  
BHU Campus, India,  
Uttar Pradesh, Varanasi, 221005

Tele: 0542-2575512

**MUKHOPADHYAY**

Director (R&amp;D), JK Tyre,

Director &amp; CE-HASETRI,

Chairman, Indian Rubber Institute

M.Sc, AMIE, Ph.D

FNAE, FIE, FIRI, FIIQ, MACS, MIIQ, MIAS

*Address (Off)*HASETRI,  
"Raghupati Singhanian  
Centre of Excellence",  
437, Hebbal Industrial Area,  
Mysuru-570016, Karnataka

Tele: 09414156197

Email: rm@jkmail.com

**Dr. Rabindra**

1947

2005

IV

*Address (Res)*110/21, Emerald Enclave,  
5th Main, 8th Cross,  
Behind Infosys,  
Mysore-570018

Tele: 0821-2976811



**MUKHOPADHYAY**

Adjunct Professor  
Ph.D.

FNAE, FICh.E, LMISTE

*Address (Off)*

Department of Biological

Sciences, BITS,

Pilani Campus, Vidya Vihar,

Pilani-333 013, Rajasthan

Email:snmukho@hotmail.com

Former Professor, DBEB, IIT Delhi; Former Professor & Head, BERC, IIT Delhi; Former Professor SOBT, GBU, Greater Noida, UP

**Prof. Satya Narayan**

1945

1989

IV



*Address (Res)*

K-2099A,

Ground Floor,

CR Park,

New Delhi-110 019

Tele: 011-26278332

**MUKUNDA**

Advisor

Ph.D.

FNAE, FASc., FAe.SI

*Address (Off)*

ABETS, CGPL,

Indian Institute of Science,

Bangalore-560 012

Tele:080-23600536

Fax: 080-23601692

Email: mukunda@iisc.ac.in, hsm.cgpl@gmail.com

Formerly Professor, Combustion Gasification and Propulsion Laboratory, Department of Aerospace Engineering, Indian Institute of Science, Bangalore Counc.-1999-2000

**Prof. Hanasoge  
Suryanarana Avadhany**

1943

1994

VII



*Address (Res)*

40, 2nd Cross,

Goupalakshmi Stage 2,

Kamalanagar,

Bangalore-560 079

Tele: 080-23235014

**MUNJAL**

AICTE Distinguished

Chair Professor & INSA

Honorary Scientist

Ph.D.

FNAE, FNA, FASc., FNASc., FASI, DIM-INCE/USA,

Hon.FIIAV, MEuroASc

*Address (Off)*

Department of Mechanical

Engineering,

Indian Institute of Science,

Bangalore-560012

Tele: 080-22932303, 23603611

Fax: 080-23600648, 23603611

Email: munjal@iisc.ac.in

Formerly Chairman, Division of Mechanical Sciences, IISc., Bangalore Coun. 2007- 2008 and 2015-2017

**Prof. Manohar Lal**

1945

1987

III



*Address (Res)*

Flat No.S-1, Skanda Residency,

40-41, 6th Cross, Ashram Colony,

Sanjay Nagar, RMV II Stage,

2nd Block, Bangalore-560 094

Tele: 080-23414855

**MUNSHI**

Ph.D.

FNAE, MINS, MANS

*Address (Off)*

Department of Mechanical

Engineering,

Indian Institute of Technology,

Kanpur-208 016

Tele: 0512-2597243

Fax: 0512-2597408

Email: pmunshi@iitk.ac.in

**Prof. Prabhat**

1956

2008

X

**MURALIDHAR**

Professor

Ph.D.

FNAE, FNASc, FASTFE

*Address (Off)*

Department of Mechanical

Engineering,

Indian Institute of

Technology Kanpur,

Kanpur-208 016

Tele: 0512-2597182

Fax: 0512-2597408

Email: kmurli@iitk.ac.in

**Prof. Krishnamurthy**

1958

2007

III

*Address (Res)*

H. No. 461, IIT Kanpur

Kanpur-208 016

Tele: 0512-2598421



Formerly, Dean (Faculty Affairs) and Dean (Research and Development), IIT Kanpur;  
National Society of Fluid Mechanics and Fluid Power, (past President)

**MURALIDHARAN**

Chief Technology Officer

B.Sc (Engg.), M.Tech

FNAE, SMIEEE

*Address (Off)*

Tata Advanced Systems Ltd.

42, Off Saki Vihar Road,

Andheri(E),

Mumbai - 400072

(Maharashtra)

Tele: 2267853611

Email: r.muralidharan@tataadvancedsystems.com, r.muralidharan@ieee.org

Formerly Joint CTO

**Mr. Raghavan**

1954

2021

VI

*Address (Res)*

B-604, Harshvardhan CHS,

CTS 185, Off Saki Vihar Rd.,

Powai, Mumbai-400072

(Maharashtra)

Tele: 022 28574560





**MURALIDHARAN**

Emeritus Professor

Ph.D.(Physics)

FNAE

*Address (Off)*

Centre for Nanoscience and

Engineering (CENSE),

Indian Institute of Science,

Bangalore-560 012

Email: rmurali54@gmail.com

Former Director, Solid State Physics Lab., DRDO, Delhi

**Prof. Rangarajan**

1953

2016

VI

**MURMU**

Senior Principal Scientist/

Scientist-F and Head

B.E., M.E., Ph.D.

FNAE, FIE

**Address (Off)**

Surface Engineering and

Tribology, CSIR-Central

Mechanical Engineering

Research Institute,

MG Avenue,

Durgapur-713209 (WB)

Fax: 0343-2548204

Email: ncmurmu@gmail.com, murmu@cmeri.res.in

**Dr. Naresh Chandra**

1971

2019

III

**Address (Res)**

Flat No.1B, Block 2,

NATURAL HEIGHTS,

Durgapur-713 213

(West Bengal)

**MURTHY**

Richard Karp Institute

Chair Professor,

JC Bose National Fellow,

Visiting Professor

Ph.D.

FNAE, FNA, FIEEE, FTWA

**Address (Off)**

Department of Computer

Science and Engineering,

IIT Hyderabad, Kandi,

Sangareddy 502285,

Telangana

Tele: 040-23016375

Email: murthy@cse.iith.ac.in, murthy@iitm.ac.in

Formerly INAE Chair Professor

**Prof. Chebiyyam****Siva Ram**

1960

2002

II

**Address (Res)**

Quarter # FT3-16A2, Faculty Tower 3,

IIT Hyderabad Campus,

IIT Hyderabad, Kandi,

Sangareddy 502285,

Telangana

Tele: 040-23017375

**MURTHY**

Professor

Ph.D.

FNAE, SMIEEE, MISCA

*Address (Off)*

Department of Computer  
Science and Engineering,  
Indian Institute of  
Technology Madras,  
Chennai-600036

Tele: 044-22574364

Fax: 044-22574352

Email: hema@iitm.ac.in, hema.arunachalam@gmail.com

**Prof. Hema Arunachalam**

1958

2017

II

*Address (Res)*

Plot 33/4, Ramappa Nagar,  
Main Road, Perungudi,  
Chennai-600 096

Tele: 044-42866364

**MURTHY**

Adjunct Professor, NIAS,

Bengaluru and IIT Ropar

BE, M.Tech, Ph.D.

FNAE, LFIEEE(USA), FIET(UK), FIE, FIETE

*Address (Res)*

GF-G, IMG-Elite  
Raghavanapalya  
JP Nagar, 9th Phase  
Bengaluru-560108

Tele: 080-2293 6648

Email: ssmurthy@ee.iitd.ac.in, ssmurthy4@gmail.com

Formerly Professor, Elec.Engg. IIT Delhi, Vice Chancellor, Central University of Karnataka,  
Director, NIT. Surathkal, Director, Electrical Research & Dev. Association, Baroda,  
Distinguished Professor, CPRI, Bengaluru

**Prof. Sreenivasa S**

1946

2006

V

**MURTI**

Ph.D.

FNAE

**Prof. Vempati Gopala  
Krishna**

1933

1991

VI

*Address (Res)*

304, Tirumala Residency,  
1-9-285/4/4, Vidyanaagar,  
Hyderabad-500 044  
Tele: 040-40268045

Email: vgkmurti@gmail.com

Formerly Professor, IIT, Madras



**MURTY**

Director, IIT Hyderabad &  
Institute Professor and Girija  
& R. Muralidharan Chair  
Professor IIT Madras,  
JC Bose National Fellow  
BE, ME, Ph.D.

FNAE, FASM, FASc., FNASc., FNA, FTWAS, FAPAM, FIIM, FAPAS,  
LMIIM, LMMRSI, LMISCA, LMPMAI, LMMSI, MASM, MJIM

*Address (Off)*

Indian Institute of  
Technology Hyderabad,  
Kandi, Sangareddy-502285,  
Telangana

Tele: 040-23016002

Fax: 040-23016003

Email: director@iith.ac.in, bsm@iith.ac.in

Counc.2016-18 and 2019-2021

**Prof. Budaraju Srinivasa**

1964

2008

VIII

*Address (Res)*

B28 (Pandiyaa)-6B,  
Delhi Avenue,  
IIT Madras Campus,  
Chennai-600036

Tele: 044-22576754

**MURTY**

Professor

Ph.D.

FNAE, FIE, Chartered Engineer, LM ISET, LM IRC,  
MINS DAG, MICI, MEERI

*Address (Off)*

Department of Civil  
Engineering,  
IIT Madras  
Chennai-600036

(Tamil Nadu)

Tele:044 – 2257 4302

Email: cvrm@iitm.ac.in

Former Director, Indian Institute of Technology Jodhpur

**Prof. CVR**

1963

2007

I

*Address (Res)*

BW25 3rd Cross Road  
IIT Madras Campus  
Chennai 600036

Tele: 044-2257 6302

**MURTY**

B.E., M.E., Ph.D

FNAE, MIUPRAI

*Address (Off)*

Department of Computer  
Science and Automation,  
Indian Institute of Science,  
Bangalore-560 012

Tele:080-22932779

Fax: 080-23602911

Email: mnm@iisc.ac.in

**Prof. Narasimha M**

1954

2009

II

*Address (Res)*

Flat # 3, Vigyan Vihar Apts.,  
4th Cross,  
Jaladarshini Layout Extn.,  
Bangalore-560 094

Tele: 080-23414315

**MURTY**

General Manager,  
Materials and Mechanical Entity  
B.E., M.E., Ph.D., Post Doctoral Fellow, NIMS (Japan)  
FNAE, LMIIM, LMMRSI, LMSAME, LMASI, MASMM(USA)

*Address (Off)*

Material Development and  
Production Group,  
Liquid Propulsion  
Systems Centre,  
Trivandrum-695547

Tele: 9496203037

Fax : 0471-256-7259

Email: susarla.murty@gmail.com, narayanamurty\_susarla@lpsec.gov.in

Head, Material Characterisation Division, Materials and Metallurgy Group, Vikram Sarabhai  
Space Centre, Thiruvananthapuram

**Dr. SVS Narayana**

1969

2021

VIII

*Address (Res)*

AF-4, Promag Pradakshina,  
Sreevaraham  
Thiruvananthapuram-695009

Tele: 0471-2573037

**MUTHUNAYAGAM**

Advisor

Ph.D.

FNAE, FIE, FAe.SI

*Address (Off)*

NICHE, Kumara Koil,  
Kanyakumari Dist.  
Tamil Nadu-629 180

Tele:04671-251366

Email: amuthunayagam@gmail.com

Formerly Secretary to the Govt. of India, Dept. of Ocean Development; Former Chairman,  
Board of Governors, IIT Madras; Former Executive Vice-President, Kerala State Council for  
Scienc, Technology & Environment (S&TE)  
Counc.-1999-2000

**Dr. Abraham Ebenezer**

1939

1992

VII

*Address (Res)*

A-33, Devdhan,  
Pandit Colony,  
Thiruvananthapuram  
(Kerala) - 695003

Tele: 0471-2725656

**MUTHURAMAN**

B.Tech

FNAE, FIIM

**Mr. B**

1944

2003

VIII

*Address (Res)*

43, Arbors by the lake,  
Hulimangala post,  
Kyalasanahalli village,  
Bangalore 560105  
Tele: 7259674993



Email: bmuthuraman44@gmail.com

Formerly CMD, Tata Steel, Jamshedpur and Formerly Vice-Chairman, Tata Steel Ltd., Mumbai

**NAGABHUSHANA**

Emeritus Professor,  
MS Ramiah Institute of  
Technology and Consultant,  
LRDE, ADA  
Ph.D.  
FNAE, Etakappa Nu (USA)  
*Address (Off)*  
SID Building,  
Indian Institute of Science,  
Bangalore-560 012

Email: su50\_nag@yahoo.com

Formerly Professor & Chairman, Dept of High Voltage, IISc., Bangalore

**Prof. Galigekere  
Ramaswamy**

1942

*Address (Res)*

No.5, First Cross,  
Lakshmi Road, Shanti Nagar,  
Bangalore-560 027  
Tele: 080-24144325

1997

V

**NAGAPPA**

Visiting Professor  
B.Sc., DMIT

FNAE, FAeSI, FASI, FHEMSI, MISAMPE, MFRPI

*Address (Off)*

National Institute of  
Advanced Studies (NIAS),  
IISc. Campus,  
Bangalore-560 012  
Tele: 080-22185087  
Fax: 080-22185028

Email: r.nagappa@gmail.com

Formerly Associate Director, VSSC, Thiruvananthapuram

Pandalai Memorial AR&DB Chair Professor, Anna University, Chennai

Lady Davis Visiting Professor, Department of Aerospace Engineering, Technion, Haifa, Israel

**Mr. Rajaram**

1941

*Address (Res)*

Flat No.8/5,  
Brindavan Apartments,  
Ratnavilas Road, Basavangudi,  
Bangalore-560 004  
Tele: 080-41204470

1993

VII

**NAGARAJAN**

Chairman and  
Managing Director  
Ph.D.

FNAE, FIETE

*Address (Off)*

Andromedia Communication  
Pvt. Ltd., S.No.148/4  
Someshwar Apartments,  
Vishwakarma Nagar,  
Pashan-Sus Road, Pune-411021  
Tele: 044-24402503, Tele: 044-24470441  
Fax: 020-5888868

Email: andromed@pn2.vsnl.net.in, dr\_naga@hotmail.com,

Formerly Managing Director, OPTEL

Counc.-1995-96

**Dr. Venkataraman**

1944

*Address (Res)*

8(New) / 6 (Old),  
Ranjit Road,  
Chennai-600 085

1994

VI



**NAIDU**

Founder Chairman &  
Chairman Emeritus

BE(Hons), M.Tech., Ph.D., D.Eng.(Hon)  
FNAE, FIE, FNFE, FSPE, Hon.D.WRE (USA)

*Address (Off)*

Great Lakes Institute of  
Management (GLIM),  
Bilaspur-TauruRoad,  
Bilaspur Chowk, Bilaspur,  
Gurugram-122413, Haryana  
Tele: 09833013090

Email: dr.bsknaidu@gmail.com

Formerly Director General (NPTI & CPRI), Ministry of Power, Govt. of India and Former:  
National President, The Society of Power Engineers(India)

**Dr. Battina Sushil Kumar**

1945

1993

X

*Address (Res)*

201-Shelton Vista  
Plot-71, Sector-28,  
Nerul West  
Navi Mumbai-400706  
Maharashtra  
Tele: 09819846451

**NAIK**

Group Chairman  
BE

FNAE, MIIW

*Address (Off)*

Larsen & Toubro Ltd.,  
L&T House,  
Ballard Estate,  
Mumbai-400001

Tele: 022-66965339 Tele: 022-26462515, 26461339

Email: cmd@larsentoubro.com

Formerly CEO and MD, L&T

**Mr. Anilkumar Manibhai**

1942

2000

III

*Address (Res)*

High Trees, 54,  
Pali Hill, Bandra (W),  
Mumbai-400050

**NAIK**

Emeritus Professor

Ph.D.

FNAE, FNASc., FIE, FAeSI

*Address (Off)*

Aerospace Engineering  
Department,  
IIT Bombay  
Powai, Mumbai-400 076

Tele: 022-25767114

Fax: 022-25722602

Email: nknaik@aero.iitb.ac.in

**Prof. Niranjan Krishna**

1944

2005

VII

*Address (Res)*

Flat 804, A Wing,  
Gundecha Heights  
Opp St Xaviers School,  
LBS Marg  
Kanjurmarg (West)  
Mumbai 400078  
Tele: 022-25777536

**NAIK**

Professor (Adj)  
B.Tech (Hons), M.Chem.Engg.,  
FNAE, MMRSI, MISSST, MISCA

*Address (Off)*

Department of Chemical  
Engineering, Indian Institute  
of Technology, Bombay,  
Powai, Mumbai-400 076  
Tele: 022-25767210  
Fax: 022-25722545

Email: [vm.naik@iitb.ac.in](mailto:vm.naik@iitb.ac.in), [vm.naik.in@gmail.com](mailto:vm.naik.in@gmail.com)

Formerly Vice-President, Corporate Research, Unilever Research India, Bangalore

**Prof. Vijay Mukund**

1947

*Address (Res)*

House No.2, Nandadeep  
CHS Jayprakash Nagar,  
Goregaon (East),  
Mumbai-400 063  
Tele: 022-26862294

2007

IV

**NAIR**

B.Sc.(Engg)  
FNAE, MAstr.SI, MSSI

Email: [gmnaair@gmail.com](mailto:gmnaair@gmail.com)

Formerly Director, LPSC, Dept. of Space, Trivandrum and Formerly Director, VSSC, Thiruvananthapuram; Formerly Chairman, Space Commission/Chairman, ISRO and Secretary, Dept. of Space, Bangalore

**Mr. Gopalan Madhavan**

1943

*Address (Res)*

“Manjari”, Temple Road,  
Sasthamangalam,  
Thiruvananthapuram-695 010  
Tele: 04712720941

1995

VII

**NAIR**

Ph.D.  
FNAE

Email: [md.nair@outlook.com](mailto:md.nair@outlook.com), [mdnair6@gmail.com](mailto:mdnair6@gmail.com)

Formerly Vice President, SPIC Pharmaceuticals, Madras

**Dr. Mohan  
Damodaranasan**

1929

*Address (Res)*

CA44 Riviera Retreat,  
Thevara Ferry Road,  
Thevara, Kochi 682013  
Tele: 0484 4039701, 09940049701

1995

IV



**NANDI**

Professor,  
Computer Science &  
Engineering and Head  
Centre for Linguistic  
Science and Technology  
Ph.D.

FNAE, FIE, FIETE, SMACM, SMIEEE

*Address (Off)*

Department of Computer  
Science and Engineering,  
IIT Guwahati,  
Guwahati – 781039, Assam

Tele: 0361-2582357

Fax: 0361-2692767

Email: sukumar@iitg.ac.in, sukumar@nandifamily.in

Former Deputy Director, IIT Guwahati

**Prof. Sukumar**

1962

*Address (Res)*

Quarter No. F-03,  
IIT Guwahati,  
Guwahati – 781039, Assam

Tele: 0361-2919005

2016

II

**NARAHARI**

Ph.D.

FNAE, FIEEE, FNA, FASc.

*Address (Off)*

Department of Computer  
Science and Automation,  
Indian Institute of Science,  
Bangalore-560 012

Tele: 80-22932773/2468

Fax: 080-23602911

Email: hari@iisc.ac.in, narahari.yadati@gmail.com

**Prof. Yadati**

1959

*Address (Res)*

No.65, 4th Cross,  
SP Extension, Malleswaram,  
Bangalore-560 003

Tele: 080-23310265

2004

II

**NARAIN**

ME

FNAE, FIE, FIS, FIV, MICA, C.Eng.(I), MASCE

**Lt Gen (Retd) Jagdish**

1937

*Address (Res)*

437-D, Sector 29,  
Noida-201303 (U.P.)  
Tele: 95120-2454490

Formerly Engineer-in-Chief, Army Headquarters

1996

I





**NARASIMHAN**

Professor  
Ph.D.(Mech Engg)  
FNAE

*Address (Off)*

105, Heat Transfer and  
Thermal Power Laboratory,  
ME Department,  
Indian Institute of Technology  
Madras,  
Chennai-600 036,  
Tamil Nadu  
Tele: 044-22574696  
Fax: 044-22574652  
Email: arunn@iitm.ac.in

**Dr. Arunn**

1971

2015

III



**NARASIMHAN**

Ph.D.  
FNAE, FASc., FNA

*Address (Off)*

Department of Mechanical  
Engineering,  
Indian Institute of Science,  
Bangalore-560012  
Tele: 080-22932959  
Fax: 080-23600683  
Email: narasi@iisc.ac.in

**Prof. Ramarathnam**

1960

2003

III

*Address (Res)*

130, Third Main Road,  
Vinayaka Layout, Boopasandra,  
Bangalore-560094

Tele: 080-23419667



**NARASIMHAN**

Professor Emeritus,  
IIT Mumbai  
Ph.D.  
FNAE, FISH

**Prof. Sampathiengar**

1930

1988

I

*Address (Res)*

452, 7th Main, 2nd Cross,  
HAL II Stage,  
Bangalore-560 008  
Tele: 080-25280672



Email: narasim@gmail.com

**NARASIMHAN**

B.Tech, M.S., Ph.D.  
 FNAE, LMIChE, MISHMT  
*Address (Off)*  
 Department of Chemical  
 Engineering,  
 Indian Institute of  
 Technology Madras,  
 Chennai-600 036  
 Tele: 044-22574165  
 Fax: 044-22574152  
 Email: naras@iitm.ac.in

**Prof. Shankar**  
 1959

*Address (Res)*  
 B-07, Lake View Road,  
 IIT Madras,  
 Chennai-600036

Tele: 044-22576165

2013  
 IV

**NARAYANA DAS**

Dr. Raja Ramanna DRDO  
 Distinguished Fellow  
 B.Tech, M.S., Ph.D.  
 FNAE, MIChE, MMRSI, MISSS, MISOF, MFRP  
*Address (Off)*  
 Naval Physical &  
 Oceanographic Laboratory,  
 Thrikkakara,  
 Cochin-682 021 (Kerala)  
 Tele: 0484-2424492  
 Fax: 0484-2424858  
 Email: jpnas@gmail.com

**Dr. J**  
 1949

*Address (Res)*  
 'SAROVAR', D-4,  
 Fact Nagar,  
 Tripunithura-682301(Kerala)

Tele: 0484-2778475

2014  
 IX



Formerly Outstanding Scientist & Chief Controller R&D (Naval System & Materials),  
 Defence Research & Development, DRDO Bhawan, New Delhi

**NARAYANA MURTHY**

Distinguished Scientist  
 Director General Missiles  
 & Strategic Systems  
 Ph.D (Computer Science), IIIT, Hyderabad M.Tech (CSE),  
 JNTU, Hyderabad B.Tech (ECE), REC Warangal  
 Honorary Fellow, CSI  
*Address (Off)*  
 O/o DGMSS, Kanchanbagh PO,  
 Hyderabad-500058,  
 Telangana, India  
 Tele: 040-29705266  
 Fax: 040-24306002  
 Email: bhvsnm@rcilab.in; bhvsnm@gmail.com dgmss@gov.in  
 Counc.2022-2024

**Dr. BHVS**  
 1963

2016  
 VII



**NARAYANA MURTHY****Mr. N R**

1999

1946

II

M.Tech, D.Sc.(h.c.)

FNAE, FCSI, FAIMA, International Member, NAE (USA)

*Address (Off)**Address (Res)*575, 21st Main,  
Jayanagar 4T Block,  
Bangalore-560041Tele : 080-2664 9440,  
2664 9443

Tele: 080-26633718, 26638709

Fax: 080-26649444

Email: nmurthy@catamaran.vc

Formerly Chairman Emeritus, Infosys Ltd., Bangalore

**NARAYANA RAO****Mr. Myneni**

2013

1955

VIII

Managing Partner

B.Tech

FNAE, MHMA, FAPASc.

*Address (Off)**Address (Res)*

MYNENI CONSULTING,

Plot # 60A, Road # 70,

Jubilee Hills,

Hyderabad - 500 033

Tele: 040- 23115247

Tele: 040-23115342

Email: nrmyneni@gmail.com

Formerly Chairman &amp; Managing Director, MIDHANI (Mishra Dhatu Nigam Ltd ); Formerly Chief Executive Officer, MTAR Technologies, Hyderabad

**NARAYANAN****Prof. Harihar**

2003

1948

VI

Head

Ph.D.

FNAE

*Address (Off)**Address (Res)*Department of Electrical  
Engineering,

Indian Institute of Technology,

Powai, Mumbai-400 076

Tele: 022-25722545

Tele: 022-25768431

Fax: 022-25723480

Email: hn@ee.iitb.ac.in



**NARAYANAN**

Ph.D.  
FNAE, FIETE, FAe.SI

**Dr. Krishnapuram  
Gopalakrishnan**  
1942

1995  
VII

*Address (Res)*  
“MALHAAR”, 903,  
2K Cross, 9th Main,  
Kalyana Nagar, HRBR Layout,  
I Block, Bangalore-560043  
Tele: 080-25422162



Email: kgnarayanan2@gmail.com  
Formerly Chief Adviser DRDO

**NARAYANAN**

Professor and Director  
Ph.D.  
FNAE, MACM, MIEEE, MIUPRAI  
*Address (Off)*  
CVIT, IIIT Campus,  
Gachibowli,  
Hyderabad-500 032  
Tele: 040-66531144  
Fax: 040-66531413  
Email: pjn@iiit.ac.in

**Prof. Pazhayam  
Jathavedan**  
1963

2016  
II

*Address (Res)*  
A-33, Ananda Nivas,  
IIIT Campus, Gachibowli,  
Hyderabad-500 032

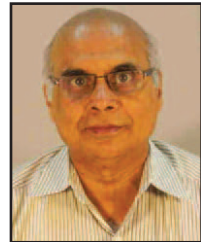
**NARAYANAN**

Academic Adviser and  
Professor Emeritus  
Ph.D.  
FNAE, FASI, FAe.SI  
*Address (Off)*  
Indian Institute of  
Information Technology  
(Design and Manufacturing),  
Kancheepuram (IIITDM),  
Melakottaiyur,  
Off Kelambakkam-  
Vandalur Road,  
Chennai-600127  
Tele: 044-27476358

**Prof. Sadagopan**  
1945 III

1997

*Address (Res)*  
H-109/2, 7th Avenue,  
Besent Nagar,  
Chennai-600 090



Email: drs.narayanan@gmail.com, 01709@iiitdm.ac.in; narayans@retiree.iitm.ac.in  
Formerly Professor, Professor Emeritus of Mechanical Engineering and Dean Academic  
Research, Indian Institute of Technology Madras( IIT Madras), Chennai

**NARAYANAN**

Director, Liquid Propulsion  
Systems Center/ ISRO  
AMIE, M.Tech., Ph.D.

FNAE, MIAF, FIE, MASI, MAst.SI, LMICC

*Address (Off)*

Liquid Propulsion Systems  
Centre, Indian Space

Research Organisation,

Department of Space,

Govt. of India,

Thiruvananthapuram-695 547

Tele:0471-2567257, 2567554    Tele: 0471-2434870

Fax: 0471-2567242

Email: director@lpssc.gov.in, v\_narayanan@lpssc.gov.in, kavinanu@gmail.com

Counc.2016-2018; 2019-2021

**Dr. V**

1964

2015

VII



*Address (Res)*

VH-17, PPN Lane,

Kuravankonam,

Kowdiayar Post,

Thiruvananthapuram-695003

**NARAYANKHEDKAR**

Chancellor

Ph.D.

FNAE

*Address (Off)*

MGM's Institute of

Health Sciences,

Kamotue,

Navi Mumbai-410 209

Tele: 022-65138119

Fax: 022-27423403

Email: kgnarayankhedkar@yahoo.com

Formerly Dean (Planning), IIT Bombay; Formerly Professor of Mechanical Engineering, and Convener, School for Cryogenic Engineering, IIT Bombay; Formerly Director, Veermata Jijabai Technological Institute (VJTI), Mumbai

**Prof. Kishan Gunderao**

1946

1998

III



*Address (Res)*

51/1602, NRI Complex,

Sectors 54/56/58, Nerul,

Navi Mumbai-400 706

Tele: 022-27525653

**NARENDRAN**

CEO and Managing Director

B.E.(Hons)

FNAE

*Address (Off)*

Tata Steel Limited,

Bombay House,

24 Homi Mody Street,

Fort, Mumbai 400001,

(India)

Tele: 022-66657274

Email: narendran@tatasteel.com

Former Vice-President - Safety, Flat Products & Long Products

**Mr. Thachat Viswanath**

1965

2016

III



*Address (Res)*

No.5, 'C' Road,

Northern Town, Jamshedpur,

Jharkhand-831 001

**NASHINE**

Outstanding Scientist  
and Director ESG and  
Associate Director SFG  
B.E. (Electrical), M.E. Ph.D. ( Electro-Magnetic Pump)  
FNAE, MIEI(I)

*Address (Off)*  
Room No. 405,  
Engg. Hall-III,  
Indira Gandhi Centre  
For Atomic Research,  
P.O.- Kalpakkam,  
Tamil Nadu-603102

Tele: 4427480093

Email: bknashine1963@gmail.com, bknash@igcar.gov.in

Director ESG and Associate Director SFG

**Dr. Basant Kumar**

1963

2021

IX

*Address (Res)*

House No. 20,  
Ring Road, Opp. Swimming Pool,  
DAE Township, P.O. Kalpakkam  
Distt.- Chengalpettu  
Tamil Nadu-603102

Tele: 9361648308

**NATARAJAN**

NASI Senior Scientist  
Platinum Jubilee Fellow  
Ph.D., D.Sc.  
FNAE, FASc., FNAsc., FIIM

*Address (Off)*  
Department of Materials  
Engineering,  
Indian Institute of Science,  
Bangalore-560 012

Tele: 080-22932679

Fax: 080-23600472

Email: kan@iisc.ac.in, kanmetalrg@yahoo.co.in,

Formerly Raja Ramanna Fellow

**Prof. Kotalai Anantha Iyer**

1942

1996

VIII

*Address (Res)*

594, 10th Cross, 4th Main,  
III Block, BEL Layout,  
Vidyanarayapura,  
Bangalore-560 097

Tele: 080-23646499

**NATARAJAN**

B.Tech, M.Tech, MSc.  
FNAE

**Mr. Manthiram**

1946

2002

III

*Address (Res)*

Plot No.8, 12th South Street,  
Sringeri, Sarada Nagar,  
Thyagaraja Colony,  
Tirunelveli-627 001 (T.N.)

Tele: 0462-2530722



Email: fsanatarajan@gmail.com

Formerly Director, CVRDE, Chennai; Formerly Chief Controller R&D, Ministry of Defence,  
New Delhi; Formerly Scientific Advisor to Defence Minister, DRDO, Ministry of Defence

**NATARAJAN**  
(Retd) Atomic Energy,  
IGCAR, Kalpakkam  
Ph.D.  
FNAE, LMIChE, LMINS

**Dr. Rajamani**  
1953

2011  
IX



*Address (Res)*  
Plot 38, Sector 13,  
Jeevan Bheema Nagar,  
Bangalore-560 075

Email: Rajamani\_natarajan@yahoo.com

Formerly Director, Reprocessing Group & Project Director, FRFCF, IGCAR;

**NATARAJAN**  
Ph.D.  
FNAE, FIE, FIPE, FISTE

**Prof. Ramamurthy**  
1941

1994  
III



*Address (Res)*  
52/1, 13th Cross Road,  
Between 4th and 6th Main Roads,  
Opp. Jayanthi Apartments,  
Malleswaram, Bangalore 560 003  
Tele: 080-23341033

Fax: 080-4128 2337

Email: natarajan60@gmail.com, prof.rnatarajan@gmail.com

Formerly Chairman, All India Council for Technical Education

New Delhi; Formerly Director, IIT Madras

Counc.-1997-98 and 1999-2000; V.P.2003-2004; 2005-2006

**NATARAJAN**  
Professor  
Ph.D.(Computer Science, Duke Univ.)  
FNAE, SMIEEE, MACM

**Prof. Vijay**  
1977

2019  
II



*Address (Off)*  
Department of Computer  
Science & Automation,  
Indian Institute of Science,  
Bangalore-560 012  
Tele: 080-22932909  
Fax: 080-23602911  
Email: vijayn@iisc.ac.in

*Address (Res)*  
EV-204, IISc. Quarters,  
Vijnanapura, New BEL Road,  
Bangalore-560094

Tele: 080-23516560

**NATH** **Prof. Sankar Kumar** 2007  
 Former Head 1960 X  
 Ph.D., M.Sc., B.Sc.  
 FNAE, FNASc., FGMMSI, FSGAT, FISTAM, MSSA,  
 MAGU, MMGMI  
*Address (Off)* *Address (Res)*  
 Department of Geology Flat No.# A-102,  
 and Geophysics, Block 03, IIT Campus,  
 Indian Institute of Technology, Kharagpur-721 302 (WB)  
 Kharagpur-721 302  
 Tele: 03222-283374, 220042 Tele: 03222-283375, 277757  
 Fax: 03222-220042, 282268  
 Email: nath@gg.iitkgp.ernet.in



**NATH** **Prof. Sunil** 2017  
 Professor 1962 X  
 Dr.-Ing  
 FNAE, LMISTE, LMSBC, LMIBS  
*Address (Off)* *Address (Res)*  
 Dept. of Biochemical 93 Vikramshila Apts.,  
 Engineering & Biotechnology, IIT Campus, Hauz Khas,  
 Indian Institute of Technology, New Delhi 110016  
 Hauz Khas,  
 New Delhi 110016  
 Tele: 011-26857457 Tele: 011-26591009  
 Email: sunath@iitd.ac.in , sunil\_nath\_iit@yahoo.com



**NAYAK** **Dr. Arun Kumar** 2020  
 Outstanding Scientist 1965 IX  
 Ph.D., M.Tech., B.Sc.(Engg)  
 FNAE, MISHMT, MINS, FMASc.  
*Address (Off)* *Address (Res)*  
 RED, Hall-7, Bhabha 3C, Malaygiri,  
 Atomic Research Centre, Anushaktinagar,  
 Trombay, Mumbai-400085 Mumbai-400085  
 Tele: 022-25591557 Tele: 022-25553887  
 Fax: 022-25505151  
 Email: nayak\_arun@rediffmail.com





**NAYAK**

Director

Ph.D. (Electrical Communication Engg)

FNAE, AFRIN, FOSI, FIETE, SMIEE, LMISSS

*Address (Off)*Centre for High Energy  
Systems & Science  
(CHESS), DRDO,  
Hyderabad**Dr. Jagannath**

1968

*Address (Res)*H.No. 6-297/1, Plot No. 21,  
Triveni Nagar, Phase IV,  
Balapur 'X' Road ,  
Hyderabad - 500097  
Tele: 040-29806886

2017

VII



Email: jnayakdr@gmail.com

Former Associate Dean, Electro- Optic Instrument Research Academy (ELOIRA) &amp; Project Director , Fiber Optics Gyro

**NAYAK**

B.Sc., M.Tech

FNAE, MIEEE

**Mr. Rabindranath**

1955

*Address (Res)*Bungalow No.GG-2,  
Powergrid Township Complex,  
Sector 43, Gurgaon  
Tele: 0124-2578315

2009

V



Email: rnnayak1955@gmail.com

Former Chairman, Power Grid Corporation of India Ltd., Gurgaon

**NAYAK**Chief Executive Officer  
& Managing Director

B.Sc. M.S.

FNAE

*Address (Off)*Tejas Networks Ltd.,  
Plot No. 25,  
JP Software Park,  
Electronics City, Phase 1,  
Hosur Road,  
Bangalore – 560 100  
Tele: 080-417940000  
Email: sanjay@tejasnetworks.com**Mr. Sanjay**

1964

2018

VI



**NERURKAR****Mr. Hemant  
Madhusudan**  
1948

2012

VIII

President  
B.Tech.  
FNAE*Address (Off)*All India Management  
Association (AIMA)  
and Chairman  
TRL Krosaki Refractories  
"Management House"  
14 ,Institutional Area  
Lodhi Road, New Delhi-03  
Tele: 011-24629664,  
011-24635012  
Fax: 011-2462 6689  
Email: nerurkarhemant@gmail.com  
Formerly Managing Director, Tata Steel Limited, Jamshedpur*Address (Res)*1201, Lodha Grandur,  
Sayani Road, Prabhadevi,  
Mumbai-400 025

Tele: 022-24380500

**NETTEM****Dr. Venkateswarlu  
Choudary**  
1956

2014

IV

Scientist Emeritus  
M.Sc., Ph.D.

FNAE, FICS, MIAS, MCSI, MISSST, MISAS

*Address (Off)*Corporate R&D Centre,  
Hindustan Petroleum  
Corporation Ltd.,  
Devanagundi, Hoskote,  
Bangalore-560 067*Address (Res)*#001, Samruddhi Lakedrive  
Nimbekaipura, Old Madras Road,  
Near Budigere Cross,  
Benguluru-560049

Tele: 080-28078600

Tele: 080-43364874

Email: nettemv@yahoo.com, nettemvc@hpcl.co.in  
Former General Manager(R&D) – I/c**NILEKANI****Mr. Nandan**  
1955

2010

II

Non Executive Chairman  
of the Board, Infosys  
B.Tech

FNAE, MICRIER

*Address (Off)*# 856, 13th Main Road  
III Block, Koramangala  
Bengaluru - 560 034  
Tele: 080-28520351/28520261  
Fax: 080-28520352

Email: nandan\_mn@infosys.com, nandan@nandannilekani.in

Formerly Co-Chairman of the Board of Directors of Infosys Technologies Ltd.; Former  
Chairman, Unique Identification Authority of India (UIDAI), New Delhi

**OJHA**

Institute Chair Professor  
B.E., M.E., Ph.D., DIC  
FNAE, FISH

*Address (Off)*

Civil Engineering  
Department,  
IIT Roorkee, Haridwar  
Uttarakhand-247667

Tele: 01332-285494

Fax: 01332-273560

Email: c.ojha@ce.iitr.ac.in

Former Professor & Head, Civil Engineering Department, IIT Roorkee

**Prof. Chandra Shekhar  
Prasad**

1962

*Address (Res)*

6/2 Niti Nagar,  
IIT Roorkee, Haridwar  
Uttarakhand-247667

2020

I

**PADHI**

Professor

Ph.D.(Aerospace Engg),

M.E(Aerospace Engg), B.E.(Mech Engg)

FNAE, FIETE, FIE, AFAIAA, SMIEEE, MACA

*Address (Off)*

Department of Aerospace  
Engineering,  
Indian Institute of Science,  
Bangalore-560 012

Tele:080-22932756

Fax: 080-23600134

Email: padhi@iisc.ac.in, r\_padhi@rediffmail.com, radhakant.padhi@gmail.com

Associate Professor, Dept of Aerospace Engg, IISc., Bangalore

**Prof. Radhakant**

1972

*Address (Res)*

NE-02, New Housing Complex,  
Indian Institute of Science,  
Bangalore-560 012

Tele: +91-80-2950-9900

2019

VII

**PADHY**

Professor and  
NEEPCO Chair

Ph.D.(Elect. Engg)

FNAE, SMIEEE(USA), FIET(UK)

*Address (Off)*

Department of Electrical  
Engineering,  
Indian Institute of Technology,  
Roorkee-247 667  
(Uttarakhand)

Tele: 01332-285587

Fax: 01332-273560

Email: nppeefee@gmail.com

**Prof. Narayana Prasad**

1969

*Address (Res)*

A-202, Canal View, 39,  
Civil Lines, IIT Roorkee,  
Roorkee-247 667  
(Uttarakhand)

2014

V



**PADIYAR**

Ph.D.  
FNAE, SMIEEE

**Prof. Kallianpur  
Rajmohan**  
1941

1994

V

*Address (Res)*  
306, Shashikiran Apartments,  
18th Cross Road, Malleswaram,  
Bangalore-560 055  
Tele: 080-23671924



Email: krpyar@gmail.com

Formerly Honorary Professor, Department of Electrical Engineering, Indian Institute of Science, Bangalore

**PADMANABHAN**

Professor of Eminence  
(Honorary), Anna University,  
Member, Research &  
Innovation Advisory Board,  
TCS; Research Advisor, TCS  
Ph.D., Sc.D.

FNAE, FNASc., FIMMM, FASc., FIIM, FIE, C.Engr.(UK),  
MMRSI, MMRS, MAPAM, Hony.Acad. Bashkirian Academy of  
Sciences (Russia), FWIF (London)

*Address (Off)*  
Department of Mechanical  
Engineering,  
Central Workshop Building,  
College of Engineering,  
Guindy, Anna University,  
Chennai-600 025

**Prof. Kuppuswamy  
Anantha**  
1945

1993

VIII

*Address (Res)*  
7200 Kentwood Avenue  
Los Angeles  
California 90045  
U.S.A.



Tele: +1 310 908 3959

Email: kap@annauniv.edu, ananthaster@gmail.com, kap19452002@yahoo.co.in

Formerly Director, IIT Kanpur and Formerly Vice-Chancellor, South Asia International Institute; Rector, Sylvan International Universities, Baltimore, USA; Formerly Jawaharlal Nehru Chair Professor, University of Hyderabad, Hyderabad; Former University of Hyderabad Chair Professor and Research Advisor, TCS, School of Engineering Sciences & Technology, University of Hyderabad, Hyderabad  
Counc.2001-2002

**PADMANABHAN**

Deputy Managing Director  
B.Tech, M.S., Ph.D.  
Fellow, ACM Fellow, IEEE

*Address (Off)*  
Microsoft Research India,  
Vigyan, #9, Lavelle Road,  
Bangalore-560001  
Tele: 080-66586004

Email: padmanab@acm.org

**Dr. Venkata Narayana**  
1971

2014

VI



**PAI**

Professor Emeritus  
Ph.D.  
FNAE, FNA, FIE, FIEEE  
*Address (Off)*  
Department of Electrical &  
Computer Engineering,  
University of Illinois,  
1406 W.Greet St., Urbana,  
IL 61801, USA  
Tele:+217-344-0977  
Fax: +217-333-1162  
Email: mapai@illinois.edu

**Prof. Mangalore Anantha**

1931  
*Address (Res)*  
33 Rockwood,  
Irvine CA 92614, USA

1991

V

Tele: +217-244-0977



**PAL**

Director, UGC-DAE  
Consortium for Scientific  
Research  
Ph.D.  
FNAE, FNA, FASc., FNASc., JC Bose National Fellow  
*Address (Off)*  
UGC-DAE Condortium  
for Scientific Research,  
Khandwa Road,  
University Campus,  
Indore 452001, M.P.  
Tele: 0731-2463913  
Fax: 033-24732805  
Email: sspajp@iacs.res.in, amlan.pal@gmail.com  
Indian Association for the Cultivation of Science

**Prof. Amlan Jyoti**

1960  
*Address (Res)*  
A-4/11/44  
Calcutta Greens Towers,  
1050/2 Survey Park,  
Kolkata 700075

2013

VIII



**PAL**

Ph.D.  
FNAE, FIETE, FNASc., FNA, FIFSA, FTWAS, FIEEE  
*Address (Off)*  
Electronics & Communication  
Sciences Unit,  
Indian Statistical Institute,  
203, Barrackpore Trunk Road,  
Kolkata-700108  
Tele: 033-25752906  
Fax: 033-25773035, 25776680  
Email: nikhil@isical.ac.in

**Prof. Nikhil Ranjan**

1959  
*Address (Res)*  
Pragatinagar,  
Chinsurah (RS),  
Hooghly-712102 (WB)

2002

II

Tele: 033-25444365



**PAL** **Prof. Samir Kumar** 2020  
 Senior Professor 1970 X  
 Ph.D.  
 FNAE, MIPS, MIACS, MACS  
*Address (Off)*  
 Department of Chemical,  
 Biological and Macromolecular  
 Sciences, S. N. Bose National  
 Centre for Basic Sciences,  
 J. D. Block, Sector III,  
 Salt Lake, Kolkata-700 106  
 Tele:033-2335-5708  
 Email: skpal@bose.res.in, skpal2020.snbncbs@gmail.com



**PAL** **Prof. Sankar Kumar** 1995  
 National Science Chair, 1950 II  
 AICTE-Distinguished  
 Chair Professor,  
 ISI-Emeritus Professor  
 Ph.D. (Sci.), Ph.D.(Engg.), B.Tech., M.Tech.  
 FNA, FASc, FNAsc, FNAE, FTWAS, FIEEE, FIAPR, FIFSA,  
 FIRSS, FAAIA  
*Address (Off)* *Address (Res)*  
 Center for Soft Computing B-4, Lake View Park,  
 Research, Indian Statistical PO ISI, Kolkata-700 108  
 Institute, 203,  
 Barrackpore Trunk Road,  
 Kolkata-700 108  
 Tele: 033-2575-2040 Tele: 033-2575-2030  
 Fax: 033-25788699/3357  
 Email: sankar@isical.ac.in, sankarpal@yahoo.com  
 Former Director & Distinguished Scientist, Indian Statistical Institute; INSA Distinguished  
 Professor; JC Bose National Fellow; DAE Raja Ramanna Fellow; INAE Chair Professor  
 Counc.2007-2008



**PAL** **Dr. Surendra** 1995  
1948 VI

Ph.D.

FNAE, FNASc, FIET(UK), Dist.FIETE, FIEEE(USA), SMIEEE, FVEDA, MAMTA(USA), M.Astr.SI, MIAA(Paris), Ch.Eng (UK), FATMA, Distinguished Fellow Astr.S.I.

*Address (Res)*

No-3, "Shivam", 9th Cross,  
Near BESCO Office,  
ISRO Layout, Bangalore-560011  
Tele: 080-26666634



Email: pal\_surendra@hotmail.com

Formerly : Vice Chancellor – Defence Institute of Advanced Technology (Ministry of Defence) Pune, Dr. D.S. Kothari (DRDO) Chair, President IETE (2012-2014), Distinguished Alumni BITS –Pilani, Prof. Satish Dhawan Professor and Senior Adviser- Satellite Navigation (ISRO) Aditya Birla Chair BKBIT –Pilani, Hon. Professor-Amity University Noida (UP), Distinguished Scientist, Associate Director –ISRO Satellite Centre (Presently-URSC) Bangalore, Founder Programme Director Satellite Navigation (ISRO), Chairman GAGAN (A joint SATNAV-WASS a joint Programme of ISRO and AAI- Ministry of Civil Aviation-GOI), Deputy Director Digital and Communication Area (ISAC-ISRO), Group Director and Outstanding-Scientist Communication. ISAC (ISRO) Counc.2001-2002 and 2003-2004, 2013-15

**PAL CHAUDHURI** **Prof. Parimal** 1997  
1941 II

Ph.D.

FNAE

*Address (Off)*

Cellular Automata Research  
Lab (CARL), Rajarhat,  
Kolkatta - 700 156

*Address (Res)*

Peak 25 D1, Hiland Park,  
Kolkata 700 094

Tele: 033-24625323



Email: palchau@gmail.com

Formerly Professor, Dept. of Computer Science & Technology, Bengal Engg. College, Howrah

**PANDA** **Prof. Ganapati** 2001  
1948 VI

Professorial Fellow,  
IIT Bhubaneswar,  
Research Advisor

Post Doct. (University of Edinburgh, UK), Ph.D.(IIT Kharagpur)

FNAE, FNASc., LMCSI, SMIEEE, FIETE, FIE, LMISTE, LMSSI

*Address (Off)*

CV Raman College of  
Engineering, Bhubaneswar,  
DSW Building, Bidyanaagar,  
Mahura, Janla, Khordha-752054

*Address (Res)*

K8/80, K8 Kalinga Nagar,  
Near SUM Hospital, Ghatikia,  
Bhubaneswar-751003, (Odisha)

Tele: 09437048906

Tele: 0674-2721906

Email: ganapati.panda@gmail.com, gpanda@iitbbs.ac.in

Former Professor and Deputy Director, IIT Bhubaneswar



**PANDIA**

Company Director  
and Advisor  
B.Tech, M.S.  
FNAE, Hon.FICh.E

**Mr. Rajeev Mahendra**  
1949

2015  
IV

*Address (Res)*

18A Tanna Residency,  
392 Veer Savarkar Marg,  
Opp Siddhivinayak Temple,  
Prabhadevi, Mumbai 400025

Email: Rajeev.Pandia@gmail.com

Formerly Group Adviser and Director-Global Markets

**PANDIAN**

Distinguished Scientist,  
Prof Vikram Sarabhai  
Distinguished Professor,  
VRC,  
M.E., Ph.D.

FNAE, FASI, FAstrSI, FIE, MSSSI, MSAME, MIAA, MSWRS

*Address (Off)*

Vikram Sarabha Space  
Centre, Thumba PO,  
Trivandrum-695022  
Tele: 0471-2564161, 2564157

*Address (Res)*

HSRA B 44, Kalady,  
Karamana,  
Trivandrum-695002  
Tele: 0471-2347466

Email: s\_pandian@vssc.gov.in; samipandian@yahoo.com

Former Director, Satish Dhawan Space Centre SHAR ISRO; Director, ISRO Propulsion Research Complex; Associate Director, VSSC; Deputy Director, VSSC (AERO); Project Director, Hypersonic Wind Tunnels Project, VSSC

2017  
VII

**PANDIT**

J.C. Bose National Fellow,  
UGC Research Scientist,  
Professor and Vice Chancellor  
Ph.D.

FNAE, FTWAS, FNA, FASc., FNASc., FMASc.

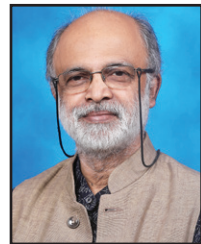
*Address (Off)*

Institute of Chemical  
Technology,  
Nathalal Parekh Marg,  
Matunga,  
Mumbai-400 019

**Prof. Aniruddha  
Bhalchandra**

1957

2007  
IV

*Address (Res)*

E-3, Prashant CHSL,  
SB Marg, Mahim,  
Mumbai-400 016

Tele: 022-33611111

Tele: 022-24302660

Fax: 022-33611002

Email: ab.pandit@ictmumbai.edu.in; vc@ictmumbai.edu.in, dr.pandit@gmail.com

V.P.2021-2023



**PANDU RANGAN**

Ph.D.

FNAE, MIACR

*Address (Off)*

Department of Computer  
Science & Engineering,  
Indian Institute of Technology,  
Madras, Chennai-600 036

Tele: 044-22574358

Fax: 044-22574352

Email: prangan55@yahoo.com

**Prof. Chandrasekaran**

1955

*Address (Res)*

B-14, Lake View Road,  
IIT Campus, Madras,  
Chennai-600 036

Tele: 044-22576358

2006

II

**PANIGRAHI**

Associate Professor

Ph.D.(Elect. Engg)

FNAE, SMIEE, MIANEG

*Address (Off)*

Department of Electrical  
Engineering, Indian Institute  
of Technology Delhi,  
HauzKhas, New Delhi-110016

Tele: 011-26591078

Fax: 011-26581606

Email: bkpanigrahi@ee.iitd.ac.in

**Dr. Bijaya Ketan**

1968

2015

V

**PANIGRAHI**

Director

Ph.D (Mining Engineering),

M.Tech (Mining Engineering),

M.Tech (Industrial Engineering &amp; Management),

B.Tech (Mining Engineering)

FNAE, FIE, MGMII, MISTE

*Address (Off)*

Indian Institute of Technology  
(Indian School of Mines),  
Dhanbad, Admin Block  
Dhanbad-826004,  
(Jharkhand)

Tele: 0326-2235201/2296601

Fax: 0326-2296603

Email: dc\_panigrahi@yahoo.co.in

**Prof. Durga Charan**

1961

*Address (Res)*

Director,  
Indian Institute of Technology  
(Indian School of Mines),  
Dhanbad, Scolomin House  
Dhanbad-826004, Jharkhand

Tele: 0326-2235301/2296602

2016

VIII



**PANT** **Prof. Kamal Kishore** 2020  
 Petrotech Chair Professor 1965 IV  
 and Head, Dept of Chemical  
 Engineering, IIT Delhi,  
 Joint Faculty, CRDT, IIT Delhi,  
 Adjunct Professor,  
 University of Saskatchewan,  
 Canada, Honorary Faculty,  
 University of Queensland, Australia  
 Ph.D. (Chemical Engineering)  
 FNAE, FRSC(UK), FNASc., FIIChe, FIE(I), FBRSI,  
*Address (Off)* *Address (Res)*  
 Department of Chemical 26, Vikramshila Appt.,  
 Engineering, Block -2 IIT Delhi Campus,  
 IIT Delhi, Hauz Khas, IIT Delhi Hauz Khas,  
 New Delhi-110016 New Delhi-110016  
 Tele:011-26596172 Tele: 011-26591878  
 Fax: 011-26581120  
 Email: kkpant@chemical.iitd.ac.in, dr.kkpant@gmail.com  
 Former Professor, Dept of Chemical Engineering, IIT Delhi



**PARAB** **Mr. Anil Vithal** 2012  
 Executive Vice President & 1961 IX  
 Head - Heavy Engineering IC,  
 B.E.(Mechanical)  
 FNAE, MINS, MWNA, MANS  
*Address (Off)* *Address (Res)*  
 Larsen & Toubro Limited, 904 - "A" Wing,  
 Heavy Engineering IC, Oberoi Park View Thakur Village,  
 SBU Block, Gate No.1, Kandivali (E), Mumbai - 400 101  
 Hazira Manufacturing Complex,  
 Surat 394 510 (Gujarat)  
 Tele: 0261-2805414 Tele: 09920927718  
 Fax: 0261-2805063  
 Email: anil.parab@larsentoubro.com  
 Formerly Vice-President, Larsen & Toubro Limited, Mumbai



**PARIKH** **Prof. Pravina Pravin** 1996  
 Professor Emeritus 1941 III  
 Ph.D.  
 FNAE, MSAE (USA)  
*Address (Off)* *Address (Res)*  
 CESE, IIT Bombay, 502-A, Golden Oak,  
 Powai, Mumbai 400 076 Hiranandani Gardens,  
 Powai, Mumbai-400 076  
 Tele: 022-25723496, Tele: 022-25704646  
 Email: b2parikh@gmail.com  
 Formerly Professor, Department of Mechanical Engineering, IIT Bombay



**PARTHASARATHY**

Adviser

Ph.D.

FNAE, SMIEEE

*Address (Off)*

Power Research &  
Development Consultants  
Pvt. Ltd., #4, Ist 'B' Main,  
Ist 'N' Block, Rajajinagar,  
Bangalore-560010

**Prof. Krishna Iyengar**

1936

1993

V

*Address (Res)*

46, Srinivasa, 2nd Main Road,  
9th Cross, Hanumanth Nagar,  
Bangalore-560 019

Tele: 080-26621977

Fax: 080-23322321, 23427321

Email: prdc@vsnl.com

Formerly Professor, Dept. of Electrical Engg., IISc., Bangalore

**PARULKAR**

Senior Principal

Technologist

B.Tech, M.S., Ph.D.

FNAE, MIEEE, MACM

*Address (Off)*

Amazon Development  
Center, One BKC - Tower A,  
6th Floor, C-66, G Block,  
Bandra Kurla Complex,  
Mumbai-400 051

Tele: 9611128639

Email: ishwar.parulkar@gmail.com, ishpar@amazon.com

Former Distinguished Engineer, CISCO

**Dr. Ishwardutt**

1966

2017

VI

*Address (Res)*

Apt 5E, Gulmohar Apartment,  
20 Convent Road,  
Richmond Town,  
Bangalore-560 025

**PATEL**

Technology Consultant

BE, M.Tech, Ph.D.

FNAE, FIEE, FSPE, SMIEEE(USA)

**Dr. Jashvant****Jayarambhai**

1952

2006

V

*Address (Res)*

6/A Jashlok Society  
Manjalpur  
Vadodara 390011  
(Gujarat)



Email: jashvant52@gmail.com

Formerly Vice-President : R&amp;D, ABB Ltd., Vadodara; Formerly Vice-President &amp; Head, CG Global R&amp;D Centre, Crompton Greaves Ltd., Mumbai

**PATEL** **Mr. Vithalbhai** 1994  
**Becharbhai**  
 President 1933 X  
 BE  
 FNAE, FIE, FIWRA(USA), MIWRS, MIWWA, MIAH  
*Address (Off)* *Address (Res)*  
 Multi Mantech International 128, Manekbaug Society,  
 Pvt. Ltd., M. Square, Ambawadi,  
 Millennium Plaza, Ahmedabad-380 015  
 Judges Bungalows Road,  
 Vastrapur, Ahmedabad-380 015  
 Tele :079-26750515-16-17 Tele: 079-26611762, 26610511  
 Fax: 079-26764099  
 Email: vbpatel@mmipl.in, hvp@mmipl.in  
 Formerly Chairman, Central Water Commission & Ex.Officio Secretary, Govt. of India



**PATIL** **Mr. Jayant Damodar** 2017  
 Whole-time Director 1954 III  
 (Defence & Smart Technologies)  
 & Member of the Board,  
 Larsen & Toubro Limited  
 M.Tech., B.E. (Hons)  
 FNAE, PMA - India  
 (Member of IPMA- International Project Management Association)  
*Address (Off)* *Address (Res)*  
 Larsen & Toubro Ltd., 2702, Torino, South Avenue,  
 Gate 1, G4 Building, Hiranandani Gardens, Powai,  
 2nd Floor, Saki Vihar Road, Mumbai-400 076  
 Powai, Mumbai-400 072  
 Tele: 022-67052021 Tele: 022-25708421  
 Fax: 022-67054160  
 Email: jayant.patil@larsentoubro.com  
 Former Sr. Vice-President, L&T



**PATKI** **Mr. Anant Vishwanath** 2002  
 1943 VII  
 ME(Aero)  
 FNAE, FAeSI, FIE, FASI, FMASc, MISAMPE,  
 MISTAM, LMAstroSI  
*Address (Res)*  
 Flat No.B 2/202,  
 Dahanukar Regency, Plot No.1,  
 Dahanukar Colony, Kothrud,  
 Pune-411 029  
 Tele: 020-25389669



Email: patki.anant@gmail.com  
 Formerly Outstanding Scientist, ISRO Satellite Centre, Bangalore; Formerly Chief Engineer,  
 Integrated Engg Solutions, Satyam Technology Centre, Hyderabad

**PATNAIK**

Adjunct Professor and  
INSA Senior Scientist

Ph.D, D.Sc.

FNAE, FNA, FASc, FNASc, FTWAS, FIEEE, FCSI, FIE,  
FIETE, MISTE

*Address (Off)*

National Institute of  
Advanced Studies,  
Indian Institute of Science  
Campus, Bangalore 560012

**Prof. Lalit Mohan**

1976

1992

II

*Address (Res)*

Apartment No.313,  
Sriniket Apartments, 19/8,  
First Cross, MS Ramaiah College Road,  
Mathikere, Bangalore-560 054  
Tele: 080-23602635



Email: patnaiklm@yahoo.com, lalitblr@gmail.com

Formerly Vice-Chancellor, Defence Institute of Advanced Technology (DIAT), Ministry of  
Defence, Pune; Former Honorary Professor, Department of Electronics Systems Engineering,  
Indian Institute of Science, Bangalore  
Counc.-2000-2002

**PATWARDHAN**

Professor of Chemical  
Engineering and Head,

Ph.D. (Chemical Engg)

FNAE, FMASc., LMIChE

*Address (Off)*

Department of Chemical  
Engineering, Institute of  
Chemical Technology,  
N.M., Parikh Marg,  
Matunga, Mumbai-400 019

Tele : 022-33612018

Email: aw.patwardhan@ictmumbai.edu.in

**Prof. Ashwin Wasudeo**

1972

2018

IV

*Address (Res)*

B-106, Palvi Building,  
Greenfield Society, Plot 8,  
Sector 16-A, Vashi,  
Navi Mumbai-400 703

Tele: 9869201715

**PATWARDHAN**

Professor

B.Tech.(Chem Engg), M.Tech (Chem. Engg.),

Ph.D.(Systems & Control Engg.)

FNAE

*Address (Off)*

Department of Chemical  
Engineering, Indian Institute  
of Technology Bombay,  
Powai, Mumbai-400 076

Tele:022-25767211

Fax: 022-25726895

Email: sachinp@iitb.ac.in

**Prof. Sachin  
Chandrashekar**

1964

2019

IV

*Address (Res)*

B-100, Building No.20,  
Lake Side, IIT Bombay Campus,  
Powai, Mumbai-400 076



**PATWARDHAN**

Proprietor,  
OPSIM Software  
Ph.D.  
FNAE, FASc., FMASc., AMIChE

**Dr. Vilas Shridhar**

1947

1991

IV

*Address (Res)*

3, Vibha Heights, Sane Wadi,  
Baner Road, Aundh,  
Pune-411 007  
Tele: 020-25888126



Email: vspatw@gmail.com

Formerly Deputy Director, National Chemical Laboratory, Pune

**PAUL**

Professor (HAG)  
Ph.D., M.Tech, B.M.E.  
FNAE

**Prof. Soumitra**

1966

2020

III

*Address (Off)*

Department of Mechanical  
Engineering, Indian Institute  
of Technology Kharagpur,  
West Bengal 721 302, India  
Tele: 03222-282954

*Address (Res)*

Flat No. A-179,  
G+7 Flats, Block - 2,  
West Bengal 721 302, India

Fax: 03222-255303

Tele: 03222-282955

Email: spaul@mech.iitkgp.ac.in

Former Professor, Dept of Mechanical Engg, IIT Kharagpur

**PAULRAJ**

Emeritus Professor  
Ph.D.

**Prof. Arogyaswami J**

1944

1999

VI

FNAE, Marconi Society Fellow, FNASc, FNA, FASc, FTWAS,  
FIVA, FCAE, International Member, NAE(USA), FIEEE, FAAAS

*Address (Off)*

232, Packard,  
Dept of Electrical Engg.,  
Stanford University  
Stanford CA 94305  
USA

*Address (Res)*

821, Tolman Dr Stanford  
CA 94305, USA



Tele: 650-852-0301 Tele: 650-852-0301

Fax: 650-723-2873

Email: apaulraj@stanford.edu

**PERUMAL****Mr. Ramanujam  
Varatharaja**

2003

1943

VII

BE (Mechanical Engineering), University of Madras,  
1965. ME (Aircraft Structures), Indian Institute of Science, 1967.  
FNAE

*Address (Off)*

AU-FRG Institute of

CAD-CAM,

Anna University,

Chennai - 600 025

Tele: 044-22201535

Fax: 044-22201536

Email: perumal\_rv@yahoo.com ; rv\_perumal@hotmail.com

Director, Liquid System Propulsion Center

*Address (Res)*

1076 K, TVS Colony,

Anna Nagar West Extension.,

India, Tamil Nadu,

Chennai, 600101

Tele: 044 2654 0622

**PHILIP**

Professor

Ph.D.

FNAE, FRSC, MASCE

*Address (Off)*

Environmental &amp; Water

Resources Engineering,

Department of Civil

Engineering, Indian Institute

of Technology Madras,

Chennai-600036

Tele: 044-22574274

Fax: 044-22574252

Email: ligy@iitm.ac.in

**Prof. Ligy**

1968

2017

I

*Address (Res)*

Tele: 044-22576274, 9884274581

**PITHAWA****Mr. Chandrakant**

2013

1951

VI

B.E. (Electrical); M.E. (Automation); M.S. (Electronics)

FNAE, MINS, MCSI

*Address (Res)*

D-1001, Golf View Apartment,

Nanakramaguda, Seringampally

Mandal, Ranga Reddy District,

Hyderabad-500 032, Telangana

Tele: 040-49508977



Email: pithawa@gmail.com, pithawa@yahoo.com

Former Distinguished Scientist and Director, Electronics &amp; Instrumentation Group, BARC.

**PITRODA****Dr. Satyan (Sam) G**  
19422008  
VI

B.S.(Physics), M.S.(Physics), M.S.(Elect)  
 FNAE, FCSI, FAIMA, International Member, NAE(USA)  
*Address (Res)*  
 301, Trinity Lane,  
 Oak Brook, Illinois-60523,  
 USA



Email: sam@sampitroda.com

Former Adviser to PM, Public Information Infrastructure and Innovations, Planning Commission, New Delhi

**POPLI****Mr. Kuljit Singh**  
19602017  
IX

B.Sc.(Engg), PG Dip in Project Management, LLB  
 FNAE, FIE

*Address (Res)*  
 11/1, Nehru Enclave (East),  
 New Delhi-110003



Email: kspopli@gmail.com

Former Chairman &amp; Managing Director, Indian Renewable Energy Development Agency Ltd., New Delhi

**PRABHAKARA RAO****Prof. Keelapatla**  
19391997  
VII

Consultant  
 Ph.D.  
 FNAE, FIE, FAe.SI, Assoc.FAIAA

*Address (Res)*  
 #2235, NE 8th Ct, Hillsboro,  
 OR 97124, Oregon, U.S.A.



Email: keelapkr@gmail.com.

Formerly Professor, Department of Aerospace Engineering, IISc., Bangalore

**PRABHU****Prof. Bantwal Srinivasa**  
19401999  
III

Visiting Emeritus Professor  
 Ph.D.  
 FNAE, MASME, MSTLE, MTSI, MIPE, MAMM  
*Address (Off)*

Mandsaur Institute of  
 Technology, Mandsaur

*Address (Res)*  
 Flat 201, Pushkar Apartment,  
 Gayatri Devi Temple Road,  
 Car Street, Mangalore,  
 Karnataka-575001



Email: bsprabhu@hotmail.com, bantwalprabhu@gmail.com

Formerly Professor, Department of Applied Mechanics, IIT Madras; Director, Manipal Institute of Technology, Manipal



**PRADEEP**

Professor  
B.Sc., M.Sc., Ph.D.  
FNAE, FASc.

*Address (Off)*

Department of Chemistry,  
Indian Institute of Technology  
Madras, Chennai-600036  
Tele: 044-22574208  
Fax: 044- 22570545

Email: [pradeep@iitm.ac.in](mailto:pradeep@iitm.ac.in); [pradeepoffice201401@gmail.com](mailto:pradeepoffice201401@gmail.com)

**Prof. Thalappil**

1963

2014

X

*Address (Res)*

C4, Third Loop Road,  
Indian Institute of Technology  
Madras, Chennai-600036  
Tele: 044-22576208

**PRADHAN**

Professor  
Ph.D.(Engg)  
FNAE, FIE(I), SMIEEE

*Address (Off)*

Department of Electrical  
Engineering, Indian Institute  
of Technology Kharagpur,  
Kharagpur-721 302 (WB)  
Tele: 03222-283099  
Fax: 03222-282262

Email: [akpradhan@ee.iitkgp.ac.in](mailto:akpradhan@ee.iitkgp.ac.in), [pradhan.ashok@gmail.com](mailto:pradhan.ashok@gmail.com)

**Prof. Ashok Kumar**

1967

2013

V

*Address (Res)*

B-199, IIT Campus,  
Kharagpur-721302 (WB)

Tele: 03222-283099

**PRADHAN**

Ph.D.  
FNAE, FIETE, SMIEEE

**Dr. Bishnu Das**

1939

2001

VI

*Address (Res)*

E-7, Beach House Park,  
Gandhigram Road,  
Mumbai-400049  
Tele: 022-26203017



Email: [bishnu.pradhan@gmail.com](mailto:bishnu.pradhan@gmail.com)

Formerly Executive Director, C-DOT; Senior Vice-President & Regional General Manager, ICO Global Communications, Mumbai; Formerly Director (Technology Dev.) and General Manager, Maharashtra Hub Asia, Media Lab Asia, Mumbai; Formerly Advisor, Kamel Rekhi School of Information Technology, Indian Institute of Technology, Mumbai

**PRADIP**

Former Vice-President, TCS

Ph.D., M.S., B.Tech

FNAE, FNA, FIIM, International Member, NAE(USA), FIMMM(UK)

*Address (Off)*

Tata Research Development

&amp; Design Centre (TRDDC)

(A Division of Tata

Consultancy Services Ltd.),

54B, Hadapsar Industrial

Estate, Pune-411013

Tele: 020-66086209, 9225518568

Email: pradip18568@gmail.com

V.P. 2018-2020

**Dr.**

1956

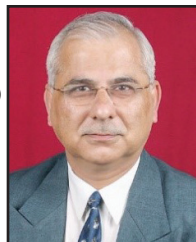
2001

VIII

*Address (Res)*

A3/504, Oxford Village,

Wanowrie, Pune-411040

**PRAHLAD**

PES Chair Professor in

Fluid Mechanics

Ph.D.

FNAE, FAESI

*Address (Off)*

PES University,

Department of Mechanical

Engineering, Banashankari

3rd Stage, Bangalore-560085

Tele: 080-26722448, 26721983

Email: tumkur\_prahlad@yahoo.com

Formerly Director/Distinguished Scientist, CSIR-National Aerospace Lab., Bangalore

**Dr. Tumkur Seetharamiah**

1940

1998

VII

*Address (Res)*

No.15, 17th Cross,

JP Nagar, 5th Phase,

(Opp. AV Education Society),

Bangalore-560 078

Tele: 080-26493092

**PRAHLADA**

Pro Chancellor

S-VYASA University,

Bangaluru and Adjunct Faculty,

Ph D., ME

FNAE, FIE, FAPAS, FTAS, FASI, FAESI, FISSE, FSWRI, FIETE

*Address (Off)*

Dept of Management

Indian Institute of Science,

Bangaluru

**Dr. Ramarao**

1947

2003

VII

*Address (Res)*

442 B, Flat No.2A, Naman

Apartment, 2nd Cross,

Ideal Homes Township,

Raja Rajeswarinagar,

Bangaluru-560 098

Tele: 07760785666



Email: prahlada.ramarao@gmail.com

Formerly Outstanding Scientist &amp; Director, Defence Research &amp; Development Laboratory,

Hyderabad; Formerly Distinguished Scientist &amp; Chief Controller R&amp;D (Services Interaction),

Defence Research &amp; Development Organisation, New Delhi; Former Vice-Chancellor, DIAT

(DU), Pune

**PRAKASH**

Chairman,  
European Hygienic  
Engineering Design Group,  
India Region,  
Adjunct Professor at Ramaiah  
University of Applied Sciences  
(RUAS), Bangalore and  
Vice President, IUNS  
Ph.D.

FNAE, FASc, FNASc, FNAAS, FIFT(US), FRSC, CFS

*Address (Off)*

# 58, 5A MAIN,  
VONTIKOPPAL,  
Karnataka-570002

Tele: 0821-4263004

Email: prakashvish@gmail.com

Formerly Director, CFTRI, Mysore; Distinguished Scientist of CSIR, New Delhi

**Dr. Vishweshwaraiah**

1951

2003

IV

**PRAMANIK**

Professor Emeritus  
Ph.D.

FNAE, FNASc., C.MATH, FIMA(UK), C.Eng.,

FIE, FIETE, SMIEEE, SMCSI

*Address (Off)*

Department of Electrical  
Engineering,  
College of Engineering,  
Shivaji Nagar, Pune

Tele: 020-25507122 Tele: 020-350844

Email: ap@elec.coep.org.in, ashu.pramanik@gmail.com

Formerly Sr. Dy. General Manager, BHEL (R&D)  
Counc.-1993-95

**Dr. Ashutosh**

1935

1992

V



*Address (Res)*

Flat No.48,  
Aranyeshwar Park (Block B),  
Sahakar Nagar, Pune  
(Maharashtra)

**PRASAD**

S.M.

FNAE, FASME

**Mr. Arun**

1929

1990

III



*Address (Res)*

6/44, Seshadri Road,  
Gandhinagar PO,  
Bangalore-560 009  
Tele: 080-22260829

Email: prasadarun@yahoo.com

Formerly Director, Gas Turbine Research Establishment, Bangalore; Former Director & Adviser, Turbo Tech Precision Engineering Co. Ltd.

**PRASAD**  
 Chairman  
 BE, MBA, D.Sc(h.c.)  
 FNAE, FIE, FIME, MAIMA, MASME  
*Address (Off)*  
 Patikari Power Private Ltd.,  
 Plot No. 143-144, 1st Floor  
 Udyog Vihar Phase IV  
 Gurgaon – 122015 Haryana  
 Tele:0124-4780039  
 Email: crprasad14@gmail.com  
 Chairman & Managing Director, GAIL (India) Limited  
 Counc.2010-2012

**Dr. Chunchu Raghuvera**  
 1941  
 1999  
 IV  
*Address (Res)*  
 A-297, 2nd Floor,  
 Sushant Lok Phase - I,  
 Gurgaon - 122 002 (Haryana)  
 Tele: 0124-4017799



**PRASAD**  
 Ph.D.  
 FNAE, FNA, FASc., FIETE, SMIEEE  
*Address (Off)*  
 Department of Electrical  
 Engineering, Indian Institute  
 of Technology, Hauz Khas,  
 New Delhi-110 016  
 Tele: 011-26591115  
 Email: sprasad@ee.iitd.ac.in, sprasad.iitd@gmail.com  
 Formerly Director, IIT Delhi  
 Ed. Pub.-1995-98; Counc.2003-2004 and 2010-2012

**Prof. Surendra**  
 1948  
 1993  
 VI  
*Address (Res)*  
 D-2/203, Parsvnath Exotica,  
 Golf Course Road,  
 Sector 53,  
 Gurgaon 122011  
 Tele: 0124-4067489



**PRASAD**  
 Ph.D.  
 FNAE, FNA  
 Email: prasad\_yvrk@hotmail.com  
 Formerly Professor, Dept of Metallurgy, IISc, Bangalore

**Prof. Yellapregada Venkata Rama Krishna**  
 1944  
 1990  
 VIII  
*Address (Res)*  
 2/B, Hospital Extension,  
 Vinayak Nagar, Hebbal,  
 Bangalore-560 024  
 Tele: 080-23330673



**PRASADA RAJU**

R&D Adviser/  
Visiting Professor,  
IITs-Madras/ Hyderabad,  
Tirupati; PSG Institutions,  
Coimbatore; GMR Institute of Tech,  
Rajam; GITAM, Visakhapatnam  
Ph.D (Mech Engg)  
FNAE, FAPAS, FTAS, FIE(I)

**Dr. Dandu Radha**

1955

2015

X



*Address (Res)*  
B-17, Dayalnagar,  
Visalakshi Nagar,  
Visakhapatnam-530043  
Tele: 7093537671

Email: prasadarajudr@yahoo.com, drpraju1955@gmail.com

Former Scientist-G and Head of Division, Dept of Science and Technology, Govt of India,  
Prof of Mech Engg and Dean, MVGR College of Engg, Vizianagaram

**PRASADA RAO**

Independent Director,  
Consultancy in Engineering  
and Power Sector  
B.Tech (Mech Engg.), Post Graduation in Industrial Engg.  
FNAE, FIE

**Mr. Bontha**

1954

2015

IX



*Address (Off)*  
Flat No. X-8B, TGB  
Meghdutam Aprtments,  
Sector 50, Noida-201301  
Email: bprao1954@gmail.com

*Address (Res)*  
Flat No. X-8B,  
Meghdutam Aprtments,  
Sector 50, Noida-201301

Formerly Chairman & Managing Director, Bharat Heavy Electricals Ltd. (BHEL), New Delhi; Former Managing Director, Steag Energy Services India

**PRASADA RAO**

Ph.D.  
FNAE, FASc.  
*Address (Off)*  
Sarasi Jam Technologies,  
DDA SFS Flat No.600,  
Sec-13, Phase 2, Pocket-B,  
Metro View Apartment,  
Dwarka, New Delhi-110078  
Email: tsrpr@hotmail.com  
Formerly Director, IIP, Dehradun

**Dr. Turaga Sundara Rama**

1939

1993

IV



*Address (Res)*  
705, Quisecent Heights  
Opp Westin Hotel  
Raheja Mindspace IT Park  
Madhapur,  
Hyderabad 500081

**PRATAP**

Professor and Chairperson  
B.Tech(Hons), M.S., Ph.D.  
FNAE, MIEEE, MISSS  
*Address (Off)*

Centre for Nano Science  
and Engineering,  
Indian Institute of Science,  
Bangalore-560012  
Tele :080-22933250  
Fax: 080-23604656  
Email: pratap.mems@gmail.com

**Prof. Rudra**

1964

2014

III

**PREMJI**

Chairman  
& Managing Director  
BS (Elec), DSc(h.c.)  
FNAE, Hon.FIETE  
*Address (Off)*

Wipro Limited,  
Doddakannelli, Sarjapur Road,  
Bangalore-560035  
Tele: 080-28440011  
Fax: 080-28440045  
Email: azim.premji@wipro.com

**Mr. Azim Hasham**

1945

2002

X

**RADHAKRISHNAN**

Chairman, Board of  
Governors of IIT Kanpur  
& Honorary Distinguished  
Advisor ISRO/DOS  
B.Sc., PGDM, Ph.D.

FNAE, FNASc, FIE, FIETE, MIAA, MAPASc., FKAS, FISRS, FIGU

*Address (Off)*  
Room No. 331,  
ISRO Headquarters,  
Department of Space,  
Antariksh Bhavan,  
New BEL Road,  
Bengaluru 560 231  
Tele: 080-23411410  
Fax: 080-23415298

**Dr. Koppillil**

1949

2009

VII



*Address (Res)*  
3D, Atria Tower,  
Aquila Heights,  
HMT Factory Main Road,  
Jalahalli, Bengaluru, 560 013

Tele: 080-67179370

Email: radhokr272@gmail.com;k\_radhakrishnan@isro.gov.in

Formerly Chairman, Space Commission/Chairman ISRO and Secretary, Dept of Space, Bengaluru; Formerly Director, Vikram Sarabhai Space Centre, Thiruvananthapuram; Formerly Director, National Remote Sensing Agency, Hyderabad; Formerly Director, Indian National Centre for Ocean Information Services, Hyderabad; Formerly Chairman, Board of Governors of IEST, Shibpur

**RADHAKRISHNAN**

Ph.D.

FNAE, FIE, FIET, FSME

**Prof. Vasudevan Pillai**

1940

1992

III

*Address (Res)*

Malathy Madhavam, 30/2816

Vazhuthacaud,

Opp. Rama Devi Mandir

Trivandrum-695010 (Kerala)

Tele: 0471- 2321611, 2328173



Email: vprmfng@hotmail.com, vpradha007@gmail.com, vradha007@yahoo.co.in

Formerly Professor Emeritus at Indian Institute of Space Science and Technology, Trivandrum,

Formerly Professor, Department of Mechanical Engineering, IIT Madras.

**RAGHAVAN**

Professor of Practice,

IIT Madras

B Tech, M Tech

FNAE, FIE, FICE (UK), MIIBE, MICI, MIHA

*Address (Off)*

BTCM Division, Civil

Engineering Department,

IIT Madras,

Chennai 600036

Tele:044- 2257 4295

Fax: 044-22575286

Email: nraghavan01@gmail.com, nraghavan@iitm.ac.in

Formerly Vice President &amp; Head-Hydel &amp; Nuclear Power Projects, Larsen &amp; Toubro Ltd,

Chennai

**Mr. Narasimhan**

1949

2010

I

*Address (Res)*

2A, Krishna Mandir, 27,

Thiruvankadam Street,

Mandaveli,

Chennai - 600 028

Tele: 044-24939974

**RAGHAVAN**

Professor

Ph.D.

FNAE, MAACGE, MMRS

*Address (Off)*

Centre for Nano Science

and Engineering (CeNSE),

Indian Institute of Science,

Bengaluru-560 012

Tele:080-22933322 Tele: 9880208054

Email: sraghavan@iisc.ac.in

**Prof. Srinivasan**

1972

2018

X

*Address (Res)*

CY 009, Vijnanapura,

New BEL Road,

Bengaluru-560 094



**RAGHAVARAO**

Professor of  
Chemical Engineering  
B.Tech, Ph.D.  
FIE, FNAE, FAFST, FNAAS, FASc., FAPASc.

*Address (Off)*

Department  
of Chemical Engineering  
I.I.T. Tirupati-517506

**Prof. KSMS**

1960

*Address (Res)*

D-22, CFTRI Residential  
Complex, Kalidasa Road,  
Jayalakshampuram,  
Mysore-570 020  
Tele: 0821-2340988

2013

IV



Email: director@cftri.res.in, raghavarao@cftri.res.in, ksmsraghavarao60@gmail.com

Former Director, CSIR-CFTRI, Mysore, Formerly Chief Scientist, Department of Food Engineering, CSIR-Central Food Technological Research Institute (CFTRI), Mysore

**RAGHUNANDAN**

Adviser to Director  
(Challakere Campus)  
B.Tech, Ph.D.  
FNAE, FASI, MAstrSI, MICI

*Address (Off)*

Indian Institute of Science  
Bengaluru 560012

**Prof. Basavanahalli  
Narasimhamurthy**

1949

*Address (Res)*

838, 6th Main Road,  
West of Chord Road,  
II Stage, Near Modi Hospital,  
Bangalore-560 086  
Tele: 080-23494658

2004

VII



Tele:080-22932498

Fax: 080-23600134, 23601279

Email: raghubn@iisc.ac.in

Former Dean, Faculty of Engg., IISc; Divisional Chairman, Earth & Environmental Sciences; Chairman, Deptment of Aerospace Engineering

**RAGHUWANSHI**

Director  
Ph.D.  
FNAE, FNAAS, MISAE

*Address (Off)*

Maulana Azad National  
Institute of Technology (MANIT),  
Link Road Number 3,  
Near Kali Mata Mandir,  
Bhopal-462003, Madhya Pradesh  
Tele:0755-4051000, 4052000, 2670900  
Fax: 0755- 2670562

**Prof. Narendra Singh**

1962

2016

X



Email: nsr@manit.ac.in, director@manit.ac.in,

Former Professor, Agricultural & Food Engineering Department, IIT Kharagpur



**RAI** **Prof Durgesh C** 2010  
 Professor 1966 I  
 BE(Hons), MS, Ph.D.  
 FNAE, MEERI, MASCE, MTMS, MNZSEE, MSESOC, LMISSET,  
 MIE, LMIRC  
*Address (Off)* *Address (Res)*  
 Department of Civil 4086, Type IV, Lane 35,  
 Engineering, Indian Institute IIT Campus,  
 of Technology Kanpur, IIT Kanpur,  
 Kanpur - 208016 Kanpur - 208 016  
 Tele:0512-2597717 Tele: 0512-2598236  
 Fax: 0512-2597794  
 Email: dera@iitk.ac.in



**RAICHUR** **Prof. Ashok M** 2017  
 Professor 1966 VIII  
 B.E.(Metallurgical Engg), MS.(Mining Engg),  
 Ph.D.(Metallurgical Engg.)  
 FNAE, FRSC, MACS, MIIM, MMRSI  
*Address (Off)* *Address (Res)*  
 Department of Materials A-212, Esteem Classic Apartment,  
 Engineering, Ist Stage, Industrial Suburb,  
 Indian Institute of Science, Rajajinagar, Bangalore-560 022  
 Bangalore-560012  
 Tele:080-22933238 Tele:  
 Fax: 080-23600472  
 Email: amr@iisc.ac.in



**RAJA** **Dr. Samikkanu** 2020  
 Chief Scientist and 1966 VII  
 Professor (AcSIR) and Head,  
 B.E., M.Tech., Ph.D.  
 FNAE, MASI, MIRD, JSPS Post-Doc Research Fellow,  
 DAAD Fellow  
*Address (Off)* *Address (Res)*  
 Structural Technological E 103, Coronet Greens Apartments,  
 Division (STTD), Bellandur Gate, Sarjapura Road,  
 CSIR-National Aerospace Bangalore-560 103  
 Laboratories, HAL,  
 Airport Road, Bangalore-560017  
 Tele:080-25086200/6201  
 Fax: 080-25262989  
 Email: raja@nal.res.in



**RAJAGOPAL**

Distinguished Professor  
B Tech, MS, Ph D

FNAE, FASME, MAAM, MSES, MASEE, MASCE

*Address (Off)*

Department of Mechanical  
Engineering, Room 230B,  
Engineering Physics Building  
(EPB), Texas A&M University  
College Station,  
TX 77843-3123, USA

Tele: +1 979 862 4552

Fax: +1 979 862 3989

Email: [krajagopal@tamu.edu](mailto:krajagopal@tamu.edu)

**Prof. Kumbakonam  
Ramamani**

1950

*Address (Res)*

6005 Augusta Circle  
College Station  
TX 77843, USA

Tele: +1 979 690 0569

2011

III

**RAJAGOPALAN**

Ph.D

FNAE, FAvHF,

*Address (Off)*

Department of Electrical  
Engineering, Indian Institute  
of Technology Madras,  
Chennai - 600 036

Tele: 044-22574433

Fax: 044-22570120

Email: [raju@ee.iitm.ac.in](mailto:raju@ee.iitm.ac.in)

**Prof Ambasamudram  
Narayanan**

1968

*Address (Res)*

No 55, First main Road,  
R A Puram, Chennai - 600 028

Tele: 044-24320510

2011

II

**RAJAMANI**

Managing Director

Ph.D.(Computer Science)

FNAE, FACM

*Address (Off)*

Microsoft Research India,  
Vigyan, #9, Lavelle Road,  
Bangalore-560 001

Tele: 09886095270,

080-66586000

Fax: 080-66586058

Email: [sriram@microsoft.com](mailto:sriram@microsoft.com)

**Dr. Sriram K.**

1970

*Address (Res)*

3064, Sobha Petunia,  
Veerannapalya, Nagawara,  
Bangalore-560 045

Tele: 080-66586000

2017

II



**RAJAN****Prof. B Sundar**

2006

1958

VI

Ph.D.

FNAE, FIETE, SMIEEE, MAMS

*Address (Off)*Department of Electrical  
Communication Engineering,  
Indian Institute of Science,  
Bangalore-560 012

Tele:080-22932855

Fax: 080-23600563

Email: bsrajan@iisc.ac.in

*Address (Res)*E-19, New Housing Colony,  
Indian Institute of Science,  
Bangalore-560 012

Tele: 080-23602085

**RAJAN****Mr. M**

2006

1947

IX

BE (Hons)

FNAE, FIICChE, FIE, FINS

*Address (Off)*13, Thirumurugan Street  
Kalakshetra Colony,  
Besant Nagar  
Chennai - 600 090

Tele:044 2446 0926

Email: rajanm@web4tamilnadu.com, rajanm1947@icloud.com, rajanm123@gmail.com

Formerly Director, Safety Group, Indira Gandhi Centre for Atomic Research, Kalpakkam

**RAJAN****Dr. Yagnaswami Sundara**

1998

1943

VII

Former Hon. Distinguished

Professor ISRO/DOS;

Former Chairman,

Board of Governors,

IT, Manipur

MSc., DLitt(h.c.), D Sc(h.c)

FNAE, FWAAS, MIAA, FIGU, MISCA, MICA, MILA

*Address (Res)*

No.524, Nalanda, 14th Cross,

7th Main, ISRO Layout,

Bangalore-560 078

Tele: 080-26660444

Fax: 080-23415770

Email: ysrajan1944@gmail.com

Formerly Senior Adviser (Technology), CII, New Delhi and Member-Secretary, office of the Principal Scientific Adviser to the Govt. of India; Formerly Scientific Adviser to CM, Punjab and Vice-Chancellor, Punjab Technical University, Jalandhar; Formerly Principal Advisor, Confederation of Indian Industry (CII), Gurgaon; Formerly Dr. Vikram Sarabhai Distinguished Professor



**RAJARAM****Mr. Bojji**  
19452005  
I

M.Tech

FNAE, FIE, FIPWE, MIRT, MAIMA

*Address (Res)*834, Spring Knoll Drive,  
Herndon 20170 VA, USA  
Tele: +1-703-7960225

Email: rajaram.bojji@gmail.com

Formerly Managing Director, Konkan Railway Corporation Ltd., Navi Mumbai

**RAJARAMAN****Prof. Vaidyeswaran**  
19331987  
II

Emeritus Professor

Ph.D., DSc.(h.c.)

FNAE, FNA, FASc., FNASc., FIETE, FCSI

*Address (Off)*Supercomputer Education  
and Research Centre,  
Indian Institute of Science,  
Bangalore-560 012Tele: 080-23600805,  
23600811, 22932532

Fax: 080-23600805

Email: rajaram@iisc.ac.in

Formerly IBM Professor of Information Technology, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore; Professor and Chairman, Supercomputer Education and Research Centre, Indian Institute of Science, Bangalore

*Address (Res)*140, 6th Main Road,  
J.R.D. Tata Nagar,  
Bengaluru- 560092

Tele: 080-23419672

**RAJASEKARAN****Prof. Sundaramurthy**  
19422002  
I

Visiting Professor

of Civil Engineering,

PSG College of Technology,  
CoimbatoreBE(Hons), M.Sc(Structures), Ph.D(Canada), DSc.(Bhararhiar),  
DSS, FNAE, MASCE, FIE, CEng(I)*Address (Off)*A-9 Alaka Palazzo  
4/219 Poonamallee High  
Road, Kattupakkam,  
Chennai-00056

Tele: 9843055611

*Address (Res)*

Tele: 044-49516917, 9843055611

Email: drrajasekaran@gmail.com, srs.civ@gapps@psgtech.ac.in

Formerly Professor &amp; Head, Dept. of Civil Engineering, PSG College of Technology, Coimbatore



**RAJENDRAN**

Professor & RAGS Family  
Foundation Institute Chair  
B.E.(Hons), M.E., Ph.D., Dr.rer.pol.h.c.  
FNAE

*Address (Off)*

Department of Management  
Studies, Indian Institute of  
Technology Madras,  
Chennai-600 036  
Tele:044-22574550/4559  
Fax: 044-22574552  
Email: craj@iitm.ac.in

**Prof. Chandrasekharan**

1960

*Address (Res)*

Block-W, Old no.58,  
New no.10, 2nd Street,  
3rd Main Road, Anna Nagar,  
Chennai-600 040  
Tele: 044-26225598

2018

X



**RAJU**

Chairman  
B.Tech  
FNAE

*Address (Off)*

Nagarjuna Group of  
Companies,  
Nagarjuna Hills  
Hyderabad - 500 082  
Tele:040-23351374  
Fax: 040-23354660  
Email: ksraju@nagarjunagroup.com

**Mr. Kanumuru**

**Satyanarayana**

1950

*Address (Res)*

Plot No.1267,  
Road No.36,  
Jubilee Hills,  
Hyderabad-500 033  
Tele: 040-2248950

1999

X



**RAJU**

Dr.Ing.  
FNAE, FIE, MIGS

*Address (Off)*

Plot #9, Flat No.102,  
Naya Jyothi Residency,  
Telecom Nagar, Gachibowli,  
Hyderabad-500 032  
Tele:040-23005176  
Fax: 040-23005176  
Email: rajuv\_s\_b@yahoo.com  
Formerly Director, IIT Delhi  
Hon.Secy1995-96; FS-1997-2000

**Prof. Vegensna**

**Satyanarayana**

1940

*Address (Res)*

A1-105, Daffodil Tower,  
L&T Screne Country,  
Gachibowli,  
Hyderabad-500 032  
Tele: 040-23003905

1992

I



**RAM** **Dr. Dasharath** 2015  
 DS & Director 1962 III  
 BE, MS, Ph.D.  
 FNAE, FIE, FAeSI, FIIPE, MINSARM, MSFA  
*Address (Off)* *Address (Res)*  
 Defence Research and H.No.8-9-53, Dhatunagar,  
 Development Laboratory PO Kanchanbagh,  
 (DRDL), Kanchanbagh PO, Hyderabad-500 058  
 Hyderabad-500 058 (Telangana)  
 (Telangana)  
 Tele:040-24340511, 24340546 Tele: 040-29706497  
 Fax: 040-24340109  
 Email: dasharathram@yahoo.com, director@drdl.drdo.in  
 Former OS & Sc. 'H', Project Director, HWT & Associate Director



**RAMA RAO** **Prof. Palle** 1987  
 Chairman, 1937 VIII  
 Governing Council  
 Ph.D.  
 FNAE, FNA, FASc., FNAsc., FREng., Foreign Ass. NAE(US),  
 FTWAS, FUAS  
*Address (Off)* *Address (Res)*  
 International Advanced "Naimisam", 8-3-1022,  
 Research Centre for Flat No.301, Plot No.22,  
 Powder Metallurgy and Srinagar Colony,  
 New Materials (ARCI), Hyderabad-500073  
 Balapur PO,  
 Hyderabad-500 005  
 Tele:040-24443167, 24441468 Tele: 040-66614475  
 Fax: 040-24443168  
 Email: ramaraop37@gmail.com  
 Former Secretary, DST; Formerly Dist. Sci., DRDO; Formerly Chairman, AERB; Formerly  
 Vice Chancellor, University of Hyderabad  
 Hon.Treas.1991-93; Counc.-1993-96; 2010-2012; Pres.-2001-2002



**RAMACHANDRAN** **Dr. Reena** 1999  
 Independant Director 1941 X  
 Ph.D., D.Sc.  
 FNAE, FAIMA, NEDICT  
 (Non-Executive Directors in Conversation Trust), ICCFG  
 (IC Centre for Governance), CMS (Centre for Media Studies)  
*Address (Res)*  
 53-C, H Block, Saket,  
 New Delhi-110017  
 Tele: 011-41033032, 26856944  
 Email: rr1941@gmail.com  
 Formerly Chairman & Managing Director, Hindustan Organic Chemicals Ltd., Mumbai;  
 Former Director-General, JK Business School, Gurgaon



**RAMACHANDRAN**Emeritus Scientist  
Ph.D.FNAE, FASM(USA), FIE, FAeSI, FIIM, Member:Sigma Xi, Alpha Sigma Mu, Phi Kappa Phi, Tau Beta Pi, Sigma Tau, ISAMPE, MRSI  
*Address (Off)*National Aerospace  
Laboratories,  
Bangalore-560 017  
Tele:080-25086240  
Fax: 080-25270098

Email: vramachandran71@yahoo.co.in

Formerly Deputy Director, National Aerospace Laboratories

**Dr. Venkataraman**

1932

1994

VIII

*Address (Res)*No.8, 3rd Cross,  
Vinayaka Nagar, Hebbal,  
Bangalore-560 024  
Tele: 080-23548210**RAMADORAI**

BE , MS

FNAE, MACM(US), MIEEE

*Address (Off)*Bombay House,  
Homi Modi Street, Fort,  
Mumbai-400 001

Tele:022-66657798

Email: ramadorai.office@tcs.com

Former Vice-Chairman, Tata Consultancy Services, Mumbai

**Mr. Subramanian**

1944

2002

II

*Address (Res)*Flat No.1, First Floor,  
Wyoming, Little Gibbs Road,  
Malabar Hill,  
Mumbai-400006

Tele: 022-23648005, 23648008

**RAMAKRISHNAN**

Senior Professor

B.E.(Hon.), M.Tech., Ph.D.

FNAE, SMIEEE, MEMBS, FIE(I), FIETE, LMBESI,

MACM, MISCA, MASA, MIFITT

*Address (Off)*MILE Laboratory,  
Department of Electrical  
Engineering,Indian Institute of Science,  
Bangalore-560 012

Tele:080-22932556

Fax: 080-23600444

Email: agr@iisc.ac.in, agramki@yahoo.co.in

Formerly Professor, Indian Institute of Science, Bangalore

**Prof. Angarai Ganesan**

1958

2019

VI

*Address (Res)*DQ 18, Duplex Quarters,  
New Housing Colony, IISc.,  
Bangalore-560 012

Tele: 080-23608476



**RAMAKRISHNAN****Prof. Catti Venkatesalu** 1991  
1943 IPh.D.  
FNAE*Address (Res)*  
Rowhouse R4-03,  
Kshetra Senior Homes  
Opp. Nathapettai Railway Station  
Ayyampettai P.O  
Kanchipuram Taluk and District  
Tamil Nadu - 631601

Email: cvrama@gmail.com

Formerly Professor and Head, Dept of Applied Mechanics and Dean(UGS), IIT/Delhi  
Hon. Secy.2005-2006**RAMAKRISHNAN****Dr. Narayanrao** 2004  
1957 VIIIB.Tech, Ph.D.  
FNAE, FIE, FIIM, FMRSI, FTSI*Address (Res)*  
202A, Raghuram Residency,  
30, MS Ramiah Road, Gokula,  
Bangalore-560 054  
Tele: 080-23454636

Email: ramkrish0123@gmail.com

Formerly Director, Advanced Materials & Processes Research Institute (AMPRI) Bhopal;  
Formerly Tech. Fellow, India Science Lab., Bangalore; Former Advisor, Center for Science,  
Technology and Policy, Bangalore**RAMAKUMAR****Dr. Sankara Sri Venkata** 2020  
1963 XPh.D.(Chemistry)  
FNAE, MICS*Address (Off)*Indian Oil Corporation Ltd.,  
Indian Oil R&D Centre,  
Sector 13, Faridabad-121007  
(Haryana)

Tele:0129-2294203

Email: ramakumarssv@indianoil.in, ramakumarssv@gmail.com





**RAMALINGAM**

M.Tech  
FNAE, MCSI, MSEE

**Mr. Ramenahalli  
Pachayappan**  
1946

2000

VI

*Address (Res)*

66, Bhuvaneshwari Nagar Main Rd.,  
C.V.Raman Nagar,  
Bangalore- 560093  
Tele: 080-28517787



Email: rpramalingam@gmail.com

Formerly Director Defence Avionics Research Establishment, Bangalore

**RAMAMOORTY**

Chancellor  
B.E.(Hons), M.E., M.A.Sc., Ph.D.  
FNAE, LFIEEE, MIE, International Member, NAE(USA)

*Address (Off)*

KL University,  
Vaddeswaram,  
Guntur District,  
Andhra Pradesh  
Tele:0863-2399999/1111

Email: mrmooty@gmail.com

Formerly Director, ERDA, Vadodara, Formerly Director, CPRI, Bangalore  
Counc.-1991-93; 2005-2006

**Dr. Mylavarapu**  
1936

1988

V

*Address (Res)*

Staff Quarters Apt.201,  
KL University, Vaddeswaram,  
Guntur District,  
Andhra Pradesh  
Tele: 09989043325

**RAMAMRITHAM**

Head  
Ph.D.  
FNAE, FACM, FIEEE

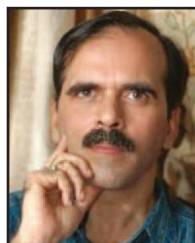
*Address (Off)*

Kanwal Rekhi School of  
Information Technology,  
Indian Institute of Technology,  
Bombay, Powai,  
Mumbai-400 076  
Tele:022-25767900  
Fax: 022-25720022  
Email: krithi@iitb.ac.in

**Dr. Krithivasan**  
1955

2005

II



**RAMAMURTHI**

Professor

Ph.D.

FNAE, FIEEE

*Address (Off)*

Department of Electrical

Engineering,

IIT Madras,

Chennai-600 036

Email: bhaskar@iitm.ac.in

Former Director, Indian Institute of Technology Madras, Chennai

Counc.2022-2024

**Prof. Bhaskar**

1959

2000

VI

**RAMAMURTHY**

Ph.D.

FNAE, SMIEEE

**Dr. Nagappa**

1954

2010

VI

*Address (Res)*

647, 10th 'B' Main Road,

4th Block, Jayanagar,

Bangalore-560 011

Tele: 080-26633633

Email: nr\_murthy@hotmail.com

Former Additional Director (A.C.), Centre for Artificial Intelligence Robotics(CAIR), DRDO, Ministry of Defence, Bangalore

**RAMAMURTHY**

Emeritus Professor

Ph.D., DSc.(h.c.)

FNAE, FNA, FASc, FNASc., Hon. FellowIChE, Hon.FIETE,

FTWAS, FWIF(UK), MRANS

*Address (Off)*

National Institute of

Advanced Studies (NIAS),

Indian Institute of Science

Campus, Bangalore-560 012

Tele:080-23601969

Fax: 080-22185076

Email: vsramamurthy@nic.in, vsramamurthy@gmail.com

Formerly Director, Institute of Physics, Bhubaneswar; Formerly Secretary, Dept. of Science and Technology, New Delhi; and Formerly Director, National Institute of Advanced Studies (NIAS), Bangalore.

Counc.2001-2002 and 2003-2004

**Prof. Valangiman Subramanian**

1942

1998

IX



**RAMAMURTY**

Professor

Ph.D.

FNAE, FASc., FNA, FTWAS

*Address (Off)*School of Mechanical and  
Aerospace Engineering,  
Nanyang Technological  
University,

50 Nanyang Avenue

Singapore - 639798

Tele: +65 67904040

Fax: +65 67924062

Email: [uram@ntu.edu.sg](mailto:uram@ntu.edu.sg)Former Professor, Department of Materials Engineering, Indian Institute of Science,  
Bangalore**Prof. Upadrasta**

1967

2010

VIII

*Address (Res)*EV-201, Vigyanapura,  
Opposite ISRO Hqrs.,  
Sanjay Nagar, New BEL Road,  
Bangalore-560 094

Tele: 080-23518918

**RAMANARAYANAN**

Vice-Chancellor

B.Sc., M.E., Ph.D

FNAE, FIE, FAeSI, MFPSI, MSHMT, MSAEI

*Address (Off)*Defence Institute of  
Advanced Technology  
(DIAT)

(Deemed to be University),

Girinagar,

Pune-411025 (Maharashtra)

Tele: 020-2430 4001, 24304003

Fax: 020 - 24389411

Email: [ramvizag@rediffmail.com](mailto:ramvizag@rediffmail.com), [vc@diat.ac.in](mailto:vc@diat.ac.in)Former Outstanding Scientist & Director, Gas Turbine Research Establishment (GTRE),  
Bangalore**Dr. Chinnana Pichu**

1958

2013

III

*Address (Res)*P-01, DIAT Campus,  
Girinagar,  
Pune-411 025**RAMANARAYANAN**

Ph.D

FNAE

**Prof Venkataramanan**

1948

2011

V

*Address (Res)*66, Sathyamurthy Street,  
Ramnagar,  
Coimbatore -641 009  
Tele: 0422-2230622Email: [vram.iisc@gmail.com](mailto:vram.iisc@gmail.com)

**RAMANI**

Ph.D

FNAE, FCSI, FMASc., SMIEEE

**Dr. Srinivasan**

1939

1999

II

*Address (Res)*

C-501, Mantri Pride,  
Near Madhavan Park,  
Jayanagar Block I,  
Bangalore-560 011  
Tele: 080-41213043



Email: Ramani.Srini@gmail.com

Formerly Director, National Centre for Software Technology, Director R & D at Silverline Technologies Ltd., Director, HP Labs India, and Professor, International Institute of Technology Bangalore.

**RAMASAMI**

Ph.D.

FNAE, FNA, FASc., FTWAS

*Address (Off)*

Centre for Academic  
Research and Excellence,  
CSIR-Central Leather  
Research Institute,  
Adyar, Chennai 600 020  
Tele:044-244437418

Email: samisrisailam@gmail.com

Former Secretary, Department of Science and Technology and Nayudamma-Abdul Wahid Chair Professor, Anna University

**Dr. Thirumalachari**

1948

2008

IV

*Address (Res)*

Old No.38, New No.21,  
5th Cross Street,  
Rajalakshmi Nagar Extension,  
Velachery, Chennai-600 042

**RAMASUBBU**

Research Director,  
ITW-India Pvt Ltd

MTech (Aeronautical)PhD (Aeronautical, Fatigue & Fracture)  
Americal Society for Testing and Materials Indian Academy of  
Sciences Indian Structural Integrity Society Indian National Academy  
of Engineering

*Address (Off)*

Smolensky bulvar,  
15, Apt 55,  
Russia, Moscow,  
Tele:+7(916)975-65-86

Email: rs@biss.in, r.sunder@ya.ru

**Dr. Sunder**

1953

2021

VII



**RAMASWAMY****Prof. Govindarajan**

2012

1961

II

Ph.D.

FNAE, SMIEEE, MIEEECom.Soc., MACM

*Address (Off)*Supercomputer Education  
and Research Centre,  
Indian Institute of Science,  
Bangalore - 560012

Tele:080-23600654/59/53

Fax: 080-23602648

Email: govind@iisc.ac.in

*Address (Res)*E # 21, IISc. Quarters,  
Indian Institute of Science,  
Bangalore - 560012

Tele: 080-23600654

**RAMASWAMY****Prof. Mathagondapally  
Aswathaiengar**

1990

1936

VII

Ph.D.

FNAE, FIE, FAeSI, FNA

*Address (Res)*487, 14th Main,  
3rd Block, Koramangala,  
Bangalore - 560034

Tele: 8041309735

Email: maramaswamy@yahoo.com, maramaswamy@gmail.com

Formerly Professor of Aerospace Department, IISc, Bangalore

**RAMASWAMY****Dr. Vaidyanatha**

1994

1939

VIII

Professor

Ph.D.(London)

FNAE, FIM, FIE, FIIM, C.Eng

*Address (Off)*Department of Metallurgical  
Engineering,  
PSG College of Technology,  
Peelamedu,  
Coimbatore-641004

Tele:0422-2572477, 4344777

Fax: 0422-2592277

Email: rseetha21@yahoo.co.in

*Address (Res)*4, Ganapathy Layout,  
KK Pudur PO,  
Saibaba Colony,  
Coimbatore-641 038 (TN)

Tele: 0422-2445155

Formerly Managing Director & CEO, Sri Vishnupriya Industries Ltd., Hyderabad; Formerly  
ED I/C Salem Steel Plant, SAIL, Salem

**RAMCHANDANI**

Vice-President,  
Product & Technology  
Development  
B.Tech.

FNAE, MSAQR, MFPSI, MOSI, MPSSI, MFCSI

*Address (Off)*

Larsen & Toubro Limited,  
North Block - II, 2nd Floor,  
Gate No.1, Powai Campus,  
Mumbai-400 072  
Tele:022-67052776  
Fax: 022-67051404  
Email: arun.ramchandani@larsentoubro.com

**Mr. Arun**

1962

2015

III

**RAMESH**

CTO & Adjunct Professor  
Ph.D.

FNAE, FASc

*Address (Off)*

Strand Life Sciences,  
5th Floor,  
Kirloskar Business Park,  
Hebbal, Bangalore-560 024  
Email: ramesh@strandls.com

**Dr. Hariharan**

1969

2016

II



*Address (Res)*

B-2, 206, Shriram White  
House Apartments,  
R.T. Nagar,  
Bangalore-560 032

**RAMESH**

Ph.D.

FNAE, MISTE, MISTAM, MOSI

*Address (Off)*

Department of Applied  
Mechanics, Indian Institute  
of Technology, Madras,  
Chennai-600 036  
Tele:044-22574058  
Fax: 044-22574052  
Email: kramesh@iitm.ac.in

**Prof. Krishnamurthi**

1960

2006

III



*Address (Res)*

B7, Sakthi Towers, 107,  
Gandhi Road, Velachery,  
Chennai-600 042

Tele: 044-22437175

**RAMESH** **Dr. S** 2011  
 Technical Fellow & Lab 1958  
 Group Manager II  
 BE, Ph.D.  
 FNAE, MIEEE  
*Address (Off)* *Address (Res)*  
 India Science Lab, 287, Himagiri Meadows,  
 General Motor R&D, Gottigere, Bannerghatta Road,  
 3rd Floor, Creator, Int. Tech. Bangalore 560 083  
 Park Bangalore,  
 Whitefield Road,  
 Bangalore - 560 066  
 Tele:080-41184158 Tele: 080-41315841  
 Fax: 080-41158562  
 Email: ramesh.s@gm.com, rameshari1958@gmail.com  
 Formerly Professor IIT Bombay



**RAMJEE** **Dr. Ramachandran** 2021  
 Senior Principal Researcher 1971  
 B.Tech, Ph.D. II  
 FNAE, FIEEE, FACM  
*Address (Off)* *Address (Res)*  
 Microsoft Research M1304 Brigade Gateway Apts,  
 Lab-India "Vigyan", Malleswaram,  
 No. 9, Lavelle Road, Bangalore 560055  
 Bangalore 560001  
 Tele:91806658-6205 Tele: (080)-4149-4102  
 Email: ramjee@microsoft.com  
 Former Principal Researcher, Microsoft Research Lab-India



**RANADE** **Dr. Vivek Vinayak** 2005  
 Professor of 1963  
 Chemical Engineering IV  
 Ph.D.  
 FNAE, FICHEM., FNA, FASc., MICh.E., MMASc.,  
 MUDCT Alumni Assoc.  
*Address (Off)*  
 School of Chemistry and  
 Chemical Engineering  
 Queen's University  
 Belfast David Keir Building,  
 Stranmillis Road,  
 Belfast BT9 5AG  
 Northern Ireland, UK  
 Tele:+44 28 90 974592  
 Fax: +44 28 90 974687  
 Email: V.Ranade@qub.ac.uk, Vivek.Ranade@gmail.com,  
 Former Deputy Director and Chair, Chemical Engineering and Process Development  
 Division, National Chemical Laboratory, Pune



**RANGA RAJU**

Ph.D.  
FNAE, FIE

**Prof. Kittur Gundappa**  
1942

1988  
I

*Address (Res)*  
102, Rajalakshmi Apartments,  
24th Main, JP Nagar (6th Phase),  
Bangalore-560 078  
Tele: 080-30910981



Email: kgrangaraju@gmail.com

Formerly Deputy Director, IIT Roorkee, Formerly Professor of Civil Engineering, IIT Roorkee

**RANGANATHAN**

RQ14 Distinguished Fellow,  
NASI Platinum Jubilee  
Fellow, Indian Institute of Science  
& Honorary Visiting Professor  
Ph.D.

FNAE, FNA, FASc., FNASc., FIIM, FTWAS

*Address (Off)*  
National Institute of  
Advanced Studies  
Bengaluru 560023

**Prof. Srinivasa**  
1941

1987  
VIII

*Address (Res)*  
No. 85, 3rd Main,  
5th Cross, HIG Colony  
(Dollars Colony),  
Near R M V Club  
Bangalore-560094  
Tele: 080-23518521



Email: rangu1941@gmail.com

Counc.-1997-98; V.P.-1999-2000

**RANGANAYAKULU**

Professor  
B.E, M.E, Ph.D. Post Doctorate from AvH foundation Germany  
FNAE, MASI, MISHMT, MISHRA

*Address (Off)*  
Department of Mechanical  
Engineering,  
BITS Pilani-333031,  
Rajasthan  
Tele:1596255778

**Dr. Chennu**  
1960

2016  
III

*Address (Res)*  
31, Paschim Marg,  
BITS Pilani Campus ,  
Pilani-333031,  
Rajasthan  
Tele: 080-43720676



Email: c.ranganayakulu@pilani.bits-pilani.ac.in, r\_chennu@hotmail.com

Scientist 'H' /Outstanding Scientist (OS), Technology Director (GS) and Director (MM),  
Aeronautical Development Agency, Bangalore



**RANGASWAMI**

Advisor to Chairman  
B.Tech

FNAE, FICE (Lon)

*Address (Off)*

Larsen & Toubro Ltd.,  
Mount Poonamallee Road,  
Manapakkam,  
Chennai-600 089

Tele:044-22526101

Fax: 044-22493317

Email: kvr@Intecc.com

Formerly Executive Director and Head Construction

**Mr. Kodiyalam  
Vasudevan**

1944

*Address (Res)*

No 16 (Old No 104),  
New Avadi Road, Kilpauk,  
Chennai-600 010

Tele: 044-26443422

2006

I

**RAO**

Ph.D.

FNAE

**Dr. A Lakshmana**

1948

*Address (Res)*

Villa G 22 EPSILON  
Next to Logica, Yemlur road  
Bangalore 560037

2004

II



Email: lakshmanrao.ayyagari@gmail.com

Formerly President - Telecom & Inter-Networking Solutions, Wipro Technologies, Bangalore  
and Formerly Chief Operating Officer, Wipro Limited, Bangalore  
Counc.2012-2014

**RAO**

Adjunct Professor, NIAS,  
Bangalore; President, HJKP,  
President, IMC

B.Sc., B.E.(Mech), M.E.(Mech), Ph.D. (Dr.Ing.),  
FNAE, FIE, FIIPE, FASI, FPSI, FAMM, FTSI

**Prof. Bangalore**

**Vijiandrarau**

**Aswathanarayana**

1933

*Address (Res)*

#74, Hymamshu Vihar,  
4th Main Road, Malleswaram,  
Bangalore-560 055

Tele: 080-23340371, 09980991037

1988

III



Fax: 080-2235219

Email: bvarao33@gmail.com

Former Professor, IIT Madras; Former Pro-Chancellor, VITU, Vellore, Former Chairman,  
NDRF, IE(I), Former President of AMM, ASI, IPE

**RAO**

Honorary President,  
JNCASR &  
Linus Pauling

Research Professor

D.Sc., Ph.D., D.Sc.(h.c.), LL.D(h.c.), DLitt(h.c.),  
FRS, FANAS(USA), FASc., FNA, FNAE

*Address (Off)*

Jawaharlal Nehru Centre  
for Advanced Scientific  
Research, Jakkur PO,  
Bangalore-560 064

Tele:080-23653075

Fax: 080-22082760

Email: cnrrao@jncasr.ac.in

Formerly Director, Indian Institute of Science, Bangalore

**Prof. Chintamani  
Nagesa Ramachandra**  
1934

2007

VIII



*Address (Res)*

JNC President's House  
IISc Campus  
Bangalore 560 012

Tele: 080 23601410

**RAO**

President and CEO

BE(Hon), M.Tech, Ph.D.

FNAE, FIE, FIETE, LFIEEE

*Address (Off)*

Inventive Pathways-

Management Consultancy,  
Member UNESCO-EOLSS

Joint Committee,

PO Box 2623,

Abu Dhabi, UAE

Tele:+9712-6442051

Fax: +9712-6442565

Email: gantirao@emirates.net.ae, gantiprao@ieee.org

Formerly Professor of Electrical Engg., IIT Kharagpur; Honorary Professor, East China University of Science and Technology, Shanghai, PR China

**Prof. Ganti Prasad**  
1942

1988

V



*Address (Res)*

Tele: +9712-6451538

**RAO**

Group Chairman

B.E.(Mech)

FNAE, MCII, MFICCI, MCIIFBN

*Address (Off)*

Group Chairman Office,

DIAL 3rd Floor, NUB,

T-3 Opp. ATC Complex,

International Terminal,

IGI Airport, New Delhi

Tele: 011-47198306, 080-40432091

Email: group.chairman@gmrgroup.in

**Dr. Grandhi  
Mallikarjuna**  
1949

2016

X



**RAO**

Visiting Professor,  
IIT Gandhi Nagar;  
Chairman, Geosynthetics  
Technology Advisory Services,  
Jaipur; Advisor (R&D) and  
Head – Geosynthetics Division,  
Landmark Material Testing and  
Research Laboratory, Jaipur.  
Ph.D  
FNAE, FIE, FIGS, FSEI, MISRM

**Prof. Guda Venkatappa**

1945

2001

I

*Address (Res)*

12-1-170/78 P, Hanuman Nagar,  
Jaipuri Colony, NAGOLE,  
Hyderabad – 500 068, Telangana

Email: gvrao.19@gmail.com, gvrao@iitgn.ac.in

Former Professor & Head Department of Civil Engineering and DEAN, Student Affairs, IIT Delhi; Independent Director, IRCON, Ministry of Railways, Govt. of India

**RAO**

Chief Scientist  
M.Tech, Ph.D  
FNAE, LMILTA, LMCRSI, LMISCA, MALCA, MSLTC,  
FRSC (UK), FAPAS

**Dr. Jonnalagadda Raghava**

1961

2011

IV

*Address (Off)*

Chemical Laboratory,  
Central Leather Research  
Institute, Sardar Patel Road,  
Adyar, Chennai - 600 020  
Tele: 044-24437188

*Address (Res)*

C/5, Sudarsan Gardens, 102  
(New 106), Velachery Road,  
Chennai 600 032

Fax: 044-24912150

Tele: 044-22353609

Email: jr Rao\_clri@yahoo.co.in, jr Rao61@gmail.com

**RAO**

Ph.D.  
FNAE, MAWS, MASM, MIIM, MIWS, MIIW

**Prof. Kalvala Prasad**

1950

2012

VIII

*Address (Off)*

C/o Dr.Surya Prakash  
Rao Kalvala  
Plot No. 154,  
House No. 2-19-84/1  
Kalyanapuri, Uppal  
Hyderabad-500039  
Telangana State

Email: jyothi pr@gmail.com

Former Professor-In-Charge, Materials Joining Laboratory, CWS, Department of Metallurgical and Materials Engineering, Indian Institute of Technology Madras, Chennai

**RAO** **Dr. Paranandi Venkata Suryanarayana** 1987  
1936 II

Ph.D.

FNAE, FNA, FASc., FNASc., FASI, FCSI, FIAE, Dist.FIETE

*Address (Res)*

Flat No.601, Vigyan,  
Plot No.23, Sector 17,  
Vashi,

Navi Mumbai-400 703

Tele: 022-65118666, 27890712



Email: dr.pvsrao@gmail.com

Formerly Adviser, Tata Teleservices (Maharashtra) Ltd, Navi Mumbai

**RAO** **Prof. Pulugurta Srinivasa** 2006  
1936 I

Professor Emeritus  
and Advisor

B.Tech(Hons), M.Tech., Dr.Ing(Munich)

FNAE, FIIBE, FACCE, MICI

*Address (Off)*

Gayatri Vidya Parishad

College of Engineering,

Madhurawada,

Visakhapatnam – 530 048

Tele:0891 – 2739507

Fax: 0891 - 2739605

Email: spulugurta@hotmail.com

Formerly Principal, GVP College of Engineering, Visakhapatnam and Professor of Civil Engg., IIT Madras; Former Director, Indo-German Institute of Advanced Technology, Visakhapatnam

*Address (Res)*

Apt. No.203, MVV Estates,

Opp. Kotak School,

Chinna Waltair Junction,

Visakhapatnam-530 017

Tele: 0891-2784356



**RAO** **Dr. Raja Manuri Venkata Gopala Krishna** 2006  
1947 IV

Adjunct Professor,

Amritha Vishwa Vidyapeetham

University,Coimbatore,

Governing Council Member,

MVJ College of Engineering,

Bangalore, Research Adviser and Consultant,

M. Tech (IIT M) Ph.D.(IISc.)

FNAE, MAeSI, MISCA, MMRSI,MIICHe, MISAMPE, MInSI

*Address (Off)*

“SAVITHRI”, No.1667,

16 ‘A’ Main, 5th Cross,

JP Nagar, II Phase,

Bangalore-560 078

Tele:080-26585471

Email: rmvgk@yahoo.com

Formerly Scientist “G”, Director Grade & Founder Head FRP Division, NAL-CSIR , Bangalore,and Visiting Scientist, Aerospace Engineering Dept, IISc, Bangalore

*Address (Res)*

“SAVITHRI”, No.1667,

16 ‘A’ Main, 5th Cross,

JP Nagar, II Phase,

Bangalore-560 078

Tele: 080-26585471



**RAO**

Consultant

Ph.D.

FNAE, MGMI, FIE, MIIME

**Dr. Tadimety Chakrapani**

1940

1992

VIII

*Address (Res)*

House No:11-12-362;

Road No.6; S.R.K.Puram,

Saroornagar Post,

Hyderabad-500035

Tele: 08008299257



Email: raotcg@gmail.com

Former Director of Regional Lab at Bhopal; Former Head of Mineral Engg at Indian School of Mines

**RAO**

Ph.D.

FNAE, FNA, FASc, FNASc, FIETE, FIEEE

*Address (Off)*

Room No. 320, Lecture Hall Complex

Department of Electrical Engineering

Indian Institute of Technology Delhi

Hauz Khas, New Delhi- 110016

Tele: 011-26597367

Email: rrao@iitd.ac.in

Former Director, Indian Institute of Technology Delhi and

Former P.K.Kelkar Chair Professor, IIT Bombay, Mumbai

Counc.2019-2021 and 2022-2024

**Prof. Valipe Ramgopal**

1965

2006

VI

**RASTOGI**

Director,

Machine Learning

at Amazon

Ph.D.(Computer Science, University of Texas Austin)

FNAE, FACM

**Dr. Rajeev**

1967

2017

II

*Address (Res)*

Nitesh Buckingham

Gate # A3,

51, Lavelle Road,

Bangalore-560 001

Tele: 9663355570



Email: veejarigotsar@gmail.com

Formerly Vice-President, Yahoo Labs.

**RATNASAMY**

Ph.D.  
FNAE, FNA, FASc., FTWAS

**Dr. Paul**  
1942

1999  
IV

*Address (Res)*  
4, Lalit Apartments,  
Gulmohar Park, ITI Road,  
Pune - 411 007  
Tele: 020-25898058

Email: paulratnasamy@gmail.com  
Formerly Director, NCL, Pune

**RAUT**

General Manager  
B. Tech.(Chem Engg, IIT Bombay);  
M.S./ Ph.D.(Chem. Engg., Pennsylvania State University)  
FNAE

**Dr. Janhavi Sanjay**  
1971

2020  
IV

*Address (Off)*  
Unilever Research &  
Development, Bangalore,  
64 Main Road, Whitefield,  
Bangalore 560066  
Tele:080-49572175

*Address (Res)*  
28 MIMS Crescenta,  
Kannamangala Post,  
Bangalore-560067

Email: janhavi.raut@unilever.com  
Former Principal Research Scientist – Unilever Research & Development

**RAVI**

Institute Chair Professor  
(HAG)  
Ph.D.  
FNAE, FIE, MIIF

**Prof. Bhallamudi**  
1964

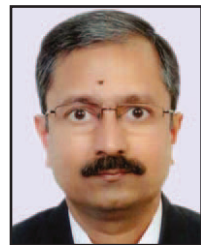
2016  
III

*Address (Off)*  
Mechanical Engineering  
Department,  
Indian Institute of  
Technology Bombay,  
Powai, Mumbai – 400076  
Tele:9819817510  
Fax: 022-25726875  
Email: b.ravi@iitb.ac.in

*Address (Res)*  
B-169, Anantha  
IIT Bombay,  
Powai, Mumbai-400 076

Tele: 022-25768510

Former Professor, Indian Institute of Technology Bombay



**RAVICHANDRAN**

Director,  
India Japan Lighting and  
Chief Mentor,  
UCAL Fuel systems  
B.E., MBA, Ph.D

FNAE, FIE, FSQR, FIIProd.E, Acad.IAQ

**Dr. N**

1947

2015

III

*Address (Res)*

Old no 61/New no 16,  
Seethamma road, Alwarpet,  
Chennai – 600018, Tamil Nadu  
Tele: 044-24344229, 24352812



Email: dr.nr47@gmail.com

Former President and CEO, Lucas TVS Ltd., Chennai

**RAVIKUMAR**

Director of Technical  
Talent Development

Ph.D. in Computer Engineering (University of Southern California),  
M.E. in Computer Science, IISc., B.E. in Electronics,  
Bangalore University

FNAE, SMIEEE, MIETE, MISTE, MIMAPS

*Address (Off)*

Texas Instruments (India),  
Bagmane Tech Park,  
CV Raman Nagar,  
Bangalore-560093

Tele:9845542797

Email: cpravikumar@hotmail.com

Former Professor of Electrical Engineering, IIT Delhi

**Dr. CP**

1961

2020

VI

*Address (Res)*

B-201, Mantri Elegance Apartments,  
NS Palya, Bannerghatta Main Road,  
Bangalore-560076

Tele: 080-4123416

**RAVISANKAR**

Distinguished Scientist

B.Tech (Mech), Doctorate in Mechanical Engineering (Ph.D)

FNAE, LMINS, MIIW, MIIIE, MISNDT

**Dr. Appalbhata**

1959

2014

III

*Address (Res)*

Flat No.F204,  
Aparna Sarovar Grande,  
Lingampalli, K.V.Rangareddy,  
Telangana – 500019  
Tele: 9445110087



Email: aravish3780@gmail.com

Former Project Director, Fast Reactor Fuel Cycle Facility (FRFCF) & Former Director,  
Reprocessing Group (RPG), Indira Gandhi Centre for Atomic Research, Kalpakkam

**RAVISHANKAR**

Professor

Ph.D.

FNAE, FASc., FRSc.

*Address (Off)*

Materials Research Centre,

Indian Institute of Science,

Bangalore-560 012

Tele:080-22933255

Email: nravi@iisc.ac.in

**Prof. Narayanan**

1970

2019

VIII

**RAWAT**

Ph.D.

FNAE

**Dr. Bachan Singh**

1937

1998

IV

*Address (Res)*

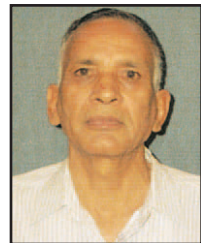
52/1,

Teg Bahadur Road-

Lane III,

Dehradun-248 001

Tele: 09411110809



Email: iipbsrawat@gmail.com

Formerly Emeritus Scientist (CSIR), Indian Institute of Petroleum, Dehradun

**RAY**

BME, M.Tech, Ph.D,

FNAE, LMISTAM

*Address (Off)*

Mechanical Engineering

Department,

Indian Institute of Technology

Kharagpur - 721 302 (WB)

Tele:03222-282984

Email: mcray@mech.iitkgp.ernet.in

**Prof Manas Chandra**

1963

2011

III





**RAY**

AICTE-INAE

Distinguished Visiting Professor

Ph.D. (Cal.), Ph.D. (B'ham)

FNAE, FIE, FIIM, MMRSI

*Address (Off)*

SRMIST,

Kattankulathur-603203

(TN);

CMRIT,

Bengaluru-560037 (KA)

Tele : 9931112017

Email: rkray@iitk.ac.in

Formerly, Head of Advanced Centre for Material Sciences & Professor, Dept. of Materials & Metallurgical Engineering, IIT Kanpur; Formerly, Visiting Scientist, R & D Division, Tata Steel, Jamshedpur; Formerly, Visiting Professor, IEST Shibpur (WB)

**Prof. Ranjit Kumar**

1942

*Address (Res)*

Apt. # 4 C 2,

Glen Tower, Hiland Park,

Kolkata-700 094

Tele: 033-40445046

1999

VIII

**RAY**

Professor

Ph.D.

FNAE, MIEEE, MMRS(USA), MMRSI, MPSI

*Address (Off)*

Professor,

Department of Physics

IIT Kharagpur,

Kharagpur 721 302

Tele:03222-283838

Email: physkr@phy.iitkgp.ac.in

Former Director, S. N. Bose National Centre for Basic Sciences, Kolkata

**Prof. Samit Kumar**

1961

*Address (Res)*

Tele: 03222-283839

2008

VI

**RAY**

BE, Ph.D.

FNAE, FIIM, MIIW, MMRSI, MISNT

**Dr. Saradindu Kumar**

1947

*Address (Res)*

Sarada Kutir,

Near Shradhanjali Appartments,

Nabapally North, PO: Dhalua,

Kolkata - 700152

2004

VIII



Email: saradindu.ray@gmail.com

Formerly Head, Materials Mechanics Section, IGCAR, Kalpakkam; Formerly Head, Materials Technology Division, IGCAR, Kalpakkam

**RAY**

Visiting Distinguished  
Professor

Ph.D.

FNAE

*Address (Off)*

School of Engineering,

Indian Institute of

Technology Mandi,

Mandi – 175001

Himachal Pradesh)

Email: surayfmt@gmail.com

Formerly Professor, Department of Metallurgical & Materials Engineering, Indian Institute of Technology, Roorkee

**Prof. Subrata**

1947

*Address (Res)*

A-3 Rupantar, 15 A,

D. P. P. Road,

Naktala,

Kolkata – 700 047

2010

VIII

**REDDY**

Senior Professor Emeritus

Ph.D.

FNAE, FNASc., FRSC, MACS, FTAS, FAPAS, LMCRSI, LMCSI, LMMRSI, LMISCA, LMSMC, LMREAI

*Address (Off)*

Department of Chemistry,

Birla Institute of Technology

& Science (BITS) Pilani,

Hyderabad Campus,

Hyderabad - 500 078, India

Tele : 040- 66303794

Email: bmreddy@hyderabad.bits-pilani.ac.in; bmreddy.iict@gmail.com; mreddyb@yahoo.com

Formerly DAE Raja Ramanna Distinguished Fellow & Chief Scientist and Head, CSIR-IICT, Hyderabad

**Dr. Benjaram Mahipal**

1957

*Address (Res)*

House No.1-216/109,

Kartikeyanagar,

Nacharam,

Hyderabad - 500007

Tele: 040-29800676

2012

IV

**REDDY**

Secretary DDR&D  
and Chairman DRDO,

Ministry of Defence

B Tech, MS, Ph.D.

Honorary - FRAeS (UK), FCSI, FPMA, MACDOS; Fellow - FNAE,

FRIN (London), FIET (UK), FAeSI, Foreign Member ACANUD

(Russia), FSSWR, FIE, FIETE, FTAS, AFAIAA (USA), FISSE

*Address (Off)*

Office of Secretary DDR&D

and Chairman DRDO

Room No.530, 5th Floor,

DRDO Bhawan, Rajaji Marg,

New Delhi - 110 011

Tele:011-23007530

Fax: 011-23018216

Email: sat.gundra@gmail.com, satorm@gov.in, secydrdo@hqr.drdo.in

Former Director General, Missiles and Strategic Systems

Counc.2016-18

**Dr. Gundra Satheesh**

1963

*Address (Res)*

302, Samata Enclave,

H.No 8-2-609/B/6,

Road No 11, Banjara Hills,

Hyderabad - 500 034

Tele: 040-23319179

2011

VII



**REDDY**

Professor

Ph.D.

FNAE, LMISHMT, LMISTE, LMSESI, LMICTP

*Address (Off)*#204, HT&TP Laboratory,  
Department of Mechanical  
Engineering, Indian Institute  
of Technology Madras,  
Chennai-600 036

Tele:044-22574702

Fax: 044-22574652

Email: ksreddy@iitm.ac.in

**Prof. Kalvala Srinivas**

1970

2019

IX

*Address (Res)*B27/6A, Chola Apartment,  
Delhi Avenue, IIT Campus,  
Chennai-600 036,  
(Tamilnadu)

Tele: 044-22574702

**REDDY**

Ph.D.

FNAE, FNA, FASc., FIEEE, FWIF

*Address (Off)*37, Aparna Orchids,  
Near NAC Ground,  
Izzat Nagar, Kondapur,  
Hyderabad-500 084

Tele:040-64631799

Fax: 040-23013118

Email: vurl0839@gmail.com

Formerly Professor, ECE Department, IISc., Bangalore; Formerly Chief Technology Officer, Hellosoft, Hyderabad; Formerly Microsoft Chair Professor, International Institute of Information Technology (Deemed University), Hyderabad; Former Honorary Professor, IIT Hyderabad

Counc.-1999-2000 and 2001-2002

**Prof. Vellenki Umaphathi**

1939

1992

VI

*Address (Res)*

Tele: 040-23114725, 23681337

**RENGASAMY**

Professor

B.Tech., Ph.D.(Chemical Engg)

FNAE, MACS

*Address (Off)*Department of Chemical  
Engineering, Indian Institute  
of Technology Madras,  
Chennai-600 036

Tele:044-22574159

Email: raghur@iitm.ac.in

**Prof. Raghunathan**

1969

2017

IV

*Address (Res)*C2-4-3D,  
Neithal Delhi Avenue,  
IIT Madras,  
Chennai-600 036

Tele: 044-22576159



**RODE**

Chief Scientist  
 B.Sc., M.Sc., Ph.D.  
 FNAE, MIChE, MCSI, MCRRI, MBRSI  
*Address (Off)*  
 Chemical Engineering and  
 Process Development,  
 CSIR-National Chemical  
 Laboratory, Dr. Homi  
 Bhabha Road, Pune-411 008  
 Tele:020-25902349  
 Fax: 020-25902621  
 Email: cv.rode@ncl.res.in

**Dr. Chandrashekhar  
 Vasant**  
 1958

*Address (Res)*  
 Flat No.3,  
 Right Bhusari Colony,  
 Puad Road, Kothrud,  
 Pune-411 038  
 Tele: 020-25280306

2015

IV

**ROONGTA**

Chairman  
 B.E.(Hons)-Electrical, PG Dip. In International Trade (iift)  
 FNAE, FAIMA, MIC  
*Address (Off)*  
 Bharat Aluminium Co. Ltd.  
 (BALCO),  
 The Executive Centre,  
 One Horizon Centre,  
 Level-18th, Golf Course Road,  
 Gurugram-122009  
 Tele:0124-6688491  
 Email: sk.roongta@gmail.com  
 Former Chairman, Steel Authority of India Ltd. (SAIL)

**Mr. Sushil Kumar**  
 1950

*Address (Res)*  
 D-91, The Pinnacle,  
 DLF Phase-V,  
 Gurugram-122009

2020

VIII

**ROY**

Senior Executive Director  
 B.C.E., M.Tech, Ph.D.  
 FNAE, FIABSE, FICE(UK), FIStruct.E.(UK), FIE, FASCE;  
 Honorary Member, IABSE (Zurich)  
*Address (Off)*  
 Consulting Engineering  
 Services (India) Pvt. Ltd.,  
 I - 1667 CR Park,  
 New Delhi 110019  
 Tele:011-4015 4166  
 Fax: 011-26460409  
 Email: bcroy1944@gmail.com

**Dr. Bidhan Chandra**  
 1944

*Address (Res)*  
 J-1929,  
 Chittaranjan Park,  
 New Delhi-110 019  
 Tele: 011-26275962

2008

I



Former member of Board of Directors, CES (I) Pvt Ltd; Former Senior Executive Director  
 Jacobs - CES; Former Advisor AECOM (India); MD - RUPL / RUI CPL India; Former  
 Distinguished Visiting Professor : IIT, Mumbai & JU, Kolkata

**ROY**

Ph.D.

FNAE

*Address (Off)*

Department of Civil  
Engineering,  
Indian Institute of Science,  
Bangalore - 560012  
Tele:080-22933129  
Fax: 080-23604205  
Email: royd@iisc.ac.in

**Prof. Debasish**

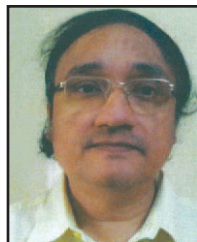
1967

*Address (Res)*

Flat No. NE-211,  
Indian Institute of Science,  
Bangalore - 560012  
Tele: 080-23604205

2012

I

**ROY**

Ph.D.

FNAE, SMIEEE

**Dr. Jatindra Nath**

1957

*Address (Res)*

Flat No. 902, Tower-3,  
Fresco Uniworld City,  
Action Area-III, New Town,  
Kolkata-700156  
Tele : 9679043090

2007

VI



Email: jatinroy2000@gmail.com

Formerly Scientist/Engineer 'G', Semi-Conductor Laboratory, Department of Space, Govt. of India, SAS Nagar; and Formerly Senior Vice President, Solar Semiconductor Pvt. Ltd., Hyderabad; Visiting Professor-IIT Kharagpur

**ROY**

Professor

M.B.B.S., Ph.D.

FNAE, FNASc., FRSMed., MNAN, MIEEE, MIETE, MAICh.E., MACM, MIHBM

*Address (Off)*

Computational Neuroscience  
& Neuroimaging Laboratory,  
School of Bio Medical  
Engineering, Indian Institute  
of Technology, I. I. T.;  
Banaras Hindu University (BHU),  
Varanasi 221 005, India

**Prof. Prasun Kumar**

1957

*Address (Res)*

7, Park View Apartments,  
Sector - 15, Part - II,  
Gurgaon - 122001

2012

X



Tele: 0124-4106051

Email: prasunkumarroy@gmail.com

Former The Tata innovation Fellow & Principal Investigator, Indian Brain Grid, National Neuro-Imaging Facility, National Brain Research Centre, Gurgaon Counc.2013-15

**ROY****Dr. Saswati  
Bandyopadhyay**  
1956

2013

IX

Ph.D.

FNAE, MIICHe, MISHMT, MINS, MPMAI

*Address (Res)*801, KSHITIJ N.B. Patil Marg,  
Ghatla, Chembur,  
Mumbai-400 071  
Tele: 7506650956

Email: mrsued56@gmail.com

Former Raja Ramanna Fellow (RRF, DAE), Former Director, ChEG and RRF, DAE and Head, UED, BARC

**ROY****Prof. Sukhdev**  
1966

2013

VI

Ph.D.

FNAE, FOSI

*Address (Off)*Dept. of Physics and  
Computer Science,  
Dayalbagh Educational  
Institute,  
(Deemed University),  
Dayalbagh,  
Agra 282 005, (U.P.)

Tele: 0562-2801545

Fax: 0562-2801226

Email: sukhdevroy@dei.ac.in; sukhdevroy@gmail.com

*Address (Res)*3/199, Prem Nagar,  
Dayalbagh,  
Agra 282 005, (U.P.)**ROY CHOWDHURY****Prof Dipanwita**  
1963

2011

II

B Tech, M Tech, Ph.D

FNAE, MIEEE, LMCRSI

*Address (Off)*Department of Computer  
Science & Engineering,  
Indian Institute of Technology,  
Kharagpur- 721 302 (WB)

Tele: 03222-283490

Fax: 03222-278985

Email: drc@cse.iitkgp.ernet.in

*Address (Res)*Qtr No A-15, IIT Campus,  
Indian Institute of Technology  
Kharagpur, -721 302 (WB)  
Tele: 03222-283497

**SAHASRABUDHE**

Chairman

B.E.(Mech Engg), M.E. (Mech Engg), Ph.D.(Mech Engg)  
FNAE, MASI, FISTE, FIE, FASME, FIET*Address (Off)*All India Council for  
Technical Education,  
Nelson Mandela Road,  
Vasant Kunj,

New Delhi-110 070

Tele:011-26131498

Email: anil.sahasrabudhe@gmail.com

Former Director, College of Engineering, Pune

**Prof. Anil Dattatraya**

1957

2017

X

**SAHAY**

Head,

Advanced Engineering

B.Sc., M.Tech. M.M.E., Ph.D.

FNAE, FASMI, FIIM, FSAE, FMRSI, FPMIA

*Address (Off)*John Deere Technology,  
Center, India, Tower 14,  
Cyber City, Magarpatta City,  
Pune, Maharashtra-411013

Tele: 9673008446

Email: satyamsahay@yahoo.com, sahaysatyam@johndeere.com, sssahay@gmail.com

Former John Deere Fellow

**Dr. Satyam Suraj**

1968

2021

VIII

*Address (Res)*19 Eastonia,  
Palm Groves Apt,  
BT Kawade Road,  
Pune, Maharashtra-411036

Tele: 020-26877013

**SAIBABA**

Ph.D., BE (Mech)

FNAE, MINS, MISNDT

**Mr. Nudurupati**

1954

2014

IX

*Address (Res)*Plot No.171,  
Shantiniketan Colony,  
Mahendra Hills,  
East Maredpally,  
Secunderabad-500026

Tele: 040-27730414, 64620414

Email: nsuibaba54@yahoo.com

Formerly Raja Ramanna Fellow, Former Chairman & Chief Executive, NFC and Advisor to  
Chairman AEC & Secretary DAE

**SAMAJDAR**

Professor

B.E.(Metallurgical Engg), M.S. (Metallurgical & Materials Engg),  
Ph.D. (Materials Engg)  
FNAE, MIIM, MEMSI

*Address (Off)*

Department of Metallurgical  
Engineering and Materials  
Science, Indian Institute of  
Technology Bombay,  
Powai, Mumbai-400 076  
Tele:022-25767621  
Fax: 022-25723480  
Email: indra@iitb.ac.in

**Prof. Indradev**

1964

2015

VIII

*Address (Res)*

B-313, Bldg. 24, Nilgiri,  
Central Area,  
Indian Institute of Technology  
Bombay, Powai,  
Mumbai-400 076

**SANATKUMAR**

Distinguished Scientist

B.E., M. Engg.

FNAE, LMINS

**Mr. Anantanarayanan**

1941

2000

IX

*Address (Res)*

Flat C-4, Building 25,  
Kendriya Vihar CHS,  
Sector 38, Nerul,  
Navi Mumbai-400 706  
Tele: 022-27704515



Email: Lskask@gmail.com, Lskask1@gmail.com

Formerly Sr. Executive Director (OP&TT), NPCIL, Mumbai  
Counc.2003-2004; 2005-2006

**SANGAL**

Professor

B.Tech, M.S., Ph.D.

FNAE

*Address (Off)*

International Institute of  
Information Technology,  
Gachibowli  
Hyderabad - 500 032  
Tele:+91 40 6653 1144  
Fax: 0542-2368428  
Email: sangal@iiit.ac.in  
former Director, IIT(BHU) Varanasi

**Prof. Rajeev**

1954

2010

II





**SAPRE**

Group President - R&T  
Ph.D.

FNAE, MAIChE

*Address (Off)*

Reliance Industries Ltd,  
Reliance Technology group,  
Reliance Corporate Park,  
TC30 A wing, 2nd Floor  
Thane Belapur Road, Ghansoli,  
Navi Mumbai – 400701

Tele:022-44783425

Fax: 022-44710096

Email: [ajit.sapre@ril.com](mailto:ajit.sapre@ril.com)

**Dr. Ajit V**

1954

*Address (Res)*

1802, Ambrosia,  
Near Hiranandani School,  
Hiranandani Gardens,  
Powai, Mumbai-400 076

2014

IV

**SARAF**

Professor of Eminence

Ph.D.

FNAE, FIE

*Address (Off)*

Department of Petroleum  
& Energy Studies,  
D I T University,  
Mussoorie Diversion Road,  
Dehradun, 248009

Tele:0135-3000,300,301,307

Fax: 0135-3000,305,309

Email: [dnsaraf@yahoo.com](mailto:dnsaraf@yahoo.com)

Former Advisor, R&D, University of Petroleum & Energy Studies, Bidholi, Dehradun

**Prof. Deoki Nandan**

1938

*Address (Res)*

303, Bhagirathi Block,  
Siddharth Paradise Apts,  
Panditwadi Road,  
Dehradun-248007

Tele: 9897607916, 8279477094

1999

IV

**SARANGI**

Professorial Fellow,

IIT Bhubaneswar &

Academic Advisor,

CV Raman College of  
Engineering, Bhubaneswar

Ph.D.

FNAE, MASME, FICC

*Address (Off)*

Department of Mechanical  
Engineering, CV Raman  
College of Engineering,  
Bidyagar, Mahura, Janla,  
Bhubaneswar-752 054

**Prof. Sunil Kumar**

1949

*Address (Res)*

Flat No 110,  
Aryalaya Apartments  
Nuasahi, Nayapalli  
Bhubaneswar (Odisha) 751012

Tele: 0674-2391081

2001

III



Email: [sunilksarangi@gmail.com](mailto:sunilksarangi@gmail.com)

Formerly Professor, Cryogenic Engineering Centre, IIT Kharagpur; and Director, National Institute of Technology, Rourkela (Orissa); Former Rector, KIIT University

**SARASWAT**

Member

M.E., Ph.D.

FNAE, FAeSI, FIE, FAstr.SI, FAPASc, FSSI, FSSWR,  
MISSS, MCI(IS), MISI, MISCA*Address (Off)*

Niti Aayog

Yojana Bhawan,

Parliament Street,

New Delhi-110001

Tele:011-23096566/67

Email: vksaraswat1949@gmail.com

Formerly Secretary, Department of Defence R&D; Scientific Adviser to Raksha Mantri and  
Director General of Defence R&D Organisation & Aeronautical Development Agency**Dr. Vijay Kumar**

1949

1993

VII

*Address (Res)*

Plot No.34, BHEL Enclave,

Akbar Road, Bowenpally,

Secunderabad-500009

Tele: 040-27951166

**SARATHI**

Professor

Ph.D.

FNAE, FRSC, FIET, FIE, SMIEEE, LMISTE,

*Address (Off)*

Department of Electrical

Engineering, Indian Institute

of Technology Madras,

Chennai-600 036

Tele:044-2257 4436

Fax: 044-2257 4402

Email: rsarathi@iitm.ac.in

**Prof. Ramanujam**

1967

2016

V

*Address (Res)*

B-26/2A, Chera Apartment,

IIT Madras,

Chennai-600 036

Tele: 044-2257 6436

**SARAWAGI**

Associate Professor

Ph.D.

FNAE, MACM

*Address (Off)*

Computer Science and

Engineering,

Indian Institute of

Technology Bombay,

Powai, Mumbai-400076

Tele:022-25767904

Fax: 022-25720022

Email: sunita@iitb.ac.in

**Dr. Sunita**

1969

2014

II

*Address (Res)*

B-158, Ananta Building,

IIT Bombay, Powai,

Mumbai-400076

**SARMA**

Professor

MSc. (IIT Kanpur), PhD (IISc), PhD/DSc (hc. mult.)

FNAE, FNA, FASc., FNASI, FTWAS, FAPS

*Address (Off)*Solid Stat & Structural  
Chemistry Unit,  
Indian Institute of Science,  
Bengaluru – 560 012

Tele: 080 - 22932945

Fax: 080-23601310

Email: sarma.dd@gmail.com

**Prof. Dipankar Das**

1955

*Address (Res)*  
DQ-20 Duplex Quarter,  
Indian Institute of Science,  
Bengaluru – 560 012

2015

X

**SASTRI**

Emeritus Professor

Ph.D.

FNAE, FASME

*Address (Off)*4A, Sudarshan Apartments,  
42, 2nd Main Road,  
Kasturibai Nagar, Adyar,  
Chennai-600020

Tele:044-24458554

Email: sastri.vedantam@gmail.com

**Prof. Vedantam****Murali Krishna**

1938

*Address (Res)*

1993

III

**SASTRY**

Ph.D.

FNAE, FNASc, SMIEE

*Address (Off)*Department of Electrical  
Engineering,  
Indian Institute of Science,  
Bangalore-560012

Tele:080-22932934

Fax: 080-23600444

Email: sastry@iisc.ac.in

**Prof. Pidaparthi****Subbayya**

1959

*Address (Res)*Flat 3, Sri Guru Nivas,  
1st Main, Amarjyothi Layout,  
Sanjay Nagar,  
Bangalore-560 094

2008

II



**SASTRY**

Adjunct Professor  
B.Sc. (Mathematics, Physics, Chemistry),  
B.E ( Electronics & Communications)  
FNAE, MIEEE, FIETE

*Address (Off)*

National Institute of  
Advanced Studies (NIAS),  
IISc. Campus,  
Bangalore – 560012

Tele:080-23225150

Email: sastryvvr@gmail.com

Ex. Non-Official Director, Vijaya Bank, Independent External Monitor(IEM),  
Telecommunication Consultants India Ltd (TCIL), Retd Chairman Managing Director (CMD),  
Bharat Electronics Ltd (BEL), Retd Executive Director (ED), Centre for Development of  
Telematics (CDOT)

**Mr. Vadlamani  
Venkata Rama**

1949

*Address (Res)*

957 , 9th Main , 3 Stage,  
3 Block, Basaveswaranagar,  
Bangalore- 560079

Tele: 080-23225150

2017

VI

**SASTRY**

Ph.D.  
FNAE, SMIEEE

Email: sastryvv@gmail.com

Prof IIT Madras, Principal Research Scientist, United Technologies Research Centre, East  
Hartford, USA

**Prof. Vedula Venkata**

1941

*Address (Res)*

9-37-1 Pithapur Colony,  
Maddelapalem  
Visakhapatnam, 530 003

1996

V

**SEN**

Ph.D.  
FNAE, MISME, MNSFMFP

*Address (Off)*

Department of Applied  
Mechanics,  
Indian Institute of  
Technology, Hauz Khas,  
New Delhi-110 016

Tele:011-26596419/1201

Fax: 011-26581119

Email: pksen@am.iitd.ac.in

**Prof. Pradeep Kumar**

1945

*Address (Res)*

B-215,  
Chittaranjan Park,  
New Delhi-110 019

Tele: 011-26273289/4749

2008

III



**SEN** **Prof. Prasenjit** 2009  
1956 X

Ph.D

FNAE, LMIFTA

*Address (Off)*

School of Physical Sciences,  
Jawaharlal Nehru University,  
New Delhi-110 067

Tele:011-26738773, 26717507

Fax: 011-2677537

Email: psen.jnu@gmail.com, psen0700@mail.jnu.ac.in,

*Address (Res)*

1333, Poorvanchal Complex,  
JNU Campus,  
New Delhi-110 067

Tele: 011-26741596, 26741860



**SHAH** **Dr. Ravindra Kumar** 1997  
**Devakinandan** X  
1939

Ph.D

FNAE, FIE

*Address (Res)*

No.15, 2nd Floor  
New Mandakini Kailash,  
NRI Complex  
New Delhi-110 048  
Tele: 011-26272238

Email: sunayana.shah@gmail.com

Formerly Managing Director, BHEL



**SHAH** **Dr. Vijay Kanchanlal** 2018  
1968 V

Vice President

Ph.D ( Electrical Engg.)

FNAE, SMIEEE(USA), FIE, FIETE, LMSPE

*Address (Off)*

Distribution Automation  
Building, First floor,  
ABB India Ltd.Maneja  
Vadodara- 390013  
(Gujrat)

Tele:0265-6724705

Email: vkshah@ieee.org, vijay.shah@in.abb.com, vkshahcedt@gmail.com

*Address (Res)*

68-A,  
Akshardham Housing Society,  
Subhashpark- Warasia Ring Road,  
PO. Harni Colony  
Vadodara - 390022



**SHAHI**

Chairman

BE(Mech), PG(Indl Engg), PG (Business Mgmt)  
FNAE, FIIIE, FIE, FWAPS*Address (Off)*Energy Infratech Pvt. Ltd,  
15, Bikaji Cama Place,  
NBCC Tower, Ist Floor,  
New Delhi - 110 066  
Tele:011-46598888  
Fax: 011-46529746

Email: rvshahi@nic.in, rvshahi@energyinfratech.com

Formerly Secretary to Govt of India, Formerly CMD, BSES Ltd.

**Mr. Ram Vinay**

1945

14, A Block, Factory Road,  
Ground Floor, Safdarjung Enclave,  
Adj. Vardhaman Medical College,  
New Delhi - 110 029  
Tele: 011-26182460*Address (Res)*

2007

V

**SHAKHER**

Emeritus Professor

Ph.D.

FNAE, MSPIE, SMOSA, FSPIE, FOSI

*Address (Off)*WS-210, IDD Centre,  
Indian Institute of  
Technology, Hauz Khas,  
New Delhi-110 016  
Tele:011-26591432  
Fax: 011-26582037

Email: cshakher@iddc.iitd.ac.in, cshakher1949@hotmail.com

Formerly Professor, Director, NIT, Hamirpur

**Prof. Chandra**

1949

A-303, Ganinath Nikunj,  
Sector 5, Dwarka,  
New Delhi-110 075  
Tele: 9810946902*Address (Res)*

2006

X

**SHANKAR**

Professor (HAG Grade)

Ph.D.(Industrial Engg &amp; Management)

FNAE, MINFORMS(USA)

*Address (Off)*Department of Management  
Studies, Indian Institute of  
Technology Delhi,  
Vishwakarma Bhawan,  
Shaheed Jeet Singh Marg  
New Delhi - 110016  
Tele:011-26596421

Tele:011-26591991

Email: ravi1@dms.iitd.ac.in, r.s.research@gmail.com

**Prof. Ravi**

1961

50, Vikramshila Apartment,  
Indian Institute of Technology  
Delhi, Hauz Khas,  
New Delhi - 110016*Address (Res)*

2017

X



**SHANKAR**

Professor  
B.Tech, M.E., Ph.D.  
FNAE

*Address (Off)*

Department of Chemical  
Engineering,  
IIT Kanpur  
Kanpur-208016  
Tele: 0512-2597377  
Email: viswanathan.shankar@gmail.com, vshankar@iitk.ac.in

**Prof. Viswanathan**

1972

*Address (Res)*

House 669, Type IV,  
IIT Kanpur-208016,  
Uttar Pradesh

Tele: 0512-2598633

2021

IV

**SHANKER**

Visiting Professor  
Ph.D.,MS,M.Tech.,BSc.Engg  
FNAE, FIE, FIETE, MISTE, MIIIE, SMIE

*Address (Off)*

Mechanical Engineering  
Department, Indian Institute  
of Technology (BHU)  
Varanasi, Varanasi-221005  
Tele:09415042484  
Email: ks@iitk.ac.in

**Prof. Kripa**

1949

*Address (Res)*

House No.B-31/41-4-K-1  
(Behind Sankat Mochan Mandir),  
Bhogabir, Lanka,  
Varanasi-221005  
Tele: 09415042484

2007

X



Formerly Professor and Deputy Director, IIT Kanpur; Former Emeritus Fellow, Industrial and Management Engineering Department, IIT Kanpur and Formerly Vice-Chancellor, Uttar Pradesh Technical University, Lucknow  
Counc.2022-2024

**SHANTHI PAVAN**

Professor  
Sc.D  
FNAE, FIEEE

*Address (Off)*

Department of Electrical  
Engineering,  
IIT Madras,  
Chennai - 600036  
Tele:044-25574437  
Fax: 044-22574402  
Email: shanthi@ee.iitm.ac.in

**Prof. Yendluri**

1973

*Address (Res)*

B-19, Lakeview Road,  
IIT Madras Campus,  
Chennai-600036

Tele: 044-22576437

2012

VI



**SHARAN**

Professor Emeritus  
M.Sc.(Maths), Ph.D.  
FNAE, FNA, FNASc.  
*Address (Off)*  
Centre for Atmospheric  
Sciences, Indian Institute  
of Technology, Hauz Khas  
New Delhi-110 016  
Tele: 011-26591312  
Fax: 011-26591386  
Email: mathilis@cas.iitd.ac.in

**Prof. Maithili**

1953  
*Address (Res)*  
A4, Solar House,  
IIT Campus, Hauz Khas,  
New Delhi - 110016, India

2006

X



Tele: 011-26591946, 26515480, 9810845534

**SHARDA**

B.Tech(Agril. Engg), M.Tech (Soil & Water Engg),  
Ph.D.(Soil & Water Engg)  
FNAE, Fulbrighter (USA), FNAAS, FIE(I), FIASWC, FISAE

**Dr. Vishwa Nath**

1954  
I  
*Address (Res)*  
Flat No.202, Tower No.3A,  
Suncity Parkrama Housing Complex,  
Sector 20, Panchkula-134 116  
(Haryana)  
Tele: 9810505328

2010

I



Email: vnsharda2@gmail.com, vnsharda@gmail.com

Formerly Director, Indian Institute of Soil and Water Conservation, Dehradun; Former  
Member, Agricultural Scientists Recruitment Board, New Delhi

**SHARMA**

M.Tech, Ph.D  
FNAE, FNA, FASc, FNASI, FOSA, FIETE

*Address (Off)*  
Physics Department,  
Indian Institute of  
Technology Delhi Hauz Khas,  
New Delhi-110 016  
Tele: 011-26591350  
Email: asharma@physics.iitd.ac.in  
Counci. 2013-15 and 2016-2018

**Prof. Anurag**

1955

2009

VI



*Address (Res)*  
4, C-Street,  
Taxila Apartments,  
IIT Campus, Hauz Khas,  
New Delhi-110 016  
Tele: 011-268687022, 26591929



**SHARMA**

Outstanding Scientist,  
Associate Director,  
Beam Technology Development Group,  
BARC, Mumbai; Senior Professor,  
Homi Bhabha National Institute (HBNI)  
B.E.(Electrical), M.Sc.(Engg), Ph.D.(HVE)  
FNAE

*Address (Off)*

Bhabha Atomic Research  
Centre (BARC),  
Modular Lab.,  
Room No.266H/271H,  
Trombay, Mumbai-400 085

Tele: 022-25593619/ 3660/3988 Tele: 022-25566042

Email: arsharma@barc.gov.in; as25566042@gmail.com

Formerly Head, Pulsed Power & Electro-Magnetic Division  
Counc.2022

**Dr. Archana**

1964

2017

V

*Address (Res)*

53, Sreeniketan,  
Anushaktinagar,  
Mumbai-400 094

**SHARMA**

Institute Chair Professor  
Ph.D.

FNAE, FNA, FASc., FNASc., FTWAS

*Address (Off)*

NL2-106,  
Department of Chemical,  
IIT Kanpur,  
Kanpur 208016

Tele:0512-2597026

Email: ashutos@iitk.ac.in

Former Secretary to the Government of India, Department of Science & Technology, New  
Delhi

**Prof. Ashutosh**

1961

2004

IV

**SHARMA**

Professor  
B.E., M.E., Ph.D.

FNAE, LMISFMFP

*Address (Off)*

Room No. F-31 (Office)  
and F-29 (CFD Laboratory),  
Department of Mechanical  
Engineering, Indian Institute  
of Technology, Bombay,  
Powai, Mumbai-400076,  
Maharashtra, India

Tele: 022-25767505, 25767505 Tele: 022-25768505

Email: atulsharma@iitb.ac.in, atulsharma.iitb@gmail.com

**Prof. Atul**

1972

2021

III



**SHARMA**

Professor  
B.E., M.Tech, Ph.D.  
FNAE

*Address (Off)*

Department of Civil  
Engineering,  
Indian Institute of  
Technology, Kanpur,  
Kanpur-208 016  
Tele:0512-2597759  
Email: mukesh@iitk.ac.in

**Prof. Mukesh**

1959

2015

I

**SHARMA**

B.Sc.(Hons), AISM  
FNAE, FIE, MGMI, MBIS

**Mr. Naresh Kumar**

1945

2003

VIII

*Address (Res)*

54, Ashoka Crescent,  
DLF Phase-I,  
Gurgaon-122 009 (Haryana)

Email: nareshneena2000@yahoo.com, nareshneena2000@gmail.com  
Formerly Chairman, Coal India Limited, Kolkata

**SHARMA**

Outstanding Scientist/  
Deputy Director  
B.E., M.S., Ph.D.  
FNAE, FIIM, LMMRSI, MSPS

*Address (Off)*

Vikram Sarabhai Space  
Centre, PCM Entity,  
Trivandrum-695022  
Tele:0471-2563847  
Fax: 0471-2704959

**Dr. Sharad Chandra**

1962

2017

VIII

*Address (Res)*

“Shankar Sadan”, Muttathara,  
Vallakadavoo PO,  
Trivandrum-695 008

Email: sharma\_sc@vssc.gov.in, scsharma62@gmail.com

Former Scientist/Engineer ‘H’/Group Director, Materials & Metallurgical Group, Vikram Sarabhai Space Centre, Trivandrum



**SHARMA**

Director

B.E., M.E., Ph.D.

FNAE, SMIEEE, FIETE, MASI, MJSRS

*Address (Off)*

Indus Institute of Technology  
and Engineering,  
Randharda via : Thaltej,  
Ahmedabad-382115

Tele:02764-260277/278/279

Fax: 02764-260277/278/279

Email: drsbsdiretor@gmail.com, drsbsharma09@gmail.com

Formerly Outstanding Scientist and Deputy Director, Antenna Systems Area, Department of Space, Govt. of India, Space Application Centre (ISRO), Ahmedabad

**Dr. Shashi Bhushan**

1947

*Address (Res)*

House No.19, Sector D1,  
ISRO Complex,  
Sterling City, Bopal,  
Ahmedabad - 380058

Tele: 02717-231426

2010

VI



**SHARMA**

Professor

Ph.D.

FNAE, FIETE, SMIEEE

*Address (Off)*

Department of Electrical  
Communication Engineering,  
Indian Institute of Science,  
Malleswaram,  
Bangalore-560012

Tele:080-22932854, 23608024

Fax: 080-23608024 Extn.22

Email: vinod@iisc.ac.in

Formerly Professor and Chairman, ECE, IISc., Bangalore

**Prof. Vinod**

1957

*Address (Res)*

No.33, 2nd Main,  
AECS layout, 2nd Stage,  
Nagashettyhalli,  
Bangalore-560 094

Tele: 080-23410072

2013

VI



**SHARMA**

BE

FNAE

Fax: 00-33-1-44492129

Email: vipinvc@gmail.com

**Mr. Vipin Chandra**

1954

*Address (Res)*

120, QUAI LOUIS BLERIOT  
75016, Paris. France  
Tele: 00-33-1-40600147

2000

I



**SHARMA** **Mr. Virendra Kumar** 2001  
1941 IX

B.Sc.(Engg)  
FNAE, MINS, MISHMT

*Address (Res)*  
42, Deonar House,  
Deonar Village, Mumbai-400 088  
Tele: 022-25555831



Email: vkmssharma@gmail.com

Formerly Senior Executive Director 700 MW, Nuclear Power Corporation of India Ltd., Mumbai, Formerly President Operations, Gommon India Ltd, Mumbai

**SHERLEKAR** **Dr. Sunil Dattatraya** 2007  
1956 VI

Chairman & CEO,  
SankhyaSutra Labs. Pvt. Ltd.  
Ph.D., IIT Bombay, M.Tech. (Computer Sc & Engg), IIT Bombay,  
B.Tech. (Elect Engg), IIT Bombay  
FNAE, MIEEE

*Address (Off)*  
13th Floor, M2 Block,  
North Avenue, Manyata  
Embassy Business Park,  
Outer Ring Rd, Nagavara,  
Bengaluru, (KA) 560045  
Tele:080-22082994

*Address (Res)*  
303, Bougainvillea Apartments,  
3rd Main, L.N. Reddy Colony,  
Vignyan Nagar,  
Bangalore-560 037

Tele: 080-25233994

Email: sunil.d.sherlekar@gmail.com

Formerly Founder & Head of Research, Computational Research Labs. Ltd. & Chief Scientist Tata Consultancy Services Ltd., Bangalore; Formerly Director, Intel Technology India Pvt. Ltd., Bangalore



**SHETH** **Ms Alpa** 2009  
1963 I

Managing Director  
M.Engg  
FNAE, MACI, MIEI, MASCE

*Address (Off)*  
VMS Consultants Pvt Ltd,  
83, Sakhar Bhavan,  
230 Nariman Point,  
Mumbai-400021  
Tele:022-61725200

*Address (Res)*  
B 405 Ashok Towers  
B Ambekar Rd, Parel,  
Mumbai 400012



Email: alpa\_sheth@vakilmehthasheth.com, sheth.alpa.r@gmail.com  
Counc.2017-2019 and 2020-2022



**SHROFF**

Senior Vice President  
and TCS Fellow,  
Chief Scientist & Head  
B.Tech, M.S., Ph.D.  
FNAE, FACM  
Address (Off)  
Tata Consultancy Services,  
PTI Building,  
Parliament Street,  
New Delhi-110001  
Tele: 01246109048/49  
Email: gautam.shroff@gmail.com, gautam.shroff@tcs.com

**Dr. Gautam**

1964  
  
Address (Res)  
4, Feroze Gandhi Rd.  
Lajpat Nagar 3,  
New Delhi-110024

Tele: 1147032347

2021

II

**SHUKLA**

Chairman  
Ph.D  
FNAE, FNASc, FNA  
*Address (Off)*  
Solid State & Structural  
Chemistry Unit,  
Indian Institute of Science,  
Bangalore - 560012  
Tele:080-22932795  
Fax: 080-23601310  
Email: akshukla2006@gmail.com, akshukla@iisc.ac.in  
Former Director, Central Electrochemical Research Institute, Karaikudi (TN)

**Prof Ashok Kumar**

1947  
  
*Address (Res)*  
924, 7th Cross, Gokula Ist Stage,  
Ist Phase, Mathikare PO,  
Bangalore - 560054

Tele: 080-23374075

2011

X

**SHUKLA**

Chairperson &  
Managing Director  
B.Tech in Chemical Engineering from IIT-Kanpur,  
Executive General Management from IIM-Lucknow  
FNAE, FICCI, CIIFPI  
*Address (Off)*  
Engineers India Limited,  
1, Bhikaji Cama Place,  
New Delhi-110066  
Tele: 011-26762502, 26762917  
Email: vartika66@gmail.com, vartika@eil.co.in

**Ms. Vartika**

1966  
  
*Address (Res)*  
B1/1794 Vasant Kunj,  
Delhi-110070

Tele: 011-26134621

2021

IV



**SHYAMASUNDAR**

JC Bose National Fellow  
and Distinguished  
Visiting Professor  
Ph.D.

FNAE, FIEEE, FACM  
FASc, FNA, FNAe, FNAS, TWAS

*Address (Off)*

Department of Computer  
Science and Engineering  
Indian Institute of Technology  
Bombay, Powai  
Mumbai 400 076

Tele: 022-25767904

Fax: 022-25723480

Email: shyamasundar@gmail.com

**Dr. Rudrapatna Kallikote**

1950

1999

II



*Address (Res)*

102, Satyendra,  
TIFR Housing Colony,  
Homi Bhabha Road,  
Mumbai-400005

Tele: 022-25720001

**SIKDAR**

President

Ph.D.

FNAE, FIE, FCILT, MIRC, MIUT

*Address (Off)*

Intercontinental Consultants  
& Technologies Pvt. Ltd.,  
A-9, Green Park  
New Delhi-110 016

Tele: 9810914051, 9205821131

Fax: 11-26855252

Email: pksikdar@ictonline.com

Formerly Professor, IIT Bombay; Formerly Director, CRRI, New Delhi

**Prof. Prabeer Kumar**

1947

2001

I



*Address (Res)*

A-25, CEL Apartment,  
Vasundhara Enclave,  
Delhi-110 096

Tele: 011-22618953, 47072743

**SINGH**

CEA Chair Professor

B.E. (Electrical), M.Tech., PhD

FNAE, FNA, FNASc, FASc, FTWAS, FIEEE, FIET,  
FIETE, FIE(I)

*Address (Off)*

Department of Electrical  
Engineering, Indian Institute  
of Technology Delhi,  
Hauz Khas, New Delhi-110016  
(India)

Tele: 011-26591045, 9811502125

Fax: 011-26581606

Email: bsingh@ee.iitd.ac.in, bhimsinghiitd63@gmail.com

**Prof. Bhim**

1956

2003

V



*Address (Res)*

60, New Campus, IIT,  
New Delhi-110016

**SINGH**

Emeritus Fellow  
Ph.D.

FNAE, FIE, SMIEEE, MISTE

*Address (Off)*

Department of Electrical  
Engineering, Indian Institute  
of Technology, Hauz Khas,  
New Delhi-110 016  
Tele:011-26591064  
Fax: 011-26581606

Email: bishwapsingh@hotmail.com

Formerly Professor of Electrical Engg., IIT Delhi

**Prof. Bishwambhar Prasad**

1940

*Address (Res)*

41, Vaishali Apartments,  
New Campus, Indian Institute  
of Technology, Hauz Khas,  
New Delhi-110 016  
Tele: 011-26591878

2005

V

**SINGH**

D.L. Shah Chair Professor  
for Innovation

Ph.D.

FNAE, FASCE FICE (UK)

*Address (Off)*

Department of Civil  
Engineering, Indian Institute  
of Technology, Bombay,  
Powai, Mumbai - 400076  
Tele:022-25767340  
Fax: 022-25767302, 25720644

Email: dns@civil.iitb.ac.in, dnsiitb@gmail.com

**Prof Devendra Narain**

1965

*Address (Res)*

212, 15th Floor, ARAVALI,  
Building No.23, Hill Side,  
IIT Bombay, Powai,  
Mumbai- 400 076  
Tele: 022-25768340

2011

I

**SINGH**

Hony. Distinguished

Research Professor

DLIT (Post-M.Sc. Dip. in Applied Optics)

FNAE, FOSA, FSPIE, FOSI, FLSSI

*Address (Off)*

The Northcap University  
(Formerly ITM University)  
Sector 23A, Gurgaon-12207  
Tele:0124- 2365811/12/13  
Fax: 011-26581114

Email: kehars@physics.iitd.ac.in, keharsiitd@gmail.com

Formerly Dean, Postgraduate Studies & Research, IIT Delhi; and Formerly Emeritus Fellow,  
Physics Department, Indian Institute of Technology, Delhi

**Prof. Kehar**

1941

*Address (Res)*

B-04, Gyandeeep (IITDTCGHS),  
Mayur Vihar, Phase I,  
Delhi-110 091  
Tele: 011-22753712

2004

X





**SINGH**

Managing Director,  
Delhi Metro Rail Corporation  
(DMRC)

B.Sc., B.E., M.Sc.

FNAE, FIE, MTAI, MIUT

*Address (Off)*

Bungalow No.1, Metro Enclave,  
41, Press Enclave Road,  
Pushp Vihar, New Delhi-110017

Tele:011-23418301

Fax: 011-23418311, 29563900

Email: mdmetro@dmrc.org

**Dr. Mangu**

1955

*Address (Res)*

Tele: 011-29562040

2015

I

**SINGH**

BE(Electrical)

FNAE, MINS

Email: manjitsinghbarc64@gmail.com

Formerly Distinguished Scientist and Director, Design Manufacturing & Automation Group and Engineering Services Group, Bhabha Atomic Research Centre, Mumbai

**Mr. Manjit**

1950

*Address (Res)*

B-703, Jai Balaji CHS Ltd,

Sector 6, Nerul, Plot-26,

Navi Mumbai - 400 706

Tele: 022-27704264

2006

V

**SINGH**

B.Tech (IIT Roorkee)

FNAE

Email: singhpk.sail@gmail.com

Former CEO, Durgapur Steel Plant, SAIL;

Former Chairman, Steel Authority of India Ltd., New Delhi

**Mr. Prakash Kumar**

1958

2017

VIII

**SINGH**

Executive Vice-Chairman

M.Sc.

FNAE

*Address (Off)*

Jindal Power Ltd.,

OP Jindal Super Thermal

Power plant, 2nd Floor,

DCM Building, Plot No.94,

Sector 32, Gurgaon-122 001

Tele:0124-6689000

Fax: 0124-6689101

Email: info@jindalpower.com

Formerly Chairman & Managing Director, Powergrid Corporation of India Ltd., Gurgaon Counc.2008-2010

**Mr. Rajendra Prasad**

1948

*Address (Res)*

A1, PWO Housing Complex,

Sector 43,

Gurgaon (Haryana)

Tele: 0124-5043680

2004

V



**SINGH**

DAE Raja Ramanna Fellow  
& Senior Professor

Homi Bhabha National Institute  
BSc. Engg. (Mechanical), Ph.D.(Structural Engg.)  
FNAE, MIACM, MINS, MISHMT

*Address (Off)*

Reactor Design and  
Development Group,  
Engineering Hall 7,  
Bhabha Atomic Research  
Centre, Trombay,  
Mumbai-400085

Tele: 022-25595135, 25592581 Tele: 09869402961, 7248864657

Fax: 022-25505151, 25519613

Email: rksingh175@rediffmail.com, ramkumar.singh@gmail.com

Distinguished Scientist (Retired), Former Associate Director Reactor Design and Development Group / Head, Reactor Safety Division & Senior Professor Homi Bhabha National Institute, BARC, Mumbai

**Dr. Ram Kumar**

1953

2012

IX

*Address (Res)*

Flat 601, Dev Prasad Complex,  
Plot, 2/3/4, Sector 30,  
Kharghar, Navi Mumbai-410210

**SINGH**

Ph.D.

FNAE, FNA, FNAAS

**Dr. Sita Ram**

1942

1995

I

*Address (Res)*

House No.561, Sector 2,  
Udyan-II, ELDE Co. Colony,  
Rae Bareilly Road,  
Lucknow-226 025 (U.P.)  
Tele: 9935631990



Email: strm. singh1942 @gmail.com; strmsingh@yahoo.com

Formerly Director, ICAR Research Complex for Eastern Region, Patna; Formerly Vice-Chancellor, Rajendra Agricultural University , PUSA, Samastipur Counc.2001-2002 and 2003-2004

**SINGH**

Professor (HAG)

B.Tech.(EE), M.Tech.(EE), Ph.D.(EE)

FNAE, FIEEE (USA), FIET (UK), FIE(I), FIETE

*Address (Off)*

Department of Electrical  
Engineering,  
IIT Kanpur,  
Kanpur-208016

Tele:0512-259-7009 Tele: 0512-2598509

Fax: 0512-259-0260, 2590063

Email: snsingh@iitk.ac.in, snsingh93@gmail.com

Former Vice-Chancellor, Madan Mohan Malaviya University of Technology Gorakhpur

**Dr. Sri Niwas**

1966

2015

V

*Address (Res)*

House No. 446,  
IIT Campus,  
IIT Kanpur-208016



**SINGH**

M.Tech.  
FNAE, FIETE, MCSI

**Maj Gen (Retd) Surjit**  
1941

1996  
VI

*Address (Res)*  
# 1192, Sector 34C,  
Chandigarh-160022  
Tele: 0172-4676192



Email: surjit97eme@gmail.com

Formerly Director, Management Development Centre, Ashok Leyland Ltd., Hosur,  
Tamil Nadu

**SINGHAL**

Director  
B.Sc., D.Phil  
FNAE, FIIM, FIE

*Address (Off)*  
JSL Ltd., O.P. Jindal Marg,  
Hisar-125005  
Tele:01662-222471

Email: lksinghal@hotmail.com

**Dr. Lokesh Kumar**  
1943

2010  
VIII

*Address (Res)*  
151, Sector 15-A,  
Hisar-125 001

**SINHA**

Distinguished Scientist (DS),  
Raja Ramanna Fellow (RRF),  
DAE  
B.Sc. Engg.(Mech)  
FNAE

*Address (Off)*  
Centre for Design &  
Manufacture (CDM),  
Bhabha Atomic Research  
Centre (BARC), Trombay,  
Mumbai-400085

Tele: 022-25595057

Email: aksinha1983@yahoo.com

**Mr. Anil Kumar**  
1956

2012  
III

*Address (Res)*  
B-602, Mahaavir Jyoti,  
Plot No.248A/249,  
Sector 10, Khargar,  
Navi Mumbai-410 210

Tele: 09757000347, 09920229924



Distinguished Scientist (DS), Former Head, Centre for Design & Manufacture (CDM),  
Bhabha Atomic Research Centre, Trombay, Mumbai; Raja Ramanna Fellow (RRF), DAE,  
Mumbai

**SINHA**

Head

Ph.D.

FNAE, FNASc., FIETE, FIEEE, FWBAST

*Address (Off)*

Advanced Computing and  
Microelectronics Unit,  
Indian Statistical Institute  
203, Barrackpore Trunk Road  
Kolkata- 700 035

Tele:033-25753001

Fax: 033-25773035

Email: bhabani@isical.ac.in

**Prof. Bhabani P**

1952

1999

II

*Address (Res)*

Srijoni Housing Society,  
Plot No.42, Doltala,  
Madhyamgrah, Kolkata-700 132

Tele: 033-25269999

**SINHA**

Formerly – Director,

CSIR-CMERI

Ph.D.(Engg.)

FNAE, FIE, FORSI

*Address (Off)*

C-5/11, Tata Steel Officers'  
Enclave, Sector: Beta 1,  
Greater Noida-201306, UP

Tele: 0120-2322653, 9582060213

Email: gopalsinha@hotmail.com, gopalpsinha@gmail.com

**Dr. Gopal Prasad**

1946

2006

III

*Address (Res)*

C-5/11, Tata Steel Officers'  
Enclave, Sector: Beta 1,  
Greater Noida-201306, UP

**SINHA**

BSc.(Engg)

FNAE, MINS

*Address (Off)*

6th Floor, Central Complex,  
BARC, Mumbai - 400 085

Tele:022-25593788

Fax: 022-22843888

Email: rksinha@barc.gov.in, sinha.rk@nic.in

Formerly Director, BARC, Mumbai, Formerly Chairman, Atomic Energy Commission and  
Secretary, Department of Atomic Energy.

**Dr. Ratan Kumar**

1951

1999

IX

*Address (Res)*

Unit 1, Plot 74, Lane C,  
Sector 8, Vashi,  
Navi Mumbai - 400 703  
Tele: 022-27827488



**SINHA**

Ph.D.  
FNAE

**Dr. Uday Narayan**  
1947

1993  
VII



*Address (Res)*  
'Maa', No.2, 6th Cross,  
Nagasandra PO, Bagalagunte,  
Bangalore-560 073  
Tele: 080-28372597

Email: sinhaun47@gmail.com

Formerly Distinguished Scientist, CSIR-NAL/CSIR-C-MMACS, National Aerospace Laboratories, Bangalore

**SIROHI**

M. Sc. (Phys.), Post-M.Sc. (Appl.Opt.), Ph.D. (Phys.)  
FNAE, FASc, FOSI, FOSA, FSPIE, FISOL, AvH Fellow,  
AvH Awardee, MIPA, MISCA, MILA, MSSV, MAPS

*Address (Res)*  
#35, A-15A,  
Tripura Nest Apartment,  
11th Cross, Between 6th and 7th  
Mains Malleswaram  
Bengaluru – 560 003  
Tele: 09799996810

1999  
X



Email: rajpal.sirohi@gmail.com, rs\_sirohi@yahoo.co.in

Formerly Director, IIT Delhi; Vice-Chancellor, Barkatullah University, Bhopal; Chairman, BOG, NSIT, Delhi; Chairman, GB, NCSM, Kolkata; Former BRLGB Chair Professor, Department of Physics Tezpur University, Napaam Tezpur (Assam)  
Hon. Treas.2003-2005

**SITARAM**

Chairman Governing  
Council, SETS  
B.Sc., BE, M.Tech  
FNAE, MIEEE

*Address (Off)*  
Society for Electronics  
Transactions & Security  
(SETS), MGR Knowledge  
City, CIT Campus, Taramani,  
Chennai 600013

**Mr. N**  
1946

2002  
VI



*Address (Res)*  
1668, 16 A Main, 5th Cross,  
2nd Phase, JP Nagar,  
Bangalore-560078

Tele: 080-26588227

Email: n.sitaram.in@gmail.com

Formerly, Distinguished Scientist & Chief Controller (R&D), DRDO; Advisor, Bharat Electronics Limited (BEL); Outstanding Scientist & Director, Centre for Artificial Intelligence & Robotics (CAIR), Bangalore; Associate Director, Electronics & radar Development Establishment (LRDE), Bangalore; Distinguished Fellow, Institute for Development & Research in Banking Technology (IDRBT), Hyderabad

**SIVAKUMAR**

B.E., M.E., Ph.D.  
FNAE, FIE

**Dr. Palanivelu**

1958

2015

III

*Address (Res)*

M Block, M 603,  
Phase 3, Santha Towers  
Poonamallee Avadi Road  
Paruthipattu, Chennai-600071

Email: pvelusivakumar@yahoo.co.in; pvelusivakumar@gmail.com

Former Distinguished Scientist and Director, Combat Vehicles Research & Development Establishment (CVRDE), DRDO, Ministry of Defence, Chennai

**SIVALINGAM**

Professor  
B.E., M.S., Ph.D.  
FNAE, FIEEE

*Address (Off)*  
Dept. of Computer  
Science & Engg,  
Indian Institute of  
Technology Madras,  
Chennai 600036,  
Tamil Nadu  
Tele:044-22574378  
Fax: 044-22574352  
Email: krishna.sivalingam@gmail.com; skrishnam@iitm.ac.in

**Prof. Krishna Moorthy**

1967

2015

II

*Address (Res)*

Tele: 044-22576378

**SIVAN**

B.Sc., B.Tech., M.E., Ph.D.  
FNAE, MAe.SI, MAstr.SI, FSSI

**Dr. K**

1957

2012

VII

*Address (Res)*

TC 50/872(10),  
Kalady, Karamana Post,  
Thiruvananthapuram - 695002  
Tele: 0471-2347315

Formerly Chairman, Space Commission, Chairman, ISRO and Secretary, Department of Space, Bangalore, Deputy Director(Aero and Structures); Formerly Project Director, GSLV Project, VSSC, Trivandrum; Former Director, Liquid Propulsion Systems Centre, ISRO, Trivandrum

**SIVARAJAN**

Chief Technology Officer  
Ph.D.

FNAE, MIEEE

*Address (Off)*

TEJAS Networks,  
Khanija Bhawan, 49,  
Race Course Road,  
Bangalore-560 001  
Tele:080-22207495  
Fax: 080-22267494  
Email: kumar@tejasnetworks.com

**Dr. Kumar Nellicherry**

1965

2004

VI

*Address (Res)*

1595, 2nd Cross,  
Nagappa Block,  
Bangalore-560 021

**SIVARAM**

Honorary Professor Emeritus  
and INSA Emeritus Scientist

M.Sc., Ph.D., D.Sc.(h.c.), Purdue Univ., USA  
FNAE, FNA, FASc., FNASc., FTWAS

*Address (Off)*

Indian Institute of Science  
Education and Research,  
Dr Homi Bhabha Road,  
Pune- 411008

Tele:020-2590 8434

Email: s.sivaram@iiserpune.ac.in, sivaramswaminathan01@gmail.com

Formerly Director, NCL, Pune and Former CSIR Bhatnagar Fellow and J. C. Bose Fellow

**Dr. Swaminathan**

1946

2002

IV

*Address (Res)*

Apartment #10 Gulmohar Glory,  
5, Gulmohar Park, ITI Road,  
Aundh, Pune 411007

Tele: 020-41205731, +919860799954

**SIVATHANU PILLAI**

Honorary Distinguished  
Professor, ISRO,

Honorary Professor IIT (Delhi),

President PMA - India

Ph.D. D. Sc

FNAE, MIEEE, MASI, MAe.SI, MISI, MIABL

*Address (Off)*

Indian Space Research  
Organization HQ,  
Department of Space,  
Government of India,  
Antariksh Bhavan, New BEL  
Road, Bangalore 560003

Tele:080-23511828

Email: aspillai.bm@gmail.com

Founder CEO & MD, BrahMos Aerospace; Former Hon' Distinguished Professor, ISRO, Former Chief Controller (R&D), DRDO, Honorary Professor IIT (Delhi), Visiting Professor Indian Institute of Science, Bangalore, President PMA - India

**Dr. A**

1947

2004

VII

*Address (Res)*

# 4B Antariksh Apartment,  
ISRO/DOS Housing Colony,  
101/5, 11th Cross, 8th Main,  
Malleswaram, Bangalore-560003

Tele: 9811024674



**SOBTI**

Chairman &amp;

Managing Director

B.E.(Hons) (Mech Engg), PG Dip (Intl Mgmt)(Accelerated MBA)

FNAE, MWEC, MCIGRE, MCII, MICC

*Address (Off)*

Bharat Heavy Electricals Ltd.,

BHEL House, Siri Fort,

New Delhi-110 049

Tele:011-26001001

Fax: 011-26493659

Email: asobti@bhel.in, sobtiatul@gmail.com

Former Director (Power), BHEL

**Mr. Atul**

1959

2017

III

*Address (Res)*

F-497, Vikas Puri,

New Delhi-110 018

Tele: 011-45545954

**SOM**

Visiting Professor

Ph.D.

FNAE, FIE, FNASc

*Address (Off)*

Department of Applied

Mechanics and Aerospace

Engineering/ Department of

Mechanical Engineering.

IEST, Shibpur

**Prof. Sankar Kumar**

1949

2003

III

*Address (Res)*

Flat No: 5A

368, Purbachal Main Road,

Kolkata 700078

Tele: 033-24840107

Email: sksom@mech.iitkgp.ernet.in

Former Professor, Department of Mechanical Engineering, Indian Institute of Technology, Kharagpur

**SOMAN**

Professor 1967 V

B.E., M.E., Ph.D.

FNAE, MIEEE

*Address (Off)*

Department of Electrical

Engineering, Indian Institute

of Technology Bombay,

Powai, Mumbai-400 076

Tele:022-25767435

Fax: 022-25760935

Email: soman@ee.iitb.ac.in

**Prof. Shreevardhan Arunchandra**

2015

*Address (Res)*

A-14, Bungalow Hill Side,

IIT Bombay, Powai,

Mumbai-400 076

Tele: 022-25768435





**SOMANATH**

Chairman,  
Space Commission,  
Chairman, ISRO and Secretary,  
B.Tech.(Mech), M.E.(Aerospace)  
FNAE, FAeSI, LMINSARM, MAstrSI

*Address (Off)*  
Department of Space,  
Antariksh Bhawan,  
New BEL Road,  
Bangalore-560231

Tele: 080-23415241

Fax: 080-23518551

Email: chairman@isro.gov.in, sssnath@gmail.com

Formerly Director, Vikram Sarabhai Space Centre, Thiruvananthapuram; Associate Director & Project Director, GSLV MkIII, Vikram Sarabhai Space Centre; Former Director, Liquid Propulsion Systems Centre (LPSC), Trivandrum

**Mr. Sreedhara Panicker** 2015  
1963 VII



*Address (Res)*  
M-13, Murali Nagar,  
Ambalamukku, Peroorkada PO,  
Trivandrum-695 005,  
Kerala

**SONDE**

Executive Vice-President,  
RTIC

B.Tech, Ph.D.

FNAE, FINS, FICh.E., FICCh.MA

*Address (Off)*  
Thermax Ltd., D-13,  
MIDC, Industrial Area,  
RD Aga Road, Chinchwad,  
Pune-110019

Tele:020-66122343

Email: rrrsonde57@iitd.ac.in

Formerly Additional General  
Heavy Water Board, Mumbai  
Counc.2007-2009

**Dr. Ramakrishna** 2004  
**Ramanath**  
1957 IX

*Address (Res)*  
Building 'A',  
Kalpataru Enclave,  
Sector No.167 & 168,  
Aundh, Pune-411 007  
Tele: 020-40046601

**SOONEE**

Free Lance Consultant  
B.Tech (Hons) Electrical

FNAE, FIEEE, FIE, MCIGRE, International Member, NAE(USA))

**Mr. Sushil Kumar** 2016  
1956 V

*Address (Res)*  
B 3602 Lodha Bellissimo;  
Apollo Mill Compound ;  
N M Joshi Marg ; Mahalaxmi;  
Mumbai 400011  
Tele: 9899091115



Email: sksoonee@gmail.com

Former Chief Executive Officer and Advisor, POSOCO, New Delhi

**SOOTA**

BE(Elec), MBM  
FNAE

*Address (Off)*

Happiest Minds  
Technologies Pvt. Ltd.,  
SMILES 2, 3 & 4,  
#53/1, 2, 3, 4, Hosur  
Main Road, Madivala,  
Bangalore-560 068

Tele:080-61960300, 61960400

Fax: 080-33203000

Email: ashok.soota@happiestminds.com

Formerly Executive Chairman, MindTree Ltd., Bangalore

**Mr. Ashok**

1942

*Address (Res)*

747, 18th Main,  
6th Block, Koramangala,  
Bangalore-560095

Tele: 080-25532580

2003

II

**SREEDHAR**

Head, Sodium Experiments  
and Hydraulics Division

B.Tech (Hons.), M.Tech., Ph.D.

FNAE, MIE(I), MINS

*Address (Off)*

Room # 404, Hall III,  
Reactor Design & Technology  
Group, Indira Gandhi Centre  
for Atomic Research,  
Kalpakkam-603102  
(Tamil Nadu)

Tele: 044-27480086

Email: bksree@yahoo.com, bksree@gmail.com

**Dr. BK**

1965

*Address (Res)*

No. 1, Ranjani,  
DAE Township,  
Anupuram -603127,  
(Tamil Nadu)

Tele: 044-29875064

2021

III

**SREEDHARAN**

BE(Hons)

FNAE, FIBE, FICE(Lond.), FIRT

**Dr. Elattuvalappil**

1932

*Address (Res)*

Perumbayil House,  
Kuttikkad Jn., Ponnani,  
Malappuram Dist.,  
Kerala-679577

Tele: 0494-2663073, 2663063

1996

I



Email: dmrepon@gmail.com

Formerly CMD, Konkan Railway and Formerly Managing Director, Delhi Metro Rail Corporation, New Delhi

**SREEKUMAR**

Vice-President,  
Defence & Aerospace,  
Heavy Engineering and  
Chief Executive,  
L&T Cassidian Ltd.  
B.Sc.(Engg), M.Tech  
FNAE, FIE, FIETE

*Address (Off)*

Larsen & Toubro Ltd.,  
G-Building, Powai Campus,  
Saki-Vihar Road,  
Mumbai-400 072  
Tele:022-67053841  
Fax: 022-67051070

Email: sreekumar.k@larsentoubro.com, sreekumar.kumaran@gmail.com

**Mr. Kumaran**

1958

2013

V

*Address (Res)*

301-Signia Oceans,  
Sector 10A, Airoli,  
Near D-Mart,  
Navi Mumbai-400708  
Tele: 9821888431

**SRIDHARAN**

Ph.D., D.Sc.  
FNAE, FNA, FASc., Hon.FIGS

**Prof. Asuri**

1937

1989

I

*Address (Res)*

“Sapatagiri”, No.40,  
West Park Road,  
Between 13th & 14th Cross,  
Malleswaram, Bangalore-560 003  
Tele: 080-23341046

Email: sridharanasuri@yahoo.com

Formerly Professor of Dept. of Civil Engineering and Deputy Director, Indian Institute of Science, Bangalore

**SRIKANTH**

B.Sc., M.E., Ph.D.  
FNAE, FNAsc., FIE

**Dr. Srinivasan**

1960

2010

VIII

*Address (Res)*

256 (1st Floor)  
Alagirisami Salai,  
KK Nagar (West),  
Chennai – 60007  
Tele: 044-23662472

Email: ssrikanthnml@gmail.com, s\_srikanth\_99@yahoo.com

Formerly Outstanding Scientist CSIR & Director CSIR-NML, Jamshedpur

**SRINIVASA MURTHY****Prof. Srikantiah**  
19452000  
III

D.Phil

FNAE, FIE, FIEF, FASME, FIAR, FIAIT, MIIR, MASHRAE,  
MSESI, MISHMT, MISHRAE, MISREEE*Address (Off)*Interdisciplinary Centre for  
Energy Research (ICER),  
Indian Institute of Science,  
Bangalore-560 012

Tele:080-22933525

Email: ssmurthy@iitm.ac.in

Formerly Professor, Department of Mechanical Engineering, Indian Institute of Technology  
Madras, Chennai*Address (Res)*226, 8A Main, NTI Layout,  
Vidyaranyapura,  
Bangalore-560 097

Tele: 080-23641445

**SRINIVASAN**Distinguished Scientist  
Ph.D.

FNAE, FNA, FASc.

*Address (Off)*Divecha Centre for  
Climate Change,  
Indian Institute of Science,  
Bangalore-560 012

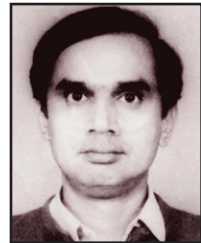
Tele:080-22933068

Fax: 080-23600865

Email: jayes@iisc.ac.in

Former Chairman, Divecha Centre for Climate Change and Honorary Professor, Centre for  
Atmospheric and Oceanic Sciences, Indian Institute of Science, Bangalore  
Counc.2003-2004; Ed. Pub.2005-2006**Prof. Jayaraman**  
19471997  
III*Address (Res)*004, Chandrika Apartments,  
64, East Park Road,  
Malleswaram, Bangalore-560 003

Tele: 080-23314998

**SRINIVASAN****Dr. Malur Ramaswamy**  
19301987  
IX

Ph.D., D.Sc.(h.c.)

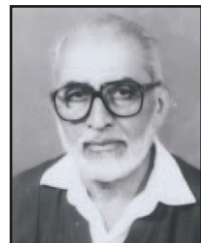
FNAE, FIE

*Address (Res)*Sunningdale, Kotagiri Road,  
Ootacamund, Nilgiri District,  
Tamil Nadu-643 002

Tele: 0423-2443216

Fax: 0423-2442572

Email: suraag\_ooty@yahoo.co.in

Formerly Member, Planning Commission; former Chairman, AEC and Secretary, Department  
of Atomic Energy; Formerly Adviser, International Atomic Energy Agency; Former  
Chairman, NPCIL, Mumbai  
Counc.-1989-93

**SRINIVASAN**

Professor

Ph.D.

FNAE, FNA, FASc.

*Address (Off)*

Department of Inorganic  
and Physical Chemistry,  
Indian Institute of Science,  
Bangalore – 560012

Tele:080-22933315

Fax: 080-23606867

Email: sampath@iisc.ac.in, 2008sampath@gmail.com

**Prof. Sampath**

1961

*Address (Res)*

EV-05, Vigyanpura Qtrs.,  
Opp. ISRO Headquarters,  
RMV II Stage,  
Bangalore-560 094

Tele: 080-23511974

2016

X

**SRINIVASAN**

Chairman

BE, MS(Purdue Univ.,USA)

FNAE, MCH, MSIAM, MARAI

*Address (Off)*

TVS Motors Company Ltd.,  
Jayalakshmi Estates,  
24, Haddows Road,  
Chennai-600 006

Tele:044-28331221

Fax: 044-28331214

Email: venu@scl.co.in

**Mr. Venu**

1952

*Address (Res)*

West Side House,  
3 Adyar Club Gate Road,  
Chennai-600 028

Tele: 044-24348901

2006

III

**SRINIVASULU**

BE(Hons.), ME

FNAE, FIE, FIW, HonFISNT, CE

**Mr. Avula**

1939

*Address (Res)*

B-3-1, Oakyard Apt.,  
38th Cross,  
East End 'C' Main Road,  
9th Block, Jayanagar,  
Bengaluru-560 069

Tele: 080-41323542

1997

IX



Email: avula1939@gmail.com

Formerly Director (Engg. R&D) BHEL, Formerly MD, Germanischer Lloyd Industrial  
Services India Pvt. Ltd.

**SRIVASTAVA**

Distinguished Scientist  
& Chief Executive

B. Tech. Ph.D.

FNAE, FEMSI, LMINS, LMIIM, LMMRSI, LMMSI

*Address (Off)*

Nuclear Fuel Complex,

ECIL Post,

Hyderabad-500062

Tele: 040-27123728, 27132996

Fax: 040-27121305

Email: cenfc@nfc.gov.in, dsrivastavabar@yahoocoin

Formerly Outstanding Scientist & Deputy Chief Executive, NFL

**Dr. Dinesh**

1961

2020

VIII

**SRIVASTAVA**

Distinguished Scientist/  
Director,

MSc.(Tech)

FNAE, FIETE, LMINS

*Address (Off)*

Electronics & Instrumentation

Group, Bhabha Atomic

Research Centre, Trombay,

Mumbai 400 085

Tele:022-25505153, 25593708

Fax: 022-25591803

Email: gyan25@yahoo.com

Formerly CMD and Distinguished Scientist, ECIL, Hyderabad

**Mr. Gyan Prakash**

1949

2001

VI



*Address (Res)*

D6/401, Sagar Darshan,

Sector 18, Nerul (West),

Navi Mumbai-400 706

Tele: 022-27717067

**SRIVASTAVA**

Professor and Head,

Department of BSBE

Ph.D.(Louisiana Tech University, USA), BE (VNIT Nagpur)

FNAE, FNASc, FRSC, FRSB

*Address (Off)*

Department of Biosciences

and Bioengineering,

IIT Bombay Campus,

Powai, Mumbai-400076

Tele:(022) 25767746

Email: rsrivasta@iitb.ac.in, rsrivasta@gmail.com

**Prof. Rohit**

1976

2021

X



*Address (Res)*

Room 505,

Department Of Bsbe. Iit

Powai, India, Maharashtra

Tele: (022) 25768746

**SRIVASTAVA**

Director IITK-LTU  
Research Academy  
Ph.D

FNAE, FIEEE, FIE(I), FIETE, FIAMMS, LMSSI, LMSPEI

*Address (Off)*

Department of Electrical  
Engineering, Indian Institute  
of Technology Kanpur,  
Kanpur-208016

Tele:0512-2597625

Fax: 0512-2590063

Email: scs@iitk.ac.in, scs.iitk.ee@gmail.com

Formerly Professor, Indian Institute of Technology Kanpur  
Counc.2014-16

**Prof. Suresh Chandra**

1955

2002

V



*Address (Res)*

H.No.614,  
IIT Kanpur  
Kanpur-208016

Tele: 0512-2598257

**SUBBA RAO**

Ph.D.

FNAE, FIE, FIGS

**Prof. Kanakapura  
Subrahmanyaswamy**

1941

1994

I



*Address (Res)*

No.4, National High School Road,  
Visweswarapuram,  
Bangalore-560 004  
Tele: 080-26677494

Email: kssubbarao7@gmail.com

Formerly Professor of Civil Engineering, Indian Institute of Science, Bangalore

**SUBBA RAO**

Head

M.Tech

FNAE, MISAMPE, MISSS

*Address (Off)*

Advanced Engineering,  
Tata Advanced Materials Ltd.  
(TAML), 10, Jigani Industrial  
Area, Jigani,  
Bangalore-562 106

Tele:080-66955822

Fax: 080-27825570

Email: maddelasubbarao2@gmail.com

Formerly Head, Advanced Composites Division, National Aerospace Laboratories, Bangalore

**Mr. Maddela**

1946

2004

VII



*Address (Res)*

432/D-10th Cross,  
21st Main,  
JP Nagar-II Phase,  
Bangalore-560 078

Tele: 080-26492775

**SUBBARAO**

Chief Consulting Adviser  
MS, Ph.D.

FNAE, FNA, FASc., FIICer., MIIM

*Address (Off)*

Tata Research Development  
& Design Centre,  
54B, Hadapsar Industrial  
Estate, Hadapsar,  
Pune-411 013

Tele:020-6608-6267

Email: [ecsubbarao@gmail.com](mailto:ecsubbarao@gmail.com)

Formerly Professor, IIT Kanpur; Director and then Chief Consulting Advisor, Tata Research Development & Design Center, Pune

**Prof. Eleswarapu Chinna**

1928

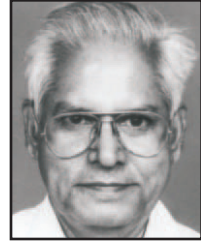
1995

VIII

*Address (Res)*

Daamini, 6 Pallod Farms.  
Baner Road, Pune 411045

Tele: 020-26127643, 64001227

**SUBBAYYAN**

M.Sc., DIISc., M.S., Ph.D.

FNAE, FIE, MISTE, MCSI, FIETE, FSSI

*Address (Res)*

1/27, Damu Nagar,  
Coimbatore-641 045  
Tele: 0422-2315121

Email: [rsubbayan@rediffmail.com](mailto:rsubbayan@rediffmail.com)

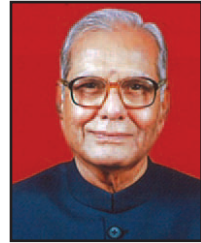
Former Vice-Chancellor, Bharathiar University, Coimbatore

**Prof. R**

1925

2013

V

**SUBRAHMANYAN**

CEO & MD

B.Sc.(Civil Engg), MBA

FNAE, FICE(UK), FIE

*Address (Off)*

Larsen & Toubro Ltd.,  
L&T House, NM Marg,  
Ballard Estate,  
Mumbai-400001

Tele:022-66965455

Fax: 022-66965334

Email: [sns@lntec.com](mailto:sns@lntec.com)

Former Deputy Managing Director & President, L&T

**Mr. Sekharipuram Narayanan**

1960

2017

I





**SUBRAMANIAM**

Professor

B.Tech., M.S., Ph.D.

FNAE, FACI, LMICI

*Address (Off)*

Department of Civil

Engineering, Room No.310,

Academic Block A

I.I.T. Hyderabad, Kandi,

Sangareddy, Hyderabad

Telangana 502285

Tele:8008111549

Email: KVS322@gmail.com, KVLS@ce.iith.ac.in

**Prof. Kolluru VL**

1972

*Address (Res)*

702 Agate Building,

MyHome Jewel, Madinaguda,

Telangana, Hyderabad, 50049

Tele: 800811-1549

2021

I

**SUBRAMANIAM**

President

B Tech (Chemical Engg)

FNAE

*Address (Off)*

Reliance Life Sciences,

Dhirubhai Ambani Life

Sciences Centre,

Thane - Belapur Road,

Rabale, Navi Mumbai

MH - 400 701

Tele:022-40678005

Fax: 022-40678199

Email: k.v.subramaniam@ril.com

Formerly Sr. Executive Vice President, Corporate Business Development

**Mr. KV**

1957

*Address (Res)*

1202, Raheja Regency,

Near Sion Telephone Exchange,

Sion (East), Mumbai-400022

Tele: 022-24023653

2011

IV

**SUBRAMANIAM**

Institute Chair Professor

Ph.D.

FNAE, LMIChE, MISTE, MAPS, MAICE

*Address (Off)*

Department of Chemical

Engineering,

Indian Institute of Technology,

Madras, Chennai 600036

Tele:044-22574161

Fax: 044-22570509, 22574152

Email: spush@iitm.ac.in

**Prof. Pushavanam**

1961

*Address (Res)*

B-17 Lake View Road

I.I.T Madras

Chennai-600036

2020

IV



**SUBRAMANIAN**

V.P. Bioinformatics,  
Syngene International Ltd.  
Ph.D.

FNAE, MST, MACS, MASCO

*Address (Off)*

Strand Life Sciences  
Alumni Association Building  
Veterinary College Campus  
Bellary Road, Hebbal  
Bangalore-560024  
Tele:080-23095200

Fax: 080-40787299

Email: kassub@gmail.com

Former Chief Scientific Officer, Strand Life Sciences Pvt. Ltd., Bangalore

**Dr. Kalyanasundaram**

1967

2015

X



*Address (Res)*

C-1001, August Park Apts.,  
No.3, Ist B Cross,  
K.G. Pura Main Road,  
C.V. Raman Nagar,  
Bangalore-560 093  
Tele: 080-29714142

**SUBRAMANIAN**

Consulting Engineer

Ph.D. (Structural Engg.), M.Sc. (Engg.), B.E. (Civil Engg.),  
P.G. Diploma in Management (IGNOU)

FNAE, FASCE, MACI, FIE, FACCE(I), FICI

Email: drnsmani@gmail.com

Former Proprietor and Chief Executive, Computer Design Consultants, Chennai

**Dr. Narayanan**

1951

2020

I



*Address (Res)*

Block 7, Flat 5A, Kences Enclave,  
No.1, Ramakrishna Street, T.Nagar,  
Chennai 600017, India

**SUBRAMANYAM**

BE, ME

FNAE, FIETE, FASI, FIE(I), LMAstr.SI

Fax: 080-30332480  
Email: prabhavamsi1952@gmail.com; pinjalasiva@yahoo.co.in  
Former Director, Aeronautical Development Agency ADA Min of Defense and Program Director (Combat Aircraft)

**Mr. Pinjala Siva**

1950

2011

VII



*Address (Res)*

C102 Maangalya Suryodaya Apts.,  
Munnekolala Marthahalli  
Bengaluru-560037  
Karnataka  
Tele: 8079673156

**SUBUDHI**

Professor

Ph.D.

FNAE, FIET(UK), FIE(I), FIETE, SMIEEE

*Address (Off)*

School of Electrical Sciences,  
Indian Institute of Technology  
Goa, GCE Campus,  
Farmagudi, Ponda-403401,  
Goa (India)

Tele:0832-2490859

Email: bidyadhar@iitgoa.ac.in, bidyadharnitrkl@gmail.com bidya2k@yahoo.com

**Prof. Bidyadhar**

1963

2019

V

*Address (Res)*

B-303, Rajmudra Apartment,  
TISK, Near Civil Court,  
Ponda-403401, Goa

**SUDARSHAN**

Professor

(Institute Chair Professor)

B.Tech, MS, Ph.D.

FNAE, MIEE, MACM, LMCSI

*Address (Off)*

Computer Science and  
Engineering Department,  
Indian Institute of  
Technology Bombay,  
Powai, Mumbai-400076

Tele:022-25767714

Fax: 022-25720290

Email: sudarsha@cse.iitb.ac.in

**Prof. Sundararajaroo**

1965

2013

II

*Address (Res)*

B-193, Ananta Building,  
IIT, Powai,  
Mumbai-400076

Tele: 022-25768714

**SUDHAKAR**

B.Tech., M.Tech., Ph.D.

FNAE, FAeSI, FAIAA, MSSI, MIE

**Prof. Krishnarao**

1948

2012

VII

*Address (Res)*

Kamala Estate, Madakkimala PO,  
(Via) Kalpetta, Wayanad (Dist),  
Kerala 673 122

Email: sudhakar.iitb@gmail.com

Formerly Professor, Department of Aerospace Engineering, Indian Institute of Technology Bombay, Mumbai



**SUDHIR CHANDRA**

Advisor, RITES

B.Tech, M.Tech

FNAE, FIE, FIPWE, FIIBE, FCIT

**Mr. B S**

1943

2005

I

*Address (Res)*

A 502, Sterling Terraces,

100 Feet Ring Road,

Banashankari, 3rd Stage,

Bengaluru-560085

Tele: 080-41172179

Email: [bssudhirchandra@gmail.com](mailto:bssudhirchandra@gmail.com)

Formerly Member, Railway Board and Ex-Officio Secretary to the Govt. of India, Formerly Director (Project &amp; Planning), BMRC, Bangalore

**SUJITH**

Ph.D.

FNAE, MASI, MAIAA

*Address (Off)*Department of Aerospace  
Engineering, Indian Institute  
of Technology Madras,  
Chennai-600 036

Tele: 044-22574012, 22574000

Fax: 044-22574002, 22570545

Email: [sujith@iitm.ac.in](mailto:sujith@iitm.ac.in)**Prof. Raman Pilla  
Indusekharan Nair**

1967

2008

VII

*Address (Res)*

C2-3-1, Bonn Avenue,

IIT Madras,

Chennai-600 036

Tele: 044-22576012

**SUKHATME**

Professor Emeritus

Sc.D.

FNAE, FNA, FASc., FNAsc., MISHMT, MSESI

*Address (Off)*

Mechanical Engineering

Department,

Indian Institute of Technology,

Powai, Mumbai-400 076

Tele: 022-25767518

Email: [sukhatme@iitb.ac.in](mailto:sukhatme@iitb.ac.in)Formerly Chairman, Atomic Energy Regulatory Board, Mumbai; and Formerly Director,  
Indian Institute of Technology, Mumbai  
Counc.-1995-98**Prof. Suhas Pandurang**

1988

1987

III

*Address (Res)*

2A/8C, Anjaneya Cooperative

Housing Society, Orchard Avenue,

Opp. Hiranandani Foundation School,

Powai, Mumbai-400076

Tele: 022-25701052



**SUMANTRAN**

Chairman

Ph.D.

FNAE

*Address (Off)*

Celeris Technologies  
Private Limited,  
Plot No.67, 19th Street,  
Venkateswara Nagar,  
Kottibakkam,  
Chennai-600 041

Email: vsumantran@gmail.com, sumantran.v@gmail.com

Formerly Executive Director, Tata Motors Ltd., Pune and Formerly Executive Vice-Chairman,  
Hinduja Automotive Ltd., Chennai

**Dr. Venkataramani**

1958

*Address (Res)*

Plot No.67, 19th Street,  
Venkateswara Nagar,  
Kottibakkam,  
Chennai-600 041

2005

X

**SUNDAR**

Professor Emeritus

B.E.(Civil), M.Tech (Hydraulics), Ph.D.(IIT Madras),

Hon.Doct.(Univ. of Wuppertal, Germany)

FNAE, MIAHR, MEUCC, MRINA(UK), MCRF(USA), FISH, LMOSEI

*Address (Off)*

Department of Ocean  
Engineering,  
Indian Institute of Technology  
Madras, Chennai-600 036

Tele:044-22574809

Fax: 044-22574809, 22574802

Email: vsundar@iitm.ac.in, vallamsundar@gmail.com, vsundar@alumni.iitm.ac.in

Former Professor, IIT Madras

**Dr. Vallam**

1953

*Address (Res)*

One 74, Satyadev Ave.,  
Tower 2, Apt.801, MRC Nagar,  
Chennai-600 028

Tele: 044-29864429

2019

I

**SUNDARAM**

Chief Scientist, Head

Ph.D.

FNAE

*Address (Off)*

Advanced Composites  
Division, National  
Aerospace Laboratories  
P.B. No. 1779

Bangalore - 560 017

Tele: 91802508-6400

Email: rameshs@nal.res.in, rameshsund@yahoo.co.in

**Dr. Ramesh**

1962

*Address (Res)*

514, 14 main, Bsk 2nd stage,  
India, Karnataka,  
Bangalore, 560070

Tele: 91802671-8913

2021

VII



**SUNDARAM**

BE  
FNAE, MINS

**Mr. Subbiah Meenakshi** 1990  
1932 IX

*Address (Res)*  
503, Vigyanshila  
Cooperative Housing Society,  
Juhu Versova Link Road, 7,  
Bungalows, Andheri (West),  
Mumbai-400 061  
Tele: 022-26340858



Email: smsundaram@ymail.com

Formerly Director, Tata Consultancy Engineers, Mumbai, Former Chairman & Chief Executive, Heavy Water Board Counc.-1995-98

**SUNDARAM**

Advisor  
(Macro & nano Systems, NDRF)  
Ph.D.

FNAE, FIE(I), FAeSI, FISNT

*Address (Off)*

National Design & Research  
Forum, The Institute of  
Engineers (India), No.3,  
Dr. Ambedkar Veedhi,  
Bangalore-560 001

Tele:9901903336

Fax: 080-22352193

Email: vjs307@gmail.com

Formerly Director, Defence Research and Development Laboratory, Hyderabad; Formerly Consultant, ADA, Bangalore Counc.1997-98 and 2010-2012

**Lt. Gen (Retd)** 1995  
**Velacheri Jagadesan**  
1935 VII

*Address (Res)*

“Prithvi”, # 7, Cornwell Road,  
Bangalore - 560 025

Tele: 080-41623449

**SUNDARARAJAN**

Distinguished Scientist  
Ph.D.

FNAE, FASc., FNA, FASM, FIIM

*Address (Off)*

International Advanced  
Research Centre for Powder  
Metallurgy & New Materials  
(ARCI), Hyderabad  
Tele:09490117167

Email: gsundar@arci.res.in

Formerly Director, International Advanced Research Centre for Powder Metallurgy & New Materials (ARCI), Hyderabad; Formerly Professor, Dept. of Metallurgical & Materials Engineering, Indian Institute of Technology Madras, Chennai Counc.2005-2006 and 2007-2009

**Dr. Govindan** 2000  
1953 VIII

*Address (Res)*

Lokeswari Residency, Flat #401,  
H.No.1-4-94, Snehanagar Colony,  
Street No.8, Habsiguda,  
Hyderabad-500007  
Tele: 040-27176029



**SUNDARARAJAN**

Ph.D.

FNAE, MISHMT

*Address (Off)*

Thermodynamics & Combustion  
Engineering Laboratory,  
Department of Mechanical  
Engineering, Indian Institute  
of Technology, Madras,  
Chennai-600036

Tele:044-22578527

Fax: 044-22570509

Email: tsundar@iitm.ac.in

**Prof. Thirumalachari**

1956

*Address (Res)*

B-5, Lake View Road,  
IIT Campus,  
Chennai-600 036

Tele: 044-22579527

2003

III

**SUNDARAVADIVELU**

Institute Chair Professor

BE (Civil), M.Tech (Civil), Ph.D.(Ocean Engg.),

FNAE, MIAHR, MIE(I), MASCE, MIIBE

*Address (Off)*

Department of Ocean  
Engineering, Indian Institute  
of Technology, Madras,  
Chennai-600 036

Tele:044-22574810

Fax: 044-22574800

Email: rsun@iitm.ac.in

**Prof. Ranganathan**

1955

*Address (Res)*

B26 Chera apartment Flat 5 B  
Delhi Avenue IIT Madras  
Chennai 600 036

Tele: 044-22576810

2006

I

**SURAPPA**

Life-Long Dist. Professor,

University of Mysore &amp;

INSA Sr. Scientist

B.Sc., B.E., M.S., Ph.D.

FNAE, FNA

*Address (off)*

National Institute of Advanced  
Studies (NIAS), Indian  
Institute of Science Campus  
Bangalore-560 012

Mob. : 0948100300, 09844186803

Email: mirle@iisc.ac.in, msurappa@hotmail.com

Formerly Vice-Chancellor, Anna University, Formerly Dean Faculty of Engg. IISc.,  
Bangalore; Formerly Director, Indian Institute of Technology Ropar and Formerly Secretary,  
Karnataka State Council for Science and Technology

**Prof. Mirle K**

1951

*Address (Res)*

A 403, Vishnavi Splendour,  
RMV 2<sup>nd</sup> Stage, 80ft Road,  
6<sup>th</sup> Cross,  
Bangalore- 560094

2008

VIII



**SURENDAR**

BE  
FNAE, MINS

**Mr. Chintala**  
1938

1998  
IX

*Address (Res)*  
F-5-3 OAKYARD APTS  
38,Cross, Eastend Main  
Jayanagar 9th BLOCK  
Bengaluru-560069  
Tele: 080-40949646



Email: surendarch@yahoo.com

Formerly Executive Director (Operations), NPCIL, Mumbai

**SURESH**

Professor  
Ph.D  
FNAE, LMIChE, MACS

*Address (Off)*  
Department of Chemical  
Engineering, IIT Bombay,  
Powai, Mumbai - 400 076  
Tele:022-25767240  
Fax: 022-25726895  
Email: aksuresh@iitb.ac.in

Former Deputy Director (Academic and Infrastructural Affairs)

**Prof Akkihebbal  
Krishnamurthy**  
1957

2011  
IV

*Address (Res)*  
A-8, IIT Bombay,  
Powai, Mumbai - 400 076  
  
Tele: 022-25768240

**SURESH**

Chancellor,  
Indian Institute of Space  
Science & Technology (IIST)  
and Honorary Distinguished  
Professor, ISRO  
Ph.D.

FNAE, FNA, FSSI, FAeSI, FASI, FISSE, MIAA(Paris),  
International Member, NAE(USA)

*Address (Off)*  
ISRO Headquarters,  
Antariksh Bhawan,  
New BEL Road,  
Bangalore-560 231  
Tele:080-23417294  
Fax: 080-23415409  
Email: byranasuresh@gmail.com

Formerly Director, Vikram Sarabhai Space Centre, Trivandrum; and Formerly Member,

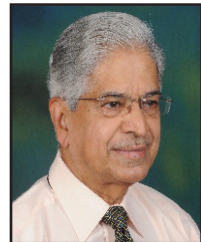
Space Commission and Founder Director, Indian Institute of Space Science & Technology (IIST), Trivandrum

Council.2011-2012; and V.P.2013-14; Pres.2015-2016 and 2017-2018

**Dr. Byrana Nagappa**  
1943

1997  
VII

*Address (Res)*  
A-810, Mayflower,  
Brigade Millennium, JP Nagar,  
7th Phase, Bangalore 560078  
  
Tele: 080-26962611





**SURESH**

Associate Director,  
LPSC/ISRO & Project  
Director, SPSP,  
B.Tech.(Mechanical), M.Tech.(Propulsion)  
FNAE, MAeSI, MICC, MISHMT, MISSE, MSAME  
*Address (Off)*  
LPSC/ISRO,  
Valiamala-695547

Tele: 0471-2561274

Fax: 0471-2567924

Email: ms\_suresh@lpsc.gov.in, ad-lpsc@isro.gov.in

Former Deputy Director, CPES

**Mr. Madhavan Sarada**

1964

*Address (Res)*

Surya, PRA 138A,  
TC 17/634 (2), Poojappura,  
Thiruvananthapuram-695012

Tele: 0471-2343050

2020

VII

**SURKOLAY**

Professor (HAG)

Ph.D. B.Tech. (Hons.)

FNAE, SMIEEEE, MACM, MIET(UK), MVLSI

*Address (Off)*

Advanced Computing and  
Microelectronics Unit  
Indian Statistical Institute  
203, B T. Road  
Kolkata 700108

Tele: 91332575-3005

Email: ssur\_kolay@hotmail.com, ssk@isical.ac.in, surkolay@gmail.com, ssk@alum.mit.edu

Former Professor, ISI, Kolkata

**Prof. Susmita**

1959

*Address (Res)*

137/8, BELIAGHATA ROAD,  
TANGRA, India,  
West Bengal, Kolkata, 700015

Tele: 91332251-2292

2021

II

**SURYANARAYAN**

Ph.D.

FNAE, FAeSI, FIE

**Prof. Srinivasan**

1946

*Address (Res)*

C1-402, Ramky One North  
Avalahalli, Dodballapur Road  
Near BMSIT, Yelahanka  
Bengaluru 560064  
Tele: 9880046881

1999

VII



Email: s.suryanarayan@gmail.com

Former Professor of Aerospace Engineering, Dean (Research and Development), Indian Institute of Technology Bombay

**SURYAWANSHI**

Professor, HAG  
B.E., M.E.(IISc), Ph.D.  
FNAE, FIEEE, FIETE, FIE

*Address (Off)*

Department of Electrical  
Engineering,  
Visvesvaraya National  
Institute of Technology,  
Nagpur - 440010  
Tele:0712-2801121

Fax: 0712-2223969, 2223230

Email: hms\_1963@rediffmail.com, hmsuryawanshi@eee.vnit.ac.in

**Prof. Hiralal Murlidhar**

1963

2012

V

*Address (Res)*

Flat No.46,  
Shiv-Shail Apartment,  
SA Road, Laxminagar,  
Nagpur - 440022

**SUVARNA RAJU**

M.Phil (Def. Strategic Studies), PGDip IPR,  
MBA(Mkt), B.E. (Mech)  
FNAE, MASI

**Mr. Talari**

1958

2016

VII

*Address (Res)*

Site-11, Phase-1  
Cascading Meadows  
Margondanahalli Main Raod,  
TC Palya, KR Puram  
Bangalore-560036  
Tele: 080-29535338, 9632955339



Email: rajunc45@gmail.com

Formerly Chairman & Managing Director, Hindustan Aeronautics Ltd., Bangalore

**SUWAS**

Chairman

Ph.D.(Mat.& Metallurgical Engg)

FNAE, FNASc, LMIIM, LMMRSI, MASMI

*Address (Off)*

Department of Materials  
Engineering,  
Indian Institute of Science,  
Bangalore-560 012

Tele:080-22933245

Fax: 080-23600472

Email: satyamsuwas@iisc.ac.in

**Prof. Satyam**

1969

2019

VIII

*Address (Res)*

C-405, Glen Gate,  
House of Hiranandni,  
Devinagar, Kodigehalli,  
Bangalore-560092  
Tele: 080-23511242



**SWAMEE**

Consulting Engineer  
BE(Civil), ME( Hydr. Eng.), PhD  
FNAE, MIGS, MASET, MISH, MSSI

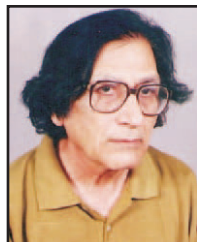
*Address (Off)*

C/o Nimisha Swamee  
Deputy Manager  
(Tendering & Estimation)  
CEC Int'l Corp. Ltd.  
Tower B, 7th Floor,  
Signature Tower, Sector 29,  
Gurgaon 122002 Haryana  
Email: swameefce@yahoo.com

**Prof. Prabhata K**

1940  
Address (Res)  
N 179, South City 1,  
Second Floor,  
Gurgaon 122001

2008  
I



Formerly Professor of Civil Engineering, University of Roorkee (Now IIT Roorkee), Formerly Professor, Department of Civil Engineering, National Institute of Technology, Jalandhar(Punjab) and Former Visiting Faculty, IIT Kanpur; Former Distinguished Professor Emeritus, Department of Civil Engineering, ITM University, Gurgaon

**SWAMINADHAN**

Chairman  
Ph.D., DSc.(h.c.), FAPAS, MISTE, MISCA  
FNAE, FIE

*Address (Off)*

Dr. D Swaminadham  
Research Foundation  
(DSRF), 6th Floor,  
Buddha Bhawan, MG Road,  
Secunderabad - 500 003  
Tele:040-27541551  
Fax: 040-275401552

**Dr. Devarakonda**

1938  
Address (Res)  
House No 8-2-293,  
Flat No - 6, Lotus Colony,  
Benjara Hills, Road No 12,  
Hyderabad - 500 038

1992  
I



Email: swami@ap.nic.in, dsdsrf@gmail.com  
Formerly Member, Planning Commission

Tele: 040-23304946

**SWAMY**

Aerospace Consultant  
Ph.D.  
FNAE, FAESI

*Address (Off)*

Mahindra Aerospace Pvt. Ltd.,  
# 38 IV floor, Maruthi Towers,  
Old Airport Road, Kodihalli,  
Bangalore-560 008  
Tele:080-41481961  
Email: msswamy@hotmail.com

**Dr. Maribasappa Shivakumara**

1939  
Address (Res)  
#35, 2nd Cross, 10th Main,  
Indiranagar, II Stage,  
Bangalore-560038  
Tele: 080-25250378

2001  
VII



Formerly Consultant, Centre for Civil Aircraft Design & Development (C-CADD), Wind Tunnel Centre, National Aerospace Laboratories, Bangalore

**TAMILMANI**

B.Tech, MBA, Ph.D.  
FNAE, FAeSI

**Dr. Kandaswamy**  
1952

2015  
VII

*Address (Res)*  
Dr. Prakasam Complex  
H-18/1. Tamil Naidu Housing  
Unit Colony, Rasipuram,  
Tamil Nadu-636408



Email: ktmani2001@gmail.com

**TANDON**

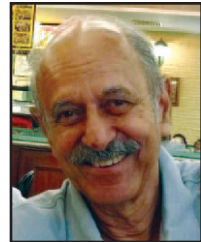
Managing Director  
MS(Civil Engineering)  
FNAE, FIE, FASCE, FIIBE, Hon.FICI, FIAStructE,  
International Professional Engineer (India)

*Address (Off)*  
Tandon Consultants Pvt. Ltd.,  
17, Link Road,  
Jangpura Extension,  
2nd Floor, New Delhi-14  
Tele:011-24317684, 24310509,  
24319288

*Address (Res)*  
17, Link Road,  
Jangpura Extension,  
2nd Floor,  
New Delhi-110014  
Tele: 011-24319288

Fax: 011-24316057  
Email: mahesh.tandon@tcpl.com, tandon@tcpl.com  
Counc.2003-2004

1998  
I

**TANDON**

Emeritus Professor  
Ph.D.  
FNAE, FIE, FASI, FIIFE

*Address (Off)*  
CART, Indian Institute  
of Technology Delhi,  
Hauz Khas,  
New Delhi-110016

Tele:011-26591276  
Fax: 011-26596222  
Email: ntandon@itmmec.iitd.ac.in

**Prof. Naresh**  
1954

2015  
III

*Address (Res)*  
K 32, Hauz Khas,  
New Delhi-110016

Tele: 011-26591955



**TARAFDER**

Chief Scientist  
 B.E., M. Tech, Ph.D.  
 FNAE, FIIM  
*Address (Off)*  
 CSIR-National  
 Metallurgical Laboratory,  
 Jamshedpur-831007  
 (Jharkhand)  
 Tele:06572345122  
 Fax: 0657-2345213  
 Email: star@nmlindia.org

**Dr. Soumitra**

1961  
  
*Address (Res)*  
 Flat 2681, Block Tulip,  
 Vijaya Gardens,  
 Jamshedpur-831 017,  
 (Jharkhand)  
 Tele: 0657-2343102

2013  
 VIII

**TARAPORE**

Ph.D.  
 FNAE  
*Address (Off)*  
 473/15-A, Salisbury Park,  
 Gultekadi, Near Golden  
 Emerald Hotel,  
 Pune-411 037  
 Tele:020-25514442  
 Email: zstarapore@gmail.com  
 Formerly Director, CWPRS, Pune

**Dr. Zal Sohrab**

1933  
  
*Address (Res)*  
  
 Tele: 020-24272239

1988  
 I

**TATA**

Chairman Emeritus  
 BSc.(Struc. Engg.)  
 FNAE, Hony.FIETE, International Member, NAE(USA)  
*Address (Off)*  
 Tata Industries Ltd.,  
 Bombay House, 24,  
 Homi Mody Street,  
 Mumbai-400 001  
 Tele :022-66658282, 66658000  
 Fax: 022-66658001  
 Email: rnt@tata.com, chairman@tata.com

**Mr. Ratan Naval**

1937

1992  
 X



**TAYAL**

Adviser/Scientist 'G'  
Ph.D. ( Chemical Engg), Diploma in Project Management  
FNAE, FIE

*Address (Off)*

Department of Science  
and Technology,  
New Mehrauli Road,  
New Delhi 110016  
Tele:011-26523011

Email: rk.tayal@gmail.com, tayal@nic.in

**Dr. Rajiv Kumar**

1961

2015

X

*Address (Res)*

T - 702, Plumeria Garden Estate,  
Sector Omicron-3,  
Greater Noida - 201310  
Uttar Pradesh

**TEWARI**

Head  
Ph.D.(Chem. Engg)  
FNAE, MINS, MIDA, MAPDA

*Address (Off)*

Department of Chemical  
Engineering, Indian Institute  
of Technology Jodhpur,  
NH 62, Nagaur Road,  
Karwar, Jodhpur

Tele:0291-2801703

**Prof. Pradip Kumar**

1955

2017

IV

*Address (Res)*

C8/03, Kendriya Vihar,  
Sector 11, Kharghar,  
Navi Mumbai-410 210

Tele: 022-27743338

Email: pradiptewari@iitj.ac.in, pktewari1955@gmail.com

Formerly Distinguished Scientist & Associate Director, Chemical Engineering Group (BARC); Formerly Raja Ramanna Fellow and Professor, HBNI, BARC Mumbai

**THAKKAR**

Ph.D.  
FNAE, FIE, Fiset, FIAStruct.E, MIGS, MISWE, MIIBE

**Prof. Shashi Kant**

1941

1995

I

*Address (Res)*

174/2F, Solanipuram,  
Roorkee-247 667  
Uttarakhand  
Tele: 01332-274067

Email: thakkar.shashi@gmail.com, shashi\_thakkar@hotmail.com

Formerly Professor, Railway Chair and Professor of Earthquake Engineering, IIT Roorkee



**THATTE** **Dr. Chandrakant Damodar** 1992  
1935 I

Ph.D.

FNAE, FIE, MIGS, MISEG, MIAH, MISH

*Address (Res)*

C-16, Parnali Cooperative  
Housing Society, Damle Path,  
Off. Law College Road,  
Erandwane, Pune-411 004  
Tele: 020-5410223



Email: cdthatte@yahoo.co.in

Formerly Secretary, Ministry of Water Resources; Secretary-General Honoraire, International Commission on Irrigation & Drainage, New Delhi

**THOMAS** **Dr. Tessy** 2012  
1963 VII

Distinguished Scientist  
& Director-General

B.Tech., M.E.

FNAE, MAstr.SI, MAe.SI, MSAMPE

*Address (Off)*

Aeronautical System,  
Defence Research and  
Development Organisation  
(DRDO),

Bangalore-560 075

Tele:080-22511401

Fax: 080-25283028

Email: tessy\_1963@yahoo.com

Former Project Director, AGNI, Advanced Systems Laboratory, Hyderabad  
Counc.2022-2024

*Address (Res)*

G1, Aero House,  
DRDO Township, Phase-II,  
CV Raman Nagar,  
Bangalore-560 093



**THYAGARAJAN** **Dr. Gopalakrishna** 1995  
1934 IV

President,

Madras Science Foundation

Ph.D.

FNAE, FRSC, Hon.Fellow,IIC.Ch

*Address (Res)*

Flat A 2, Whispering Height,  
132, St. Mary's Road, Alwarpet,  
Chennai-600 018  
Tele: 044-42112852



Fax: 044-24912150

Email: rajangt34@gmail.com

Formerly Scientific Secretary, COSTED/ICSU, Chennai; Formerly Director, CLRI, IICT, NEIST and RRL, Jorhat

**THYAGARAJAN**

Professor of Physics

Ph.D.

FNAE

*Address (Off)*

Department of Physics

School of Engineering

and Applied Sciences

Bennett University

Greater Noida, 201310

(UP)

Tele:0120-7199432

Email: krishna.thyagarajan@bennett.edu.in

Former Professor, Department of Physics, Indian Institute of Technology, Delhi

**Prof. K**

1952

*Address (Res)*

3, C-Street, IIT Campus,

New Delhi-110 016

Tele: 011-26591930

2009

VI

**TIWARI**

Associate Director,

KMG, BARC and Senior

Professor (Engineering Sciences),

HBNI

B.Sc.Engg (Electrical), Ph.D.(Systems &amp; Control)

FNAE, LMINS

*Address (Off)*

Knowledge Management Group, 54, Sreeniketan,

Bhabha Atomic Research

Centre (BARC), Trombay,

Mumbai-400085

Tele:022-25597601

Fax: 022-25594898

Email: aptiwari@barc.gov.in, aptiwari.barc@gmail.com

Formerly Head, Reactor Control System Design Section, Electronics &amp; Instrumentation Group, Bhabha Atomic Research Centre, Mumbai

**Dr. Akhilanand Pati**

1963

*Address (Res)*

54, Sreeniketan,

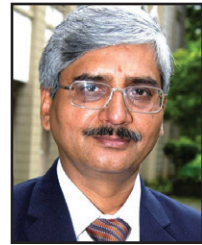
Anushaktinagar,

Mumbai-400094

Tele: 022-25553567

2020

V

**TIWARI**

Director

B.E, M.Tech, Ph.D

FNAE, FNAsc., FIIE, FIIE(USA), FIETI(Hong Kong), MIEEE

*Address (Off)*

Director's Office,

National Institute of

Industrial Engineering

(NITIE), Vihar Lake Road,

Powai, Mumbai-400 087

Tele:022-28035225

Fax: 022-28573251

Email: mkt009@gmail.com, mkt09@hotmail.com

Former Professor, Dean, Planning &amp; Coordination, IIT Kharagpur Counc.2019-2021

**Prof. Manoj Kumar**

1962

*Address (Res)*

Director House, NITIE,

Vihar Lake Road, Powai,

Mumbai-400 087 (Maharashtra)

2013

X





**TONGIA**

Sr. Fellow, CSEP  
B.Sc., Ph.D.

FNAE, FIEEE, FACM Sigma Xi  
Address (Off)  
Brookings India 6,  
Rizal Marg, Chanakyapuri,  
New Delhi 110021

Tele: 011-24157600

Email: dr.tongia@gmail.com , rtongia@csep.org , tongia.cmu@gmail.com

**Dr. Rahul**

1974

XiTau Beta Pi

Address (Res)  
T6 Flat 32, Pebble Bay Apts.,  
1st Main Road,  
RMV 2nd Stage,  
Bengaluru, 560094  
Karnataka

Tele: 080-4122-8872

2021

V

**TRIPATHI**

Professor

Ph.D.

FNAE, MAGU, MIAASTA

Address (Off)  
Room No.314,  
Faculty Building,  
Department of Civil  
Engineering, Indian Institute  
of Technology Kanpur,  
Kanpur-208 016, U.P.

Tele:0512-2597845

Fax: 0512-2597395

Email: snt@iitk.ac.in

**Prof. Sachchida Nand**

1971

Address (Res)

House No.450, Type IV,  
IIT Kanpur,  
Kanpur-208 016, U.P.

Tele: 0512-2598806

2015

I

**TRIPATHY**

Director

(TPSODL, TPNODL)

Member State Advisory  
Committee (OERC)

B.E.(Hons.), M.E.

FNAE, FIE, SMIEEE, LMISTE, LMSESI

Address (Off)

Chair, Power Engg. Society,  
IEEE Bhubaneswar subsection,  
Silicon Institute of Technology,  
Patiahills, Patia,  
Bhubaneswar-751 024  
(Orissa)

Tele:9938696023

Email: tripathy.1948@gmail.com

Former Chief Transmission and Distribution BHEL and former DG CPRI

**Mr. Ashok Kumar**

1948

Address (Res)

HIG 213,  
Kanan Vihar Phase-I,  
Bhubaneswar-751 031  
(Orissa)

Tele: 0674-2742649

2005

V



**TYAGI**

Independent Researcher  
and Consultant Land,  
Water & Environment  
M.Tech, Ph.D.  
FNAE, FNAAS, FISAE, FISCAR

**Dr. Narendra Kumar**

1947

2006

I

*Address (Res)*

A5/101, Olive County, Sector 5,  
GH-09, Vasundhara,  
Ghaziabad-201 012  
Tele: 0120-4350104, 9818911253



Email: nktyagi1947@gmail.com

Formerly Director, Central Soil Salinity Research Institute (CSSRI),  
Karnal and Former Member, Agricultural Scientists Recruitment Board, New Delhi

**TYAGI**

Consultant in  
Environmental Management  
ME (Public Health) LLB (Academic)  
FNAE, FIE, FIPHE, MICA

**Mr. Paritosh Chandra**

1932

1987

X

*Address (Res)*

Flat No.0984,  
ATS Village,  
Sector 93-A,  
Noida 201304 (UP)  
Tele: 0120-4253616, 9810823131



Email: paritya@yahoo.com

Formerly Chairman, Central Pollution Control Board, New Delhi  
Counc.-1991-93

**UMANAND**

Professor  
Ph.D.(Electronics Design)  
FNAE

**Prof. Loganathan**

1964

2020

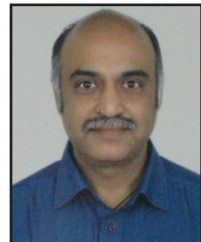
V

*Address (Off)*

Department of Electronic  
Systems Engineering,  
Indian Institute of Science,  
Bangalore-560012  
Tele:080-22933088  
Email: lums@iisc.ac.in

*Address (Res)*

DQ-13, New Housing Colony,  
Indian Institute of Science quarters,  
IISc, Bangalore-560012



**UNNIKRISHNAN**

CEO

B.E.(Mech)AMP ( Harvard Business School)

FNAE

*Address (Off)*

IITB-Monash Research

Academy, IIT Bombay,

Mumbai- 400 076,

Maharashtra

Tele:9823152277

Email: m.krishnan2916@gmail.com, unnikrishnan.ms@iitbmonash.org

Managing Director &amp; CEO

**Mr. Mangalath****Sukumara Panciker**

1960

*Address (Res)*

3002, Glendale,

Hiranandani Gardens,

Next to D-Mart, Powai,

Mumbai-400 076, Maharashtra

2019

IX

**UPADHYA**

Distinguished Professor

B.Tech, M.E., Ph.D.

FNAE, FAeSI, FISSS, FISAMPE, MTAAI, MPLMSS

*Address (Off)*

Aeronautical Development

Agency, (Ministry of

Defence, Govt of India)

PB No. 1718,

Vimanapura Post,

Bangalore-560 017

Tele: 080-25087170, 080-25234230

Fax: 080 25232418

Email: ar.upadhyaya@gmail.com

Formerly Director, National Aerospace Laboratory, Bangalore; Formerly CSIR Technical and Business Consultant, National Aerospace Laboratory, Bangalore

**Dr. Alevoor Raghupathy**

1949

*Address (Res)*

Apt No. C-0923.

Brigade Meadows,

Udayapura Post,

Kanakapura Road,

Bangalore 560082

2010

VII

**UPADHYAY**

Ex-Director

and Emeritus Professor

Ph.D

FNAE, FNASc, FIE, FBRS, FIAPSc, FAFES, MISHMT, MISTE

*Address (Off)*

Department of Chemical

Engineering &amp; Technology,

IIT (BHU) Varanasi

Varanasi-221005 (UP)

Tele:0542-2368092,

6702029, 6702024

Fax: 0542-2368092

Email: snupadhyay.che@itbhu.ac.in, upadhyaysnu@rediffmail.com,

snupadhyay550@gmail.com

**Prof. Siddh Nath**

1946

*Address (Res)*

B-33/14-13,

Gandhi Nagar Colony, Naria,

Varanasi-221 005 (UP)

Tele: 0542-2317179

2009

IV



**VALIATHAN**

National Research Professor

Ch.M., FRCS (Eng), FRCS(Canada), FRCP (Lond), D.Sc.(h.c.)  
FNAE, FNA, FASc., FNASc., FAMS*Address (Off)*Life Science Centre Building,  
Dr. TMA Pai Planatorium  
Complex, Manipal University,  
Manipal-576104

Tele:0820-2922342

Fax: 0820-2571919

Email: msvaliathan@gmail.com

Formerly Director, Sree Chitra Tirunal Institute for Medical Sciences & Technology,  
Trivandrum; Formerly VC, Manipal Academy of Higher Education  
Counc.-1999-2000**Dr. Martanda Varma  
Sankaran**

1934

1987

X

*Address (Res)*"Ashima Kutir", 11th Cross,  
ARBI Road, Dasharath Nagar,  
Manipal-576104

Tele: 0820-2570491

**VARADARAJAN**

B.E.(Hons), M.E.

FNAE, FIETE

**Mr. Sengottaiyan**

1949

2012

VI

*Address (Res)*680, Vinayaka Nagar,  
Konena Agrahara,  
Vimana Pura (P.O),  
Bengaluru-560 017  
Tele: 9448324568

Email: varad1950@gmail.com

Former Director, Electronics & Radar Development Establishment, DRDO, Bangalore;  
Former Advisor, Bharat Electronics Ltd.**VARADARAJAN**

Platinum Jubilee Professor

Ph.D., D.Sc.(h.c.), D.Litt.(h.c.),

FNAE, FNA, FASc., FRSC., Hon.Fellow IICHe, FNAAS

*Address (Off)*Indian National Science  
Academy (INSA),  
Bahadur Shah Zafar Marg,  
New Delhi-110 002

Tele:011-23230828, 23221931

Fax: 011-2323109

Email: esoffice@insa.nic.in, varadr@gmail.com,

F.F-1987; Coun.-1987-89 and 1991-93; F.S.-1989-91-; Pres.-1992-95

**Dr. Srinivasan**

1928

1987

IV

*Address (Res)*4A, Girdhar Apartments,  
28, Ferozshah Road,  
New Delhi-110 001

Tele: 011-23712512, 23713137



**VARANGAONKAR**  
 Chief Operating Officer  
 B.E.  
 FNAE, FIE, FIS, FICA, FIIBE

**Mr. Ramesh D**  
 1943

2005  
 I

*Address (Res)*  
 Asawari F-606, Nanded City,  
 Sinhagad Road,  
 Pune - 411041

Email: rvarangaonkar@rediffmail.com



**VARMA**  
 Senior Principal Researcher,  
 Microsoft Research India  
 D.Phil (Univ. of Oxford)  
 FNAE

**Dr. Manik**  
 1977

2019  
 II

*Address (Res)*  
 Flat 10, Type V,  
 South Moti Bagh,  
 New Delhi-110021  
 Tele: 011-24117750

Email: manik@microsoft.com



**VASI**  
 Ph.D.  
 FNAE, FIETE, FIEEE  
*Address (Off)*  
 Department of Electrical  
 Engineering, Indian Institute  
 of Technology, Powai  
 Mumbai-400 076  
 Tele:022-25767401  
 Fax: 022-25723480  
 Email: vasi@ee.iitb.ac.in

**Prof. Juzer M**  
 1947

1998  
 VI

*Address (Res)*  
 304, Odyssey II,  
 Hiranandani Gardens,  
 Powai, Mumbai-400 076



**VASUDEVA**  
 B.E.  
 FNAE, MAIMA

**Mr. Sudhir**  
 1954

2013  
 IV

*Address (Res)*  
 1810-11, Samarth Aangan 1B,  
 Oshiwara, Andheri West,  
 Mumbai 400053

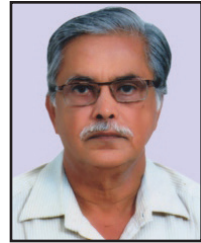
Email: su.vasu@gmail.com, su.vasu54@yahoo.co.in  
 Former CMD, ONGC New Delhi



**VASUDEVA RAO**  
 Vice-Chancellor  
 B.Sc., Ph.D.  
 FNAE, FNASc, LMIANCAS, MSACSE  
*Address (Off)*  
 Homi Bhabha National  
 Institute, 2nd Floor,  
 Training School Complex,  
 Anushaktinagar,  
 Mumbai-400 094  
 Tele:022-25503385  
 Email: vasudeva@hbni.ac.in , vc.hbni@gmail.com  
 Former Director, Indira Gandhi Centre for Atomic Research, Kalpakkam

**Prof. Polur Rangarao**  
 1953

2018  
 IX



**VAZE**  
 Retired as Group Director  
 B Tech  
 FNAE, MINS  
 Email: kkvaze@gmail.com, kkvaze@rediffmail.com  
 Former Director of Reactor Design and Development Group

**Mr. Keshav Krishna**  
 1950

2011  
 IX

*Address (Res)*  
 12, Pratik Regency,  
 Sneh Paradise, Kothrud,  
 Pune-411 038  
 Tele: 09869044284



**VEERARAGHAVAN**  
 B.E, M.Tech  
 FNAE, FASI, FIETE, MASI, MINSARM  
 Email: psvvssc@gmail.com  
 Formerly Director, Vikram Sarabhai Space Centre, Trivandrum; Former Vikram Sarabhai Distinguished Professor, Vikram Sarabhai Space Centre, Trivandrum

**Mr. Parivakkam  
 Subramaniam**  
 1948

2013  
 VII

*Address (Res)*  
 TC-1/165 (A-119),  
 'VINAYAK', Kankanagar,  
 Kowdiar P.O.,  
 Trivandrum-695003  
 Tele: 0471-2318471



**VELUSAMY**

B.E. (Honours), M.Tech, Ph.D.  
FNAE, MISHMT, MINS

**Dr. Karuppanna**  
1959

2008  
III

*Address (Res)*  
No. 3, Thirumoorthy Layout,  
Thadagam Road, R. S. Puram,  
Coimbatore – 641002,  
Tamilnadu  
Tele : 9445482109 & 7810067345



Email: kvelu41160@gmail.com

Former Outstanding Scientist & Associate Director, Nuclear Systems Analysis Group, Indira Gandhi Centre for Atomic Research, Kalpakkam; Former Senior Professor, Homi Bhabha National Institute, Mumbai

**VENKATA MOHAN**

Senior Principal Scientist &  
DBT-Tata Innovation Fellow;  
Professor, Academy of Scientific  
& Innovative Research (AcSIR)

B.Tech.(Civil Engg.), M.Tech.(Env. Engg), Ph.D. (Env. Engg)  
FNAE, FAvH, FAPAS, FTAS, FIE, FBRSI, FIFBiop, FISEES, FABAP

*Address (Off)*  
Bioengineering and  
Environmental Sciences Lab,  
Department of Energy and  
Environmental Engineering,  
CSIR-Indian Institute of  
Chemical Technology,  
Tarnaka, Hyderabad-500 007

Tele:040-27191765

**Dr. Srinivasulu Reddy**  
1970

2015  
X

*Address (Res)*  
201, Ameya Towers,  
Street No. 12, Tarnaka,  
Hyderabad-500017

Tele: 9849306934

Email: vmohan\_s@yahoo.com, svmohan@iict.res.in

**VENKATAKRISHNAN**

Chief Scientist & Head,  
B.E., M.Tech., Ph.D.  
FNAE, FRAeS, AF-AIAA

*Address (Off)*  
Experimental Aerodynamics  
Division, National Aerospace  
Laboratories, PB No.1779,  
Airport Road,  
Bangalore-560017

Tele:080-25051566, 25051570

Fax: 080-25051677

Email: venkat@nal.res.in, vencat7@hotmail.com

**Dr. Lakshmi**  
1967

2019  
VII

*Address (Res)*  
A-101, Mantri Elite,  
Bannerghatta Road,  
JP Nagar, 4th Phase,  
Bangalore-560076

Tele: 080-49556399



**VENKATARAMAN**  
 Professor of Chemical  
 Engineering & Convener,  
 Interdisciplinary Programme  
 in Climate Studies  
 B.Tech, M.S., Ph.D.  
 FNAE, MIASTA, MICh.E, MAGU  
*Address (Off)*  
 Department of Chemical  
 Engineering, Indian Institute  
 of Technology Bombay,  
 Powai, Mumbai-400 076  
 Tele:022-25767224  
 Fax: 022-25726895  
 Email: chandra@iitb.ac.in

**Prof. Chandra**  
 1963  
 2016  
 IX  
*Address (Res)*  
 B-195, 3rd Floor, Ananta,  
 Indian Institute of Technology  
 Bombay, Powai,  
 Mumbai-400 076  
 Tele: 022-25725052



**VENKATARAMAN**  
 Ph.D.  
 FNAE, FICh.E  
**Dr. Rajamadam Swaminathan**  
 1939  
 1998  
 IV  
*Address (Res)*  
 D-3, Aashiana Flats,  
 21, Venus Colony,  
 2nd Cross Street, Alwarpet,  
 Chennai-600018  
 Tele: 044-24330686



Email: rsvmeena@gmail.com  
 Formerly Chairman & Managing Director, Engineers India Limited, New Delhi

**VENKATARAMANAN**  
 Member of the Board  
 & Senior Vice-President  
 (Operations)  
 B.Tech  
 FNAE, MCII, MBCCI, MICh.E, MPMA  
*Address (Off)*  
 Larsen & Toubro Ltd.,  
 L&T House, Ballard Estate,  
 Mumbai-400 001  
 Tele:022-22610275  
 Fax: 022-28581462  
 Email: kv@larsentoubro.com

**Mr. Krishnamurthi**  
 1944  
 2000  
 IV  
*Address (Res)*  
 A-401, Varsha,  
 Janki Kutir, Juhu,  
 Mumbai-400 049  
 Tele: 022-26176128, 26172745





**VENKATARAMANI**

Chairman

&amp; Managing Director

Bachelor's Degree (Mech Engg),

Master's Degree (Mech Engg), PG Dip (Production Technology)

FNAE, FIME(UK), FIAE, SAE-India

*Address (Off)*

India Pistons Ltd.,

Simpson Premises,

861/62, Anna Salai,

Chennai-600 002

Tele:044-28551151

Fax: 044-28551153

Email: ramani@indiapistons.com

**Mr. Narayanaswami**

1939

2017

III

*Address (Res)*

12, Boat Club Road,

Chennai-600 028

**VENKATESAN**

Visiting Professor

Ph.D.

FNAE, FAIAA, MAHS

*Address (Off)*

Department of Mechanical

Engineering,

NH-65 Nagaur Road

IIT-Jodhpur,

Rajasthan -342 037

Tele:0291-280 1513 / 094151 32356

Email: cven@iitj.ac.in , cven@iitk.ac.in

Formerly HAL Chair Professor, IIT Kanpur, Former Head, Department of Aerospace Engineering, IIT Kanpur, Former Dean, Students Affairs, IIT Kanpur

**Prof. Comandur**

1950

2004

VII

*Address (Res)*

Apt. No. 3133

IIT Jodhpur

Rajasthan 342 037

**VENKATESH**

Professor of Practice

Ph.D.(Com.Sci.)

FNAE, FIETE, MIEEE

*Address (Off)*

Centre for Technology and

Policy, Department of HSS,

Indian Institute of Technology

Madras, Chennai - 600036

Tele:044-22574476

Email: gvonthenet@gmail.com

Former Executive Director, Chief Technical Officer, Sasken Communication Technologies Ltd., Chennai

**Dr. Gangadharan**

1961

2006

VI

*Address (Res)*

A4-502, Purva Windermere,

Bhavani Amman Koil Street,

Pallikaranai, Chennai - 600100



**VENKATESH**

Senior Vice President,  
Advanced Technologies  
M.Tech

FNAE, SMIEEE

*Address (Off)*

Redpine Signals, Inc.,  
9th Floor, Maximus 2B,  
Mindspace IT Park,  
Madhapur,

Hyderabad – 500081

Tele:040-39351000

Email: n.venkatesh.nv@gmail.com

**Mr. Narasimhan**

1963

*Address (Res)*

402, Jyothi Giri Mansion,  
10-2-289/45, Shantinagar,  
Hyderabad - 500028

Tele: 040-23371236

2015

VI

**VENKATESH**

Ph.D.

FNAE, FNA, FNASc.

**Prof. Yedatore****Venkatakrishnaiya**

1992

*Address (Res)*

521, 5th Cross,  
8th 'A' Main, Tatanagar,  
Bangalore 560092

Tele: 080-23412521

1992

II



Email: yv.venkatesh@gmail.com,

Formerly: Dean, Faculty of Engineering; Chairman, Division of Electrical Sciences; and Chairman, Department of Electrical Engineering, Indian Institute of Science; Formerly Visiting Professor, Department of Electrical and Computer Engineering, National University of Singapore, Singapore.

**VENKATESWARA RAO**

Ph.D.

FNAE, FASc, FIE, FAeSI, MISAMPE, MISTAM

**Prof. Gundabathula**

1944

*Address (Res)*

Apartment 502,  
Reliance Mariam Villa,  
St. No.6, West Marredpally,  
Secunderabad-500 026 (A.P.)

Tele: 9391368231

2005

VII



Email: hydrao1944@yahoo.co.in

Former Research Professor, Vardahman College of Engineering, Shamshabad, Hyderabad

**VENUGOPAL**

Director

B.E., M.S., Ph.D., D.Sc.

FNAE, FIIM, FASM, FASc.

*Address (Off)*National Institute of  
Technology Nagaland,  
Chumukidema

Dimapur - 797 103

Nagaland

Tele: 03682 - 241 801

Email: [director@nitnagaland.ac.in](mailto:director@nitnagaland.ac.in)Formerly Outstanding Scientist and Director, Metallurgy and Materials Group,  
Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu**Dr. Srinivasan**

1955

*Address (Res)*Director's Bungalow,  
National Institute of Technology  
Nagaland, Chumukidema

Dimapur - 797 103

Nagaland

Tele: 03682 - 241 819

2006

VIII

**VENUGOPALAN**

Director

B.Tech, MS

FNAE, MASI, MCI, MSAQR, MHEMSI

*Address (Off)*Defence Research &  
Development Laboratory,  
Kanchanbagh,

Hyderabad-500 058

Tele: 040-24340511

Fax: 040-24340109

Email: [venugopalan@drdl.drdo.in](mailto:venugopalan@drdl.drdo.in), [venuputh@hotmail.com](mailto:venuputh@hotmail.com)**Mr. P**

1948

*Address (Res)*F-8, Director's Quarters,  
Lab Quarters, Kanchanbagh,  
Hyderabad-500058

Tele: 040-24345668

2013

VII

**VENUGOPALAN**

Ph.D.

FNAE, LMIIM, LMIIME

**Dr. Thirumalachari**

1952

*Address (Res)*21 (38), 5th cross street,  
Rajalakshmi Nagar Extension,  
Velachery, Chennai – 600042  
Tele: 9234554671, 9831054671

2014

VIII

Email: [Venugopalan\\_thirumalachari@yahoo.co.in](mailto:Venugopalan_thirumalachari@yahoo.co.in)Former Chief Technology Officer (New Projects), Tata Steel Ltd., Jamshedpur, Jharkhand;  
Technical Adviser to MD, Tata Steel

**VERMA**

Advisor

B.Tech, MS(London Univ)  
FNAE, MIINA, LMSAE*Address (Off)*Industrial Consultancy  
and Sponsored Research,  
IIT Madras,  
Chennai-600 036

Tele:044-22574925

Fax: 044-22570545

Email: caar@wmail.iitm.ac.in , caar@iitm.ac.in, rakeshbverma45@gmail.com

Formerly Director, Submarine Design, NHQ and Formerly Executive Vice-President  
(Research & Development), Tractors and Farm Equipment Ltd. (TAFE), Chennai**Cmdr (Retd)****Rakesh Bahadur**

1945

2006

X

*Address (Res)*Flat No.1, Sangrila Apartments,  
Urur Olcot Kuppam Road,  
5th Avenue, Besant Nagar,  
Chennai-600 090

Tele: 044-24462977

**VERMA**

Secretary

M.S., Ph.D.

FNAE, FNA, FASc, FNASc.

*Address (Off)*Science and Engineering  
Research Board,  
3rd & 4th Floor, Block II,  
Technology Bhawan,  
New Mehrauli Road,  
New Delhi - 110 016

Tele:011-26511173

Email: sverma@iitk.ac.in, secretary@serb.gov.in

Former Professor, IIT Kanpur

**Prof. Sandeep**

1966

2021

X

*Address (Res)*House No 654,  
IIT Kanpur,  
Kanpur 208016 (UP)

Tele: 0512-6797643

**VIDYASAGAR**

National Science Chair

and Distinguished Professor

Ph.D.(Elect.Engg), Univ. of Wisconsin

FNAE, FRS, FTWAS, FASc., FNA, FIEEE

*Address (Off)*Department of Electrical  
Engineering, Indian Institute  
of Technology Hyderabad,  
Kandi, Telangana-502285

Email: m.vidyasagar@iith.ac.in

Formerly Director, CAIR, DRDO, Bangalore; Former Executive Vice-President, Tata  
Consultancy Services, Hyderabad**Dr. Mathukumalli**

1947

1992

II

*Address (Res)*8-2-686/55D, Road No.12,  
Banjara Hills,  
Hyderabad-500034

Tele: 040-35852676, 9848050451



**VIJAYRAGHAVAN**                      **Prof. K**                      2018  
Principal Scientific Adviser              1954                      X  
to Govt. of India  
Ph.D.  
FNAE  
*Address (Off)*  
Vigyan Bhavan Annexe  
Maulana Azad Road  
New Delhi - 110011  
Tele: 011-24695482, 23022112  
Fax: 011-24695483  
Email: vijayraghavan@gov.in



**VIN**    **Dr. Harrick Mayank**                      2020  
TCS Fellow                                      1966                      II  
& Chief Services  
Innovation Officer  
B.Tech.(IIT Bombay), Ph.D.(University of California, San Diego)  
FNAE  
*Address (Off)*                                      *Address (Res)*  
Tata Research Development              C29 Nyati Serenity Enclave,  
& Design Center,                              Nyati County, NIBM Road Annexe,  
Tata Consultancy Services,              Undri, Pune 411060, Maharashtra  
54-B Hadapsar Industrial Estate,  
Pune 411013, Maharashtra  
Tele:020-66086269  
Email: harrick.vin@tcs.com  
Former Founder and Global Head, Digitate (a TCS Venture)



**VINOY**    **Prof. Kalarickaparambil**                      2011  
**Joseph**    1969                      VI  
Professor  
B Tech, M Tech, Ph.D,  
FNAE, SMIEEE  
*Address (Off)*                                      *Address (Res)*  
Department of ECE,                              E-31, New Hosing Colony,  
Indian Institute of Science,              IISc Campus,  
Bangalore - 560012                              Bangalore 560012  
Tele:080-22932853                              Tele: 080-23606159  
Fax: 080-23600563  
Email: kjvinoy@iisc.ac.in; kjvinoy@ieee.org



**VISVESVARAYA**

**Dr. Hosagrahar  
Chandrasekharaiya**  
1928

1987

X

Ph.D., D.Sc.(h c)  
FNAE, FIE (Hony. Life Fellow)

*Address (Res)*  
"Chandrika", at 15th Cross,  
63-64, East Park Road,  
Malleswaram,  
Bangalore-560003  
Tele: 080-23345988



Email: hcv1008@gmail.com  
Formerly Vice-Chancellor, University of Roorkee

**VISWANADHAM**

**Prof. Nukala**  
1943

1988

II

INSA Honorary Scientist  
Ph.D.

FNAE, FNA, FASc., FTWAS, FIEEE

*Address (Off)*  
Department of Computer  
Science and Automation,  
Indian Institute of Science,  
Bangalore-560 012

*Address (Res)*  
529, 2nd Main Road,  
RMV Extension Stage II,  
III Block, Off New BEL Road,  
Bangalore-560 094  
Tele: 080-22932693



Fax: 080-23602111

Email: n.viswanadham@gmail.com

Formerly Professor of Mechanical Engineering and Deputy Executive Director, The Logistics Institute Asia Pacific, National University of Singapore, Singapore; Former Executive Director, Center for Global Logistics and Manufacturing Strategies, Indian School of Business, Hyderabad; INAE Distinguished Professor

**VRAT**

**Prof. Prem**  
1944

2006

III

Pro-Chancellor;  
Professor of Eminence and  
Chief Mentor

B.Tech (Hons), M.Tech, Ph.D. and Post Doctoral

FNAE, FNASc., FWAPS, FIIE, Honorary FISTE, MORSI, MISME

*Address (Off)*  
The Northcap University,  
Sector 23A,  
Gurgaon-122017

*Address (Res)*  
1240, Sector A,  
Pocket A, Vasant Kunj,  
New Delhi-110 070

Tele: 0124-4195279 Tele: 0124-4195279

Fax: 0124-2367488

Email: premvrat@ncuindia.edu, premvrat@gmail.com, profpremvrat.iitd@gmail.com

Former Founder Director, IIT Roorkee; Former VC, UPTU, Lucknow; Former Professor & Director-in-Charge, IIT Delhi; Former Vice-Chancellor and Professor of Eminence, ITM University, Gurgaon  
Counc.2007-2009



**VYAS**

Chairman

B.E.(Mech)

FNAE, LMINS

*Address (Off)*Atomic Energy Commission  
and Secretary,Department of Atomic Energy,  
Anushakti Bhawan, CSM Marg,  
Mumbai-400001

Tele: 022-255005300, 25511910

Fax: 022-22843888

Email: knvyas@dae.gov.in, kn\_vyas05@yahoo.co.in

Former Associate Director, Reactor Projects Division, Bhabha Atomic Research Centre, Trombay, Mumbai; Former Director, Bhabha Atomic Research Centre, Trombay, Mumbai

**Mr. Kamlesh Nilkanth**

1957

2015

IX

**WAGHMARE**

Professor

Ph.D.(Applied Physics)

FNAE, FASc., FNAsc., FNA

*Address (Off)*F112, Theoretical Science Unit,  
Jawaharlal Nehru Centre  
for Advanced Scientific  
Research, Jakkur,  
Bangalore-560064

Tele:080-22082842

Fax: 080-22082766, 22082767

Email: waghmare@jncasr.ac.in

**Prof. Umesh Vasudeo**

1968

2020

VIII

*Address (Res)*43, Maitreya, 4th Cross,  
Sector A, Amruth Nagar,  
Bangalore-560092

Tele: 080-42163351

**WATTAL**

B.E.

FNAE

*Address (Off)*

B-13, Poorna CHS,

Sector 14, Vashi,

Navi Mumbai-400 703

Tele:9869261420

Email: pk.wattal@gmail.com

Formerly Distinguished Scientist &amp; Ex-Director, Nuclear Recycle Group, Bhabha Atomic Research Centre, Mumbai

**Mr. Piaray Kishen**

1951

2010

IX



**YADAV**

Emeritus Professor  
of Eminence, ICT and  
JC Bose National Fellow

B. Chem. Eng., Ph.D. (Tech.), D.Sc. (Hon. Causa)  
FNAE, FTWAS., FNA, FASc, FNAsc., International Member,  
NAE (USA)

*Address (Off)*

Institute of Chemical Technology  
Nathalal Parekh Marg

Matunga, Mumbai-400019

Tele: 022-3361-1001/1111/2222

Fax: 022-3361-1020

Email: gd.yadav@ictmumbai.edu.in; gdyadav@gmail.com

Former Tata Chemicals Darbari Seth Distinguished Professor of Leadership and Innovation;  
Conjoint Professor, University of New Castle, Australia; Adjunct Professor, RMIT University,  
Australia; Adjunct Professor, University of Saskatchewan, Canada

**Prof. Ganapati  
Dadasaheb**

1952

2017

IV

**YADAV**

B.E., M.E.  
FNAE, MINS, MISNT

Email: lwrdyadav@gmail.com \

Formerly Director, ROG & ESG, BARC, Mumbai; Former Raja Ramanna Fellow, Bhabha  
Atomic Research Centre, Mumbai

**Mr. Raja Ram Singh**  
1952

2008

IX

*Address (Res)*

“Madhuraj”, Plot 48,  
Sector-16, Kopar, Khajrane,  
Navi Mumbai-400 709

**YEGNANARAYAN**

Consultant  
BE, ME, MSc., Ph.D.  
FNAE

*Address (Off)*

Centre for Civil Aircraft  
Design & Development  
(C-CADD), National  
Aerospace Laboratories,  
Wind Tunnel Centre Road,  
Belur, CMMACS Campus,  
Bangalore-560 03

Tele: 080-25223219, 25051966

Fax: 080-25227781, 25224292

Email: kynarayan1947@gmail.com, kynarayan@hotmail.com

**Dr. Krishnaswami**  
1947

2006

VII

*Address (Res)*

Meenakshi Apt. #303,  
45, Ranga Rao Road,  
Shankarapuram,  
Bangalore-560 004





**YEGNANARAYANA**

INSA Senior Scientist

Ph.D.

FNAE, FNA, FASc., FIEEE, FIETE

*Address (Off)*International Institute of  
Information Technology,  
Gachibowli,  
Hyderabad-500032**Prof. Bayya**

1944

*Address (Res)*Apt 201, Savitri Nilayam,  
Lane-23, Road-1,  
Ravindranagar Colony,  
Habsiguda, Hyderabad-500007  
Tele: 040-27154526, 9441886526

1995

II



Email: yegna@iiit.ac.in, bayya.yegna@gmail.com

Formerly Professor, Department of Computer Science &amp; Engineering, Indian Institute of Technology Madras, Chennai; Formerly Institute Professor and Microsoft Chair, IIIT, Hyderabad (2006-2015)

Counc.2009-2011

**ZARABI**

Ph.D.

FNAE, FNASc., FIETE

*Address (Off)*C-28, Pamposh Enclave,  
New Delhi-110 048  
Tele:011-46567310,  
Mob: 9810055795**Dr. Manu Ji**

1947

*Address (Res)*C-28, Pamposh Enclave,  
New Delhi-110 048

1999

VI

Tele:011-46567310,  
Mob: 9810055795

Email: mjzarabi@yahoo.co.in

Formerly Chairman-cum-Managing Director, Semiconductor Complex Ltd., SAS Nagar (Punjab); Formerly Executive Director Technology, Samtel Color Limited, Ghaziabad  
Counc.2006; V.P.2007-2009 and 2010-2012



# FOREIGN FELLOWS



**AGRAWAL** **Prof. Rakesh** 2012  
 Winthrop E. Stone 1953 IV  
 Distinguished Professor  
 B.Tech., M.Ch.E, Sc.D.  
 FNAE, FAIChe, MACS, NAE(US), MIEEE, FAAAS,  
 FNAI, MNSCS  
*Address (Off)*  
 School of Chemical  
 Engineering,  
 Purdue University,  
 480 Stadium Mall Drive,  
 West Lafayette,  
 Indiana 47907, USA  
 Tele: +1-765-494-2257  
 Fax: +1-765-494-0805  
 Email: agrawalr@purdue.edu  
 Formerly Air Products Fellow, Air Products & Chemicals, Inc.



**AGRAWAL** **Dr. Rakesh** 2016  
 Founder & President 1954 II  
 B.E., M.S., Ph.D.  
 FNAE, MNAE(US), FACM, FIEEE, IBM Fellow,  
 Microsoft Fellow  
*Address (Off)*  
 Data Insights Laboratories,  
 1290, Quail Creek Circle,  
 San Jose, CA 95120, USA  
 Tele: +1-408-997-7233  
 Email: rakesh@datainsightslabs.com



**ATLURI** **Prof. Satya Nadhaam** 1997  
 UCI Distinguished Professor 1945 VII  
 Sc.D., D.Sc.(h.c.)  
 FNAE, NAE(USA), FAIAA, FASME, FAAM, FUSACM,  
 FAe.SI, Hon.FICF  
*Address (Off)* *Address (Res)*  
 Department of Mechanical & Aerospace Engineering,  
 4200 Engineering Gateway  
 University of California, Irvine  
 Irvine, CA 92612, USA  
 Tele: +1-949-824-9946/9966  
 Fax: +1-949-824-9967  
 Email: satluri@uci.edu  
 8 Perkins Court, Irvine,  
 CA-92612, USA  
 Tele: +1-949-509-1377



**BADOUX**

President

Ph.D., Dr h.c.(multi)

FNAE, FNRS, MSATW, MASCE, MIABSE

*Address (Off)*Swiss Network for  
Innovation (SNI-RSI),  
EPFL, BM 5137,  
CH-1015, Lausanne,  
Switzerland

Tele: +41-78-777-2119

Fax: +41-21-693-7779

Email: jean-claude.badoux@epfl.ch

**Prof. John Claude**

1935

*Address (Res)*Chemin de Beau-Site 12,  
CH-1004, Lausanne,  
Switzerland

Tele: +41-21-646-0516

2004

I

**BALIGA**

Distinguished University

Professor

Ph.D.

FNAE, LFIEEE, MNAE(US)

*Address (Off)*1010, Main Campus Drive,  
NCSU Centennial Campus,  
Raleigh, NC 27695, USA

Tele: +1-919-515-6169

Email: bjaliga@ncsu.edu

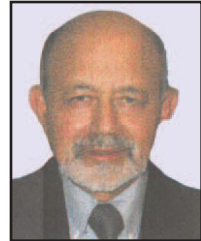
**Prof. Jayant Bantval**

1948

*Address (Res)*2612, Bembridge Drive,  
Raleigh, NC 27613

2016

VI

**BANTHIA**

Professor and Senior

Canada Research Chair

B.E., M.Tech., Ph.D. Structural Engineering

FNAE, FACI, FCSCE, FICI, FCAE, FRSC

*Address (Off)*CEME 24, Civil & Mechanical  
Engineering Building,  
University of Columbia,  
6250, Applied Science Lane,  
Vancouver, BC,  
Canada, V6T 1Z4

Tele: 6048229541

Email: banthia@civil.ubc.ca

**Prof. Nemkumar**

1959

*Address (Res)*4305 W, 15th Ave,  
Vancouver, BC,  
Canada, V6R 3A9

2020

I



**BATTERHAM**

Kernot Professor  
Engineering,  
Melbourne University  
B.Eng., Ph.D.

FNAE, FAAS, FATSE, ASATW, FREng., FCAE, AMusA, FAICD,  
FAIM, FICHEM, FIEAust, FAusIMM

*Address (Res)*

PO Box 839,  
Parkville Vic 3052,  
Australia

Email: r.batterham@unimelb.edu.au

**Prof. Robin John**

1941

2016

IV

**BAŽANT**

McCormick Institute  
Professor and W.P. Murphy  
Professor of Civil and  
Mechanical Engineering  
and of Materials Science

C.E. (Ing.), Ph.D., Docent habilitatis, S.E.

(Registered Structural Engineer)

FNAE, MNAE, MNAS, FAAAS, FMRS, HMASCE, HMASME,  
HMACE, HMRILEM, FMEA, FMAAS, FMAL (Lincei), FMEAJ,  
FMAA, FMSRAE, FMCAE, Laureate Austrian Cross of Honor for Science and Art

*Address (Off)*

CEE Dept., Rm 135, Tech,  
2145 Sheridan Road,  
Evanston, Illinois 60208,  
USA

Tele: + 847-491-4025

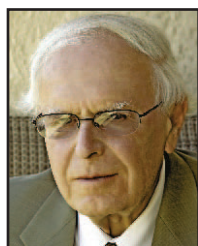
Email: z-bazant@northwestern.edu

**Prof. Zdeněk Pavel**

1937

2017

I

**BHADESHIA**

Professor of Physical  
Metallurgy  
B.Sc.(Hons), Ph.D., C.Eng.  
FNAE, FRS, FREng., FIM

*Address (Off)*

University of Cambridge,  
Materials Science &  
Metallurgy, Pembroke St.,  
Cambridge CB2 3PZ, UK

Tele: +44-1223-334300

Fax: +44-1223-334567

Email: hkdb@cam.ac.uk

**Prof. Harshad Kumar  
Dharamshi Hansraj**

1953

2005

VIII



*Address (Res)*

57, Barrons Way,  
Comberton, CB3 7EQ, UK

Tele: +44-1223-263775

**BHARGAVA**

Distinguished Professor  
 B.Sc., M.Sc., Ph.D.(Exon), D.Sc.(RU)  
 FNAE, FRSC, FRACI, FTSE, FNASI, KIA Laureate  
 (Khwarizmi International Award)

*Address (Off)*

RMIT University,  
 GPO Box 2476,  
 Melbourne, VIC 3001,  
 Australia  
 Tele: +61-3-99252330 / 523365  
 Fax: +61-3-9925-3747

Email: suresh.bhargava@rmit.edu.au

Formerly Dean-Applied Sciences, College of Science, Engineering and Health, RMIT University

**Prof. Suresh Kumar**

1953

2014

IV

**BHARGAVA**

Professor  
 B.A.Sc., M.A.Sc., Ph.D.  
 FNAE, FRSC, FCAE, FEIC, FIEEE

*Address (Off)*

University of British  
 Columbia, 2332,  
 Main Mall, Vancouver, BC.,  
 Canada V6T 1Z4  
 Tele: +1-604-8273959  
 Fax: +1-604-822-5949

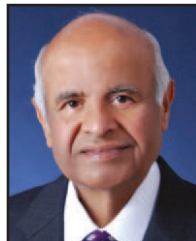
Email: vijayb@ece.ubc.ca

**Dr. Vijay Kishore**

1948

2010

VI

*Address (Res)*

4368 West 12th Avenue,  
 Vancouver, BC,  
 Canada V6R 2R1

Tele: +1-604-221-8844

**BOSE**

Regents Professor  
 Ph.D.  
 FNAE, NAE(US), FIEEE

*Address (Off)*

Distinguished Professor of  
 Electric Power Engineering,  
 School of Electrical  
 Engineering and Computer  
 Science, Washington State  
 University, Pullman,  
 WA 99164-2752

Tele: +509-335-1147

Fax: +509-335-3818

Email: bose@wsu.edu

Formerly Dean, College of Engineering & Architecture, USA

**Prof. Anjan**

1946

2006

V

*Address (Res)*

405, Se Bellevue,  
 Pullman, WA,  
 USA 99163

Tele: +509-332-5114



**CHAKRABORTY**

Robert T. Haslam Professor  
of Chemical Engineering,  
Professor of Physics,  
Professor of Chemistry,  
Massachusetts Institute of  
Technology

B.Tech., Ph.D., Postdoctoral Fellow, University of Minnesota  
FNAE, MNAM(USA), MNAE(USA), MNAS(USA), MAAAS

*Address (Off)*

MIT, Bldg. E25-338,  
77 Massachusetts Avenue,  
Cambridge, MA 02139, USA

Tele: +1. 617.253.3890

Email: arupc@mit.edu

**Prof. Arup Kumar**

1961

2021

IV



*Address (Res)*

192 East Emerson Road,  
Lexington, MA 02420, USA

Tele: +1.781-862.2860

**DEEN**

Distinguished  
University Professor

Ph.D; DEng-hc; Dr-hc; Dr-hc; Dr-hc

FNAE, FTWAS, MCAS, MEASA, FNASI, FCAE, FRSC, FAAHSC,  
FAPS, FAAAS, FECS, FECS, FEIC, FIEEE, Hon. MWIF

*Address (Off)*

ECE Department, ITB 104,  
McMaster University,  
Hamilton Ontario,  
Canada L8S 4K1

Tele: +1-905-525-9140 Ext. 27137

Fax: +1-905-521-2922

Email: jamal@mcmaster.ca

**Prof. Mohamed Jamal**

1955

2008

VI



*Address (Res)*

6 Pimlico Drive, Dundas,  
Ontario Canada L9H 6J5

**DESAI**

Regents' Professor  
(Emeritus)

Ph.D.

FNAE, MASCE, FAAM, FUSACM, FIGS, Hon. MIACM

*Address (Off)*

Dept. of Civil Engineering  
and Engineering Mechanics,  
University of Arizona,  
Tucson, Arizona 85721, USA

Tele: +520 577 9642

Email: csdesai@email.arizona.edu, csdesai@comcast.net

Regents Professor

**Prof. Chandrakant S**

1936

2017

I



*Address (Res)*

5110 N. Calle La Cima,  
Tucson, Arizona, 85718, USA

Tele: +520 577 9642

**DURST** **Prof. Dr. Dr. h.c.** 2005

Prof. Dr. Dr. h.c.

Dipl-Ing, MSc., Ph.D., Dr-Ing Habil  
FNAE, FASc., FRAEng, MBASc.*Address (Off)*FMP Technology GmbH  
Fluid Measurements &  
Projects GmbH,  
Am Weichselgarten 34,  
D-91058 Erlangen, Germany

Tele: +49-9131-932868-0

Fax: +49-9131-932868-1

Email: info@fmp-technology.com

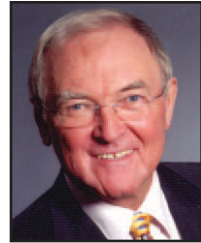
**Franz Josef**

1940

*Address (Res)*Eichenstraße 12, D-91094,  
Langensendelbach, Germany

Tele: +49-9133-5790

IV

**ECKERT** **Prof. Jurgen** 2021

Director,

Erich Schmid Institute of  
Materials Science of the  
Austrian Academy of Sciences  
and Full Professor(Chair Materials Physics),  
Montanuniversität Leoben,  
Dept. of Materials Science,  
Leoben, Austria

Habilitation (venia legendi), Phd, Diploma Ing, Diploma Exam

*Address (Off)*Montanuniversität Leoben,  
Department of Materials  
Science, Jahnstraße 12,  
A-8700 Leoben, Austria,

Tele: (43384) 280-4109

Fax: 43(0)3842804-116

Email: juergen.eckert@oew.ac.at, juergen.eckert@unileoben.ac.at

*Address (Res)*Dreihufeisengasse 10,  
A-8700 Leoben, Austria

Tele: 0043-3842-42358

VIII

**EWINS** **Prof. David John** 2013

Professor of Vibration

Engineering

BSc(Eng); PhD,

DSc(Eng)

FNAE, FRS, FREng, FIMechE, MASME, MSEM

*Address (Off)*Mechanical Engineering  
Department, Imperial College  
London and University of  
Bristol, South Kensington  
Campus, London  
SW7 2AZ, UK

Tele: +441626365949

Email: d.ewins@imperial.ac.uk

1942

*Address (Res)*Woodpeckers,  
Ogwell Mill Road,  
Newton Abbot,  
TQ12 6LS, UK

Tele: +441626365949

III



**FAN**

Distinguished University  
Professor, C. John Easton  
Professor in Engineering and  
Professor of Chemical and  
Biomolecular Engineering,  
B.S., M.S., Ph.D.  
FNAE, MNAE(US), MMAS, MCAE, MATSE, FNAI,  
FAICbE, FAAAS

*Address (Off)*

The Ohio State University,  
151 W, Woodruff Avenue,  
Columbus, OH 43210, USA  
Tele: +614-688-3262  
Fax: +614-292-3769

Email: fan.1@osu.edu, lsfanosu@gmail.com

**Prof. Liang-Shih**

1947

2019

IV

*Address (Res)*

1286, Castleton Road  
North Columbus,  
Ohio 43220, USA  
Tele: +614-451-7807

**FORSSBERG**

Professor of Mineral  
Processing  
Ph.D.

FNAE, NAE(US), MIVA, MANSRF, MCAE

*Address (Off)*

Division of Mineral  
Processing, Lulea  
University of Technology,  
SE 971 87 Lulea, Sweden  
Tele: +46-920-491311  
Fax: +46-920-97364

Email: Eric.Forsberg@ltu.se

**Prof. Knut Sven Eric**

1943

2007

VIII

*Address (Res)*

Solhagavägen 22,  
SE 18463 Åkersberga,  
Sweden

Tele: +46-854-024520

**FUERSTENAU**

BS, MS, Sc.D., Dr.(h.c.)  
FNAE, NAE(US), FTSE

*Address (Off)*

Department of Materials  
Science and Engineering,  
#1760, University of California,  
210, Hearst Memorial Mining  
Building, Berkeley,  
CA 9420-1760, USA

Tele: +510-642-3826

Fax: +510-643-5792

Email: dwfuerst@berkeley.edu

Professor in the Graduate School, University of California, USA

**Prof. Douglas Winston**

1928

2002

VIII

*Address (Res)*

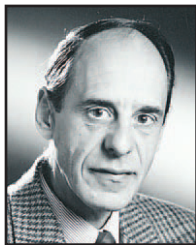
1440 Le Roy Avenue,  
Berkeley, CA 94708, USA

Tele: +510-848-5822, +510-848-2809

**GADGIL** **Prof. J** 2015  
 Professor of Environmental 1950 X  
 Engineering, and Faculty  
 Senior Scientist, Lawrence  
 Berkeley National Laboratory  
 B.Sc., M.Sc., Ph.D.,  
 FNAE, MNAE(USA), US National Inventors Hall of Fame; FAPS  
*Address (Off)* *Address (Res)*  
 Department of Civil and 1765, Manor Circle,  
 Environmental Engineering, El Cerrito, CA 74530,  
 UC Berkeley760 Davis Hall, USA  
 Berkeley, CA 94720,  
 United States  
 Tele: +1-510-486-4651  
 Fax: +1-510-486-5454  
 Email: ajgadgil@berkeley.edu



**GLEITER** **Prof. Dr. Dr. h.c. mult.** 2007  
**Herbert**  
 Institute Professor 1938 VIII  
 Ph.D. 1966 Research Fellow Harvard University 1966-1969 Visiting  
 Scientist MIT 1969, D Sc University of Bochum, Germany 1970-1998  
 Member of the German National Academy of Sciences Leopoldia,  
 Germany,2004 Member of the US National Academy of Engg. 2004  
 Member of the American Academy of Arts and Sciences 2006  
*Address (Off)* *Address (Res)*  
 Karlsruhe Institute of Tech., Freiheitstrasse 1,  
 Institute of Nanotechnology, D-82166, Graefelfing,  
 Hermann-von-Helmholtz- Germany  
 Platz 1, 76344 Eggenstein-  
 Leopoldshafen, Germany  
 Tele: +49-7247 82-6351 Tele: +49-89-8543766  
 Fax: +49-7247-82-6368  
 Email: herbert.gleiter@kit.edu  
 Formerly Vice-President, Research Centre Karlsruhe



**HOLDREN** **Prof. John Paul** 2015  
 Science and Technology 1944 IX  
 Advisor to President Obama,  
 Director, White House Office  
 of Science & Technology Policy  
 Ph.D. (Aeronautics/Astronautics and Plasma Physics)  
 FNAE, MNAE(US), MNASc.(US), MAAAS, MAPS, FMRS�  
*Address (Off)* *Address (Res)*  
 OSTP, 1650 Pennsylvania 1400 Joyce St, #335,  
 Ave NW, Washington, Arlington, VA 22202 USA  
 DC 20502, USA  
 Tele: +1-202-456-6030 Tele: +1-703-553-3320  
 Fax: +1-202-456-6021  
 Email: jholdren@ostp.eop.gov



**JAGADISH**

Distinguished Professor

B.Sc., M.Sc.(Tech), M.Phil, Ph.D.

FNAE, MNAE(US), FAA, FTSE, FTWAS, FNAI, FEurASc, FNA,

FASc, FAPAS, FIEEE, FIET

*Address (Off)*

Research School of Physics

Electronic Materials

Engineering Department

Australian National University

Canberra, ACT 2601

Australia

Tele: +61261250363

Email: c.jagadish@ieee.org

Australian Laureate Fellow

**Prof. Chennupati**

1957

2018

VI

*Address (Res)*

119 Miller Street

O'Connor, ACT 2602,

Australia

Tele: +61262476720

**JAIN**

University Distinguished

Professor

Ph.D.

FNAE, FIEEE, FACM, FPIE, FIAPR, FAAAS

*Address (Off)*

Department of Computer Science,

Michigan State University,

3115, Engineering Building,

428, South Shaw Lane,

East Lansing, Michigan 48824,

USA

Tele: +1-517-349-9153

Email: Jain@msu.edu

**Dr. Anil Kumar**

1948

2016

II

**JONES**

Emeritus Professor

of Engineering

M.Sc.Tech, Ph.D., D.Sc.

FNAE, F.R.Eng., FASE(USA), F I.Mech.E.(Lond.), F R.I.N.A., FWIT

*Address (Off)*

University of Liverpool

Department of Engineering

Harrison-Hughes Building

The Quadrangle, Liverpool

L69 3GH, England

Tele: +44-0151-794-4858, +44-0151-794-4859

Fax: +44-0151-794-4848

Email: norman.jones@liv.ac.uk, njonesijie@gmail.com

A. A. Griffith Professor of Engineering

**Prof. Norman**

1938

2005

III

*Address (Res)*

White House, Column Road,

Lower Caldy, Wirral,

CH 48 1LH, UK



**KAILATH**

Hitachi America Professor  
of Engineering, Emeritus  
Sc.D.

FNAE, FNA, FASc, FNASc, NAE(US), NAS(US), FAAASc,  
FTWAS, Hon.FIETE, FIEEE, For Mem RS,

*Address (Off)*

Packard 276, Stanford,  
CA 94305-9510, USA

Tele: +1-650-494-9401

Fax: +1-650-723-4628

Email: kailath@stanford.edu

**Prof. Thomas**

1935

1997

VI

**KARASZ**

Silvio O. Conte  
Distinguished Professor  
Ph.D., D.Sc.

FNAE, FACS, FAPS, FAAAS, NAE(US)

*Address (Off)*

Department of Polymer  
Science & Engineering,  
Conte Centre for Polymer  
Research, University of  
Massachusetts, Amherst,  
MA 01003-4530, USA

Tele: +1-413-545-4783

Fax: +1-413-253-5295

Email: fekarasz@polysci.umass.edu

**Prof. Frank Erwin**

1933 IV

2000



*Address (Res)*

85, Lessey Street, Amherst,  
Massachusetts 01002, USA

Tele: +1-413-256-6118

**KAREEM**

Robert M. Moran  
Professor of Engineering  
Ph.D.

FNAE, MNAE(USA), MCAE, MEAJ, Dist.MACE

*Address (Off)*

156, Fitzpatrick Hall,  
University of Notre Dame,  
Notre Dame, IN 46536,  
USA

Tele: +574-631-6648

Fax: +574-631-9236, +574-631-9236

Email: kareem@nd.edu, ahsan.kareem.1@nd.edu

**Dr. Ahsan**

1947

2010

I



*Address (Res)*

51875 Quail Valley Dr. Granger,  
IN 46530, USA

Tele: +574-272-6114

**KAZMERSKI**

Research Staff (Emeritus)  
 B.S.E.E., M.S.E.E., Ph.D.  
 FNAE, MNAE(USA), FIEEE,  
*Address (Off)*  
 National Renewable Energy  
 Laboratory (NREL) and  
 Research Professor,  
 University of Colorado Boulder,  
 Renewable and Sustainable  
 Energy Institute (RASEI),  
 SEEC Building; Suite 376,  
 Boulder, CO 80309, USA  
 Tele: +1 303 492 8793  
 Email: solarpvkaz@gmail.com

**Dr. Lawrence Lee**

1945  
 FAPS, FAVS, FASES  
*Address (Res)*  
 12799 W. Atlantic Ave.,  
 Lakewood,  
 CO 80228, USA

2018  
 VI



**KHOSLA**

Chancellor  
 Ph.D.  
 FNAE, FIEEE, NAE(US), FAAAS  
*Address (Off)*  
 Office of the chancellor  
 Univ of California San  
 Diego, 9500 Gilman Dr  
 San Diego CA 92093

**Prof. Pradeep K**

1957  
*Address (Res)*  
 162 Main Entrance  
 Dr. Pittsburg, PA, 15228

2012  
 II



Tele: +1-412-708-4831

Email: pkk@ece.cmu.edu  
 Formerly Dean, College of Engineering, and Dowd University Professor, Carnegie Mellon University

**KIUCHI**

Dr.-Ing.  
 FNAE, FJSMechE, FISIJ, FJSTP  
*Address (Off)*  
 Teikyo-Heisei University,  
 Kiuchi Laboratory, 5-30-1,  
 Towa Shiba Corporation,  
 Shiba, Minato-Ku, Tokyo  
 Tele: +81-3-5730-3135  
 Fax: 081-3-5730-3136  
 Email: mkiuchi@triton.ocn.ne.jp

**Prof. Manabu**

1940 III  
*Address (Res)*  
 2-12-21, Shinjuku, Zushi,  
 Kanagawa, Japan

2005



Tele: +81-46873-7817

**KODUR**

University Distinguished  
Professor and Chairperson  
Director, SAFE-D Center,  
Ph.D., P.Eng.

FNAE, FCAE, FASCE, FACI, FSEI

*Address (Off)*

Department of Civil &  
Environmental Engineering,  
3546, Engineering Building,  
428, S. Shaw Lane,  
Michigan State University,  
East Lansing, MI 48864, USA

Tele: +1-517-355-5107

Fax: +1-517-432-1827

Email: kodur@egr.msu.edu

Former Professor and Chairperson  
University Distinguished Faculty

**Prof. Venkatesh  
Kumar R**

1962

*Address (Res)*

3746 Chippendale Dr. Okemos,  
MI 48864, USA

Tele: +1-517-349-3167

2012

I

**KRONING**

QNET Consulting  
Ph.D.

FNAE, DGZfP, Hon.Fellow ISNT, Hon.Mem.MRSI

*Address (Off)*

QNET Engineering GmbH,  
Altenkesselstrasse 17-B6  
D-66115 Saarbrücken  
Germany

Email: michael@kroening.com

Formerly Executive Director, ISTC, University of Saarland and The Fraunhofer Institute  
Universitat, Germany

**Prof. Dr. Michael**

1944

*Address (Res)*

Tuerkenstrasse 9  
D 66111 Saarbrücken  
Germany

2001

VIII

**KUMAR**

University Distinguished  
Professor, Texas A&M University  
B.Tech, M.S., D.Sc.

FNAE, MNAE(US), FTWAS, FIEEE, FACM, MAMES

*Address (Off)*

Room 333, WEB, Department  
of Electrical & Computer Engg.  
Texas A&M University,  
3128 TAMU, College Station  
TX 77843-3128, USA

Tele: +979-862-337

Fax: +979 845-2630

Email: prk.tamu@gmail.com

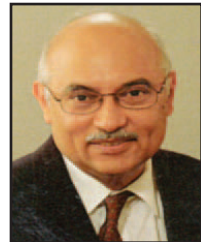
Former Franklin W. Woeltge Professor Emeritus, University of Illinois Urbana-Champaign

**Prof. Panganamala  
Ramana**

1952

2017

VI





**LAURENCIN**

University Professor,  
University of Connecticut  
M.D., Ph.D.  
FNAE, MNAS, FNAM, FRAEng., MCAE, MAAS,  
MANSALB, FNASI  
*Address (Off)*  
50 Far Hills Drive, Avon,  
CT 06001 USA  
Tele: 8608882902  
Fax: 860-679-1553  
Email: laurencinc@gmail.com

**Prof. Cato Thomas**

1959 X  
*Address (Res)*  
Tele: 8608882902

2016



**LEE**

Principal Researcher/  
Campus Representative  
Professor,  
B.S., Ph.D.  
FNAE, MNAEK, MTMS  
*Address (Off)*  
Korea Institute of Geoscience  
& Mineral Resources (KIGAM),  
Mineral Resources Research  
Division, Korea University of  
Science and Technology(UST),  
Resources Recycling,124,  
Gwahak-ro, Yuseong-gu,  
Daejeon, 305-350, Korea  
Tele: +82-42-868-3613  
Fax: +82-42-868-3415  
Email: jcleee@kigam.re.kr

**Prof. (Dr.) Jae-chun**

1957

2013

VIII



**LEE**

Professor  
B.Sc., D.Phil.  
FNAE, FREng, FACS, FCGI, FIMMM  
*Address (Off)*  
Department of Materials,  
Imperial College London,  
London SW7 2AZ, UK  
Tele: +44 0 20 7594 6733  
Email: w.e.lee@imperial.ac.uk

**Dr. William Edward**

1958

2017

VIII



**LIEUWEN**

Regents Professor and  
David S. Lewis, Jr. Chair,  
Department of Aerospace  
Engineering & Department  
of Mechanical Engineering  
and Executive Director,  
Strategic Energy Institute,  
B.S., MS, Ph.D.

FNAE, FASME, FAIAA, FCI

*Address (Off)*

Georgia Institute of  
Technology, 270 First Drive,  
Atlanta, GA 30332-0150,  
USA

**Prof. Timothy Charles**

1972

2019

III



*Address (Res)*

1689 Fernleaf Circle, Atlanta,  
GA 30318, USA

Tele: +678-642-7892

Email: tim.lieuwen@energy.gatech.edu

**MAHAJAN**

Distinguished Professor  
and Special Adviser to  
the Chancellor  
B.Sc., B.E., Ph.D.

FNAE, FNAE(USA), FASM, FMRS, FTMS, MIIM

*Address (Off)*

Department of Chemical  
Engineering & Materials Science,  
University of California,  
Davis, 1 Shields Avenue, Davis,  
California 95616, USA

Tele: +530-752-5132

Fax: +530-752-1031

Email: smahajan@ucdavis.edu

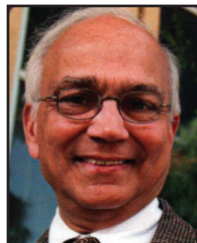
Formerly Fulton Technical Fellow and Advisor to the Dean

**Prof. Subhash**

1939

2014

VIII

**MAJUMDAR**

Jay Precourt Professor  
and Fellow at the Precourt  
Institute of Energy  
Ph.D.

FNAE, MNAE(USA), FAAAS, FASME

*Address (Off)*

Stanford University,  
440 Escondido Mall-Building 530,  
Rm 122, Mail Code : 3030 Stanford,  
CA 94305

Tele: +650-7246973

Fax: +6507235034

Email: amajumdar@stanford.edu

**Dr. Arunava**

1963

2015

IX



**MEHLHORN**

Director I  
Ph.D.  
FNAE, MGASc., MGAE, MUSAE  
*Address (Off)*  
Max Planck Institute for  
Informatics, MPI Informatik,  
Campus E1 4, 66123  
Saarbruecken, Germany  
Tele: +49 681 9325 1000  
Email: mehlhorn@mpi-inf.mpg.de

**Dr. Kurt**

949

2015

II

**MEHTA**

P.W. Horn Professor  
Ph.D.  
FNAE, NAE(US), MASCE  
*Address (Off)*  
Civil Engg. Department,  
Texas Tech University,  
Lubbock, TX 79409-1023,  
USA  
Tele: +1-806-834-5679  
Fax: +1-806-742-3446  
Email: kishor.mehta@ttu.edu

**Prof. Kishor C.**

1936

2009

I

*Address (Res)*  
4002-16th Street, Apt. 4511,  
Lubbock, TX 79416, USA

Tele: +1-806-787-2729

Formerly Director of Wind Science and Engineering Research Centre

**MITRA**

Distinguished Emeritus  
Professor of Electrical and  
Computer Engineering  
B.Sc.(Hons), M.Sc.(Tech), M.S., Ph.D.  
FIEEE, FCASA, FNATS, MNAE(USA), MNASI, MA.I.(Mexico),  
MFASL, MCAE, MBNAE, MNAI(USA)  
*Address (Off)*  
Department of Electrical &  
Computer Engineering,  
University of California,  
Santa Barbara,  
CA 93106-9560 U.S.A.  
Tele: +805-893-3957  
Fax: +805- 893-3262  
Email: mitra@ece.ucsb.edu  
Distinguished Professor of Electrical and Computer Engineering

**Prof. Sanjit Kumar**

1935

2007

VI

*Address (Res)*  
929, Crown Avenue,  
Santa Barbara,  
CA 93111-1020, USA

Tele: +805-967-9557



**MITRA**

Executive Director  
Ph.D.

FNAE, FASME, FCSME, FEIC, FCAE, FRSC, FAPS, FAAAS  
*Address (Off)*

Waterloo Institute for  
Nanotechnology, Quantum-  
Nanocentre, Room No.3607,  
200 University Ave. W.,  
Waterloo, ON, CANADA N2L 3G1

Tele: +519 888-4567 X 37176

Email: skmitra@uwaterloo.ca

Former Associate Vice-President Research, York University

**Prof. Sushanta**

1972

2017

III

**MITRAGOTRI**

Professor of Bioengineering  
Ph.D.(Chemical Engg)

FNAE, MNAE(USA), MNAM(USA), MNAI

*Address (Off)*

211 Pierce Hall,  
School of Engineering &  
Applied Sciences,  
Harvard University,  
29 Oxford St., Cambridge,  
MA 02138, USA

Tele: +1-805-698-6196

Email: mitragotri@seas.harvard.edu, mitragotri@gmail.com

**Prof. Samir**

1971

2018

IV

**MITTER**

Professor of Electrical  
Engineering  
Ph.D.

FNAE, MNAE(US), FIEEE, FIFAC, MSIAM

*Address (Off)*

Room No. 32D-562,  
Massachusetts Institute  
of Technology, 77,  
Massachusetts Avenue,  
Cambridge, MA 02139, USA

Tele: +1-617-253-2160

Fax: +1-617-258-8364

Email: mitter@mit.edu

**Prof. Sanjoy Kumar**

1933

2015

II



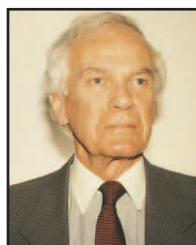
**MOHAN** **Dr. C** 2010  
 Distinguished 1955 II  
 Visiting Professor  
 B.Tech, Ph.D.  
 United States National Academy of Engineering;  
 ACM Fellow; IEEE Fellow  
*Address (Off)* *Address (Res)*  
 20219, Edinburgh Drive,  
 Saratoga, CA 95070, USA  
 Tele: +1 408 206 4027 Tele: +1-4088720730  
 Email: seemohan@gmail.com , cmohan@alumni.iitm.ac.in  
 IBM Fellow, IBM Almaden Research Center, San Jose, USA



**MOHAN** **Prof Ned** 2021  
 Regents Professor, 1946 V  
 University of Minnesota,  
 Minneapolis USA  
 B. Tech. MS (Nuclear Engg. & Electrical Engg.) Ph.D.  
 FNAE, FIEEE, MNAE (USA)  
*Address (Off)* *Address (Res)*  
 Department of Electrical 1819 Moore Street  
 and Computer Engineering, Saint Paul, MN 55113  
 University of Minnesota, USA  
 200 Union Street  
 S.E. Minneapolis, MN 55455  
 Tele: 1+6126253362 Tele: 6516421258  
 Email: mohan@umn.edu



**MORGENSTERN** **Prof. Norbert Reuben** 2000  
 University Professor 1935 I  
 (Emeritus) of  
 Civil Engineering  
 Ph.D., DIC  
 FNAE, FRS (C), FCAE, FCAS, FREng, Foreign Assoc. NAE (US)  
*Address (Off)* *Address (Res)*  
 Department of Civil & 106, Laurier Drive,  
 Environmental Engineering, Edmonton, AB T5R 5P6,  
 University of Alberta Canada  
 3-075 NREF Edmonton,  
 AB T6G 2W2  
 Tele: +1- (780) 492-5127 Tele: +1-403-486-5344  
 Fax: +1-780-492-8198  
 Email: norbertm@ualberta.ca



**MOUDGIL**

Director,  
Particle Engineering  
Research Centre  
B.S., M.S., Eng.Sc.D.  
FNAE, MACerS, MACHe, MAIME, MASEE  
*Address (Off)*  
University of Florida,  
PO Box 116135,  
Gainesville FL 32611-6135  
Tele: +352-846-1194  
Fax: +352-846-1196  
Email: [bmoudgil@perc.ufl.edu](mailto:bmoudgil@perc.ufl.edu)

**Prof. Brij Mohan**

1945  
*Address (Res)*  
5326 NW 67th St.,  
Gainesville FL 32653-3927  
Tele: +352-372-3137

2006  
VIII**MURTHY**

Dean  
Samueli School of Engineering,  
Distinguished Professor  
B. Tech, M.S., Ph.D.  
FNAE, MNAE(US) MASME, MASEE, MAAAS, FASM  
*Address (Off)*  
Department of Mechanical  
Engineering,  
University of California,  
Los Angeles, Los Angeles,  
7400 Boelter Hall, CA 90095  
Tele: 310-825-2938  
Email: [jmurthy@ucla.edu](mailto:jmurthy@ucla.edu), [jmurthy@gmail.com](mailto:jmurthy@gmail.com)  
Former Department Chair, Department of Mechanical Engineering, University of Texas at Austin

**Prof. Jayathi Y.**

1958

2020  
III**MUTHUKUMARAN**

Professor & Concordia  
Research Chair,  
Director Micro Nano Bio  
Intregation Centre  
Ph.D., MS by Research, B.E.  
FNAE, FNAI, FCAE, FEIC, FASME, FCSME, FIEI  
*Address (Off)*  
Department of Mechanical,  
Industrial and Aerospace Engg.,  
Gina Cody School of Engineering  
and Computer Science,  
Concordia University, EV4-149,  
1455 de Maisonneuve Blvd. W.  
Montreal, Quebec, Canada H3G 1M8  
Tele: +514-8482424 Extn.7973  
Fax: +151-48483175  
Email: [m.packirisamy@concordia.ca](mailto:m.packirisamy@concordia.ca)

**Prof. Packirisamy**

1964

2019  
X

**NARAYANAMURTI**  
 Benjamin Peirce Professor  
 of Technology & Public Policy  
 and Professor of Physics,  
 Harvard  
 D.Sc.(Hon), Tohoku Univ.  
 FNAE, MNAE(US), MAAASc., MIVA, MAAAS,  
*Address (Off)*  
 Pierce Hall 107D,  
 29 Oxford Street,  
 Cambridge, MA 02138  
 Tele: +617-384-8211  
 Fax: +617-496-3742  
 Email: venky@seas.harvard.edu

**Prof. Venkatesh**  
 1939  
*Address (Res)*  
 316 Beacon Street #3,  
 Boston, MA 02116

2015  
 VI



**NETRAVALI**  
 Managing Partner,  
 Omni Capital, LLC.  
 President Emeritus  
 (Bell Laboratories)  
 Ph.D, Ph.D(h.c.)  
 FNAE, NAE(US), FIEEE, FAASc  
*Address (Off)*  
 10 Byron Court  
 Westfield, New Jersey,  
 USA, 07090  
 Tele: +908-304-4083  
 Email: arunnetravali@omnivc.com

**Dr. Arun**  
 1946

2002  
 VI



Formerly President, Bell Laboratories, Chief Technology Officer and Chief Architect, USA

**NICKEL**  
 University Professor  
 Dr. rer. nat.  
 FNAE, GDCh, DGM, KTG, DASp  
*Address (Off)*  
 Institute for Materials in  
 Energy Systems,  
 Forschungszentrum Julich  
 GmbH, D-52425 Juelich,  
 Germany  
 Tele: +49-2461-612508  
 Fax: +49 2461 59756  
 Email: h.nickel@fz-juelich.de

**Dr. Dr.h.c. Hubertus**  
 1930  
*Address (Res)*  
 Am Waldeck 5  
 52428 Juelich, Germany  
 Tele: +49-2461-53424

1998  
 VIII



**PAYNE**

Director  
Ph.D.

FNAE, FSI, FOSA, FRSA, FNAS, FIEE, FRAEng, MRAS  
*Address (Off)*

Optoelectronics Research  
Centre, University of  
Southampton, Southampton,  
SO17 1BJ, United Kingdom

Tele: +44-23-8059-3583, +44-23-8059-3142

Fax: +44-23-8059-3142

Email: [dnp@soton.ac.uk](mailto:dnp@soton.ac.uk)

**Prof. Sir David N.**

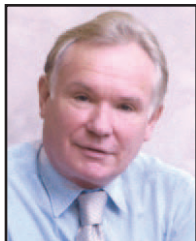
1944

*Address (Res)*

13, Sylvan Lane, Hamble,  
Southampton SO31 4QG,  
United Kingdom

2015

VI

**PEPPAS**

Cockrell Family

Distinguished Regents  
Chair in Engineering,  
Professor, McKetta Dept.  
of Chemical Engineering,

Professor, Department of  
Biomedical Engineering,

Professor, Department of Pediatrics,  
Surgery and Perioperative Care,  
Dell Medical School

Dipl. Eng. (Chem. Eng.), Sc. D. (Chem. Eng.)

FNAE, MNAE (US), MNAM (US), MAAAS, MNAI, MIAMBE, MANF, MRANS, MAA  
(Greece), MCAE, MCAST, MAMES

*Address (Off)*

The University of Texas,  
Austin, 3217 Lating Stream  
Lane, Austin, TX 78746, USA

Fax: 1-512-471-8227

Email: [peppas@che.utexas.edu](mailto:peppas@che.utexas.edu)

**Prof. Nicholas  
Athanassiou**

1948

*Address (Res)*

2020

IV

**PICHAJ**

CEO,

Google and Alphabet, USA  
B.Tech, MS, MBA

FNAE

*Address (Off)*

Google LLC,  
1600 Amphitheatre Parkway,  
Mountain View, CA 94043

Email: [sundar@gmail.com](mailto:sundar@gmail.com)

**Mr. Sundar**

1972

2021

II







**RAMKRISHNA**

Harry Creighton Peffer  
Distinguished Professor  
of Chemical Engineering  
Ph.D.

FNAE, NAE(USA), FAICh.E., FAIMBE, Hon.FIChE

*Address (Off)*

Forney Hall of Chemical  
Engineering,

480 Stadium Mall Drive

Purdue University,

West Lafayette, IN 47907,

USA

Tele: +1-765-494-4066

Fax: +1-765-494-0805

Email: ramkrish@ecn.purdue.edu

Formerly Professor of Chemical Engineering, Purdue University

**Prof. Doraiswami**

1938

2012

IV



*Address (Res)*

3517 Woodwind Place,

West Lafayette,

IN 47906, USA

Tele: +1-765-463-5637

**RATH**

Ph.D.

FNAE, NAE (US), TMS, FWASc. (USA), FASM, FAAAS,

Hon. Mem. MRSI, FIMUK

*Address (Res)*

10908, Timbermill Ct. Oakton.

VA 22124, USA

Tele: +1-703-620-4815

1996

VIII



Email: drrath34@gmail.com

Formerly Associate Director of Research and Head, Materials Science and Component Technology Directorate, Naval Research Laboratory, USA

**RAVINDRAN**

Ph.D.

FNAE, FCAE, FASM, MAFS, MPEO

*Address (Off)*

Advanced Materials and  
Manufacturing Processes,

Department of Mechanical

and Industrial Engineering,

Ryerson University, 350,

Victoria Street, Toronto,

Ontario, Canada M5B 2K3

Tele: +1-416-979-5000

Fax: +1-416-979-5265

Email: c.ravindran3@gmail.com, rravindr@ryerson.ca

**Prof. Comondore**

1945

2008

VIII



*Address (Res)*

63, Chatterson Drive Ancaster,

Ontario, Canada L9G 1B6

Tele: +1-905-648-5137

**REDDY**

Distinguished Professor,  
Regents Professor,  
and the holder of Oscar S.  
Wyatt Endowed Chair  
Ph.D.

FNAE, MNAE(US), FASME, FAIAA, FASCE, FUSACM, FIACM,  
FAAM, FASC, FCAE, FBNAE

*Address (Off)*

401, Mechanical Engg.  
Building Texas A&M  
University, College Station,  
Texas 77843-3123, USA  
Tele: 9798622417  
Fax: 9798453989  
Email: jnreddy@tamu.edu

**Prof. Junuthula  
Narasimha**

1945 X

2015



*Address (Res)*

4712 St. Andrews Drive,  
College Station,  
TX 77845-4401, USA

**REDDY**

Herbert A Simon  
University Professor  
Ph.D.

FNAE, FNA, FIETE, FASA, FAAAAI, MNAE

*Address (Off)*

Carnegie Mellon  
University, Pittsburgh,  
Pennsylvania 15213-3890  
Tele: +1-412-268-2597  
Fax: +1-412-683-5348  
Email: rr@cmu.edu

**Dr. Raj**

1937

2002  
VI



*Address (Res)*

808, Devonshire Road,  
Pittsburgh, PA 15213

Tele: +1-412-621-2617

**ROOS**

University Professor  
Dr.-Ing. Habil  
FNAE

*Address (Off)*

MPA University of Stuttgart,  
Pfaffenwaldring 32,  
70569 Stuttgart, Germany  
Tele: +49-711685-2604  
Fax: +49-711685-3144  
Email: eberhard.roos@mpa.uni-stuttgart.de

**Prof. Dr. Eberhard  
Joachim**

1945

2005  
VIII



*Address (Res)*

Karl-Friedrich-Rumpp-Str. 9,  
72622 Neurtingen, Germany

Tele: +49-7022-34454

**ROSAKIS**

Theodore von Kármán  
Professor of Aeronautics &  
Professor of Mechanical Engg.  
Ph.D.

MNAS, MNAS, FASME, FSEM, FAAAS, MNAE, MNYAS, MAGU,  
MSSA, MMRS, MSSA, MSSES

*Address (Off)*

Division of Engineering  
and Applied Science,  
Theodore von Karman  
Professor of Aeronautics  
and Mechanical Engineering,  
California Institute of Tech.  
1200 E, California Blvd, Mail  
Stop 105-50, Pasadena, CA 91125  
Tele: +626-395-4523  
Email: arosakis@caltech.edu

**Prof. Ares J**

1956

2014

III

*Address (Res)*

1310 East Boston Street,  
Altadena, CA 91001, USA

**SCHIEHLEN**

Professor Emeritus  
Dr. Ing., Habilitation for Mechanics, Dr.h.c.  
FNAE, FASME, FASME, HMEMS, MIAVSD

*Address (Off)*

Institute of Engineering and  
Computational Mechanics,  
University of Stuttgart,  
70550 Stuttgart, Germany  
Tele: +49-711-68566388

Fax: +49-711-68566400

Email: schiehlen@itm.uni-stuttgart.de

Formerly Research Associate, NASA Marshall Space Flight Centre, USA

**Prof. Werner Otto**

1938

1997

III

*Address (Res)*

Dieselstrasse 6,  
73066 Uhingen, Germany

**SCHLAICH**

Professor,  
Chair of Conceptual and  
Structural Design/Managing Director,  
Technische Universität Berlin, Germany // sbp schlaich  
Prediploma at the University of Stuttgart, Germany,  
Diploma in Structural Engg. at the Federal Institute of Technology  
(ETH) Zurich, Switzerland FNAE, F I.Str.E.(Lond.), FBBAW,  
FIABSE, FIASS, FFIB, acatech - National Academy of Science and  
Engg., Germany Colegio de Ingenieros CCP, Madrid, SIA -  
Schweizer Ingenieur- und Architektenverein

*Address (Off)*

Schlaich Bergemann Partner  
Brunnenstrasse 110 C  
13355 Berlin - Wedding  
Deutschland, Germany  
Tele: 0049 30 8145283 0  
Fax: +49 30 8145283-66  
Email: m.schlaich@sbp.de

**Prof. Mike (Michael) Jon**

1960

2021

I



**SESHADRI**

SVP/GM MPS

Ph.D.

FNAE, FNAE(USA), FIEEE

*Address (Off)*

5300, California Ave.,

Irvine CA 92617

Tele: +9499266502

Email: nambiseshadri@gmail.com

**Prof. Nambi**

1961

*Address (Res)*

33, Woods Trail, Irvine

CA 92603

Tele: +9497259020

2013

VI



**SHAH**

Professor Emeritus,

Walter P Murphy Professor

of Civil Engineering

Ph.D.

FNAE, NAE(US)

*Address (Off)*

Professor Emeritus,

Walter P Murphy Professor

of Civil Engineering,

Dept of Civil Engineering,

Northwestern University,

TECH 2145 Sheridan Road,

Room A132C, Evanston,

Illinois 60208-3109, USA

Tele: +1-847-491-7878

Fax: +1-847-491-4011

Email: s-shah@northwestern.edu

**Prof. Surendra P**

1936

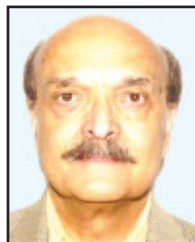
*Address (Res)*

921, Isabella,

Evanston IL 60208, USA

2009

I



**SINGH**

Regents Professor

and Irma Runyon Chair

Professor

Ph.D., D.Sc.

FNAE, MNAE(USA), MAMEST, FCSEE, FIEEE

*Address (Off)*

Department of Electrical &

Computer Engineering, 301

Wisembaker Engg. Building,

Texas A&M University,

College Station, TX,

77845-3128, USA

Tele: 1 979 845 7589

Fax: 1 979 845 6259

Email: singh@ece.tamu.edu

**Prof. Chanan**

1941

*Address (Res)*

2908 Colton Pl,

College Station,

TX 77845, USA

Tele: 979 6930299

2020

V



**SOMASUNDARAN**

Director,  
Green chemicals Program,  
Green Mining program  
M.S., Ph.D.  
FNAE, NAE(US), FCAE(China)  
*Address (Off)*  
National Science Foundation  
Industry/University  
Cooperative Center for  
Particles and Surfactants  
Langmuir Center for  
Colloids and Interfaces,  
Columbia University,  
W 120th Street, 500 W,  
New York, NY 10027  
Tele: +1-212-854-2926  
Fax: +1-212-854-8362  
Email: ps24@columbia.edu

**Prof. Ponisseril**

1939  
*Address (Res)*  
724, Route 9 WS, Nyack,  
New York 10960, USA

2000  
VIII**SPANOS**

L. B. Ryon Endowed  
Chair of Engineering  
Ph.D.  
FNAE, NAE(USA), FASCE, FASME, Sr.Fellow,  
Alexander Von Humboldt, Germany  
*Address (Off)*  
Rice University,  
6100 Main Street –  
MS 321, Houston,  
Texas 77005 (USA)  
Tele: +713-348-4909  
Fax: +713- 348-5191  
Email: spanos@rice.edu

**Prof. Pol D**

1950  
*Address (Res)*  
2815 Carnegie Street,  
Houston, Texas 77005,  
USA

2008  
I**SREENIVASAN**

President & Dean  
of Engineering  
Ph.D.  
FNAE, FNA, MNAE(USA), MNASc.(USA)  
*Address (Off)*  
NYU Polytechnic School of  
Engg., #1242 Bobst Library,  
70 Washington Square South,  
New York University,  
New York NY 10012, USA  
Tele: +212-992-7914  
Email: krs3@nyu.edu, katepalli.sreenivasan@nyu.edu

**Dr. Katepalli Raju**

1946  
*Address (Res)*  
88, Starin Drive Stanford,  
CT 06902, USA

2015  
III

**SRIDHAR**

Founder, CEO, Chairman  
 Ph.D.(Mech Engg)  
 FNAE, MNAE, MASME  
*Address (Off)*  
 Bloom Energy Corporation,  
 4353 North First Street,  
 San Jose, CA 95134, USA  
 Tele: +408-543-1543  
 Fax: +408-543-1505  
 Email: krsridhar@bloomenergy.com

**Dr. KR**

1960

2018

III



**SRINIVASAN**

Director  
 M.Sc.  
 FNAE, FREng, FICE, FStructE, CEng.  
*Address (Off)*  
 Dar Consultants (UK) Ltd.,  
 3 Water Lane,  
 Richmond-upon-Thames,  
 Surrey TW9 1TJ,  
 United Kingdom  
 Tele: +44-208-334-7676  
 Fax: +44-208-334-7677, +44-208654-9026  
 Email: s.srinivasan@dargroup.com

**Mr. Seshadri**

1933

2004

I



**STATA**

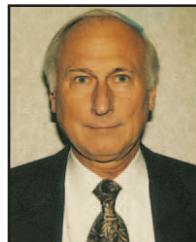
Chairman of the Board  
 MSEE, D.Eng.(h.c.)  
 FNAE, NAE(US), FAAASc.  
*Address (Off)*  
 Analog Devices, Inc.,  
 Post Office Box 9106,  
 Norwood, MA 02062,  
 USA  
 Tele: +1-617-416-3202  
 Fax: +1-617-416-4462  
 Email: ray.stata@analog.com

**Dr. Raymond Stuart**

1934

1997

VI



**SURESH**

President

Sc.D.

FNAE, MNAE (US), MNAS (US), MNAM (US), MAAAS, MNAI (US), MCAS, MFAS, , MGAS, MRSAE, FNASc., MRSPSE

*Address (Off)*

Distinguished University Professor

Nanyang Technological University

Singapore (NTU Singapore)

50 Nanyang Avenue,

Singapore 639798

Tele: +65 - 6514 8332

Email: NTU-President@ntu.edu.sg

Former Director, National Science Foundation; Former Dean of Eng. and Vannevar Bush Professor, MIT; Former President, Carnegie Mellon University, Henry L. Hillman President's Chair, Carnegie Mellon University, USA

**Prof. Subra**

1956

2004

VIII

**TAMURA**

Professor,

School of Civil Engineering,

Chongqing University,

China; Program Coordinator,

Honorary Director,

Wind Engineering Joint Usage/

Research Center, Japan

Ph.D.

FNAE, MEAJ(Japan), FCAE(China), FEMI ASCE(USA)

*Address (Off)*

School of Civil Engineering,

Chongqing University,

No.83, North St.,

Shapingba District,

Chongqing, China 400045

**Prof. Yukio**

1946

2014

I

*Address (Res)*

1-15-20, Chuorinkan,

Yamato, Kanagawa,

Japan 242-0007

Tele: +81-46-242-9547

Fax: +81-46-242-9547

Email: yukio@arch.t-kougei.ac.jp, yukio18291829@gmail.com

Former Director, Wind Engineering Research Center, Tokyo Polytechnic University; Japan, Former Professor, School of Civil Engineering, Beijing Jiaotong University, China

**TAYLOR****Dr. Kathleen C**

1942

VIII

2006

Ph.D.

FNAE, NAE (US), FSAEI, MAAASc., MMRS (USA), MACS (USA)

*Address (Res)*

33 C Cape Codder Road

Falmouth, MA 02546, USA

Tele: +239-454-4547, +568-540-8653

Fax: +508-540-8653, +239-454-4547

Email: kctylr@aol.com





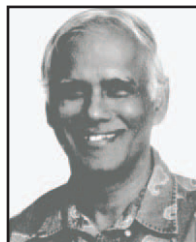
**TIRRELL** **Prof. Matthew Vincent** 2009  
 Pritzker Director, 1950 IV  
 Professor & Dean of the Faculty  
 Ph.D.  
 FNAE, FAIMBE, FAAAS, FAPS  
*Address (Off)*  
 Institute for Molecular Engg.  
 University of Chicago  
 5640 South Ellis Avenue  
 Chicago, IL 60637  
 Tele: +1-773-834-2001  
 Fax: +1-773-834-7756  
 Email: mtirrell@uchicago.edu  
 Formerly Dean, College of Engineering, University of California, USA



**TRIFUNAC** **Prof. Mihailo Dimitrije** 2006  
 1942 I  
 Ph.D.  
 FNAE, MRANS, MISET, MYAE, Hon.MYAS  
*Address (Off)* *Address (Res)*  
 Department of Civil 855, Arcadia Ave.  
 Engineering, KAP 216D, #E Arcadia CA 91007,  
 MC 2531 University of USA  
 Southern California,,  
 Los Angeles, CA 90089-2531  
 Tele: +213-740-0570 Tele: +626-447-9382, +626-447-9382  
 Fax: +213-744-1423  
 Email: trifunac@usc.edu



**TUMMALA** **Prof. Rao R** 2003  
 Pettit Chair Professor 1942 VIII  
 and Director of NSF  
 Ph.D.  
 FNAE, NAE(US), FIEEE, FIMAPS  
*Address (Off)* *Address (Res)*  
 Packaging Research Centre, 1040 Davison Lane,  
 Georgia Institute of Technology, Greensboro, Ga, USA 30642  
 813 Ferst Drive, NW, Atlanta,  
 Georgia 30332-0560, USA  
 Tele: +1-404-894-9097 Tele: +1-770-934-2132  
 Fax: +1-404-894-3842  
 Email: rao.tummala@ee.gatech.edu



**VAIDYANATHAN**

Professor of Electrical  
Engineering, California  
Institute of Technology,  
Pasadena, CA, USA  
B. Tech., M. Tech., Ph. D.  
FNAE, MNAE(USA), FIEEE

*Address (Off)*

Department of Electrical  
Engineering, 136-93,  
California Institute of  
Technology, Pasadena,  
CA 91125

Tele: (626) 395 4681

Email: ppvnath@systems.caltech.edu

Kiyo and Eiko Tomiyasu Professor of Electrical Engineering

**Prof. Palghat P**

1954

2021

VI

*Address (Res)*

1270, Westlyn Place, Pasadena,  
California - 91104-3326

Tele: (626) 798-4291

**VIRLOGEUX**

Consulting Engineer  
Doctor-Engineer  
FNAE, FIStruct.E.

*Address (Off)*

Freyssinet, 1 Bis,  
Rue Du Petit Clamart,  
Bat.C-BP 135-78148,  
Velizy Cedex, France

Tele: +66-1-46-01-8484

Fax: +33-1-46-01-8585

Email: francoise.micheau@freyssinet.com

**Prof. Michel Paul**

1946

2004

I

*Address (Res)*

24, Rue De La Division  
Leclerc, 78 830,  
Bonnelles, France

Tele: +33-1-30-41-3957

**VORA**

UOP/Honeywell Fellow  
(Retired), Adjunct Professor,  
B.Sc.(Chemistry), M.S.(Chemical Engineering); UOP/Honeywell  
Fellow, FNAE, MNAE(US), FAICHe, MACS

*Address (Off)*

Dept. of Biological and  
Chemical Engineering,  
IIT-Chicago, 1038  
Catherine Avenue,  
Naperville, Illinois 60540,  
USA

Tele: 1-630-6990706

Email: bvvora@comcast.net

**Mr. Bipin V.**

1943

2020

IV



**WASAN**

Motorola Chair Professor  
of Chemical Engineering and  
Vice-President for International  
Affairs  
Ph.D.

FNAE, NA(US), FAICHe, FIICHe, FACS

*Address (Off)*

Illinois Institute of Technology,  
10 West 33rd Street,  
Room 228, Chicago,  
IL 60616, USA

Tele: +312-567-3001

Fax: +312-567-3003

Email: wasan@iit.edu

**Prof. Darsh T**

1938

*Address (Res)*

8705, Royal Swan Lane,  
Darien Illinois 60561 , USA

Tele: +630-985-8180

2007

IV



**WILLIAMS**

Professor of Biomaterials  
& Director of International  
Affairs

B.Sc. (First Class Honours), Ph.D., D.Sc.

FNAE, FREng., FAIMBE

*Address (Off)*

Wake Forest Institute  
of Regenerative Medicine,  
USA

Email: dfwillia@wakehealth.edu

Formerly Senior Pro-Vice Chancellor, University of Liverpool, UK

**Prof. David Franklyn**

1944

*Address (Res)*

One Sheffield Place,  
Winston-Salem, North Carolina,  
27104, USA

Tele: +1 336 671 8895

2015

X



**WINELAND**

Philip Knight Distinguished  
Research Chair,  
Department of Physics,  
University of Oregon, USA,  
B.A., M.A., Ph.D.

FNAE, FASP, FOPSA, Member, Sigma Xi, MNAS(USA),  
MNAI, MAAAS

*Address (Off)*

University of Oregon,  
USA, Eugene, Oregon, 97403  
Tele: (1541) 346-5262

Email: djw34@uoregon.edu, dwineland1@aol.com

**Prof. David Jeffery**

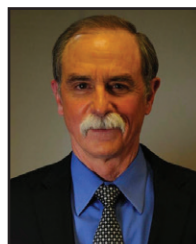
1944

*Address (Res)*

3220 Bryceler Dr., United States,  
Eugene, Oregon, 97405  
Tele: 13035068896

2021

VI



**ZISSERMAN**

Royal Society  
Research Professor,  
Dept of Engineering Science,  
University of Oxford  
B.A. (Hons.), Ph.D.  
FNAE, FRS, FBMVA  
*Address (Off)*  
Department of Engineering  
Science, Parks Road,  
United Kingdom

**Prof. Andrew**  
1957

*Address (Res)*  
17 Plantation Road,  
United Kingdom,  
Oxford, OX2 6JD  
Tele: +44 1865 310334

2021  
II



Email: [az@robots.ox.ac.uk](mailto:az@robots.ox.ac.uk) ; [azisserman@gmail.com](mailto:azisserman@gmail.com)  
Professor of Computer Vision Engineering

# **INAE Young Associates**



## INAE Young Associates

*All INAE Young Engineer Awardees will become “INAE Young Associates”, till they attain the age of 45 years, at which age this association will be deemed to have lapsed automatically. They shall have all the privileges except voting rights.*

### ASSOCIATES ON ROLL

**Acharyya**, Swati Ghosh, b. 1983, Ph.D.(HBNI, DAE, Mumbai), Associate Professor, School of Engineering Science and Technology, University of Hyderabad, Gachibowli, Hyderabad – 500046, Tele. Off. (040) 23134456, Res. (M) 09618032937, Fax : (040)23011087, Email : swati364@gmail.com, sgase@uohyd.ernet.in, sp. Corrosion Science and Engineering : Modeling and Experimental Validation

**Arumuru**, Venugopal, b.1985, Ph.D.(IIT Bombay), Assistant Professor, School of Mechanical Sciences, Indian Institute of Technology Bhubaneswar, Arugul – 752050, Tele. Off: (0674) 7137146, Res.(0674)7137147, (Mobile) 8698955593, Fax : (0674)7134450, Email : venugopal@iitbbs.ac.in, sp. Fluid and Thermal Science

**Ali**, Shaikh Faruque, b. 1980, Ph.D., Assistant Professor, MSB-231, Department of Applied Mechanics, Indian Institute of Technology Madras, Chennai-600 036; Tele : Off (044)-22574054, Res. (044) 22576054, Fax: (044) 22574052, Email : sfali@iitm.ac.in, sk.faruque.ali@gmail.com , sp. Applied Mechanics, Structural Vibration, Control and Energy Harvesting.

**Anand**, Sandeep, b. 1985, Ph.D.(IIT Bombay), Assistant Professor, ACES-103A, Department of Electrical Engg., Indian Institute of Technology Kanpur, Kanpur - 208016, Tele : Off. (0512) 2597131, 3927131, Fax : (0512) 2590063, Email : asandeep@iitk.ac.in, Res. House-506 UF Type-V, IIT Kanpur, Kanpur - 208016, Res. (Mobile) 08009871188, Email : me.sandeepanand@gmail.com, sp. Power Electronics.

**Anoop Krishnan**, NM, b.1988, Ph.D. (IISc.,Bangalore); Assistant Professor, Department of Civil Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi-110016; Tel: Off. (011)-26591223; Fax: (011)-26591117; Res. Girnar Warden House, IIT Delhi, Hauz Khas, New Delhi 110016, (M) 9945191019, Email: krishnan@iitd.ac.in, sp. Physics- and data-based modeling of materials

**Arun**, Ravi Kumar, b.1985, Ph.D. (Academy of Scientific and Innovative Research (AcSIR), New Delhi); Assistant Professor, Department of Chemical Engineering, IIT Jammu, Jagti, NH-44, Post Office Nagrota, Jammu-181211; Mob: 9474347043, 7679611079; Res: MS-1/C8, CMERI Colony, Durgapur (WB); Email: rk\_arun@cmeri.res.in; ravi.arun@iitjammu.ac.in; rarun2001@gmail.com; rerun.iitk@gmail.com; sp. Microfluidics, Lab on Chip Devices, Energy Conversion and Storage: Fuel cells and batteries

**Arya**, Sabha Raj, b. 1979, Ph.D. (IIT Delhi), Assistant Professor, Electrical Engineering Department, SV National Institute of Technology, Ichchhanath, Dumas Road, Surat-395 007, Tel. (Off) 08758210861, Res. 08758210861, 2612201560, Email : sabharaj1@gmail.com, sra@eed.svnit.ac.in, sp. Power Electronics and Power Filter Technology.

**Avasthi**, Sushobhan, b. 1983. Ph.D. (Princeton University,USA), Assistant Professor, Centre for Nano Science and Engineering, Indian Institute of Science, Bangalore – 560012, Tele. Off.(080)22932949, Res.(M) 09902333360, Fax : (080)23600683, Email : savasthi@iisc.ac.in, sushobhan.avasthi@gmail.com, sp. Photovoltaics

**Badhulika**, Sushmee, b. 1985, Ph.D.(University of California, Riverside, USA), Associate Professor, Room # 211, E Block, Department of Electrical Engg., Indian Institute of Technology Hyderabad, Kandi, Sangareddy, Medak District, Telangana – 502285, Tele : Off. (040) 23018443, Fax : (040) 23016032, Email : sbadh@iith.ac.in, Res. Quarter # 3247, ODF Campus, Yeddumailaram, Medak District, Telangana - 502205, Res. Tele : 08455237735, (Mobile) 09494819735, Email : sbadhulika@gmail.com, Sp. Nanomaterials, devices and circuits, Flexible and wearable nanoelectronics, paper based eco-friendly electronics, electrochemical nanosensors.

**Bajpayee**, Dhananjay S, b. 1978, B.E.(Pune University), Asst. General Manager, Strategic Initiatives, Larsen & Toubro Limited, Saki Vihar Road, Andheri, Mumbai, Tele. Off. (022) 67053798, Res. (022) 25857504, Fax: (022) 67051616, email: Dhananjay.bajpayee@larsentoubro.com, sp. Advanced Welding Technology for nuclear applications.

**Barman**, Siddharth, b. 1983. Ph.D.(University of Wisconsin-Madison), Assistant Professor, Department of Computer and Automation, Indian Institute of Science, Bangalore – 560012, Tele. Off.(080)22933562, Res.(09557133678), Fax : (080)23602911, Email : barman@iisc.ac.in, sp. Algorithmic Game Theory and Approximation Algorithms



**Bhardwaj**, Rajneesh, b. 1979, Ph.D. (Columbia University), Associate Professor, Department of Mechanical Engineering, Indian Institute of Technology Bombay, Powai, Mumbai-400 076, Tel. Off : 022-25767534, Res. 022-25768534, Fax : 022-25726875, rajneesh.bhardwaj@iitb.ac.in, rajneesh.bhardwaj0@gmail.com, sp. Thermal and Fluid Sciences

**Bhattacharyya**, Malay, b. 1983. Ph.D.(Indian Statistical Institute, Kolkata), Assistant Professor, Machine Intelligence Unit, Indian Statistical Institute, 203 Barrackpore Trunk Road, Kolkata 700108, Tele. Off.(033)26684561-63 (Etn.847), Res.(033)25861009, Fax : (033)26682916, Email : malaybhattacharyya@it.iests.ac.in, malaybhattacharyya@gmail.com., Sp. Computer Science.

**Bhattacharyya**, Partha, b.1978, Ph.D (Jadavpur Kolkata), Assistant Professor, Department of Electronics and Telecommunication Engineering, Bengal Engineering and Science University, Shibpur, Howrah – 711103, Tele. Off.(033) 26684561 (extn.544), Res. (033) 26802769, Fax. (033)26682916, email. Pb\_etc\_besu@yahoo.com, sp. MEMS based gas sensors, Microelectronics Devices.

**Bose**, Suryasarathi, b.1980, Ph.D., Associate Professor, Polymer Processing Group, Department of Materials Engineering, Indian Institute of Science, Bangalore-560 012; Tele. Off (080) 22933407, Res. (080) 23510796, Fax : (080) 22600472, Email : sbose@materials.iisc.ernet.in, sp. Polymer Science and Engineering.

**Chakraborty**, Abir, b. 1977, Ph.D. (Indian Institute of Science Bangalore), Senior Researcher, India Science Lab, General Motors Technical Centre India Pvt. Ltd., Units 1-8, 3rd floor, Creator Building, ITPB, Whitefield Road, Bangalore- 560066, Tele. Off. (080) 40414761, Fax: (080) 41158562/64, email : dr.pakash@gm.com, sp. Solid Mechanics, Biomechanics, Automotive Safety

**Chakraborty**, Poulami, b. 1984, Ph.D(HBNI, Mumbai), Scientific Officer E, Physical Metallurgy Section, Materials Science Division, Bhabha Atomic Research Centre, Trombay, Mumbai – 400085, Tel. Off: (022)25593932, Res. (022)25555547, (Mobile)9557163015, poulamic@barc.gov.in, myworld.pc@gmail.com, sp. Liquid Metal Corrosion, Materials for Fusion

**Chakraborty**, Sandip, b. 1987, Ph.D.(IIT Guwahati), Assistant Professor, Department of Computer Science and Engineering, Indian Institute of Technology Kharagpur – 721302, Off. Tel:(3222)282898, Res.(3325)415639, (Mobile)9547499374, Fax : (3222)22277190, Email : sandipc@cse.iitkgp.ac.in, sp. Computer Systems and Ubiquitous Computing

**Chatterjee**, Abhijit, b.1979, Ph.D. (University of Delaware), Assistant Professor, Department of Chemical Engineering, Indian Institute of Technology Bombay, Powai, Mumbai-400 076, Tel. Off : 022-25767242, Mob.6769867242, Fax : 022-225726895, abhijit@che.iitb.ac.in, sp. Chemical Engineering and Biotechnology

**Chowdhury**, Arindrajit, b.1980, Ph.D. (Pennsylvania State University), Associate Professor, Mechanical Engineering Department, Indian Institute of Technology Bombay, Powai, Mumbai -400 076; Tel : Off. (022) 25767504, Res.(022) 25768504, Fax : (022) 25726875, Email: arindra@iitb.ac.in, sp. Combustion.

**Chaudhary**, Raghvendra Kumar, b.1986, Ph.D.(IIT Kanpur); Assistant Professor, Room No. 634-H, New Academic Building, Department of Electronics Engineering, Indian Institute of Technology (Indian School of Mines), Dhanbad- 826004, Jharkhand Tel: Off. 0326-2235127; Fax: 0326-2235127; Res: Flat No. 72, Block-5, 150 Quarters, New Type-IV, Indian Institute of Technology (Indian School of Mines), Dhanbad, 826004, Jharkhand; Tel: Res. 0326-2235080; (M); 07766907806; 09919639200; Email: raghvendra@iitism.ac.in; raghvendra@ieee.org; sp. RF & Microwave Engineering.

**Das**, Prosenjit, b.1987, Ph.D.(IISc., Bangalore); Senior Scientist, Design and Manufacturing Research Centre, CSIR-Central Mechanical Engineering Research Institute, Mahatma Gandhi Avenue, Durgapur- 713209, West Bengal; Tel: Off. 0343-6452373; Res. MS II/ A-5, CMERI old colony, C-Zone, Durgapur 713209, West Bengal; (M) 09531590074, 09735658945; Email: prosenjit@cmeri.res.in, prosenjit.sct.cmeri@gmail.com; sp. Materials processing and Manufacturing

**Das**, Samaresh, b. 1982, Ph.D.(IIT Kharagpur), Assistant Professor, Centre of Applied Research in Electronics, Indian Institute of Technology Delhi, Hauz Khas, New Delhi - 110016, Tele : Off. (011) 26596036, Fax : (011) 26591103, Email : samareshdas@iitd.ac.in, Res. Vaishali – 71, IIT Delhi, Hauz Khas, New Delhi - 110016, Res. Tele : (011) 26591829 (Mobile) 09899130814, Email : samaresh.das@gmail.com, sp. Silicon based photodetector from visible to infared wavelengths, Non volatile memory devices, short channel Nanowire field effect transistors: junctionless, Quantum devices for future electronics

**Das**, Swagatam, b. 1980, Ph.D (Jadavpur University Kolkata), Assistant Professor, Electronics and Communication Sciences Unit, Indian Statistical Institute, 203, B.T. Road, Kolkata – 700108, Tel. Off. (033) 25752323, Fax: (033)25776680, 25773035, 25752914, email: swagatamdas19@yahoo.co.in, swagatam.das@isical.ac.in, sp. Computer Science and Information Technologies

**De, Abir**, b.1987, Ph.D. (IIT Kharagpur), Assistant Professor, SIA 112, KReSIT Building, Department of Computer Science and Engineering, IIT Bombay, Powai, Mumbai-400076, India, Tel: Off: 022-5767901, Mob: 9920324982, 9920324982, Fax: 022-25720022, Email: abir@cse.iitb.ac.in, abir.iitkgp@gmail.com, Res: Type 2B, Building no 20, Room 134, IIT Bombay, Mumbai-400076, India, Sp. Machine Learning, Artificial Intelligence & Complex Networks

**Devakumar**, Thammisetty, b. 1991, B.Tech (IIT Bombay), Scientist/Engineer'SD', Liquid Propulsion Systems Centre, Thiruvanthapuram – 695547, Tele. Off.(0471)2567202, Res.(M)08301023892, Fax : (0471)2567841, Email : t\_devakumar@lpssc.gov.in, deva.aerospace@gmail.com, sp. Liquid propellant rocket engine systems modeling and system engineering

**Devi, Pooja**, b.1988, Ph.D.(Academy of Scientific and Innovative Research (AcSIR), New Delhi); Senior Scientist, Central Scientific Instruments Organisation, Sector-30C, Chandigarh-160030; Tel: Off. 0172-2672320; Fax: 0172-2657267; Res: SA-4, Scientist Apartment, CSIO Colony, Sector-30C, Chandigarh; Tel: Res. 0712-2672320 ; (M) 7837907516; Email: poojaiitr@csio.res.in; sp. Material Engineering, Sensors, Water and Energy Harvesting Devices

**Fathima**, N Nishad, b.1978, Ph.D ( Anna University), Senior Principal Scientist, Chemical laboratory, Central Leather Research Institute, Adyar, Chennai – 600020, Tel. Off. (044) 24437188, Res. (044) 28603749, Fax : (044) 24912150, Email: nishad@clri.res.in, nishad.naveed@gmail.com, sp. Leather Science & Technology

**Gajare**, Swaroop Subhash, b.1990, Ph.D.(IIT Kharagpur); Lead Engineer, Eaton India Innovation Center LLP, Tower B7, Magarpatta City SEZ, Hadapsar, Pune – 411 028; Tel: Off.020-71028001; Res: C-1002, Casa Feliz, Kad Wasti, Magarpatta City, Hadapsar, Pune – 411 028; (M) 96413 22963; Email: swaroopgajare@gmail.com; sp. Power Systems

**Garg**, Dinesh, b. 1977, PhD (Indian Institute of Science, Bangalore), Researcher, IBM India Research Lab, G2 Block, 8 Floor, Manyata Tech Park, Near Hebbal Junction, Nagawara Junction, Bangalore – 560024 Mob: 93438666653/8800096802; Tele : Res. 080-42150165, Res : Flat No 1002, B-Wing, OAK Towers, Godrej Apartments, Bellary Road, Near Hebbal Junction, Bangalore 560024 Email: dgarg77@yahoo.com sp. Game Theory, Mechanism Design Theory, and Theory of Optimizations

**Ghorai**, Uttam Kumar, b.1986, Ph.D.(Jadavpur University, West Bengal), Assistant Professor, Department of Industrial Chemistry & Applied Chemistry, Ramakrishna Mission Vidyamandira, Howrah – 711202, Tel. Off:(033)26549181, (Mobile)9732717457, Fax:(033)26541123, Email : uttamindchem00@gmail.com, vidyamandira@gmail.com, sp. Materials Science & Engineering, Nanoscience & Nanotechnology

**Ghosh**, Subimal b. 1979, Ph.D. (Indian Institute of Science Bangalore), Assistant Professor, Department of Civil Engineering, Indian Institute of Technology Bombay, Mumbai-400076, Tele. Off. (022) 25767319, Res. (022) 25768319, Fax : (022) 25767302, email: subimal@civil.iitb.ac.in, subimal.ghosh@gmail.com sp. Water Resources Engineering

**Gorthi**, Sai Siva, b. 1981, Ph.D., Assistant Professor, Department of Instrumentation and Applied Physics, Indian Institute of Science, Bangalore – 560012; Tel. Off: (080) 22933502; Res.9008974499; Fax; (080) 23600135 Email : saisiva.gorthi@iap.iisc.ernet.in; sp. Biomedical Instrumentation & Optical Metrology.

**Goyal**, Pawan, b.1986, Ph.D.(University of Ulster, UK); Associate Professor, Room No.308, CSE Department, Indian Institute of Technology Kharagpur-721302 (WB); Tel: Off (03222-282370); Res: NFA 33, IIT Kharagpur, WB 721302; Tel: Res. 03222-260428; (M) 9434202818; Email: pawang@cse.iitkgp.ac.in; pawang.iitk@gmail.com, sp. Natural Language Processing

**Gunturi**, Sarma, b. 1979, M.Sc. (University of California), Principal Engineer-System, Texas Instruments India, Bagmane Tech Park, #66/3, Adjacent to LRDE, Byrasandra, CV Raman Nagar Post, Bangalore-560 093, Tel. Off(080)-25048309, Mob.9980526874, Fax : (080)-25048111, Email : gssarma@ti.com, gssarma02@yahoo.com, sp. Communications and Signal Processing.

**Gupta**, Rakesh, b.1989, M.E. (Indian Institute of Science, Bangalore), Scientist, Tata Consultancy Services, Hadapsar, Pune – 411013, Off. Tel: (020)66086422, (Mobile)7769956581, Fax (020)66086399, Email : Gupta.rakesh2@tcs.com, sp. Chemical Engineering, Multiscale Modelling and Nanotechnology

**Gurralla**, Gurunath, b. 1980, Ph.D., Assistant Professor, Department of Electrical Engineering, Indian Institute of Science, Bangalore-560 012; Mob : 9980212585, Fax : (080) 23600444; Email : Gurunath@ee.iisc.ernet.in, Gurunath\_gurralla@yahoo.co.in, sp. Electrical power System stability and control, power system analysis, distribution system automation.

**Hazra, Aritra**, b. 1985, Ph.D.(IIT Kharagpur), Assistant Professor, Room No. CSE-102, Department of Computer Science and Engineering, Indian Institute of Technology Kharagpur, West Bengal – 721302; Tele : Off. (03222) 304640, Fax : (03222) 278985, Email : aritrah@cse.iitkgp.ac.in, Res. Qtr. No. C1-120, IIT Campus, Indian Institute of Technology Kharagpur, Paschim Medinipur, West Bengal – 721302; Res. Tele : (03222) 304641, (Mobile) 09434370048, Email : aritrah@cse.iitkgp.ac.in, sp. Formal Methods, Design Verification, VLSI CAD.

**Hazra, Jagabondhu**, b.1980, Ph.D.(IIT Kharagpur), Research Staff Member, IBM Research-India, Block G2, 8th Floor, Manyata Embassy Business Park, Outer Ring Road, Nagawara, Bangalore – 560045, Tele : Off. (080) 67043849, Fax : (080)67043961, Email : Jahazral@in.ibm.com, jhazral@gmail.com, sp. Power Systems

**Janardhanan S**, b. 1978, Ph.D. ( IIT Bombay), Assistant Professor, Department of Electrical Engineering, Indian Institute of Technology, Hauz Khas, New Delhi – 110016, Tele : Off.(011) 26591091, Res. (011) 26581062, 26591862, Fax : (011) 26581606, email : janas@ee.iitd.ac.in, sp. Control Engineering

**Jasuja, Kabeer**, b. 1984, Ph.D.(Kansas State University), Assistant Professor, Department of Chemical Engineering , Indian Institute of Technology Gandhinagar, Gandhinagar – 382355, Tele. Off.(0792)3952445, Res. (0792)3951445, 08774946373, Email : kabeer@iitgn.ac.in, sp. Nanotechnology

**Jena, Manas Kumar**, b.1988, Ph.D. (IIT Delhi), Assistant Professor, Room No.125, Department of Electrical Engineering, Indian Institute of Technology Palakkad, Ahlia Integrated Campus, Kozhipara, Palakkad-678557,Kerala, Tel: Off: 04923-226409, Mob: 9911058543, Fax: 04923226 300, Email: mkj@iitpkd.ac.in, Res: Tower-1, D2, Jewel-3, SA Homes, Kalepully, Palakkad-68005, Kerala, Sp. Power Systems Engineering

**Jena, Premalata**, b.1979, Ph.D. (IIT Kharagpur), Assistant Professor, Department of Electrical Engineering, Indian Institute of Technology Roorkee, Uttarakhand – 247667, Tele : Off.(01332) 284757, email : premalata.jena@gmail.com, sp. Power System Protection

**Kaisare, Niket S**, b. 1978, Ph.D. (Georgia Institute of Technology USA), Associate Professor, Department of Chemical Engineering, Indian Institute of Technology Madras, Chennai-600 036, Mob: 9952034553; Email niket.kaisare@gmail.com, sp. Chemical Reaction Engineering and Process Control

**Kamal**, Shyam, b. 1985, Ph.D. (Indian Institute of Technology Bombay), Assistant Professor, Department of Electrical Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi – 221005, (Mobile)9769586290, Fax : (0542)2368428, Email : shyamkamal.eee@iitbhu.ac.in, sp. Control Systems

**Kapat**, Santanu, b. 1981, Ph.D., Assistant Professor, Department of Electrical Engineering, Indian Institute of Technology Kharagpur, Kharagpur – 721302; Tel. Off: (03222) 283080; Res. (03222) 283081; Email: skapat@ee.iitkgp.ernet.in; sp. Control in Switching Power Converters.

**Karmarkar**, Sourabh, b.1985, M.E. (Indian Institute of Science, Bangalore), Sci./Engr. – SE, SCSE, SCSG, ESES, MSOB, Liquid Propulsion System Centre, Valiamala, Trivandrum – 695547, Off. Tel:(0471)2568206, Res.(0471)2370730, (Mobile)9895238343, Fax :(0471)2567414, Email : sourabhkarmarkar@lpssc.gov.in, Sourabh.karmarkar@gmail.com, sp.Design, Development & Analysis of Liquid Propulsion Stage Systems

**Kaarthik**, R Sudharshan, b.1988, Ph.D.(Indian Institute of Science), Assistant Professor, Avionics Block, Indian Institute of Space Science and Technology, Thiruvananthapuram – 695547, Off. Tel:(0471)2568596, Res.(0471)2568693, (Mobile)9042282044, Email : sudhashan.kaarthik@iist.ac.in, Sudharshan.kaarthik@gmail.com, sp. Electrical Power Systems for satellite, Electronic Systems, Renewable Energy

**Karagadde**, Shyamprasad, b.1985, Ph.D(Indian Institute of Science, Bangalore), Assistant Professor, Department of Mechanical Engineering, Indian Institute of Technology Bombay, Mumbai – 400076, Off. Tel: (022)25767398, Res.(022)25768398, (Mobile)7506937398, Fax:(022)25767500, Email : s.karagadde@iitb.ac.in, shyamprasad.k@gmail.com, sp. Solidification, Computational methods

**Khandelwal**, Mudrika, b.1987, Ph.D.(University of Cambridge, UK); Associate Professor, C-435, Dept of Materials Science and Metallurgical Engg., Indian Institute of Technology Hyderabad, Kandi, Sangareddy-502285 Tel: Off. 040-23017118; Fax: 040-23016003; Res: Turquoise 701, My Home Jewel, Madinaguda, Hyderabad 500049; (M) 9966355510; Email: mudrika@msme.iith.ac.in; mudrika26@gmail.com; sp. Nanofibrous Composites

**Khatri, Neha**, b.1986, Ph.D.(Academy of Scientific & Innovative Research, CSIR-CSIO, Chandigarh), Senior Scientist, Dept. of Optical Devices & System, CSIR-Central Scientific Instruments Organisation, Sector 30-C, Chandigarh- 160030, India, Tel: Off: 0172-2672478, Mob: 7814047752, Fax: 0172-2657267, Email: nehakhatri@csio.res.in, Res: House No B34, CSIO Colony, Sector 30-C, Chandigarh -160030, Res. Tel: 0172-2970510, Sp. Optical system Design and fabrication for Soft X-Rays & Infrared Optical elements, Molecular Dynamic Simulation

**Kota, Sri Harsha**, b.1986, Ph.D.(Texas A&M University), Associate Professor,, Department of Civil Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi - 110016, Tel: Off: 011-26591208, Mob: 9435560285, Email: harshakota@gmail.com, Res: First Floor, Vindhychal Warden House, IIT Delhi, New Delhi - 110016, Sp. Air Quality, Climate Change, Environmental Engineering, Civil Engineering

**Krishna, KVM**, b. 1980, Ph.D., M.Tech, Scientific Officer E, MSD, Mod Lab, Bhabha Atomic Research Centre, Trombay, Mumbai-400 085; Tele. Off. (022) 255992022/5062, Res. (022) 25586660, Email: kvmani@barc.gov.in, kvmani@gmail.com, sp. Development of thermo mechanical processing of nuclear engineering components, characterization and modeling of deformation, solid state phase transformation

**Krishnaswamy, Ravishankar**, b.1986, Ph.D. (Carnegie Mellon University), Researcher, Microsoft Research, Vigyan Building, Bangalore – 560001, Off. Tel:(080)66586000, Email : rakri@microsoft.com, ravishankar.k@gmail.com, sp. Design and analysis of algorithms for fundamental optimization problems

**Kumar, Abhishek**, b. 1985, Ph.D., Assistant Professor, N-208, Department of Civil Engineering, Indian Institute of Technology Guwahati, Guwahati-781 039, Assam; Tel. Off. (0361) 2583329, Res. (0361) 2585329, Fax. (0361) 2582440, Email : abhiak@iitg.ernet.in, abhiak@iitg.ernet.in, sp. Earthquake Geotechnical Engineering

**Kumar, Niraj**, b.1987, Ph.D.(AcSIR), Principal Scientist, Microwave Devices Area, D-27, CSIR-CEERI, Pilani, Rajasthan - 333031, Tel: Off: 01596-252293, Mob: 8107433661, Email: niraj@ceeri.res.in, niraj.ceeri@gmail.com, Res: D-27, CSIR-CEERI, Pilani, Rajasthan-333031, Sp. Plasma assisted Microwave & sub-THz source

**Kumar, Praveen**, b. 1982, Ph.D.(University of Southern California, Los Angeles,USA), Associate Professor, Department of Materials Engg., Indian Institute of Science, Bangalore - 560012, Tele : Off. (080) 22933369, Fax : (080) 23600472, Email : praveen@materials.iisc.ernet.in, Res. NE-311, New Housing Colony, Indian Institute of Science, Bangalore – 560012, Res. Tele : (080) 23604142, (Mobile) 09945306436, Email : praveenk@iisc.ac.in, sp. Mechanical behaviour of materials with emphasis on electric field and length scale effects, Mechanics and materials related reliability issues in microelectronics packages, Electromigration and its constructive engineering applications.

**Kumar, Sudarshan** b. 1977, Ph.D. (Indian Institute of Science Bangalore) Professor, Department of Aerospace Engineering, Indian Institute of Technology Bombay, Mumbai- 400076, Tel. Off. (022) 25767124, Res. (022) 25768124, Fax (022) 25722602, email: sudar@aero.iitb.ac.in, sp. Combustion and Propulsion, Aerospace Engineering

**Kumari, Poonam**, b. 1982, Ph.D. (IIT Delhi), Associate Professor, Department of Mechanical Engineering., Indian Institute of Technology Guwahati, Guwahati - 781039, Tele : Off. (0361) 2583434, Email : kpmech@iitg.ernet.in, Res. House No. D-31, Near Mkt. Complex, IIT Guwahati, Guwahati - 781039 Res. Tele : (0361) 2585434, (Mobile) 08721076404, Fax: (0361) 2582699; Email : kpmech@iitg.ac.in, kpmech.iitd@gmail.com, sp. Smart materials and Structures, Piezo sensors in biomedical science

**Malhotra, Pankaj**, b.1988, M.Tech., Scientist, TCS Research, Nirmal Building, 9th Floor, Nariman Point, Mumbai- 400021, Maharashtra, Tel: Off: 022-67789595, Mob: 8178276874, Fax: 2266303672, Email: malhotra.pankaj@tcs.com, pankajiidyn@gmail.com, Res: G-2, Amrapali Royal, Vaibhav Khand, Indirapuram, Ghaziabad - 201014, Sp. Time Series Modeling Recommender Systems Industrial IoT Sensor Data Analytics

**Mandal, Sumantra** b. 1979, Ph.D, (IIT Madras), Assistant Professor, Department of Metallurgical & Materials Engineering, Indian Institute of Technology Kharagpur and Formerly Scientific officer ‘E’, Materials Technology Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, Email : sumantra.mandal@metal.iitkgp.ernet.in, sumantra.mandal@gmail.com, sp. Characterization of microstructural evolution during thermo-mechanical processing and materials modeling.



**Mangal**, Rahul, b.1985, Ph.D.(Cornell University); Assistant Professor, Faculty Building 451, Department of Chemical Engineering, IIT Kanpur; Kanpur-208016; Tel: Off. 512-2592002; Res: Flat 604, Type 2 Apartments, IIT Kanpur, Kanpur-208016 ; Tel: Res. 512-2598861; (M) 9936258386; Email: mangalr@iitk.ac.in; mangalr.iitk@gmail.com; sp. Active Matter, Polymer Physics, Soft Matter, Rheology

**Mariappan**, Sathesh, b. 1985, Ph.D.(IIT Madras), Assistant Professor, Department of Aerospace Engineering, Indian Institute of Technology Kanpur, Kanpur–208016, Tele. Off.(0512)2596331, Res.(0512)2598919, 07376036721, Fax : (0512)2597906, Email : sathesh@iitk.ac.in, sp. Aerospace Propulsion

**Mathavaraj**, S., b.1988, Ph.D.(IISc.,Bangalore), Scientist-SE, Flight Dynamics Group, UR Rao Satellite Center, Bengaluru, Karnataka, Tel: Off: 080-25084416, Mob: 9480168350, Email: mathan.hce@gmail.com, Res: 240-D, 3rd Floor, 5th Cross, 6th Main, Viveknagar, Near Medplus, Bengaluru, Karnataka, Mob: 9481345851, Sp. Space Dynamics Interplanetary Trajectory design Guidance, Navigation and Control of Space Vehicles Optimal Control and Estimation Theory

**Misra**, Neeldhara, b.1987, Ph.D.(Institute of Mathematical Sciences); Assistant Professor, Indian Institute of Technology Gandhinagar Palaj Campus, Gandhinagar-382355, Gujarat; Tel: Off; 079-23952490; Res: E-502, Swagat Blossom 3BHK, Near Sargasaan Circle, Behind Aashka Hospital, Gandhinagar-382421, Gujarat; (M) 9712990170; Email: neeldhara.m@iitgn.ac.in; neeldhara.misra@gmail.com; sp. Theoretical Computer Science; Algorithm Design

**Mishra**, Sudib Kumar, b.1981, Ph.D., Associate Professor, Department of Civil Engineering, Indian Institute of Technology Kanpur, Kanpur- 208016; Tel: Off : (0512) 2597631 Res : (0512) 2598760; Fax. (0512) 2597395; Email: officeece@iitk.ac.in; sp. Seismic Vibration Control, Structural Health Monitoring, Smart Structures and Systems and Probabilistic Safety Assessment

**Mohapatra**, Abheejeet, b.1986, Ph.D.(IIT Delhi), Assistant Professor, ACES-105D, Department of Electrical Engineering, Indian Institute of Technology Kanpur, Kanpur - 208016, Mob: 8052589907, Fax: 0512-2590063, Email: abheem@iitk.ac.in; abheejeet911@gmail.com, Res: 338, Indian Institute of Technology Kanpur, Kanpur - 208016, Sp. Power network operation and planning & protection in the presence of renewable energy sources

**Mondal**, Sourav, b.1987, Ph.D. (IIT Kharagpur), Assistant Professor, Department of Chemical Engineering, Indian Institute of Technology Kharagpur, Kharagpur - 721302, Tel: Off : 03222-214580, Mob: 9547494036, Email: smondal@che.iitkgp.ac.in, Res: Ramas Residency, Choto Tengra, Kharagpur, Kharagpur, 721301, West Bengal, Sp. Fluid dynamics; Transport phenomena; Mass transport; Modelling and simulation

**Mukherjee**, Animesh , b.1979, Ph.D (IIT Kharagpur), Assistant Professor, Department of Computer Science and Engineering, Indian Institute of Technology Kharagpur, Kharagpur – 721302, Tel. Off. (03222) 283472, Res. (03222) 283473, Fax (03222) 278985, email. aimeshm@cse.iitkgp.ernet.in, sp. Social networks, web social media, social computation on the web as virtual laboratory, human language dynamics

**Mukhopadhyay**, Amartya, b. 1981, Ph.D., Associate Professor, High Temperature and Energy Materials Laboratory, Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Powai, Mumbai – 400076; Tel. Off: (022) 25767612; Res: (022) 25768612; Fax (022) 25726975; Email amartya\_mukhopadhyay@iitb.ac.in; sp. Engineering ceramics and composites, Materials for electrochemical energy storage

**Mukhopadhyay**, Anirban, b. 1979, Ph.D. (Jadavpur University), SMIEEE, MACM, Professor, Department of Computer Science and Engineering, University of Kalyani, Kalyani-741 235, Tel Off : 033-25809614, Res. 033-26728261, Fax : 033-25828282, Email : anirban@klyuniv.ac.in, anirbanbuba@yahoo.com, sp. Data mining, soft and evolutionary computing, bioinformatics

**Murali**, Kota, b.1980, Ph.D. (Massachusetts Institute of Technology, USA), Chief Technologist, D-3, First Floor, IBM India, Manyata Embassy Business Park, Nagawara, Bangalore -560045, Mob : 9740966884; Tele : (080) 40661231, Res. (080) 23602937, Fax : (080) 40663001, Email : kvrmurali@gmail.com, sp. Nano Devices and Technology

**Nath**, Digbijoy N, b.1985, Ph.D.(Ohio State University, USA); Assistant Professor, TF-05, Centre for Nano Science & Engineering (CeNSE), Indian Institute of Science, Bangalore-560012; Tel: Off.080-22932991; (M) 9632622703; Res: ND-15, Behind Janata Bazar, IISc. Campus, Bangalore; Email: nath.digbijoy01@gmail.com; digbijoy@iisc.ac.in; sp. Semiconductor devices and heterostructures, gallium nitride (GaN) based high electron mobility transistors (HEMTs) and deep-UV photodetectors, gallium oxide deep-UV opto-electronics

**Narendar**, S, b.1986, M.E.(Indian Institute of Science, Bangalore), Scientist D, Thermo-Structural Test Facility, Directorate of Materials and Structural Testing, Defence Research and Development Laboratory, Hyderabad – 500058, Tel. Off: (040) 24583772, (Mobile) 8897625977, Fax : (040) 24584587, Email : narendar@drdl.drdo.in, nanduslms07@gmail.com, sp. Thermo-Structural Testing and Wave Propagation in Nanostructures

**Nistala**, Harsha, b.1986, M.Tech., Scientist, Tata Consultancy Services Ltd., S. no. 238/239, Quadra, Opp. Magarpatta City, Hadapsar, Pune - 411028, Tel: Off: 020-66224444, Mob: 9709151280, Email: sriharsha.nistala@tcs.com, harsha.nistala@gmail.com, Res: Plot No. 8, Shree Bungalow, Santosh Society, Taljai Pathar, Dhankawadi, Pune - 411043, Sp. Process Modeling and Simulation Agglomeration (Sintering and Pelletization) Industrial Analytics (Predictive Modeling, Fault Detection, Diagnosis, Process Optimization, Predictive Maintenance) Industrial Digital Twins

**Padmanabhan**, Deepak, b.1981, Ph.D. (IIT Madras), SMACM, SMIEEE, Lecturer (Asst. Professor), 03.005, Computer Science Building, 18, Malone Road, Centre for Data Sciences and Scalable Computing, Queen's University Belfast, United Kingdom; Mob : +44-07459732064, Tel. Off. +44-02890974874, Res. "Sivakripa", KRRA 130A, Beena Anchumana Road, Edappally, Ernakulam-682024, Kerala, India, Tel. (0484) 2535152, Email : deepaksp@acm.org, sp. Information and Knowledge Management; Natural Language Processing

**Padwal**, Manisha B., b. 1981, Ph.D., Post Doctoral Fellow, Combustion Laboratory, Department of Aerospace Engineering, Indian Institute of Technology Kanpur, Kanpur – 208016; Tel. Off : (0512) 2597125; Res: (0512) 9889925159, 9935649852; Email : m\_padwal@yahoo.com.; sp. Propulsion: Atomization and Combustion

**Pattamatta**, Arvind, b. 1980, Ph.D. (State University of New York), Associate Professor, Heat Transfer and Thermal Power Laboratory, Department of Mechanical Engineering, Indian Institute of Technology Madras, Chennai-600 036; Tel. (044) 22574654, Email : arvindp@iitm.ac.in, sp. Computational Fluid Dynamics and Heat Transfer

**Patra**, Arpita, b. 1983, Ph.D.(IIT Madras), Associate Professor, Room No. 331, Department of Computer Science & Automation, Indian Institute of Science, Bangalore - 560012, Tele : Off. (080) 22932386, Fax : (080) 23602911, Email : arpita@csa.iisc.ernet.in, Res. ND-06, New Housing Colony, Indian Institute of Science, Bangalore - 560012, Res. (Mobile) 08861265180, Email : arpitapatra10@gmail.com, Sp. Cryptography.

**Patra**, Puneet Kumar, b.1988, Ph.D. (IIT Kharagpur), Assistant Professor, Assistant Professor, Dept. of Civil Engineering, Indian Institute of Technology Kharagpur, Kharagpur 721302, Tel: Off: 3222283414, Mob: 8777375201, 8777375201, Email: puneet.patra@civil.iitkgp.ac.in, Res: NFA - 46, IIT Kharagpur Campur, Indian Institute of Technology Kharagpur, Kharagpur - 721302, Sp. Nanomechanics Molecular Dynamics Computational Mechanics Multiscale Modeling

**Patel**, Amitkumar M, b. 1985, M.Sc.-Engineering (Homi Bhabha National Institute), Scientific Officer E, Institute for Plasma Research, Gandhinagar – 382428, Tele. Off.(079) 23962000, Fax : (079) 23269506, Email : ampatel@ipr.res.in, Res: 37 Sukhsagar Bunglows, Nicol-Naroda Road, Nicol, Ahmedabad-382330; sp. High Voltage Power Converters; Power Electronics; Converter for Nuclear Fusion and Particle Accelerators

**Patel**, Naimesh R, b. 1982, Ph.D.(Indian Institute of Space Science & Technology), Scientist/Engineer-SE, 4432, GLMD/OPMG/MESA, Space Application Centre, Indian Space Research Organisation(ISRO), Jodhpur Tekra, Ambawadi Vistar P.O., Ahmedabad – 380015, Tele : Off. (079) 26914432/31, Fax : (079) 26915851, Email : naimesh@sac.isro.gov.in, Res. E1/30, Vikram Nagar ISRO Colony, B/H- ISCON Temple, Ambli – Bopal Road, Ahmedabad – 380015, Res. (Mobile) 09879873587, Email : naimeshpatel28@gmail.com, sp. Opto-Mechanical design and development of optical payloads for imaging satellites.

**Pawar**, Samadhan Ananda, b.1988, Ph.D.(IIT Madras), Postdoctoral Researcher, Department of Aerospace Engineering, Indian Institute of Technology Madras, Chennai - 600036, Tel: Off: 044-22575027, Mob: 8838320184, Email: samadhanpawar@ymail.com, Res: Old No.-3B, New No.-34, Flat F3, Best Value Promotors, Orandi Amman Koil Lane, Velachery, Tamil Nadu, Chennai, 600042, Sp. Aerospace Propulsion, Unsteady Combustor Physics

**Pinjari**, Dipak Vitthal, b. 1981, Ph.D. (Tech), UGC Assistant Professor , National Center for Nanoscience and Nanotechnology, University of Mumbai Kalina campus, Santacruz (East), Mumbai – 400098; Tel. Off : 9967719496, Res. B/204, Safal Pride, Plot. No.1, Sector – 25, Nerul (East), Navi Mumbai – 400706; Mob: 9967719496; Email dv.pinjari@nano.mu.ac.in, dpinjari@gmail.com; sp. Chemical Engineering and Technology, Material Science and Engineering, Sustainable Process Development

**Pramanick**, Sumit Kumar, b.1989, Ph.D.(IISc.,Bangalore); Assistant Professor, Department of Electrical Engineering, Indian Institute of Technology, Delhi, Hauz Khas, New Delhi-110016; Tel: Off. 011-26591073; Res: Indraprastha

Apartment No.7, IIT Delhi Campus, Hauz Khas, New Delhi-110016; Tel : 011-26591970; Fax : 011-26596102; Mob: 9686907200; Email: spramanick@ee.iitd.ac.in; sumit8989@gmail.com; sp. Power Electronics and Drives

**Prasad**, MJNV, b.1978, Ph.D. (Indian Institute of Science, Bangalore), Associate Professor, Department of Metallurgical Engineering & Materials Science, Indian Institute of Technology, Bombay, Powai, Mumbai - 400076 , Tele : Off. (022) 25767642, Res. (022) 25768642, Fax : (022) 25726975/3480, Email : mjnvprasad@iitb.ac.in, mjnvprasad@gmail.com, sp. Mechanical behavior of metallic materials, Electrodeposition, Microstructural investigation

**Raghvendra Sai**, V.V., b.1981, Ph.D. (Biomedical Engg.), Associate Professor, Biomedical Engineering, Department of Applied Mechanics, Indian Institute of Technology Madras, Chennai-600 036; Tel. (044) 22574076, Res. D17-10, Adyar Avenue, IIT Madras Campus, Chennai – 600036; Tel: (044) 22576076, Fax. (044) 22574052, Email : vvsai@iitm.ac.in, vvsai@gmail.com, sp. Biomedical Engineering, Medical Sensors

**Rajawat**, Ketan, b. 1984, Ph.D.(University of Minnesota, USA), Assistant Professor, Department of Electrical Engineering, Indian Institute of Technology Kanpur, Kanpur – 208016, Off. Tel:(512)2597337, (Mobile)8601966020, Fax : (512)2596020, Email : ketan@iitk.ac.in, ketanrajawat@gmail.com, sp. Signal Processing in Networks

**Rajulapati**, Koteswararao V, b.1979, PhD, M. Tech., B. Tech., Professor, School of Engineering Sciences and Technology, University of Hyderabad, Central University (P.O), Prof. C. R. Rao Road, Gachibowli, Hyderabad 500046, Tele. Off.(040) 23134452, Webpage: <https://www.kvrajulapati.in/>; email : kvrse@uohyd.ernet.in, koti.rajulapati@gmail.com, Res. 402 Sundari Mansion, Plot. 73, Gautami Enclave, Near Chirec School, Kondapur, Hyderabad 500084; (Mobile): 9959998228; sp. Nanomechanics, High-entropy Alloys, Next Generation Superalloys, Advanced High Strength Steels, Mechanical Behavior of Materials

**Raj**, Rishi, b. 1984. Ph.D. (University of Maryland, College Park, MD, USA), Associate Professor, R 113, Block 3, Department of Mechanical Engineering, Indian Institute of Technology Patna, Bihar – 801103. Tele. Off .(0612) 3028166, Res. 08292339322, Email : rraj@iitp.ac.in, rraj.iitg@gmail.com, sp. Energy, Boiling, Condensation, Micro- /Nano-Scale Thermal and Fluidic Transport, Colloids and Interface Science, Microgravity Science

**Ramanathan**, Karthik, b.1980, Ph.D.(University of Houston, Texas, USA), Senior Member of Technical Staff, CAE Center of Excellence Simulation Center of Competence, Applied Materials India Private Limited, 6th Floor, Inventor Building, International Technology Park, Whitefield Road, Bangalore –560066, Tele : Off. (080) 66283787, Fax : (080) 41156070, email : karthik.ramanathan@gmail.com sp. Chemical Reaction Engineering, Mathematical Modeling of Reaction and Transport Processes, System Modeling, Process Control

**Reddy**, GV Prasad, b.1979, Ph.D. (IIT Madras), Assistant Professor, Homi Bhabha National Institute, Kalpakkam, Scientific Officer-F, Head, Creep Studies Section, Materials Development and Technology Division, Metallurgy and Materials Group, Room No.: 211, INSOT building, Indira Gandhi Centre for Atomic Research, Kalpakkam – 603102, Tele : Off. 044-27480500-21212 / 22216; Res. Tel: (044) 27480500 Extn 85012, Fax : (044) 27480075, Email: prasadreddy@igcar.gov.in, varprasad@gmail.com, sp. Creep, low cycle and thermomechanical fatigue and creep-fatigue interaction behavior of stainless steels and ferritic-martensitic steels. Micromechanisms of Creep and Cyclic deformation and fracture. Development of Nuclear Structural Materials for Fast reactors, Fusion reactors and Advanced Ultra Supercritical power plants.

**Rengan**, Aravind Kumar, b. 1983, Ph.D.(IIT Bombay), Assistant Professor, Department of Biomedical Engineering, Room No.417, E Block, Indian Institute of Technology, Hyderabad, - 502285, Tele. Off.(040)23016143, Res. (M)09820709927, Fax : (040)23016003/32, Email : akr@iith.ac.in, sp. Biomedical Engineering (Nanotechnology)

**Roy**, Chaudhuri Chirasree, b. 1979, Ph.D (Jadavpur University, Kolkata), Associate Professor, Department of Electronics and Telecommunication Engineering, Bengal Engineering and Science University Shibpur, Howrah – 711103, Tel. Off. (033) 26684561; Res. (033) 25219590, Fax : (033) 26689269, email: chirashree@ telecom.becs.ac.in, chirosreepam@yahoo.com, chirosreepam@gmail.com, sp. Nanostructured biosensor and gas sensor systems, microelectronic devices

**Ruth**, Josephine Selvarani, b.1987, Ph.D.(NIT, Tiruchirapalli); DST INSPIRE Faculty Fellow, III-Floor SID Buliding, Robert Bosch Centre for Cyber Physical Systems, Indian Institute of Science, Bangalore-560012; Tel: Off.080-

22933430; Res: Plot No.37, Carmel Garden Golden City, Tiruverumbur, Tiruchirapalli-620013; (M) 9487256932; Email: rjosephine@iisc.ac.in; djsruth@gmail.com; sp. Instrumentation and control Engineering

**Saini**, Supreet, b. 1983, Ph.D.(University of Illinois, Urbana-Champaign,USA), Associate Professor, Department of Chemical Engg., Indian Institute of Technology Bombay, Powai, Mumbai - 400076, Tele : Off. (022) 25767216, Fax : (022) 25726895, Email : [saini@che.iitb.ac.in](mailto:saini@che.iitb.ac.in), Res. HPS - 04, Vihar House, Opposite QIP Tower, Hill Side, IIT Bombay, Powai, Mumbai – 400076, Res. Tele : (022) 25726895, (Mobile) 09167436420, Email : [saini@che.iitb.ac.in](mailto:saini@che.iitb.ac.in), sp. Mechanical behaviour of materials with emphasis on electric field and length scale effects, Mechanics and materials related reliability issues in microelectronics packages, Electromigration and its constructive engineering applications.

**Saha**, Chandan, b. 1982, Ph.D., Assistant Professor, Department of Computer Science and Automation, Indian Institute of Science, Bangalore – 560012; Tel. Off: (080) 22932911; Res. 07760570449; Fax. (080) 23602911; Email: [chandan@csa.iisc.ernet.in](mailto:chandan@csa.iisc.ernet.in); sp. Computational Complexity Theory and Algorithms.

**Sahoo**, Dipti Ranjan, b.1978, Ph.D (IIT Kanpur), Associate Professor, Department of Civil Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi – 110016. Tele.Off. (011) 26591203, Res (011) 26596863, Fax (011) 26581117, email : [drsahoo@civil.iitd.ac.in](mailto:drsahoo@civil.iitd.ac.in), [rsdipti@gmail.com](mailto:rsdipti@gmail.com), sp. Structural Engineering, Earthquake Engineering, Seismic analysis and design of Steel and Concrete Structures

**Sarma**, Santanu b. 1977, M.Tech (IIT Guwahati), Scientist/Engineer-SE, ISRO Satellite Centre, Control Systems Group, Vimanapura PO, Airport Road, Bangalore – 560017, Tele. Off. (080) 25082343, Res. (080) 25228404, Fax : (080) 25082306, email : [sarma\\_santanu@yahoo.com](mailto:sarma_santanu@yahoo.com), sp. Signal Processing

**Sathish**, M., b. 1990, Ph.D.(Anna University, Chennai); Scientist, CSIR-Central Leather Research Institute, Regional Centre for Extension and Development, 3/1C, Matheswartala Road, Kolkata-700046; Res: N-57, Aashyakulam, Salamedu, Villupuram-605602; Mob:9952981456; Email: [sathish@clri.res.in](mailto:sathish@clri.res.in); sp. Leather Technology

**Sen**, Ashis Kumar, b.1979, Ph.D.(University of South Carolina-Columbia, USA), LMISHMT, LMISSS, Professor, Department of Mechanical Engineering, Indian Institute of Technology Madras, Chennai – 600036, Tele : Off. (044) 22574716, Res. (044) 22576716, Fax : (044) 22574652, email : [ashis@iitm.ac.in](mailto:ashis@iitm.ac.in), [ashisen@gmail.com](mailto:ashisen@gmail.com), sp. Microfluidics, MEMS

**Seshagiri Rao, A, b.** 1979, Ph.D. (IIT Madras), Associate Professor, Department of Chemical Engineering, National Institute of Technology Warangal, Hanamkonda-Kazipet Highway, Warangal-506 004, Tel. Off : 0870-262628, Mob : 8332969407, Fax : 0870-2459119, Email : seshagiri@nitw.ac.in, raoseshu@gmail.com, sp. Process Dynamics and Control.

**Shankar Ram, CS, b.** 1979, Ph.D (Texas A&M University), Professor, 213, Department of Engineering Design, Indian Institute of Technology Madras, Chennai – 600036, Tele. Off. (044) 22574705, Res. (044) 22576705, Fax : (044) 22574732, email : shankarram@iitm.ac.in, sp. Automotive Engineering

**Shah, Kushal K, b.** 1981, Ph.D., Associate Professor, Department of Electrical Engineering and Computer Science, IISER Bhopal, Bhopal Bypass Road, Bhauri, Bhopal – 462066, Madhya Pradesh, India, Tele. Off. 755-2691471, Res.(011)-26591615, Fax : 755-6692392, Email : kushals@iiserb.ac.in, sp. Electrical Engineering (Communication Stream).

**Sharma, Ishan, b.**1978, Ph.D. (Cornell University), Associate Professor, 213 B, Northern Labs I, Department of Mechanical Engineering, Indian Institute of technology Kanpur, Kanpur -208016 Tele : Off. (0512) 2596152, Res.(0512) 2598397, Fax : (0512) 2597408, Email : ishans@iitk.ac.in, sp. Applied Mechanics

**Sheikh, JN, b.**1984, Ph.D.(ICT, Mumbai), Assistant Professor, Department of Textile Technology, Indian Institute of Technology Delhi, Hauz Khas, New Delhi – 110016, Off. Tel:(011)26591465, Res.(011)26591662, (Mobile)9823786165, Email : jnsheikh@iitd.ac.in, javedtextech@gmail.com, sp. Fibres & Textile Processing Technology

**Shrivastava, Mayank, b.** 1984, M.Tech.(IIT Bombay), Assistant Professor, Department of ESE, Indian Institute of Science, Bangalore – 560012, Tele : Off. (080) 22932732, Email : mayank@dese.iisc.ernet.in, Res. NE 313, Indian Institute of Science, Bangalore – 560012, Res. (Mobile) 09591140309, Email : shrivastva.mayank@gmail.com, sp. Nanoelectronic Devices, Power Semiconductor and System on Chip.

**Shukla, Anoop Kumar, b.** 1980, Doctor of Philosophy (IIT Kanpur), Scientist/Engineer SE, SMF/MMG/MME, Vikram Sarabhai Space Centre, Trivandrum-695 022, Tel. Off : 0471-2563607, Mob.09447957603, Fax : 0471-2705048, Email : anoop\_kumar@vssc.gov.in, anoop\_shukla80@yahoo.com, sp. Materials Engineering



**Shukla, Rohit, b. 1980,** Ph.D.(Physical Sciences), Scientific Officer 'F', PEG-1, Gandhivanipalem Village, Dossuru Panchayat, Atchyutapuram Mandal, Visakhapatnam-530011; Res. 9-15-18, First Floor, CBM Compound, Visakhapatnam-530003; Mob. 08912723472, , Email : rshukla@barc.gov.in, rohit.ipr@gmail.com, sp. Pulsed Power, Plasma Science and Nuclear Science

**Singh, Jasbir, b.1980,** B.Tech (Electronics & Communications), Product Architect (Auto Radar), Texas Instruments India, Bagmane Tech Park, #66/3, Adjacent to LRDE, Byrasandra, CV Raman Nagar Post, Bangalore-560 093; Tel. Off. (080) 25048265, Fax. (080) 25048111, Email: Jasbir@ti.com, Jasbir.nayyar@gmail.com, sp. Global Navigation Satellite Systems, Automotive Radars, Automotive Safety

**Singh, Swatantra Pratap, b.1985,** Ph.D.(IIT Kanpur); Assistant Professor, Department of Environmental Science and Engineering, Indian Institute of Technology Bombay, Mumbai, 400076; Tel: Off. 022-25767859, Fax: 022-25764650; Res: Sh-22, Staff Hostel, IIT Bombay; Tel: 022-25768859; Mob: 9136125308; Email: director@iitb.ac.in; registrar@iitb.ac.in; sp. Environmental Engineering

**Sitara, Brajnish, b.1981, B.Sc (Engg.), (Jamshedpur),** Scientist 'D', Inertial Navigation System Division, Directorate of Inertial Systems, Navigation Complex, Research Centre Imarat, DRDO, Vignyanakancha P.O., Hyderabad – 500069, Tele.Off. (040) 24306124 Res.(040) 24094579, Fax.(040) 24306626, email. sitara.brajnish@rcilab.in, brajnish\_sitara@yahoo.com, sp. Inertial navigation

**Sivaprakasam, Mohanasankar, b. 1980, Ph.D ( University of California, Santa Cruz, U.S),** Assistant Professor, Department of Electrical Engineering, Indian Institute of Technology Madras, Chennai – 600036; Tel : (044) 22574454, (044) 22574402, Email: mohan@ee.iitm.ac.in; sp. Medical devices, diagnostics and instrumentation

**Srikanth, VVSS, b.1979, Dr-Ing Germany),** Professor, School of Engineering Sciences and Technology, University of Hyderabad, Central University (P.O.), Prof. C.R. Rao Road, Gachibowli, Hyderabad – 500046. Tele. Off. (040) 23134453, Res. (040)23230022, Fax. (040) 23011087, email: vvssse@uohyd.ernet.in, sp. Synthesis, structure-property correlation and functionalization of carbon nanomaterials Nanocomposite materials Non-destructive testing.

**Srivastava, VC**, b.1978, Ph.D.(IIT Roorkee), Professor and Head, Department of Chemical Engineering, Indian Institute of Technology, Roorkee-247667, Tele. Off. (01332) 285889, Res. (01332) 286889, Fax . (01332) 276535, email. vimal.srivastava@ch.iitr.ac.in, vimalcsr@yahoo.co.in, sp. industrial pollution abatement, wastewater treatment, multi-component adsorption, desulfurization, statistical design.

**Supradeepa, VR**, b. 1984, Ph.D.(Purdue University, USA), Assistant Professor, Centre for Nano Science and Engineering, Indian Institute of Science, Bangalore – 560012, Off. Tel:(080)22932995, Res.(080)28613636, (Mobile)8277155752, Fax : (080)23604656, Email : supradeepa@iisc.ac.in, supradeep.vr@gmail.com, sp. Photonics and Lasers and Optical Communications , RF Photonics

**Suresh Kumar, N**, b.1981, Ph.D., Principal Member - Transmission R&D, Tractors and Farm Equipment Ltd. (TAFE), R&D Division, Huzur Gardens, Sembiam, Chennai – 600011; Mob : 9841214503; Tel. Off : (044) 66922358; Res : 9841214503; Fax: (044) 66922080/2081; Email: sureshrao@tafe.com; sp. Automotive driveline system and Advanced clutch and clutch controls

**Suri, Manan**, b.1987, Ph.D.(Grenoble Institute of Technology (INPG), France, Associate Professor, 115, Block 2, Department of Electrical Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi - 110016, Tel: Off., 8860054190, Fax: 011-26597135, Email: manansuri@ee.iitd.ac.in, Res: B-40, Second Floor, Kailash Colony, New Delhi - 110048, Sp. Electronics & Communication Engineering

**Tiwary, Chandra Sekhar**, b.1986, Ph.D.(IISc.,Bangalore), Assistant Professor, Department of Metallurgical and Materials Engineering, Indian Institute of Technology Kharagpur, Kharagpur - 721302, Tel: Off., 8078317531, Email: Cst311@gmail.com, Chandra.tiwary@metal.iitkgp.ac, Res: MSA3/6, Indian Institute of Technology Kharagpur, Kharagpur - 721302, Sp. Metallurgical and Materials Engineering

**Tolani, Harshita**, b. 1984, M.Tech., Scientist/Engineer-SE, MSR/MSTG/MRSA, Space Applications Centre, Indian Space Research Organisation, Jodhpur Tekra, Ambavadi Vistar, Ahmedabad – 380058; Tel.Off: (079) 26915219; Res. (079)9924463899; Email: harshita@sac.isro.gov.in; sp. RF & Microwave Engineering.

**Toley**, Bhushan Jayant, b.1984, Ph.D.(University of Massachusetts Amherst, USA), Assistant Professor, Chemical Engineering Department, Indian Institute of Science, Bangalore – 560012, Tel. Off:(080)22933114, (Mobile)9146142296, Fax : (80)23608121, Email : bhushan@iisc.ac.in, toleybhushan@gmail.com, sp. Microfluidics and Point-of-Care Diagnostics

**Tomar**, Gaurav, b.1981, Ph.D. (IIT Kanpur), Assistant Professor, 303, Department of Mechanical Engineering, Indian Institute of Science, Bangalore – 560012, Tel. Off. (080) 22933062. Fax. (080) 23600648, email.gtom@mecheng.iisc.ernet.in, gaurav.tomar03@gmail.com, sp. Two phase flows, interfacial instabilities, computational heat and mass transfer.

**Uday Kumar**, Reddy B., b. 1982, Ph.D., Associate Professor, Department of CSA, Indian Institute of Science, Bangalore – 560012; Tel. Off: (080) 22933249; Res. (080) 23601491; Email: udayreddy@gmail.com; sp. Compilers for multicore processors, Domain-specific languages and compilers, Automatic parallelization, Parallel and high performance computing.

**Varshney**, Pushkar, b.1986, M.Tech., Senior Research Manager, Light End Processing, Refining Technology, Indian Oil R&D Centre, Sector 13, Faridabad - 121007, Haryana, Tel. Off: 0129-2294649, Mob: 9811978862, Email: varshneyp@indianoil.in; Res: House No.46, Ist Floor, Sector 9, Faridabad - 121006, Sp. Refining Technology Modeling & Simulation

**Vaze**,Rahul,b.1980,Ph.D.(TheUniversityofTexasatAustin,USA)Reader,School of Technology and Computer Science, Tata Institute of Fundamental Research, Homi Bhabha Road, Navy Nagar, Mumbai – 400005, Tele : Off. (022) 22782549, Fax : (022) 22782299, email : vaze@tcs.tifr.res.in, sp. Wireless Communication

**Wahi**, Pankaj, B.1979, Ph.D.(Indian Institute of Science, Bangalore), Associate Professor, Nonlinear Mechanics Laboratory, Mechanical Engineering Department, Indian Institute of Technology Kanpur, Kanpur – 208016, Tele : Off. (0512) 2596092, Res. (0512) 2598268, Fax : (0512) 2597408, email : wahi@iitk.ac.in, pankajwahi@gmail.com, sp. Dynamics, Vibrations and Controls, Reduced order modeling, Characterization and Control of instabilities in higher dimensional systems.

**Yalavarthy**, Phaneendra Kumar, b.1979, Ph.D. (Dartmouth College, USA), Associate Professor , Department of Computational and Data Sciences (CSA), Indian Institute of Science, Bangalore – 560 012, Tele : Off.(080) 22932496, Res. (080) 23604008, Fax : (080) 23606332, email : phani@iisc.ac.in, phaneendra.k.yalavarthy@gmail.com, sp. Biomedical Engineering; Medical Imaging

### Election of Fellows w.e.f. November 1, 2021

1. **Prof. Kantesh Balani**, Professor & Head, Advanced Centre for Materials Science, Professor, Department of Materials Science and Engineering, Indian Institute of Technology Kanpur.
2. **Mr. AK Balasubrahmanian**, Director(Technical) Retired, Nuclear Power Corporation of India Limited, Mumbai.
3. **Prof. Saikat Chakrabarti**, Professor, Department of Electrical Engineering, Indian Institute of Technology Kanpur.
4. **Prof. Yogesh Singh Chauhan**, Professor, Dept. of Electrical Engineering, Indian Institute of Technology Kanpur.
5. **Dr. Lipika Dey, Principal Consultant**, IIT Delhi Research Park, New Delhi.
6. **Prof. Ravindra D Gudi**, Professor, Department of Chemical Engineering, IIT Bombay, Mumbai.
7. **Prof. M Kamaraj, Professor**, Department of Metallurgical and Materials Engineering, IIT Madras, Chennai.
8. **Mr. Vikram Kirloskar**, Chairman and Managing Director, Kirloskar Systems Limited Company, Bangalore.
9. **Dr. Amol A Kulkarni**, Senior Principal Scientist, Chemical Engineering and Process Development Department, National Chemical Laboratory, Pune.
10. **Prof. Giridhar Udapi Rao Kulkarni**, President, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) Bengaluru.
11. **Dr. Ajay Kumar, Secretary**, Department of Defence, Govt of India, Defence Secretary, Ministry of Defence, New Delhi.
12. **Prof. Saurabh Lodha**, Professor, Department of Electrical Engineering, Department of Electrical Engineering, IIT Bombay, Mumbai.
13. **Prof. Jyotsna Dutta Majumdar**, Professor, Metallurgical and Materials Engineering Department & Chairperson, Central Research Facility, Department of Metallurgical and Materials Engineering, Indian Institute of Technology Kharagpur.
14. **Dr. Sathya Prasad Mangalaramanan**, Vice President, Product Development, Ashok Leyland Technical Centre, Tamil Nadu.
15. **Prof. Vasant A Matsagar, Dogra**, Chair Professor, Department of Civil Engineering, Indian Institute of Technology Delhi.

16. **Prof. Mira Mitra**, Associate Professor, Department of Aerospace Engineering, Indian Institute of Technology Kharagpur.
17. **Dr. Ajit Kumar Mohanty**, Director, Bhabha Atomic Research Centre, Mumbai.
18. **Prof. Suparna Mukherji**, Professor and Head, Treatment Remediation and Applied Microbiology (TRAM) Lab, Environmental Science and Engineering Department (ESED), IIT Bombay, Mumbai.
19. **Prof. Debdeep Mukhopadhyay**, Professor, Department of Computer Science and Engineering, Indian Institute of Technology Kharagpur.
20. **Mr. Raghavan Muralidharan**, Chief Technology Officer, Tata Advanced Systems Ltd., Mumbai.
21. **Dr. SVS Narayana Murty**, General Manager, Materials and Mechanical Entity, Head, MCD, MMG, VSSC Trivandrum.
22. **Dr. BK Nashine**, Outstanding Scientist and Director ESG, Associate Director SFG, Indira Gandhi Centre For Atomic Research Kalpakkam, Tamil Nadu.
23. **Dr. Sunder Ramasubbu**, Research Director, BISS Division, ITW-India (P) Ltd, Moscow, Russia.
24. **Dr. Ramachandran Ramjee**, Senior Principal Researcher, Microsoft Research Lab-India Bangalore.
25. **Dr. Satyam Suraj Sahay**, Head, Advanced Engineering, John Deere Technology Center India, Pune.
26. **Prof. Viswanathan Shankar**, Professor, Department of Chemical Engineering, IIT Kanpur.
27. **Prof. Atul Sharma**, Professor, Department of Mechanical Engineering, Indian Institute of Technology, Bombay.
28. **Dr. Gautam Shroff**, Senior Vice President and TCS Fellow, Chief Scientist & Head, Tata Consultancy Services, New Delhi.
29. **Ms. Vartika Shukla**, Chairman & Managing Director, Engineers India Limited, New Delhi.
30. **Dr. BK Sreedhar**, Head, Sodium Experiments and Hydraulic Division, Reactor Design and Technology Group, Tamil Nadu.
31. **Prof. Rohit Srivastava**, Professor and Head, Department of BSBE, Professor, Department of Biosciences and Bioengineering, IIT Bombay, Mumbai.

32. **Prof. KVL Subramaniam**, Professor, Department of Civil Engineering, I.I.T. Hyderabad, Telangana.
33. **Dr. Ramesh Sundaram**, Chief Scientist, Head, Advanced Composites Division, National Aerospace Laboratories, Bangalore.
34. **Prof. Susmita SurKolay**, Professor (HAG), Advanced Computing and Microelectronics Unit, Indian Statistical Institute, Kolkata.
35. **Dr. Rahul Tongia**, Sr. Fellow, CSEP, Brookings India New Delhi.
36. **Prof. Sandeep Verma**, Secretary, Science and Engineering Research Board, New Delhi.

### **Foreign Fellows**

1. **Prof. Arup K Chakraborty**, Robert T. Haslam Professor of Chemical Engineering, Professor of Physics, Professor of Chemistry, Massachusetts Institute of Technology, USA.
2. **Prof. Jurgen Eckert**, Director, Erich Schmid Institute of Materials Science of the Austrian Academy of Sciences and Full Professor (Chair Materials Physics), Montanuniversität Leoben, Dept. of Materials Science, Austria,
3. **Prof Ned Mohan**, Regents Professor, Department of Electrical and Computer Engineering, University of Minnesota, USA.
4. **Mr. Sundar Pichai**, CEO, Google and Alphabet, USA.
5. **Prof. Mike (Michael) Jon Schlaich**, Professor, Chair of Conceptual and Structural Design, Managing Director, Technische Universität Berlin, Germany.
6. **Prof. Palghat P Vaidyanathan**, Professor of Electrical Engineering, California Institute of Technology, USA.
7. **Prof. David Jeffery Wineland**, Philip Knight Distinguished Research Chair, Department of Physics, University of Oregon, USA.
8. **Prof. Andrew Zisserman**, Royal Society Research Professor, Dept of Engineering Science, University of Oxford, UK.

# **Fellowship Engineering Sections**





## FELLOWSHIP – ENGINEERING SECTIONS

### SECTION-I

#### *(Civil Engineering)*

#### ACADEMIA

S. No.	Name	Year of Birth	Specialization
1.	Aswatha Narayana, PA	1940	Fluid Mechanics, Non-Conventional Energy
2.	Bhattacharya, B	1968	Nanomechanics; Probabilistic Mechanics
3.	Bhattacharyya, SK	1957	Fluid-Structure Interactions; Structural Engineering
4.	Chakraborty, Subrata	1969	Structural Engineering, Probabilistic and Computational Mechanics
5.	Chandrashekhara, K	1934	Structural Mechanics including Experimental Mechanics
6.	Chaturvedi, MC	1925	Water Resources, Environmental Systems
7.	Chauhan, HS	1936	Irrigation & Drainage Engineering, Agricultural Engineering
8.	Chawla, AS	1935	Ground Water, Irrigation Water Management
9.	Datta, TK	1944	Structural Dynamics, Offshore Engineering
10.	Dayaratnam, P	1932	Structural Engineering, Prestressed Concrete Structures
11.	Deo, MC	1954	Civil Engineering; Ocean Engineering
12.	Dey, Subhasish	1958	Hydrodynamics, Fluvial Hydraulics
13.	Ghangrekar, MM	1969	Environmental Engineering, Wastewater Treatment
14.	Gettu, R	1962	Concrete Technology; Structural Engineering
15.	Gupta, Ashok Kumar	1969	Water Treatment, Wastewater Management and Reuse; 2. Smart Water Supply System
16.	Gupta, VK	1962	Stochastic Earthquake Engineering
17.	Iyengar, RN	1943	Structural Dynamics, Disaster Mitigation
18.	Jain, Sudhir K	1959	Earthquake Engineering, Structural Engineering
19.	Kant, T	1946	Computational Structural Mechanics; Mechanics of Polymer Composite Laminates

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|-----|---------------------|------|--|
| 20. | Kapuria, S          | 1968 | Smart Structures; Computational Structural Mechanics                 |
| 21. | Kaushik, SK         | 1944 | Structural Engineering; Cement Composites                            |
| 22. | Khanna, SK          | 1932 | Transportation Engineering   |
| 23. | Krishna, Prem       | 1938 | Structural Engineering, Wind Engineering, Long Span Structure        |
| 24. | Lakshmana Gowda, BH | 1942 | Fluid Mechanics  |
| 25. | Madhav, MR          | 1940 | Geotechnical and Ground Engineering                                  |
| 26. | Matsagar, Vasant    | 1976 | Structural Engineering   |
| 27. | Mohan, S            | 1959 | Environmental Engineering; Water Resources Engineering               |
| 28. | Mujumdar, PP        | 1958 | Water Resources Engineering; Hydrologic Impacts of Climate Change    |
| 29. | Mukherjee, Abhijit  | 1959 | Structural Engineering; Structural Rehabilitation & Retrofits        |
| 30. | Murty, CVR          | 1963 | Earthquake Engineering; Structural Engineering                       |
| 31. | Narasimhan, S       | 1930 | Water Resources and Ocean Engineering                                |
| 32. | Ojha, CSP           | 1962 | Environmental Hydraulics; Water Resources Engineering                |
| 33. | Philip, Ligy        | 1968 | Environmental Engineering; Civil Engineering                         |
| 34. | Rai, Durgesh C      | 1966 | Earthquake Engineering   |
| 35. | Rajasekaran, S      | 1942 | Structural Engineering, Artificial Intelligence                      |
| 36. | Raju, VS            | 1940 | Geotechnical Engineering, Ocean Energy                               |
| 37. | Ramakrishnan, CV    | 1943 | Computational Mechanics, Structural Mechanics                        |
| 38. | Ranga Raju, KG      | 1942 | Fluvial Hydraulics, Industrial Aerodynamics                          |
| 39. | Rao, GV             | 1945 | Geotechnical & Environmental Engineering, Transportation Engineering |
| 40. | Roy, Debasish       | 1967 | Computational Solid Mechanics; Stochastic Structural Dynamics        |
| 41. | Sharma, Mukesh      | 1959 | Air Quality and Pollution Control; Environmental Engineering         |
| 42. | Sikdar, PK          | 1947 | Traffic Engineering, Transport Planning                              |
| 43. | Singh, DN           | 1965 | Soil Mechanics & Foundation Engineering, Environmental Geomechanics  |

44.	Sridharan, A	1937	Environmental Geotechnique, Flyash Engineering
45.	Subba Rao, KS	1941	Soil Mechanics, Foundation Engineering
46.	Subramaniam, KVL	1972	Structural Engineering, Mechanics and Concrete Technology
47.	Sundaravadivelu, R.	1955	Ocean Structures; Port & Harbour Structures
48.	Sundar, V	1953	Coastal Engineering; Wave Structure Interaction
49.	Swamee, PK	1940	Water Resources Engineering; Fluid Mechanics
50.	Swaminadhan, D	1938	Structural Engineering, Education and Technology
51.	Thakkar, SK	1941	Structural Dynamics, Earthquake Engineering
52.	Tripathi, SN	1971	Environmental Science and Engineering; Atmospheric Sciences

### **R&D**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1.	Agnihotri, VK	1940	Railways and Civil Engineering
2.	Appa Rao, TVSR	1941	Computer Aided Analysis and Design of Structures
3.	Arunachalam, S	1957	Civil Engineering; Wind Engineering
4.	Basu, PC	1951	Earthquake Engineering; Concrete Mechanics
5.	Bhandari, RK	1941	Geotechnical Engineering
6.	Chitale, MA	1934	Water Resources Development & Management
7.	Dhir, MP	1935	Highway Engineering, Geotechnical Engineering
8.	Gopalakrishnan, M	1943	Water Resources Development and Management; Geotechnical Engineering
9.	Gupta, SK	1949	Irrigation and Drainage Engineering; Ground Water Resource Utilization

10.	Iyer, NR	1952	Computer-aided Analysis and Design of large & complex Structures for Static, non-linear & transient dynamics and Software Development; Performance Evaluation of Structures
11.	Kamra, SK	1954	Subsurface Drainage; Groundwater Recharge
12.	Koteswara Rao, PC	1940	Design of Nuclear Civil Structures, Construction Management and Special Shielding Concretes
13.	Rajaram, B	1945	Structures
14.	Sharda, VN	1954	Soil and Water Conservation Engineering; Watershed Management
15.	Sharma, VC	1954	Construction Technology/Management, Railway Technology
16.	Singh, SR	1942	Irrigation and Drainage Engineering, Agricultural Engineering
17.	Tarapore, ZS	1933	Hydraulics and Sediment Transport
18.	Thatte, CD	1935	Water Resources Development & Management, Geotechnical Engineering
19.	Tyagi, NK	1947	Water Management; Environmental Issues

## INDUSTRY

S. No.	Name	Year of birth	Specialization
1.	Bhowmick, Alok	1959	Bridge Engineering; Structural Engineering
2.	Bongirwar, PL	1945	Execution of Mega Highway Projects; Cost effective village roads
3.	Chakraborty, SS	1937	Expressways, Bridges, Resources Management
4.	Chowdhury, S	1954	Cement and Concrete Technology, Utilization of Industrial Waste
5.	Dharap, VM	1937	Construction Technology, Management of Construction Contracts
6.	Heggade, VN	1962	Civil Engineering Structural Engineering Construction Management Business Management

7.	Madan, MM	1954	Hydro Power Development; Underground Construction
8.	Narain, Jagdish	1937	Advance Construction Management
9.	Raghavan, N	1949	Civil Engineering, Structural Engineering
10.	Rangaswami, KV	1944	Civil Engineering/Construction
11.	Rao, PS	1936	Concrete Structure; Steel Structures
12.	Roy, BC	1944	Structural Engineering; Transit Structures
13.	Sheth, Alpa	1963	Tall Buildings; Earthquake Engineering
14.	Singh, Mangu	1955	Railway Engineering; Underground Construction
15.	Sreedharan, E	1932	Railway Construction, General Administration
16.	Subramanian, Narayanan	1951	Structural Engineering; R.C. and Steel Design
17.	Subrahmanyam, SN	1960	Civil Engineering; Construction Management
18.	Sudhir Chandra, BS	1943	Project Planning & Management; Construction of Bridges, Railway Track and Maintenance
19.	Tandon, MC	1941	Design of Major Structural Engineering Projects
20.	Varangaonkar, RD	1943	Contracts Management; Construction of Hydroelectric Projects

## FOREIGN FELLOWSHIP

S. No.	Name	Year of Birth	Specialization
1.	Badoux, John C	1935	Structural Engineering Analysis and Design
2.	Banthia, Nemkumar	1959	Structural Engineering; Materials Science
3.	Bažant, ZP	1937	Structural Engineering (esp. concrete); Mechanics of materials and Structures
4.	Desai, CS	1936	Constitutive modeling of engineering materials; Computational Mechanics
5.	Kareem, Ahsan	1947	Structural Engineering; Wind Effects on Structures
6.	Kodur , Venkatesh Kumar	1962	Civil (Structural) Engineering; Structural Fire Engineering
7.	Mehta, KC	1936	Wind Engineering; Structural Engineering
8.	Morgenstern, Norbert R	1935	Civil and Environmental Engineering
9.	Schlaich, Mike (Michael) Jon	1960	Lightweight structures/renewable energy
10.	Shah, Surendra P	1936	Civil Engineering; Materials Science
11.	Spanos, Pol D	1950	Structural Dynamics; Stochastic Analysis
12.	Srinivasan, S	1933	Special Structures; Long-Span Bridges
13.	Tamura, Yukio	1946	Wind Engineering; Vibration Control
14.	Trifunac, MD	1942	Civil Engineering; Geophysics
15.	Virlogeux, Michel Paul	1946	Structural Engineering Bridges

**INAE YOUNG ASSOCIATES ON ROLL**

<b>S. No.</b>	<b>Name</b>	<b>Specialization</b>
1.	Ali, Shaikh Faruque	Applied Mechanics, Structural Vibration, Control and Energy Harvesting
2.	Anoop Krishnan, N. M	Physics- and data-based modeling of materials
3.	Ghosh, Subimal	Water Resources Engineering
4.	Gupta, Tarun	Environmental Engineering (air pollution measurement and control)
5.	Kota, Sri Harsha	Air Quality, Climate Change, Environmental Engineering, Civil Engineering
6.	Kumar, Dr. Abhishek	Earthquake Geotechnical Engineering
7.	Mishra, Sudib Kumar	Seismic Vibration Control, Structural Health Monitoring, Smart Structures and Systems and Probabilistic Safety Assessment
8.	Patra, Puneet Kumar	Nanomechanics Molecular Dynamics Computational Mechanics Multiscale Modeling
9.	Sahoo, Dipti Ranjan	Structural Engineering
10.	Singh, Swatantra Pratap	Environmental Engineering

## SECTION-II

### (Computer Engineering and Information Technology)

#### ACADEMIA

S. No.	Name	Year of Birth	Specialization
1.	Agrawal, Manindra	1966	Complexity Theory; Computational Number Theory
2.	Bandyopadhyay, Sanghamitra	1968	Evolutionary Pattern Recognition; Bioinformatics
3.	Basu, Anupam	1957	Embedded Systems, Intelligent Systems
4.	Bhatnagar, Shalabh	1968	Simulation based optimization; Stochastic control
5.	Bhattacharya, BB	1953	Logic Synthesis and Testing, VLSI Design
6.	Bhattacharyya, C	1970	Machine Learning; Mathematical Programming
7.	Bhattacharyya, Pushpak	1962	Natural Language Processing, Machine Learning
8.	Chakrabarti, PP	1962	Computer Science & Engineering, CAD for VLSI
9.	Chakrabarti, Soumen	1969	Web Search and Mining; Information Retrieval
10.	Chakraborty, S	1971	Formal Verification; Constrained Sampling and Counting
11.	Chanda, B	1957	Digital Image Processing and Analysis; Information Technology
12.	Chandran, L Sunil	1974	Graph Theory; Theoretical Computer Science
13.	Chaudhuri, BB	1950	Image Processing and Pattern Recognition
14.	Chaudhuri, Subhasis	1963	Computer Vision, Multimedia
15.	Chaudhury, Santanu	1961	Computer Vision; Machine Intelligence
16.	Dasgupta, Pallab	1967	Electronic Design Automation; Artificial Intelligence
17.	Ganguly, Niloy	1969	Social Computing; Network Science
18.	Garg, N	1971	Algorithms; Optimization



19.	Haritsa, JR	1964	Database Systems; Data Mining
20.	Jalote, Pankaj	1960	Computer Science, Software Engineering
21.	Jawahar, CV	1970	Computer Vision; Machine Learning
22.	Konar, Amit	1963	Artificial Intelligence, Brain-Computer Interfacing
23.	Krithivasan, Kamala	1948	Theoretical Computer Science; Formal Languages and Automata
24.	Kundu, MK	1948	Image Processing; Soft Computing
25.	Majumdar, AK	1948	Knowledgebase and Database Management Systems
26.	Maulik, Ujjwal	1965	Evolutionary Computing and Data Mining; Computational Biology
27.	Misra, Sudip	1977	Internet of Things (IoT); Sensor Networks
28.	Mitra, Sushmita	1962	Soft Computing; Bioinformatics
29.	Mukhopadhyay, Debdeep	1977	Hardware Security, Design Automation, Cryptographic Engineering, Cryptography, VLSI
30.	Mukhopadhyay, J	1963	Image Processing; Medical Informatics
31.	Murthy, CSR	1960	Parallel & Distributed Computing, Computer Networks
32.	Murthy, Hema A.	1958	Signal Processing for speech, music, network data, brain signals; Machine Learning
33.	Murty, MN	1954	Pattern Recognition; Data Mining
34.	Nandi, Sukumar	1962	Computer Networks; Information Security
35.	Narahari, Y	1959	Electronic Commerce; Supply Chain Management
36.	Natarajan, Vijay	1977	Scientific Visualization; Computational Topology
37.	Narayanan, PJ	1963	Computer Vision; Computer Graphics
38.	Pal Chaudhuri, P	1941	Computer Science and Engineering
39.	Pal, NR	1959	Soft Computing, Pattern Recognition
40.	Pal, SK	1950	Soft Computing, Pattern Recognition and Image Processing
41.	Pandu Rangan, C	1955	Algorithms; Cryptography
42.	Patnaik, LM	1946	Computer Science & Engineering, Electronics

43.	Rajagopalan, AN	1968	Image Processing, Computer Vision
44.	Rajaraman, V	1933	Computer Science, Electronics
45.	Ramamritham, K	1955	Real-time Systems; Database Systems
46.	Ramaswamy, Govindarajan	1961	High Performance Computer Architecture; Compilers
47.	Roy Chowdhury, D	1963	Cellular Automata, Cryptography
48.	Sangal, Rajeev	1954	Natural Language Processing; Artificial Intelligence
49.	Sarawagi, Sunita	1969	Machine Learning; Databases
50.	Sastry, PS	1959	Machine Learning; Computational Neuroscience
51.	Shyamasundar, RK	1950	Computer Science; Information Technology
52.	Sinha, BP	1952	Computer Science and Engineering
53.	Sivalingam, Krishna M	1967	Computer Networks
54.	Sudarshan, S	1965	Database Systems
55.	Surkolay, Susmita	1959	Algorithms for Physical Design Automation of ICs Synthesis of Quantum Circuits Hardware and IoT security
56.	Venkatesh, YV	1942	Computer Vision, System Theory
57.	Viswanadham, N	1943	Global Manufacturing and Service Networks, Logistics and Supply Chain Management
58.	Yegnanarayana, B	1944	Speech Processing, Neural Networks

## R&D

S. No.	Name	Year of Birth	Specialization
1.	Basu, D	1942	Fault Tolerant Computers, Embedded System Design
2.	Dhekne, PS	1945	Parallel Processing, Distributed Computing & Networking
3.	Gupta, Manish	1965	High Performance Computing; Compilers

4.	Kalyanaraman, Shiv	1971	Computer Networks (Wired/Wireless)
5.	Kothari, R	1964	Pattern Recognition; Machine Learning
6.	Krishnapuram, Raghu	1956	Machine Learning; Text Analytics
7.	Ramesh, H	1969	Computer Science; Bioinformatics
8.	Ramesh, S	1958	Software Engineering, Modeling and Verification
9.	Varma, Manik	1977	Machine Learning; Computer Vision
10.	Vidyasagar, M	1947	Control Systems, Robotics

## INDUSTRY

S. No.	Name	Year of Birth	Specialization
1.	Ananth Krishnan, K	1963	Computer Science and Engineering
2.	Basak, Jayanta	1965	Pattern Recognition; Neural Networks
3.	Bhattacharya, Suparna	1971	System software (OS, filesystems, emerging tech); AI/ML data optimization (edge to cloud)
4.	Chandru, Vijay	1953	Combinatorial Optimization, Computational Biology
5.	Dey, Lipika	1960	Computer Science and Engineering
6.	Gopalakrishnan, Senapathy	1955	Physics; Computer Science
7.	Gopinathan, Rajesh	1971	Computer Engineering and Information Technology
8.	Kulkarni, VV	1966	Model Driven Engineering; Software Engineering
9.	Mitra, Biswadip	1965	Electronic Systems; Semiconductor Design
10.	Mitta, Sridhar	1946	Computers, Communications
11.	Narayana Murthy, NR	1946	Computer Software; Performance Engineering
12.	Nilekani, Nandan	1955	Information Technology; Public Policy and Technology
13.	Ramadorai, S	1944	Software Engineering, Technology Management
14.	Ramani, S	1939	Computer Networks; Software Technology

15.	Rao, AL	1948	Software Engineering; Datacom & Telecom Technologies
16.	Rao, PVS	1936	Natural Language Processing, Speech Recognition
17.	Rajamani, Sriram K	1970	Computer Science; Computer Engineering
18.	Ramjee, Ramachandran	1971	Computer Systems
19.	Rastogi, Rajeev	1967	Machine Learning; Data Mining
20.	Shroff, Gautam	1964	Computer Science
21.	Soota, Ashok	1942	Information Technology, Business Leadership
22.	Vin, HM	1966	Information Technology; Complex Systems

### **FOREIGN FELLOWSHIP**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1.	Agrawal, Rakesh	1954	Computer and Information Technology
2.	Jain, Anil Kumar	1948	Pattern Recognition; Biometric Recognition
3.	Khosla, Pradeep K	1957	Computer Science, Technology Policy
4.	Mehlhorn, Kurt	1949	Computer Science
5.	Mitter, SK	1933	Systems & Control Theory
6.	Mohan, C	1955	Computer Science
7.	Pichai, Sundar	1972	Information Technology, Artificial Intelligence and Computing
8.	Raghavan, Prabhakar	1960	Computer Science; Internet
9.	Zisserman, Andrew	1957	Computer Vision

## INAE YOUNG ASSOCIATES ON ROLL

S. No.	Name	Specialization
1.	Barman, Siddharth	Algorithmic Game Theory and Approximation Algorithms
2.	Bhattacharyya, Malay	Computer Science
3.	Chakraborty, Sandip	Computer Systems and Ubiquitous Computing
4.	Das, Swagatam	Computer Science and Information Technologies
5.	De, Abir	Machine Learning, Artificial Intelligence & Complex Networks
6.	Garg, Dinesh	Game Theory, Mechanism Design Theory, and Theory of Optimization
7.	Goyal, Pawan	Natural Language Processing
8.	Hazra, Aritra	Design Verification, Formal Methods, VLSI CAD
9.	Krishnaswamy, Ravishankar	Design and analysis of algorithms for fundamental optimization problems
10.	Malhotra, Pankaj	Time Series Modeling Recommender Systems Industrial IoT Sensor Data Analytics
11.	Misra, Neeldhara	Theoretical Computer Science; Algorithm Design
12.	Mukherjee, Animesh	Social networks, web social media, social computation on the web as virtual laboratory, human language dynamics
13.	Mukhopadhyay, Anirban	Data mining, soft and evolutionary computing, bioinformatics
14.	Padmanabhan, Deepak	Information and Knowledge Management; Natural Language Processing
15.	Patra, Arpita	Cryptography
16.	Saha, Chandan	Computational Complexity Theory and Algorithms
17.	Uday Kumar Reddy B	Compilers for multicore processors, Domain-specific languages and compilers, Automatic parallelization, Parallel and high-performance computing

**SECTION-III**  
**(Mechanical Engineering)**

**ACADEMIA**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1.	Agarwal, AK	1972	Internal Combustion Engines
2.	Agrawal, Amit	1974	Fluid Mechanics, Heat Transfer
3.	Ananthasuresh, GK	1967	Compliant Mechanisms, Bio-design
4.	Arakeri, JH	1956	Fluid Mechanics; Heat Transfer
5.	Balaji, C	1968	Heat Transfer; Optimization in Thermal Sciences
6.	Balasubramaniam, Krishnan	1962	Mechanical Engineering; Applied Mechanics
7.	Basu, SB	1976	Multiphase Flows and Heat Transfer; Droplet Combustion
8.	Bhattacharyya, Bijoy	1958	Advanced Manufacturing Technology; Micromachining
9.	Bhattacharyya, Souvik	1959	Thermal Sciences; Refrigeration
10.	Biswas, Gautam	1956	Heat Transfer and Fluid Mechanics
11.	Chakraborty, Suman	1973	Thermo-Fluid Sciences and Engg. & its applications to materials processing; Microfluidics and Micro/Nano-scale transport processes
12.	Chatterjee, Anindya	1966	Dynamics; Applied Mechanics
13.	Chattopadhyay, AB	1943	Machining & Grinding; Cutting Tools
14.	Das, PK	1962	Multiphase Flow; Heat Transfer
15.	Das, SK	1963	Heat Transfer; Fluid Mechanics
16.	Datta, Amitava	1966	Combustion; Thermal Engineering
17.	Date, AW	1945	Thermo-Fluid Science, Choice of Technology
18.	Deb, Anindya	1962	Impact and Crash Safety Design; Computer-Aided Engineering
19.	Deb, Kalyanmoy	1962	Optimization; Design

20.	Deshmukh, SG	1959	Industrial Engineering; Operations Management
21.	Dhande, SG	1948	Engineering Design, Computational Geometry
22.	Dutta, Pradip	1960	Heat Transfer; Manufacturing Processes
23.	Eswaran, Vinayak	1959	Fluid Mechanics (Computational); Heat Transfer (Computational)
24.	Ganesan, V	1945	IC Engines, Gas Turbines
25.	Ghosal, A	1959	Robotics; Design
26.	Ghosh, Amitabha	1941	Manufacturing Science, Mechanisms & Machine Dynamics, Robotics
27..	Gnanamoorthy, R	1966	Advanced Materials & Product Design; Failure Analysis & Design; Machine Elements; Surface Engineering
28.	Gupta, Kshitij	1951	Vibrations; Rotor Dynamics
29.	Gupta, NK	1942	Plasticity and Impact Engineering
30.	Jain, VK	1948	Micromanufacturing; Advanced Machining Processes
31.	Joshi, Suhas S.	1968	Manufacturing Engineering, Micromachining, Machining, Precision Engineering
32.	Khandekar, S	1971	Therma-Fluid Science; Energy Systems
33.	Krishna Kumar, R	1956	Computational Mechanics; Tyre Mechanics
34.	Krishnamurthy, MV	1941	Thermal Engineering and Solar Energy Sciences
35.	Kumar, Pramod	1975	Thermal Energy Systems; Heat Transfer
36.	Lal, GK	1938	Metal Forming; Metal Grinding
37.	Majumdar, BC	1941	Machine Design, Tribology
38.	Mallik, AK	1947	Vibration Engineering, Mechanisms
39.	Mathur, HB	1936	Internal Combustion Engines, Fuel Combustion & Pollution
40.	Mishra, PK	1945	Non-Conventional Manufacturing; EDM & Laser Processing
41.	Mohanty, AR	1965	Acoustics and Industrial Noise Control; Machinery Condition Monitoring
42.	Munjjal, ML	1945	Technical Acoustics, Automotive & Industrial Noise Control
43.	Muralidhar, K	1958	Laser Measurements in Fluid Mechanics and Heat Transfer; Transport Processes in Porous Media

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| 44. | Narasimhan, Arunn   | 1971 | Transport in Porous Media; Bio-thermofluids  |
| 45. | Narasimhan, R       | 1960 | Fracture Mechanics, Computational Solid Mechanics  |
| 46. | Narayanan, S        | 1945 | Non-Linear and Random Vibration, Acoustics and Noise Control   |
| 47. | Narayankhedkar, KG  | 1946 | Cryogenic Engineering, Refrigeration and Airconditioning   |
| 48. | Natarajan, R        | 1941 | Combustion, Energy Science & Technology  |
| 49. | Paul, S             | 1966 | Manufacturing; Machining & Grinding  |
| 50. | Parikh, PP          | 1941 | IC Engines, Biomass Gasification   |
| 51. | Prabhu, BS          | 1940 | Tribology; Rotor Dynamics  |
| 52. | Pratap, Rudra       | 1964 | Micra & Nano Electro-mechanical Systems (MEMS/NEMS); Nonlinear Dynamics & Allied Dynamical Systems   |
| 53. | Radhakrishnan, V P  | 1940 | Manufacturing Engineering, Metrology   |
| 54. | Rajagopal, KR       | 1950 | Continuum Mechanics  |
| 55. | Ramesh, K           | 1960 | Solid Mechanics; Fracture Mechanics  |
| 56. | Rao, BVA            | 1933 | Mechanical Engineering, Condition Monitoring   |
| 57. | Ravi, B             | 1964 | Metal Casting (Design & Simulation); Medical Device Innovation                                       |
| 58. | Ray, Manas Chandra  | 1963 | Smart Structures, Micromechanics and Nanomechanics of Composites                                     |
| 59. | Sarangi, SK         | 1949 | Refrigeration and Cryogenic Engineering, Heat Transfer Equipment                                     |
| 60. | Sastri, VMK         | 1938 | Energy, Thermo Fluid Sciences  |
| 61. | Sen, PK             | 1945 | Theoretical Investigation of Hydrodynamic Stability Problems; Theoretical Aspects of Wall Turbulence |
| 62. | Sharma, Atul        | 1972 | Theoretical & Computational Continuum (Solid & Fluid) Mechanics                                      |
| 63. | Som, SK             | 1949 | Thermal Science & Engineering, Automization & Spray Combustion S                                     |
| 64. | Srinivasa Murthy, S | 1945 | Refrigeration & Airconditioning, Heat & Mass Transfer  |
| 65. | Srinivasan, J       | 1947 | Thermal Science, Solar Energy  |
| 66. | Sukhatme, SP        | 1938 | Heat Transfer, Energy  |



67.	Sundararajan, T	1956	Combustion, Heat Transfer
68.	Tandon, N	1954	Vibration Monitoring; Noise Engineering
69.	Vrat, Prem	1944	Industrial Engineering; System Dynamics

### R&D

<b>S. No.</b>	<b>Name</b>	<b>Year of birth</b>	<b>Specialization</b>
1.	Ambirajan, Amrit	1965	Thermal Management of Electronics; Two-phase heat transport devices
2.	Balasubramaniam, R	1961	Ultra Precision Manufacturing, Micro Machining Diamond Turn Machining, Technology deployment for societal applications
3.	Basu,SK	1931	Machine Tools Design, Manufacturing Engineering
4.	Bhujanga Rao, V	1951	Shock, Noise & Vibration, Machinery Condition Monitoring
5.	Chattopadhyay, Jayanta	1966	Fracture Mechanics; Finite Element Analysis
6.	Chellapandi, P	1956	Engineering Mechanics, High Temperature Design
7.	Dutta, BK	1953	Structural Safety Analysis and Fracture Mechanics
8.	Grover, RB	1949	Thermal Engineering; Nuclear Safety
9.	Jayarajan, K	1962	Remote Handling and Robotics, Teletherapy Machine
10.	Krishnan, J	1949	Fusion and Solid State Welding; Distortion Control in Welding
11.	Kushwaha, HS	1946	Structural Engineering, Fracture Mechanics
12.	Murmu, NC	1971	Tribology & Composite Material; Micro/Nano Manufacturing
13.	Natarajan, M	1946	Mechanical Engineering (Design), Automotive Technology
14.	Prasad, Arun	1929	Gas Turbine Technology
15.	Ram, Dasharath	1962	Precision Manufacturing; Product Development

16.	Ramanarayanan, CP	1958	Propulsion; Heat Transfer
17.	Ranganayakulu, Chennu	1960	Heat Transfer-Compact Heat Exchangers; Aircraft Environmental Control Systems, Boiling and Condensation
18.	Ravisankar, A	1959	Fast Reactor Fuel Reprocessing Technology; Remote Technology and special purpose machines
19.	Sinha, Anil Kumar	1956	High Precision Instruments; Special purpose machines & equipments
20.	Sinha, GP	1946	Operations Research & Industrial Engineering; Production Engineering
21.	Sivakumar, P	1958	Mechanical Engineering; Automobile Engineering
22.	Sreedhar, BK	1965	Design and testing of centrifugal pumps, Cavitation modelling and testing, Mechanical design, In sodium performance testing
23.	Velusamy, K	1959	Computational Heat Transfer; Liquid Metal Thermal Hydraulics

## INDUSTRY

S. No.	Name	Year of Birth	Specialization
1.	Akarte, RR	1945	Machine Design, Automobile Engineering
2.	Aprameyan, K	1942	Internal Combustion Engineering, Automobile Engineering
3.	Chandraker, AL	1949	Computational Fluid Dynamics, Turbomachines
4.	Dube, NM	1948	Tribology; Design of Tribometers, Analog Circuit Design, Material Characterization and Evaluation
5.	Forbes, Naushad	1960	Technology Policy & Management; Education Policy
6.	Goenka, PK	1954	Vehicle Design and Development; Engine Tribology
7.	Jindal, Sajjan	1959	Metallurgy; Steel Industry
8.	Kirloskar, Vikram	1958	Production Engineering, Manufacturing

9.	Lakshminarayanan, PA	1949	Diesel engine design and development; CNG engine design and development
10.	Mahadevan, R	1943	I.C. Engines; Metal Matrix Composites
11.	Mangalaramanan, SP	1969	Engineering Design, Pressure Vessel Design, Finite Element Analysis, Automobile Engineering
12.	Maini, Chetan	1970	Electric & Hybrid Vehicles
13.	Majumdar, Sekhar	1948	Computational Fluid Dynamics
14.	Mohan Ram, NS	1936	Warship Design and New Product Development
15.	Mohan Reddy, BVR	1950	General Management; Technology
16.	Naik, AM	1942	Engineering and Technology Management
17.	Narendran, TV	1965	Marketing & Sales; International Trade
18.	Patil, JD	1954	Multi-disciplinary Engineering; Conceptual & System Design
19.	Ramchandani, A	1962	Mechanical Systems Simulation; Multidisciplinary Systems Development
20.	Ravichandran, N	1947	Manufacturing of Engineering Products; Total Quality Management
21.	Sobti, Atul	1959	Mechanical; Marketing
22.	Srinivasan, V	1952	Management; Engineering
23.	Venkataramani, N	1939	Mechanical Engineering; Automobile Engineering

### **FOREIGN FELLOWSHIP**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1.	Ewins, David John	1942	Vibrations; Structural Dynamics
2.	Jones, Norman	1938	Dynamic inelastic Response of Structure; Structural Crashworthiness
3.	Kiuchi, Manabu	1940	Manufacturing Science; Metal Forming
4.	Lieuwen, TC	1972	Combustion; Energy

5.	Mitra, Sushanta	1972	Microfluidics & Nanofluidics; Integrated Water Management
6.	Murthy, Jayathi Y	1958	Computational Fluid Dynamics and Heat Transfer; Microscale Heat Transfer
7.	Rosakis, Ares J	1956	Mechanical Engineering; Aerospace Engineering
8.	Schiehlen, Werner	1938	Applied Dynamics, Road and Rail Vehicles
9.	Sreenivasan, KR	1946	Fluid Dynamics; Nonlinear Dynamics
10.	Sridhar, KR	1960	Energy; Mechanical Engineering

## INAE YOUNG ASSOCIATES ON ROLL

S. No.	Name	Specialization
1.	Arumuru, V	Fluid and Thermal Science
2.	Bhardwaj, Rajneesh	Thermal and Fluid Sciences
3.	Chakraborty, Abir	Solid Mechanics, Biomechanics, Automotive Safety
4.	Chowdhury, Arindrajit	Combustion
5.	Das, Prosenjit	Materials processing and Manufacturing
6.	Karagadde, S	Solidification, Computational methods
7.	Khatri, Neha	Optical system Design and fabrication for Soft X-Rays & Infrared Optical elements
8.	Kumari, Poonam	Smart materials and structures
9.	Patel, Naimesh R	Opto-Mechanical design and development of optical payloads for imaging satellites
10.	Pattamatta, Arvind	Computational Fluid Dynamics and Heat Transfer
11.	Raj, Rishi	Energy Efficiency, Boiling, Two-phase flows, Microgravity Science
12.	Shankar Ram, CS	Automotive Engineering
13.	Sharma, Ishan	Applied Mechanics
14.	Suresh Kumar, N	Automotive driveline system, Advanced clutch and clutch controls
15.	Tomar, Gaurav	Two phase flows, interfacial instabilities, computational heat and mass transfer
16.	Wahi, Pankaj	Dynamics, Vibrations and Controls, Reduced order modeling, Characterization and control of instabilities in higher dimensional systems.

**SECTION-IV**  
**(Chemical Engineering)**

**ACADEMIA**

<b>S. No.</b>	<b>Name</b>	<b>Year of Brth</b>	<b>Specialization</b>
1.	Ananth, MS	1945	Thermodynamics and Mathematical Modelling
2.	Ayappa, KG	1962	Statistical Thermodynamics; Transport
3.	Balakrishnan, AR	1950	Transport Processes, Energy Conservation
4.	Bellare, JR	1960	Nanotechnology and Electron Microscopy
5.	Chanda, Manas	1940	Polymer Science and Technology, Recycling of Plastic Wastes
6.	Chhabra, RP	1953	Non-Newtonian Fluid Mechanics, Multiphase Flows
7.	Chopra, SJ	1941	Research & Development; Chemical Engineering
8.	Dasgupta, Sunando	1962	Microscale Transport Processes; Membrane Separations
9.	De, Sirshendu	1967	Membrane Separation; Transport Phenomena
10.	Gogate, PR	1975	Process Intensification; Waste Water Treatment; Ultrasound, Crystallization
11.	Gaikar, VG	1960	Reaction Separation Processes; Engg. Applications of Surface Active Materials
12.	Gandhi, KS	1942	Modelling & Simulation, Polymer Engineering
13.	Ghatak, A	1971	Mechanics of soft materials; Adhesion, friction and fracture of soft interfaces
14.	Gudi, Ravindra	1962	Chemical Engineering, Process Control & automation; Process Modelling & Simulation, Energy Systems Analysis, CO2 valorization
15.	Gupta, SK	1946	Polymerisation Engineering; Multi-objective Optimization
16.	Joshi, JB	1949	Chemical Engineering; Fluid Mechanics and Reactor Design

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| 17. | Joshi, Yogesh    | 1974 | Rheology; Polymer Science and Engineering  |
| 18. | Juvekar, VA      | 1948 | Interfacial Engineering, Reaction Engineering  |
| 19. | Khakhar, DV      | 1959 | Chemical Engineering, Polymer Engineering  |
| 20. | Krishna, R       | 1946 | Mass Transfer and Chemical Reaction Engineering  |
| 21. | Kudchadker, AP   | 1934 | Education, Computer-Based-Training, Process Engineering                                    |
| 22. | Kumar, Rajinder  | 1934 | Multiphase Phenomena   |
| 23. | Kumaran, V       | 1966 | Chemical Engineering; Fluid Mechanics  |
| 24. | Kunzru, D        | 1947 | Pyrolysis of Hydrocarbons, Catalysis   |
| 25. | Madhavan, KP     | 1937 | Process Control, Process Systems Engineering   |
| 26. | Madras, Giridhar | 1967 | Catalysis and Polymers   |
| 27. | Mehra, Anurag    | 1959 | Reaction Engineering; Nanomaterials  |
| 28. | Misra, Ashok     | 1947 | Polymer Science and Engineering  |
| 29. | Modak, JM        | 1962 | Biochemical Engineering; Biomineral Technology   |
| 30. | Mukhopadhyay, SN | 1945 | Biochemical Engineering, Biotechnology   |
| 31. | Naik, VM         | 1947 | Materials & Interfacial Science; Chemical Engineering                                      |
| 32. | Narasimhan, S    | 1959 | Process Design; Data Analytics   |
| 33. | Pandit, AB       | 1957 | Multiphase Reactor Design; Cavitation Phenomena  |
| 34. | Pant, KK         | 1965 | Heterogeneous catalysis and Reaction Engineering, Waste to Energy and Value-Added Products |
| 35. | Patwardhan, AW   | 1972 | Transport Phenomena; Computational Fluid Dynamics  |
| 36. | Patwardhan, SC   | 1964 | Nonlinear Control Systems; Bayesian State Estimation                                       |
| 37. | Rengasamy, R     | 1969 | Process Systems Engineering; Microfluidics   |
| 38. | Saraf, DN        | 1938 | Process Control; Process Modelling & Optimization  |

39.	Shankar, V	1972	Fluid Mechanics, Rheology, Non-Newtonian flows
40.	Sharma, Ashutosh	1961	Colloids & Interfaces; Nanotechnology
41.	Subramaniam, P	1961	Microfluidics and lab on chip applications; Thermodynamic framework to develop novel technologies
42.	Suresh, AK	1957	Transport Phenomena, Reaction Engineering
43.	Upadhyay, SN	1946	Transfer Processes; Non-Newtonian Fluids
44.	Yadav, GD	1952	Chemical Engineering; Green Chemistry and Engineering

### R&D

S. No.	Name	Year of Birth	Specialization
1.	Agarwal, US	1962	Polymer Science & Engineering; Material Science
2.	Brahmachari, SK	1952	Biochemical Engineering and Biotechnology
3.	Chaudhari, RV	1948	Catalysis, Chemical Reaction Engineering Catalysis
4.	Garg, MO	1954	Petroleum Refining Technologies, R&D Management
5.	Garg, RK	1930	Chemical Engineering
6.	Ghosh, P	1946	Biochemical Engineering and Biotechnology
7.	Jasra, RV	1952	Adsorption Separation; Catalysis
8.	Karanth, NG	1946	Biochemical Engineering, Fermentation Technology
9.	Kumaraswamy, G	1973	Polymer Science and Engineering; Chemical Engineering
10.	Kulkarni, Amol	1976	Microreactors: design, fabrication, modelling and experimentation. Experimental and computational fluid dynamics of chemical process systems

11. Kulkarni, MG 1950 Polymers for Biomedical Application; Supramolecular Polymers
12. Lele, Ashish K 1967 Polymer Science & Engineering
13. Mashelkar, RA 1943 Polymer Science & Engineering
14. Nettem, V Choudary 1956 Adsorptive Separators; Catalysis and Catalytic Processes
15. Patwardhan, VS 1947 Chemical Engineering, Simulation Software Development
16. Prakash, V 1951 Biotechnology, Food Technology
17. Prasada Rao, TSR 1939 Heterogeneous Catalysis, Petroleum Refining and Petro-Chemical Processing
18. Raghavarao, KSMS 1960 Food/Biochemical Engineering
19. Ramasami, T 1948 Chemical Technology, Leather Process Technology
20. Ranade, VV 1963 Multiphase Reactor; CFD
21. Rao, Jonnalagadda Raghava 1961 Leather Science and Technology, Environmental Chemistry
22. Rao, RMVGK 1947 Indigenisation of Composite Products for Aerospace/Non-Aerospace Sectors and Applications; Polymer Matrix Composites
23. Ratnasamy, P 1942 Catalysis; Petrochemistry
24. Rawat, BS 1937 Separation Sciences/Technologies, Petroleum Refining
25. Reddy, BM 1957 Catalysis; Chemical Engineering and Technology
26. Rode, CV 1958 Catalysis; Reaction Engineering and Process Development
27. Sivaram, S 1946 Polymer Science, R&D Management
28. Tewari, PK 1955 Desalination & Water Purification; Membrane Technology
29. Thyagarajan, G 1934 Industrial Research, Technology Management
30. Varadarajan, S 1928 Chemical Technology, Biotechnology



**INDUSTRY**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1.	Ambani, Mukesh D	1957	Corporate Management
2.	Awasthi, US	1945	Project Management, Chemical Engineering
3.	Bhatnagar, AK	1942	Organic, Fuels and Lubricants
4.	Deshpande, Ajay Narayan	1958	Process Plant Technology / Design/ Engineering/ Execution for Petroleum Refinery/ Petrochemical/ Oil & Gas Installations; Environmental Engineering
5.	Dravid, AN	1943	Heat Transfer
6.	Godrej, Nadir B	1951	Animal Feed; Oleochemicals, Surfactants and Agro Chemicals
7.	Khilnaney, VK	1960	Design of Complex Isotope Separation Processes; Development and societal applications of 'Deuterated compounds' and special materials
8.	Kulkarni, Ravi	1948	Surface & Interfacial Chemistry; Material Science (Silicone Technology)
9.	Lal, MB	1947	Oil Refining
10.	Misra, DP	1944	Project Management; Process Engineering in Chemical Industries
11.	Modi, Rajiv I	1960	Chemical Engineering; Biological Science
12.	Mukhopadhyay, R	1947	Polymer Science & Rubber Technology; Chemical Engineering
13.	Nair, MD	1929	Organic Chemistry, New Drugs Research
14.	Pandia, RM	1949	Strategy for Chemical Industry; General Management
15.	Prasad, CR	1941	Project Management; Human Resource Development
16.	Raut, JS	1971	Soft Matter; Substrate Biophysics and Biomaterials
17.	Sapre, Ajit V	1954	Reaction Engineering & Catalysis
18.	Shukla, Vartika	1966	Oil Refining, Gas Processing plants, Green Engineering, Energy
19.	Subramaniam, KV	1957	Biotechnology, Corporate Business Development

20.	Vasudeva, Sudhir	1954	Offshore Oil & Gas Field Development; Management of Mega Projects
21.	Venkataraman, RS	1939	Process Design and Engineering, Petrochemicals
22.	Venkataramanan, K	1944	Process Engineering, Engineering Design

### **FOREIGN FELLOWSHIP**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1.	Agrawal, Rakesh	1953	Chemical Engineering; Energy
2.	Batterham, Robin John	1941	Chemical Engineering; Innovation Policy
3.	Bhargava, SK	1953	Advanced Materials; Industrial Chemistry
4.	Chakraborty, Arup	1961	Chemical Engineering, Immunology
5.	Durst, F. J.	1940	Fluid Mechanics
6.	Fan, Liang-Shih	1947	Chemical Engineering
7.	Karasz, Frank E	1933	Polymer Materials
8.	Mitragotri, Samir Suresh	1971	Bioengineering; Chemical Engineering
9.	Peppas, Nicholas A	1948	Chemical Engineering; Biomedical Engineering
10.	Ramkrishna, Doraiswami	1938	Chemical Reaction Engineering; Biological Engineering
11.	Tirrell, Matthew V	1950	Chemical Engineering; Materials Science
12..	Vora, Bipin V	1943	Process Development-Petrochemical processes; Catalytic dehydrogenation, Alkylation, methanol to olefins
13.	Wasan, Darsh T	1938	Chemical Engineering; Materials Engineering

## INAE YOUNG ASSOCIATES ON ROLL

S. No.	Name	Specialization
1.	Arun, Ravi Kumar	Microfluidics, Lab on Chip Devices, Energy Conversion and Storage: Fuel cells and batteries
2.	Chatterjee, Abhijit	Chemical Engineering and Biotechnology
3.	Fathima, N Nishad	Leather Science & Technology
4.	Gupta, Rakesh	Chemical Engineering, Multiscale Modelling and Nanotechnology
5.	Jasuja, Kabeer	Nanotechnology
6.	Kaisare, Niket	Chemical Reaction Engineering and Process Control
7.	Mangal, Rahul	Active Matter, Polymer Physics, Soft Matter, Rheology
8.	Mondal, Sourav	Fluid dynamics; Transport phenomena; Mass transport; Modelling and simulation
9.	Nistala, Harsha	Industrial Analytics; Agglomeration with specialization in Sintering & Pelletization; Thermodynamic modelling; and Process Modeling & Simulation
10.	Pinjari, DV	Chemical Engineering and Technology, Materials Science and Engineering and Nanotechnology
11.	Ramanathan, Karthik	Chemical Reaction Engineering, Mathematical Modeling of Reaction and Transport Processes, Reaction Kinetics
12.	Saini, Supreet	Biochemical Engineering
13.	Seshagiri Rao, A	Process Dynamics and Control
14.	Srivastava, VC	Industrial pollution abatement, wastewater treatment, multi-component adsorption, desulfurization, statistical design.
15.	Suryasarathi Bose	Polymer Science and Engineering
16.	Toley, Bhushan Jayant	Microfluidics and Point-of-Care Diagnostics

**SECTION-V**  
**(Electrical Engineering)**

**ACADEMIA**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1.	Agarwal, Vivek	1964	Power Electronics, Electronic Systems
2.	Bandyopadhyay, B	1956	Modelling of Physical System and Control System
3.	Banerjee, S	1960	Non-Linear Dynamics; Electrical Engineering
4.	Behera, Laxmidhar	1967	Intelligent Systems, and Control; Robotics and Artificial Intelligence
5.	Bhuvanewari, G	1965	Power Electronics; Machines and drives
6.	Chakrabarti, Saikat	1975	Electrical power systems
7.	Chakraborty, Chandan	1965	Machine Driver; Power Electronics
8.	Chakravorti, Sivaji	1962	Fault Diagnosis in High Voltage Equipment; Condition Monitoring of Large Electrical Equipment
9.	Chatterjee, Amitava	1968	Instrumentation & Control; Signal & Image Processing
10.	Dash, PK	1941	Energy Management, Artificial Intelligence
11.	Datta, KB	1939	Control and Dynamical Systems; Electrical Machines & Power Systems
12.	Fernandes, Baylon G	1962	Power Electronics; Electrical Machines
13.	Ghosh, Arindam	1952	Power Systems; Control Systems
14.	Gopakumar, K	1956	Power Converters; Multi Level Inverters
15.	Kar, IN	1966	Control Theory and its Applications; Robotics
16.	Khaparde, SA	1949	Power Systems; Smart Grids
17.	Kothari, DP	1944	Power Systems; Energy Systems
18.	Kulkarni, Anil	1970	Power System Dynamics and Control; HVDC Systems
19.	Kulkarni, SV	1967	Electromagnetics; Transformers
20.	Kumar, Mahesh	1967	Power Quality in Power Distribution Network; Distributed Generation and Microgrid Systems

21.	Mishra, Sukumar	1970	Power System Control; Power Quality
22.	Murthy, SS	1946	Electrical Machines, Power Electronics & Drives; Energy Systems & Renewable Energy
23.	Nagabhushana, GR	1942	Lightening Simulation and Protection, Electrical Insulation
24.	Padhy, NP	1969	Power System Economics; Network Pricing
25.	Padiyar, KR	1941	Electrical Power Systems, Power Electronics
26.	Pai, MA	1931	Power Systems : Stability, Computation and Control
27.	Panigrahi, BK	1968	Power System Planning and Operation; Machine Intelligence
28.	Parthasarathy, K	1936	Computer based Protection and Control, EMS Applications
29.	Pradhan, Ashok Kumar	1967	Power System
30.	Ramanarayanan, V	1948	Power Electronics, Switched Mode Power Conversion
31.	Rao, GP	1942	Electrical Engineering, Systems and Control
32.	Sarathi, R	1967	High voltage Engineering; Nano Composites
33.	Sastry, VV	1941	Object Oriented Modelling, Power Electronics & Electric Drives
34.	Singh, Bhim	1956	Power Electronics, Electrical Machines
35.	Singh, BP	1940	Machines and Drives; Energy Systems
36.	Singh, SN	1966	Power Systems Operation & Control; Smart Grid
37.	Soman, SA	1967	Power Systems
38.	Srivastava, SC	1955	Electrical Engineering, Power Systems
39.	Subbayyan, R	1925	Electric Machines & Power Systems; Systems Engineering
40.	Subudhi, Bidyadhar	1963	Electrical Engineering ( System & Control)
41.	Suryawanshi, HM	1963	Power Electronics and Drives; Power Systems
42.	Umanand, L.	1964	Renewable energy systems; Power conversion

## R&D

S. No.	Name	Year of Birth	Specialization
1.	Borkar, VS	1954	Stochastic Control and Adaptive Algorithms
2.	Chenulu, VCV	1931	Electric Traction Distribution
3.	Govindarajan, G	1944	Control System Engineering
4.	Pramanik, Ashutosh	1935	Electromagnetics
5.	Ramamoorthy, M	1936	Power Apparatus and Systems
6.	Sharma, Archana	1964	High Voltage & Pulsed Power Technology; Electro-Magnetic Pulse Welding
7.	Singh, Manjit	1950	Remotised Control Mechanisms & Inspection Tools; Remote Handling Tools and Robotics
8.	Tiwari, AP	1963	Linear Control Theory; Modeling, Simulation & Control of Nuclear Reactors
9.	Tongia, Rahul	1974	Sustainable Energy/Power systems, Smart Grids, Renewable Energy
10.	Tripathy, AK	1948	High Voltage Engg.; Power System Studies

## INDUSTRY

S. No.	Name	Year of Birth	Specialization
1.	Arunachalam, M	1948	High Power Converters & Controls for HVDC & FACTS
2.	Bhandari, Mukesh	1951	Power Electronics
3.	Kumar, Ajay	1962	Electronics, Communication
4.	Nayak, RN	1955	Power System Planning, Design, Engineering, Quality Assurance & Inspection; System Operation, Communication, Load Despatch and Control
5.	Patel, JJ	1952	High Voltage Engineering
6.	Shahi, RV	1945	Mechanical Engineering; Industrial Engineering

7.	Shah, Vijay Kanchanlal	1968	Electronics in Power System Applications; EMI-EMC Compliant Global Product Designs
8.	Singh, RP	1948	Power
9.	Soonee, SK	1956	Power System Operation; Power Market Design
10.	Sreekumar, K	1958	Power Electronics; Control Systems & Embedded Systems

### **FOREIGN FELLOWSHIP**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1	Bose, Anjan	1946	Electric Power Grid; Engineering Education
2	Mohan, Ned	1946	Power Electronics
3	Rajashekara, K	1951	Power Electronics; Electrification of Transportation
4	Singh, Chanan	1941	Electric Power Systems; System Reliability

## INAE YOUNG ASSOCIATES ON ROLL

S. No.	Name	Specialization
1.	Anand, Sandeep	Power Electronics
2.	Arya, Sabha Raj	Power Electronics and Power Filter Technology
3.	Gajare, Swaroop Subhash	Power Systems
4.	Gunturi, Sarma	Communications and Signal Processing
5.	Gurralla, Gurunath	Electrical power System stability and control, power system analysis, distribution system automation
6.	Hazra, Jagabondhu	Power System
7.	Janardhanan S	Control Engineering
8.	Jena, Manas Kumar	Power Systems Engineering
9.	Jena, Premalata	Power System Protection
10.	Kamal, Shyam	Control Systems
11.	Kapat, Santanu	Control in Switching Power Converters
12.	Kaarthik, R Sud- harshan	Electrical Power Systems for satellite, Electronic Systems, Renewable Energy
13.	Mohapatra, Abheejeet	Power network operation and planning & protection in the presence of renewable energy sources
14.	Patel, Amitkumar M	High Voltage and Power Electronics
15.	Pramanick, Sumit Kumar	Power Electronics and Drives



**SECTION-VI****(Electronics and Communication Engineering)****ACADEMIA**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1.	Anand, GV	1943	Wave Propagation, Signal Processing
2.	Balakrishnan, M	1956	Embedded Systems; Assistive Technology
3.	Balakrishnan, N	1950	Numerical Electromagnetics Aerospace Electronics Systems
4.	Bharadwaj, Amrutur	1969	Microelectronics
5.	Bhat, Bharathi	1941	Microwave and Millimeter Wave Engineering
6.	Bhat, KN	1943	Microelectronics
7.	Bhat, Navakanta	1968	Nanoelectronics; Sensors
8.	Bhatnagar, Manav	1976	Communication Engineering
9.	Bhattacharyya, AB	1937	Microelectronics
10.	Chakraborty, M	1961	Digital Signal Processing
11..	Chandra, Kailash	1934	Electronics Instrumentation, Precision Measurement
12.	Chauhan, Yogesh	1978	Nanoelectronics, Modeling and Simulation of Semiconductor Devices, DC, RF and Noise Characterization
13.	Chockalingam, A	1962	Wireless Communications and Networking
14.	Dasgupta, Amitava	1959	Microelectronics, MEMS
15.	Dasgupta, Nandita	1962	Semiconductor Devices; VLSI Technology
16.	De, Swades Kumar	1969	Communications Networks and Systems; Performance Modeling and Analysis
17.	Desai, UB	1951	Signal & Image Processing, Wireless Communication
18.	Dutta Roy, SC	1937	Circuits, Systems and Signal Processing
19.	Guha, D	1963	Antenna Engineering; Applied Electromagnetics
20.	Gumaste, Ashwin	1975	Telecommunications, Cyber Security
21.	Hari, KVS	1962	Signal Processing; Communications

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| 22. | Jagadesh Kumar, M   | 1960 | Nanoelectronics; Device Modeling & Simulation                              |
| 23. | Jayadeva            | 1967 | AI/Machine Learning  |
| 24. | Jhunjhunwala, Ashok | 1953 | Telematics and Computer Networking, Optical Communications                 |
| 25. | Kartikeyan, MV      | 1961 | High Power Millimeter Waves; High Frequency Circuits, Antennas and Systems |
| 26. | Koilpillai, RD      | 1962 | Wireless Communications, Digital Signal Processing                         |
| 27. | Kottantharayil, GA  | 1971 | Solar Photovoltaics; Nanoelectronics                                       |
| 28. | Koul, SK            | 1954 | Microwave and Millimeter Wave Engineering, CAD of Microwave ICs            |
| 29. | Kumar, Anurag       | 1955 | Communication Networks; Stochastic Modelling                               |
| 30. | Kumar, PV           | 1955 | Algebraic Coding Theory; Wireless Communication                            |
| 31. | Lahiri, SK          | 1943 | Microelectronics & MEMS, Integrated Optics                                 |
| 32. | Lodha, Saurabh      | 1977 | Nanoscience and Nanotechnology   |
| 33. | Mahapatra, Souvik   | 1970 | Semiconductor Devices  |
| 34. | Manjunath, D        | 1964 | Telecommunication and Networking; Performance Models of Systems            |
| 35. | Mallik, RK          | 1964 | Communications   |
| 36. | Mehta, NB           | 1975 | Wireless Communications and standards                                      |
| 37. | Murti, VGK          | 1933 | Circuits and Systems, Measurements and Instrumentation                     |
| 38. | Narayanan, H        | 1948 | Electrical Networks, Combinatorial Optimization                            |
| 39. | Panda, G            | 1948 | Digital Signal Processing, Soft Computing in Communication                 |
| 40. | Paulraj, AJ         | 1944 | Wireless Communication   |
| 41. | Prasad, Surendra    | 1948 | Signal Processing, Communications  |
| 42. | Rajan, BS           | 1958 | Communication Theory; Information Theory                                   |
| 43. | Ramamurthi, B       | 1959 | Communications, Wireless Networks  |
| 44. | Ramakrishnan, AG    | 1958 | Human-Computer Interface Technologies; Neuroscience and Signal Processing  |
| 45. | Rao, V Ramgopal     | 1965 | Nanoelectronics; CMOS Devices  |

46.	Ray, SK	1961	Nanoelectronics; Semiconductor Devices
47.	Reddy, VU	1939	Signal Processing, Communications
48.	Roy, S	1966	Nano-Photonics; Silicon, Organic and Bio Photonics
49.	Shanthi Pavan, Y	1973	Analog Mixed Signal VLSI Design; RF and Microwave Design
50.	Sharma, Anurag	1955	Photonics (Fibre Optics); Optical Engineering
51.	Sharma, Vinod	1957	Wireless Communications and Networking; Information Theory
52.	Shevgaonkar, RK	1954	Telecommunication; Radio Astronomy
53.	Shojaei Baghini, M	1965	Electrical Engineering - Electronics and Microelectronics
54.	Thyagarajan, K	1952	Photonics; Opto-Electronics
55.	Vasi, JM	1947	Microelectronics
56.	Vinoy, KJ	1969	Microwave Engineering, Microelectro Mechanical Systems

### R&D

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1.	Aatre, VK	1939	Digital Signal Processing, Sonar System Design
2.	Agrawal, VK	1953	Electronics and Computer
3.	Ahmad, Shamim	1943	Millimeter Wave, Semiconductor Devices Technology and Physics
4.	Ananda Mohan, PV	1949	Analog VLSI Design, Cryptography
5.	Bhatkar, VP	1946	Super Computing, Artificial Inatelligence
6.	Bimalkhedkar, S	1945	Electronic Warfare and Signal Processing
7.	Biswas, BB	1948	Electronics; Nuclear Control & Safety
8.	Calla, OPN	1935	Electronics Communication
9.	Chander, V	1946	Signal Processing; Underwater Systems
10.	Chatterjee, UK	1938	Lasers, High Voltage Switching

11.	Christopher, S	1955	Air Borne Early Warning Systems; Radar Technology
12.	Cleetus, George M	1943	Digital Signal Processing, Radar Systems Engineering
13.	Deekshatulu, BL	1936	Remote Sensing, Image Processing
14.	Kumar, C	1976	Microwave Antennas; RF Communication
15.	Kumar, D	1946	Information Technology, Integrated Networks
16.	Kumar, Lalit	1953	Microwave Engineering; Vacuum Electronics Devices
17.	Kumar, Vikram	1947	Semi-conductor Physics and Technology
18.	Muralidharan, R	1953	Semiconductor Material and Device Technology
19.	Padmanabhan, VN	1971	Computer Networking; Mobile Systems
20.	Pal, Surendra	1948	Space Communications, Microwaves, Electromagnetics and Antennas
21.	Pithawa, CK	1951	Instrumentation and Control for Nuclear Reactors and for Accelerators
22.	Ramalingam, RP	1946	Embedded Systems, Software Engineering
23.	Ramamurthy, N	1954	Signal Processing; Communications
24.	Sharma, SB	1947	Electronics & Communication; Microwave Engineering
25.	Sitaram, N	1946	Military Communication, Command Control Information Systems
26.	Varadarajan, S	1949	Radar Data Processing; Radar System Engineering

## **INDUSTRY**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1.	Acharya, Tinku	1963	Image Processing & Computer Vision; VLSI Architecture & Algorithms
2.	De, Aloknath	1962	Mobile and Multimedia Communication; Systems-on-Chip and Embedded System
3.	Deodhar, PS	1934	Engineering Innovation, Technology for National Development

4.	Deshpande, Vinay L	1947	Digital Systems, Management of R&D
5.	Gowtama, MV	1961	Electronics Warfare
6.	Jayasimha, Sriram	1957	Multirate Digital Signal Processing, Communications Systems
7.	Kaura, SK	1944	Electronics
8.	Kumar, N	1950	Electronics
9.	Malla Reddy, B	1947	Electronics-Microwaves
10.	Mehendale, MM	1963	VLSI Architectures; Low Power VLSI Design
11.	Muralidharan, Raghavan	1954	Systems Engineering, Mission critical Real time systems Radios Communication systems AI/ML for Defence systems
12.	Nagarajan, V	1944	Fibre Optics Communication, Digital Communication
13.	Nayak, Sanjay	1964	Telecommunications & Networking; Electronics and Semiconductor
14.	Parulkar, Ishwardutt	1966	Mobile Networks; Cloud Technologies
15.	Pitroda, Satyan (Sam) G	1942	Electronics and Communication Engineering
16.	Pradhan, BD	1939	Telecommunications, Electronics
17.	Ravikumar, CP	1961	VLSI Design and Test; High Performance Computing
18.	Roy, JN	1957	Microelectronics; Semiconductor; Solar Energy
19.	Sastry, VVR	1949	Telecommunications & military communications; Technology Management
20.	Sherlekar, SD	1956	Computer Science Engineering and Electronics Engineering
21.	Shorey, Rajeev	1963	Wireless Networks; Internet Protocols
22.	Singh, Surjit	1941	Communications and Radar, Computer Sciences
23.	Sivarajan, KN	1965	Communication Networks; Optical Networking
24.	Srivastava, GP	1949	Automation & Control Systems Engineering, NDE Instrumentation, Security Electronics
25.	Venkatesh, G	1961	Telecom Engineering; VLSI Design
26.	Venkatesh, N	1963	Internet of Things; Wireless LAN
27.	Zarabi, MJ	1947	Microelectronics; Physical Electronics

## **FOREIGN FELLOWSHIP**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1.	Baliga, B Jayant	1948	Electrical Engineering; Power Electronics
2.	Bhargava, VK	1948	Wireless Communications; Digital Communications
3.	Deen, M Jamal	1955	Optoelectronics; Micro/Nano-electronics
4.	Jagadish, Chennupati	1957	Optoelectronics and Nanotechnology
5.	Kazmerski, Lawrence Lee	1945	Electrical Engineering; Solar Photovoltaics (Renewable Energy)
6.	Kailath, Thomas	1935	Signal Processing, Control, Communications
7.	Kumar, PR	1952	Control Systems; Communication Networks
8.	Mitra, Sanjit Kumar	1935	Image Processing; Digital Signal Processing
9.	Narayanamurti, Venkatesh	1939	Electrical Engineering; Materials Engineering
10.	Netravali, Arun	1946	Visual Communications, Computer Systems and Communications Sciences
11.	Payne, David N.	1944	Photonics; Fiber Lasers
12.	Reddy, Raj	1937	Computer Science and Robotics - IT Education
13.	Seshadri, Nambi	1961	Wireless Communications
14.	Stata, Raymond S	1934	Electrical Engineering, Management
15.	Vaidyanathan, Palghat	1954	Digital Signal Processing and Communications
16.	Wineland, David	1944	Atomic Physics, Atomic spectroscopy, Atomic clocks, Quantum information, Quantum computation

## INAE YOUNG ASSOCIATES ON ROLL

S. No.	Name	Specialization
1.	Avasthi, Sushobhan	Photovoltaics
2.	Bhattacharyya, Partha	MEMS based gas sensors, Microelectronics Devices.
3.	Chaudhary, Raghvendra Kumar	RF & Microwave Engineering
4.	Das, Samaresh	Silicon based photodetector from visible to infrared wavelengths, Quantum devices for future electronics
5.		
6.	Kumar, Niraj	Plasma assisted Microwave & sub-THz source
7.	Murali, Kota	Nano Devices and Technology
8.	Nath, Digbijoy N	Semiconductor devices and heterostructures, gallium nitride (GaN) based high electron mobility transistors (HEMTs) and deep-UV photodetectors, gallium oxide deep-UV opto-electronics
9.	Rajawat, Ketan	Signal Processing in Networks
10.	Roy, Chaudhuri Chirasree	MEMS based Bio and Pressure Sensor Systems, Microelectronic Devices
11.	Sarma, Santanu	Signal Processing
12.	Shah, Kushal K	Electrical Engineering (Communication Stream)
13.	Shrivastava, Mayank	Nanoelectronic Devices, Power Semiconductor and System on Chip
14.	Singh, Jasbir	Global Navigation Satellite Systems, Automotive Radars, Automotive Safety
15.	Sivaparkasam, Mohanasanakar	Medical devices, diagnostics and instrumentation
16.	Supradeepa, VR	Photonics and Lasers, Optical Communications and RF Photonics
17.	Suri, Manan	Electronics & Communication Engineering
18.	Tolani, Harshita	RF & Microwave Engineering
	Vaze, Rahul	Wireless Communication

**R&D**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1.	Adimurthy, V	1946	Aerospace Dynamics, Multi Disciplinary Optimization
2.	Agarwal, RN	1941	Aero-Missiles, Re-entry
3.	Alex, TK	1948	Aerospace Engineering, Electro-optics
4.	Ayyappan, G	1960	Liquid Propulsion Rocket Technology; Sytem Engineering & Launch Vehicle Project Management
5.	Chakraborty, Debasis	1959	Computational Fluid Dynamics; Turbulent Reacting Flows
6.	Chander, Avinash	1950	Missiles; Guidance and Navigation
7.	Chandrasekhar, MG	1949	Satellite Technology; Space System Operations
8.	Chaudhuri, SK	1949	Flight Control and Guidance System; Hardware-In-Loop-Simulation (HILS) and Real Time Embedded System
9.	Chetty, S	1954	Flight Dynamics; Flight Control
10.	Dhekane, MV	1957	Launch Vehicle-Guidance Navigation Control; Space Transportation System-Mission Design Analysis & Validation
11.	Goel, PS	1947	Spacecraft Altitude Control, Space Technology
12.	Joseph, George	1938	Earth Observation Technology, Remote Sensing
13.	Kadam, NV	1944	Flight Control System Design, Trajectory Simulation
14.	Kalyanaraman, S	1942	Remote Sensing Technology, Electronics & Communication
15.	Kasturirangan, K	1940	High Energy Astronomy & Satellite Technology
16.	Katti, VR	1946	Satellite Technology; Electro Magnetic Compatibility
17.	Kota, Harinarayana	1943	Aircraft Design; Technology Management



18.	Kunhikrishnan, P	1961	Satellite Launch Vehicle Technology & Project Management; Launch Vehicle Avionics Systems
19.	Lalithambika, VR	1962	Control Engineering; Human Spaceflight
20.	Misra, Tapan	1961	SAR Design & Development; SAR Processing Algorithm; Design and Software Development
21.	Mohan Lal , PP	1954	Navigation Systems and Sensors; Computational Intelligence and Control
22.	Muthunayagam, AE	1939	Propulsion and Heat Transfer
23.	Nagappa, R	1941	Rocket Propulsion
24.	Nair, GM	1943	Launch Vehicle Systems Engg., R&D Management
25.	Narayana Murthy, BHVS	1963	Embedded Computers; Navigation Systems
26.	Narayanan, KG	1942	Microwave Engineering, Avionics Systems
27.	Narayanan, V	1964	Development of Cryogenic & Semi-Cryogenic Rocket Propulsion; Project Management for Cryostage Realisation
28.	Nayak, J	1968	Inertial Navigation Sensors & System ; Directed Energy Weapon System
29.	Pandian, S	1959	Aerodynamics; Propulsion
30.	Patki, AV	1943	Aerospace Engineering, Structural Mechanics
31.	Perumal, RV	1943	Design & Testing of Aerospace Structures, Project Management
32.	Prahlad, TS	1940	Aerodynamics, Aerospace Design
33.	Prahlada	1947	Aeronautics, Management
34.	Radhakrishnan, K	1949	Space Transportation System; Human Spaceflight
35.	Raja, Samikkannu	1966	Aeroelasticity/Structural Dynamics; Adaptive Structures
36.	Rajan, YS	1943	Space Technology, Technology Management
37.	Reddy, G Sathesh	1963	Missiles and Aerospace Systems
38.	Saraswat, VK	1949	Rocket Propulsion, Combustion, Aerospace Engineering
39.	Sinha, UN	1947	Parallel Computers, Fluid Mechanics
40.	Sivan, K	1957	Integrated Mission Design and Analysis; Guidance System Design

41.	Sivathanu Pillai, A	1947	Aerospace Engineering; Missile Technology
42.	Somanath, S	1963	Launch Vehicles Systems Engineering; Structural Design/Analysis
43.	Subba Rao, M	1946	Composite Structures
44.	Subramanyam, PS	1950	Design & Development of avionics & flight control system for combat aircraft
45.	Sundaram, Ramesh	1962	Aerospace Composites, Polymer Science
46.	Sundaram, VJ	1935	Aerospace Structures, Missile Technology
47.	Suresh, BN	1943	Control and Guidance of Launch Vehicles
48.	Suresh, MS	1964	Turbomachines; Cryogenic Rocket Engines
49.	Tamilmani, K	1952	Aeronautics; Airworthiness & Certification
50.	Thomas, Tessy	1963	Missile Guidance; Mission Design
51.	Upadhya, AR	1949	Developing techniques and methodology for aerospace vehicle design; Management of Aerospace R&D & aircraft development programme
52.	Veeraraghavan, PS	1948	Design and Development of Satellite Launch Vehicles; and Inertial Systems for Launch Vehicles and Spacecrafts
53.	Venugopalan, P	1948	Rocket Propulsion, Missile System Engineering
54.	Venkatakrishnan, L	1967	Aerodynamics; Aeroacoustics
55.	Yegnanarayan, K	1947	Aerodynamics; Aircraft Design, Development & Production

## **INDUSTRY**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1.	Ramasubbu, Sunder	1970	Structural Integrity of Materials and Structures
2.	Suvarna Raju, T.	1958	Aerospace & Aviation (Defence); Manufacturing

**FOREIGN FELLOWSHIP**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1.	Atluri, SN	1945	Aerospace Engineering, Computational Mechanics

**INAE YOUNG ASSOCIATES ON ROLL**

<b>S. No.</b>	<b>Name</b>	<b>Specialization</b>
1.	Karmarkar, Sourabh	Design, development & analysis of liquid propulsion Stage Systems
2.	Kumar, Sudarshan	Combustion and Propulsion, Aerospace Engineering
3.	Mathavaraj, S.	Space Dynamics, Navigation and Control of Space Vehicles, Optimal Control
4.	Mariappan, Sathesh	Aerospace Propulsion
5.	Narendar, S	Thermo-Structural Testing and Wave Propagation in Nanostructures
6.	Padwal, Manisha B	Propulsion: Atomization and Combustion
7.	Pawar, Samadhan Ananda	Aerospace Propulsion, Unsteady Combustor Physics
8.	Sitara, Brajnish	Inertial navigation
9.	Thammisetty, Devakumar	Liquid propellant rocket engine systems modeling and system engineering

## SECTION-VIII

*(Mining, Metallurgical and Materials Engineering)*

### ACADEMIA

S. No.	Name	Year of Birth	Specialization
1.	Balani, Kantesh	1978	Carbon Nanotube Based Biocomposites, Ultra High Temperature Ceramics, Nanomechanics and Nanotribology
2.	Basu, B	1973	Biomaterials; Engineering Ceramics
3.	Bhattacharya, BB	1942	Exploration Geophysics, Exploration Antarctica
4.	Bhattacharya, J	1958	Reliability and Quality Engineering; Environmental Science & Engineering
5.	Bhowmick, AK	1954	Polymer Science & Engineering
6.	Chattopadhyay, K	1950	Advanced Materials, Phase Transformations
7.	Chokshi, Atul H	1958	Metallurgical & Material Science & Engineering
8.	Dwarakadasa, ES	1941	Metallurgy, Materials Science
9.	Ghosh, Ahindra	1937	Ironmaking and Steel Making, Thermodynamics and Rate Phenomena
10.	Jacob, KT	1944	Thermodynamics of Materials; Solid State Chemical Sensors
11.	Jayaram, Vikram	1956	Materials Science
12.	Kamaraj, M	1961	Surface Coatings: HVOF, HVOF, Development of AM Bio-implant Materials/ Coatings, Failure Analysis of Industrial Components
13.	Kashyap, BP	1948	Deformation Behaviour including Creep and Superplasticity; Thermo-mechanical Processing and Microstructural Evolution
14.	Lele, S	1943	Physical Metallurgy
15.	Manna, Indranil	1961	Materials Engineering, Phase Transformation, Surface Engineering, Bainitic Steel, Nanofluid
16.	Majumdar, Jyotsna	1969	Corrosion and High Temperature Oxidation Friction and Wear Laser Materials Processing Surface modification and coating

17.	Mazumdar, D	1958	Steelmaking, Mathematical Modelling
18.	Mitra, Rahul	1966	High Temperature Materials; Mechanical Behaviour of Materials
19.	Mukhopadhyay, NK	1962	Physical Metallurgy of complex metallic alloys and nanomaterials; Mechanical characterization by micro and nano-indentation
20.	Murty, BS	1964	Phase Transformation; Nano Materials
21.	Natarajan, KA	1942	Mineral Processing, Biometallurgy
22.	Padmanabhan, KA	1945	Mechanical Metallurgy, Metal Forming (Plasticity & Superplasticity)
23.	Pal, AJ	1960	Organic Electronics; Organic and Nanophotovoltaics
24.	Panigrahi, DC	1961	Subsurface Mine Environmental Engineering; Mining Engineering
25.	Prasad, YVRK	1944	Metallurgical Engineering
26.	Raichur, Ashok M	1966	Nanotechnology; Biomaterials
27.	Ramamurty, U	1967	Mechanical Behaviour of Materials; Fracture & Fatigue
28.	Ranganathan, S	1941	Physical Metallurgy and Materials Science
29.	Rao, CNR	1934	Materials Science; Solid State Chemistry
30.	Rao, KP	1950	Welding; Surfacing
31.	Rao, TC	1940	Coal and Mineral Processing
32.	Ravishankar, N	1970	Nanomaterials; Electron Microscopy
33.	Ray, RK	1942	Physical Metallurgy, Crystallographic Texture
34.	Ray, Subrata	1947	Metal Matrix Composites; Energy Materials
35.	Samajdar, Indradev	1964	Crystallographic Texture; Thermomechanical Processing
36.	Surappa, MK	1951	Solidification Processing of Metal Matrix Composites; Tribology of Metal Matrix Composites
37.	Suwas, S	1969	Materials Processing; Crystallographic Texture

**SECTION-VII**  
**(Aerospace Engineering)**

**ACADEMIA**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
	Bhat, MS	1952	Navigation, Guidance and Control; Smart Structures and VAV
	Dattaguru, B	1942	Aerospace Structures, Structural Mechanics, Fracture Mechanics
	Deshpande, SM	1942	Aerodynamics Computational Fluid Dynamics
	Ganguli, Ranjan	1967	Helicopter Engineering; Structural Engineering
	Ghose, Debasish	1960	Guidance and Control; Distributed Computing
	Ghoshal, TK	1945	Control Engineering, Realtime Systems
	Gopalakrishnan, S	1960	Smart Structures; Computational Mechanics
	Hablani, HB	1950	Guidance, Navigation and Control of Space Flight Vehicles
	Jagadeesh, G	1966	Hypersonic Aerothermodynamics; Shockwave Dynamics
	Krishnamurty, AV	1938	Smart Structures, Fracture Mechanics Composites
	Lakkad, SC	1943	Composite Materials, Structural Analysis & Design
	Mahapatra, D Roy	1974	Aerospace Structures; NDT and Structural Health Monitoring
	Mahapatra, PR	1947	Aerospace Systems, Radar & Electronics Systems
	Mathew, Joseph	1961	Fluid dynamics; Turbulence
	Mittal, Sanjay	1968	Unsteady Aerodynamics; Computational Fluid Mechanics
	Mitra, Mira	1977	Aerospace Structures
	Mukunda, HS	1943	Combustion Aerodynamics, Bio-residue for Energy
	Naik, NK	1944	Polymer Matrix Composites; Aerospace Technology

Padhi, R	1972	Guidance and Control of Aerospace & Autonomous Vehicles; Control System Design for Biomedical Applications
Prabhakara Rao, K	1939	Aerospace Structures, Composites
Raghunandan, BN	1949	Aerospace Propulsion; Combustion
Ramaswamy, MA	1936	Aerospace Engineering, Aerodynamics
Sudhakar, Krishnarao	1948	Systems Design; Flight Mechanics
Sujith, RI	1967	Combustion Instability; Optical Flow Diagnostics
Suryanarayan, S	1946	Aeroelasticity; Structural Dynamics
Swamy, MS	1939	Aircraft Design & Development, Wind Tunnel and Flight Testing
Venkatesan, C	1950	Helicopter Dynamics and Aeroelasticity; Smart Structures
Venkateswara Rao, G	1944	Structural Mech.; Finite Element Method

**R&D**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1.	Arunachalam, VS	1935	Integrated Materials Design, Infrastructure Technologies & Policy Studies and Energy Systems & Development
2.	Balaramamoorthy, K	1933	Quality Assurance/NDT; Nuclear Fuel Fabrication
3.	Banerjee, D	1952	Physical Metallurgy
4.	Barshilia, Harish C	1969	Nanoscience and nanotechnology; Surface engineering
5.	Basu, RN	1960	Solid Oxide Fuel Cell; Material Science & Technology
6.	Bhaduri, AK	1959	Materials Joining and Hardfacing
7.	Bhanu Sankara Rao, K	1949	Mechanical Metallurgy, Physical Metallurgy
8.	Bhat, TB	1949	High strength materials; Armour materials
9.	Biswal, SK	1961	Mineral Beneficiation; Pelletisation
10.	Bose, DK	1942	Process Metallurgy of Refractory & Reactive Metals, Production of Uranium Metal
11.	Chattoraj, Indranil	1962	Hydrogen Embrittlement; Localized Corrosion
12.	Dey, GK	1957	Zirconium based alloys; Electron Microscopy
13.	Ganguly, C	1946	Plutonium Metallurgy, Nuclear Fuels, Ceramics & Glass
14.	Ghosh, RN	1948	Physical Metallurgy and Mechanical Metallurgy
15.	Gokhale, AA	1955	Metallurgical Engineering, Materials Processing
16.	Gopalan, R	1960	Energy storage materials; Magnetic materials
17.	Gupta, AK	1951	Hot working of Metals; Materials Engineering
18.	Gupta, CK	1939	Chemical Process Metallurgy, Processing of Advanced Materials
19.	Gupta, RN	1942	Rock Mechanics
20.	Jayakumar, T	1955	Non-Destructive Evaluation; Engineering Failure Analysis



21.	Joshi, Shrikant V	1960	Surface Engineering; Laser Materials Processing
22.	Kamat, SV	1964	Mechanical Behaviour of Materials; Thin Films
23.	Krishnadas Nair, CG	1941	Metallurgical Engineering, Material Science & Engineering
24.	Kumar, Vikas	1959	Metallurgical Engineering; Mechanical Metallurgy
25.	Kutumbarao, VV	1944	Mechanical Metallurgy, Aluminium Process Metallurgy
26.	Madhusudhan Reddy, G	1963	Materials Joining & Friction Stir Processing of Materials
27.	Maiti, HS	1947	Materials Engineering; Glass & Ceramic Engineering
28.	Malakondaiah, G	1951	Mechanical Metallurgy, Speciality Steels
29.	Mannan, SL	1946	Mechanical Metallurgy; Materials Development
30.	Mehrotra, SP	1947	Mineral Processing, Extractive Metallurgy
31.	Mishra, BK	1959	Particulate Technology; Minerals Technology
32.	Mudali, U Kamachi	1960	Corrosion; Nuclear Materials
33.	Mukherjee, Subroto	1963	Plasma Surface Engineering; Plasma Based Biomedical Applications
34.	Mukhopadhyay, AK	1959	Research Design, Development and Industrial Scale Production of Aluminium Alloy; Physical and Process Metallurgy
35.	Narayana Murty, SVS	1969	Aerospace Materials Processing Material Testing and Characterisation Metallurgical Failure Analysis
36.	Pradip	1956	Mineral Engineering, Particle Science & Technology
37.	Rama Rao, P	1937	Physical and Mechanical Metallurgy
38.	Ramachandran, V	1932	Mechanical Metallurgy, Failure Analysis & Accident Investigation
39.	Ramakrishnan, N	1957	Material Science; Computer Modelling & Simulation
40.	Ray, SK	1947	Materials Mechanics
41.	Sharma, SC	1962	High Temperature Materials and Thermal Protection Systems; Advanced Ceramics

42.	Srikanth, S	1960	Metallurgical Thermodynamics; Extractive Metallurgy
43.	Srivastava, Dinesh	1961	Nuclear Fuel Fabrication Research Studies of Nuclear Materials Development of Novel Fabrication Process for Reactor Components Process optimization of Nuclear Power Reactor Components Deformation & Phase Transformation studies in Zirconium based Alloys Laser Material Processing Materials Characterization
44.	Subbarao, EC	1928	Materials Science, R&D Mangement
45.	Sundararajan, G	1953	Surface Engineering, Plastic Deformation and Fracture
46.	Tarafder, S	1961	Fracture mechanics; Structural Integrity Assessment
47.	Venugopal, S	1955	Metal forming; In-Sodium Testing
48.	Waghmare, UV	1968	Computational Materials Science Engineering; Smart Materials

## INDUSTRY

S. No.	Name	Year of Birth	Specialization
1.	Banerjee, Shilowbhadra	1939	Metallurgical and Materials Engineering
2.	Basu, Biswajit	1959	Digital Engineering; Metals and Materials Technology
3.	Bhattacharjee, D	1964	Metallurgy and Materials Science
4.	Chatterjee, AK	1941	Materials Science
5.	Deb, Debashis	1960	Investment Casting; Thermal Barrier Coating
6.	Gowrishankar, N	1944	Ferrous & Non-ferrous Foundry Technology; Steel Heat Treatment & Surface Engineering
7.	Irani, JJ	1936	Metallurgy, Management of Industrial Enterprises
8.	Mohanty, SS	1956	Machine Design; Steel Making and Finishing
9.	Kapur, PC	1935	Mineral Processing; Particle Science & Technology

10.	Likhi, DK	1960	Metallurgical Engineering; Strategic Materials Technology
11.	Mishra, Sanak	1945	Steel Technology, Materials Science & Engineering
12.	Mukherjee, T	1942	Metallurgy of Iron & Steel and Plant Management
13.	Mukherjee, TK	1945	Extraction Metallurgy of Non-ferrous Metals; Mining and separation of heavy minerals and value addition
14.	Muthuraman, B	1944	Metallurgy, Marketing & Finance
15.	Narayana Rao, M	1955	Materials Development and Fabrication
16.	Nerurkar, HM	1948	Metallurgy; Leadership
17.	Ramaswamy, V	1939	Physical Metallurgy, Materials Science
18.	Roongta, SK	1950	Metals; Infrastructure/Power
19.	Sharma, NK	1945	Mining Engineering
20.	Singh, PK	1958	Metallurgy; Project Management; Quality & Process Control; and Iron Making : BF Technology
21.	Singhal, LK	1943	Stainless Steel
22.	Suraj Sahay, Satyam	1968	Analytics, Modeling and Optimization Integrated Computational Materials Engineering Physical Metallurgy
23.	Venugopalan, T	1952	Cold and hot rolling process; Steel making

### **FOREIGN FELLOWSHIP**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1.	Bhadeshia, HKDH	1953	Metallurgy; Materials Modelling
2.	Eckert, Jurgen	1962	Metastable metallic materials; Nanostructured high performance materials; Metallic glasses and composites, Materials for energy applications and microelectronics; Additive Manufacturing
3.	Forsberg, KSE	1943	Mineral Processing

- |     |                                |      |  |
|-----|--------------------------------|------|--|
| 4.  | Fuerstenau, Douglas<br>Winston | 1928 | Mineral and Particulate Processing;<br>Applied Surface Chemistry   |
| 5.  | Gleiter, HD                    | 1938 | Nanoscience and Nanotechnology<br>Materials science and Engineering  |
| 6.  | Kroning, Michael               | 1944 | Non-Destructive Testing  |
| 7.  | Lee, Jae-chun                  | 1957 | Hydrometallurgy; Metal Recycling   |
| 8.  | Lee, William Edward            | 1958 | Ceramics; Nuclear  |
| 9.  | Mahajan, Subhash               | 1939 | Functional Materials; Deformation<br>Behavior of Solids  |
| 10. | Moudgil, Brij Mohan            | 1945 | Particulate processing, Colloid and<br>Surface Chemistry Applied to Mineral<br>& Ceramic Processing, and Advanced<br>Materials |
| 11. | Nickel, H                      | 1930 | High Temperature Alloys and<br>Structural Ceramics; Nuclear & Non-<br>nuclear energy plants                                    |
| 12. | Ramakrishna, Seeram            | 1964 | Materials Engineering;<br>Nanotechnology   |
| 13. | Rath, Bhakta B                 | 1934 | Metallurgy and Materials Science   |
| 14. | Ravindran, C                   | 1945 | Near-Net Shape Casting Processes;<br>Light Alloys of Magnesium and<br>Aluminium  |
| 15. | Roos, EJ                       | 1945 | Strength of Materials and Materials<br>Science   |
| 16. | Somasundaran, P                | 1939 | Mineral Engineering  |
| 17. | Prof. Subra Suresh             | 1956 | Mechanical Properties of Materials;<br>Cell & Molecular Biomechanics   |
| 18. | Taylor, Kathleen C.            | 1942 | Catalysis; Materials Science &<br>Engineering  |
| 19. | Tummala, Rao R                 | 1942 | Electronics and Materials Science  |

## INAE YOUNG ASSOCIATES ON ROLL

S. No.	Name	Specialization
1.	Acharyya, Swati Ghosh	Corrosion Science and Engineering
2.	Chakraborty, Poulami	Liquid Metal Corrosion, Materials for Fusion & Advanced Nuclear Reactors
3.	Devi, Pooja	Material Engineering, Sensors, Water and Energy Harvesting Devices
4.	Ghorai, Uttam Kumar	Materials Science & Engineering, Nanoscience & Nanotechnology
5.	Khandelwal, Mudrika	Nanofibrous Composites
6.	Krishna, KVM	Development of thermo mechanical processing of nuclear engineering components, characterization and modeling of deformation, solid state phase transformation
7.	Kumar, Praveen	Mechanical behaviour of materials with emphasis on electric field and length scale effects
8.	Mandal, Sumantra	Characterization of microstructural evolution during thermo-mechanical processing and materials modeling.
9.	Mukhopadhyay, Amartya	Engineering ceramics and composites, Materials for electrochemical energy storage
10.	Prasad, MJNV	Mechanical behavior of materials; Creep and Superplasticity; Electrodeposition
11.	Prasad Reddy, GV	Low cycle fatigue, Thermomechanical fatigue, Creep-fatigue interaction and Development of Nuclear structural materials for Fast Reactors, Fusion Reactors and Advanced ultra-supercritical power plants.
12.	Rajulapati, KV	Nanostructured materials, Nanomechanics, Non-equilibrium Processing, Severe plastic deformation
13.	Shukla, Anoop Kumar	Materials Engineering
14.	Srikanth, VVSS	Synthesis, structure-property correlation and functionalization of carbon nanomaterials Nanocomposite materials Non-destructive testing.
15.	Tiwary, Chandra Sekhar	Metallurgical and Materials Engineering

**SECTION-IX**  
**(Energy Engineering)**  
**ACADEMIA**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1	Bandyopadhyay, Santanu	1970	Energy Systems Engineering; Process Integration
2	Banerjee, Rangan	1964	Energy Systems Engineering; Energy Modelling
3	Basu, S	1963	Hydrogen Energy & Fuel Cell Technology; Electrochemical Conversion & Energy Storage
4	Chetal, SC	1949	Fast Breeder Reactors, Mechanical Engineering Design
5	Das, D	1953	Biochemical Engineering; Environmental Biotechnology
6	Reddy, KS	1970	Solar Energy; Heat Transfer
7	Venkataraman, Chandra	1963	Environmental Engineering; Climate Change

**R&D**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1.	Agrawal, RG	1949	Design of Mechanism; Fluid Power
2.	Anand, AK	1939	Nuclear Engineering, Mechanical Engineering
3.	Bajaj, SS	1945	Nuclear Power Reactors, Nuclear Reactor Safety
4.	Bera, TK	1954	Nuclear Chemical Engineering, Chemical Vacuum Technology
5.	Bhasin, Vivek	1965	Nuclear Reactor Component Integrity; Structural Analysis and Design
6.	Bhoje,SB	1942	Fast Breeder Reactors
7.	Chatterjee, SK	1935	Nuclear Power, Nuclear Safety

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|-----|------------------|------|---|
| 8.  | Chaturvedi, S    | 1962 | Numerical Simulation of Shock waves; High-velocity impact and Pulsed Electromagnetics; High Performance Computing   |
| 9.  | Chidambaram, R   | 1936 | High Pressure Physics, Nuclear Technology   |
| 10. | Gantayet, LM     | 1950 | Isotope Separation process and technology for Nuclear Fuel Cycle; Laser Photochemical Engineering   |
| 11. | Kakodkar, Anil   | 1943 | Nuclear Reactor Technology, Structural Analysis and Design  |
| 12. | Kale, RD         | 1942 | Sodium Technology, Centrifugal Machines   |
| 13. | Mathur, Ajay     | 1958 | Chemical Engineering  |
| 14. | Mehra, VK        | 1948 | Reactor Design; Project Engineering   |
| 15. | Mehta, SK        | 1934 | Safety Assessment of Nuclear Power Plant & Research Reactors; Reactor components and systems design and development   |
| 16. | Mukherjee, AB    | 1958 | Design & development of pressure vessel, Steam Generator, Heat Exchanger etc.; Development of Manufacturing technology for Process Heat Exchanger, Pressure vessel etc. |
| 17. | Nayak, AK        | 1965 | Nuclear Reactor Design; Thermal Hydraulics & Safety   |
| 18. | Narayana Das, J  | 1949 | Chemical Engineering  |
| 19. | Natarajan, R     | 1953 | Nuclear Spent Fuel Reprocessing Plant Design, Operation and Management, Solvent Extraction Process and Equipment Design   |
| 20. | Nashine, BK      | 1963 | Design of electromagnetic pumps for Sodium application Design of electrical system for experimental sodium loop   |
| 21. | Rajan, M         | 1947 | Liquid Metal Technology, Safety of Nuclear Reactors   |
| 22. | Ramamurthy, VS   | 1942 | Nuclear Physics, Atomic & Molecular Clusters & Ion Beam Applications; Science Administration  |
| 23. | Roy, SB          | 1956 | Nuclear Chemical Engineering; High temperature Metallothermic Reduction   |
| 24. | Sanatkumar, A    | 1941 | Mechanical Engineering  |
| 25. | Singh, Ram Kumar | 1953 | Computational & Structural Mechanics; Nuclear Power & Energy Technologies   |
| 26. | Sinha, RK        | 1951 | Nuclear Reactor Technology; Mechanical Engineering Design   |

27.	Sonde, RR	1957	Simulation & Modelling; Process Design and Cascade Theory
28.	Srinivasan, MR	1930	Nuclear Power, Energy Technologies
29.	Sundaram, SM	1932	Nuclear Reactor Technology, Process Design and Development of Projects
30.	Vasudeva Rao, PR	1953	Actinide Separations; Nuclear Fuel Cycle
31.	Vaze, Keshav Krishna	1950	Nuclear Engineering, Pressure Vessel & Piping
32.	Vyas, KN	1957	Nuclear Fuel Design; Water Reactor System Design
33.	Wattal, PK	1951	Reprocessing and Waste Management
34.	Yadav, RS	1952	Design of Equipment; Project Management

### INDUSTRY

S. No.	Name	Year of Birth	Specialization
1.	Bajaj, HL	1945	Power; Management
2.	Balasubrahmanian, AK	1961	Nuclear Power Plants Nuclear Design and Safety Project Planning Ageing management of plants
3.	Bandyopadhyay, Bibek	1953	Solar Energy; Energy Policy
4.	Bhardwaj, SA	1949	Mechanical Engineering, Nuclear Engineering
5.	Bindra, GS	1951	Thermal Engg. - Steam & Gas Turbines; Power Plant Engg.
6.	Bohra, SA	1944	Nuclear Engineering
7.	Chande, SK	1948	Nuclear Safety and Regulation; Commissioning and Operation of Nuclear Power Plants
8.	Chaturvedi, Pradeep	1946	Energy; Sustainable Development
9.	Chintala, Surender	1938	Nuclear Engineering, Instrumentation & Control of Nuclear Power Plants
10.	Ganesh, Anuradda	1968	Alternate Fuels; Energy, (Bio-energy and Coal gasification)



11.	Galla, RN	1938	Lead Acid Batteries; Power Systems
12.	Jain, Shreyans K	1948	Nuclear Technology; Mechanical Engineering
13.	Jayaraj, RN	1950	Nuclear Fuel Fabrication for Thermal Research Reactors, Pressurised Heavy Water Reactors and Boiling Water Reactors, Development of Equipment Required for the Production of Nuclear Fuels
14.	Kotwal, MV	1948	Corporate Management of large conglomerate, Global business in manufacture of critical Pressure Vessels & Heat Exchangers for Process Plants; Manufacture of equipment & systems for Nuclear Power, Aerospace and Defence. Project Management, Applications of Theory of Constraints, Manufacture of Specialised Ships & submarines , Setting up greenfield manufacturing plants & facilities in India & Oman
15.	Kumar, Prabhat	1950	Nuclear Engineering; Mega Project Management
16.	Kumar, Saurabh	1967	Energy Efficiency Policy Planning and Execution
17.	Manohar, VN	1932	Engineering Management; Infrastructure Engineering
18.	Parab, Anil V	1961	Nuclear Engineering; Manufacturing
19.	Popli, Kuljit Singh	1960	Design, Engineering & Implementation of Hydro Projects; Financing of Renewable Energy Projects
20.	Prasada Rao, Bontha	1954	Corporate Planning & Strategy; Technology and R&D Management
21.	Saibaba, N	1954	Nuclear Fuel Fabrication for Thermal Reactors and Pressurized Heavy Water Reactors
22.	Sharma, VK	1941	Reactor Process Design, Project Management & Execution
23.	Srinivasulu, A	1939	Power Sector and Manufacturing
24.	Unnikrishnan, MS	1960	Mechanical Engineering; Energy Engineering

## **FOREIGN FELLOWSHP**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1	Prof. JP Holdren	1944	Energy Technology; Climate Change
2	Dr. Arun Majumdar	1963	Energy and Climate; Nanoscale Science and Engineering

## **INAE YOUNG ASSOCIATES ON ROLL**

<b>S. No.</b>	<b>Name</b>	<b>Specialization</b>
1.	Bajpeyee, Dhananjay S	Advanced Welding Technology for nuclear applications.
2.	Shukla, Rohit	Pulsed Power, Plasma Science and Nuclear Science

**SECTION-X*****(Interdisciplinary and Special Engineering Fields and Leadership in Academia, R&D and Industry)*****ACADEMIA**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1.	Acharya, D	1949	Production-Inventory Systems, Logistics and Supply Chain Management
2.	Agarwal, GC	1930	Photogrammetry, Cartography & Remote Sensing, Educational Technology
3.	Anand, Sneha	1949	Biomedical Instrumentation and Rehabilitation Engineering
4.	Dube, SK	1947	Coastal Engineering and Storm Surge Prediction
5.	Ghosh, Ambarish	1973	Quantum fluids; Nanoscale optical and magnetic manipulation
6.	Guha, SK	1940	Biomedical Engineering, Medical Physiology
7.	Jain, PK	1964	Manufacturing Systems and Engineering; Optimization and Simulation
8.	Kelkar, VL	1942	Management and Finance
9.	Krupanidhi, SB	1951	Epitaxial Compound Semiconductors; Device Physics & Engineering
10.	Kulkarni, Giridhar	1963	Nanomaterials and Self-assembly routes to nanofabrication
11.	Misra, JC	1944	Bioengineering, Structural Engineering
12.	Misra, KB	1943	Reliability and Safety Engineering; Power System Engineering; Performance Engineering
13.	Mohanty, UC	1948	Tropical Meteorology; Weather and Climate Prediction; Regional; Climate Modelling; Monsoon Dynamics
14.	Mukherji, S	1967	Instrumentation; Biosensors
15.	Mukherji, Suparna	1966	Environmental Science & Engineering
16.	Munshi, P	1956	Computer Tomography; Nuclear Safety
17.	Nath, SK	1960	Earthquake Seismology & Engineering-Seismic Hazard Assessment, Microzonation & Tomography; Computational Geophysics, Signal Processing & Pattern Recognition

- |     |                      |      |  |
|-----|----------------------|------|--|
| 18. | Nath, Sunil          | 1962 | Biothermodynamics; Biological Molecular Machines   |
| 19. | Pal, SK              | 1970 | Biomedical Instrumentation; Nanotechnology   |
| 20. | Pradeep, T           | 1963 | Nanotechnology, Water Purification   |
| 21. | Raghavan, S          | 1972 | Materials; Electronic Devices  |
| 22. | Raghuwanshi, NS      | 1962 | Water Management; IT Application in Agriculture  |
| 23. | Rajendran, C         | 1960 | Industrial Engineering; Operations & Supply Chair Management                               |
| 24. | Sahasrabudhe, Anil D | 1957 | Noise and Vibration; Mechanical Design   |
| 25. | Sarma, DD            | 1955 | Materials Physics and Chemistry; Nanoscience and Technology                                |
| 26. | Sen, Prasenjit       | 1956 | Materials Science & Engineering; Nanotechnology  |
| 27. | Shakher, Chandra     | 1949 | Optical Engineering; Laser Applications and Holography                                     |
| 28. | Shankar, R           | 1961 | Industrial Engineering and Operation Management; Decision Science                          |
| 29. | Shanker, Kripa       | 1949 | Supply Chain and Logistical Management; Computer-Integrated/Flexible Manufacturing Systems |
| 30. | Sharan, M            | 1953 | Environmental & Physiological Fluid Mechanics  |
| 31. | Shukla, AK           | 1947 | Batteries, Fuel Cells  |
| 32. | Singh, Kehar         | 1941 | Information Optics; Optical Engineering  |
| 33. | Sirohi, RS           | 1943 | Optical Metrology; Coherent Optics   |
| 34. | Srinivasan, Sampath  | 1961 | Materials Electrochemistry; Energy Systems   |
|     | Srivastava, Rohit    | 1976 | Biomedical Engineering   |
|     | Tiwari, Manoj Kumar  | 1962 | Logistics and Supply Chain Management; Manufacturing Planning                              |
|     | VijayRaghavan, K     | 1954 | Molecular Biology, Genetics and Chemical Engineering                                       |
|     | Visvesvaraya, HC     | 1928 | Cement and Concrete Structures, Technology Upgradation                                     |

**R&D**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1.	Aiyagari, V Rao	1947	Science & Technology Policy and Planning, R&D Programme Management; Operations Research, Systems Analysis & Industrial Engineering Problems
2.	Chandra, Ashoka	1942	Solid State Physics, Electronics & Communication
3.	Gupta, Akhilesh	1963	Climate Change; Atmospheric Sciences
4.	Jayaraman, V	1949	Electronic Engineering; Remote Sensing
5.	Kiran Kumar, AS	1952	Electro Optical Imaging; System Engineering
6.	Krishna Moorthy, JAR	1947	Electro-Optic Instrumentation, Control Systems
7.	Kumar, YP	1947	Materials S&T; International Cooperation in S&T
8.	Mandal, AB	1952	Physical/Biophysical Chemistry, Chemical Engineering and Biotechnology; Colloids, Surfaces, Polymers, Nanomaterials, Environmental Science and Technology
9.	Mohanty, Ajit	1959	Nuclear Physics and Engineering
10.	Prasada Raju, DR	1955	Manufacturing Engineering; Drinking Water-Purification Technologies
11.	Roy, PK	1957	Biomedical Engineering; Biomedical Image Processing
12.	Tayal, Rajiv Kumar	1961	Policy Framework and Management of R&D; Process Engineering and Technology Development
13.	Tyagi, Paritosh C	1932	Environmental Management
14.	Valiathan, MS	1934	Cardiac Surgery, Prosthetic Materials
15.	Venkata Mohan, S	1970	Renewable Energy; Environmental Bioengineering
16.	Verma, Sandeep	1966	Bioengineering, Biomaterials, Interdisciplinary R&D

## INDUSTRY

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1.	Anand, YP	1934	Transportation Engineering and Management
2.	Behera, AK	1954	Agri-Business Development; Institutional Development & Management
3.	Chandrasekaran, N	1963	Global Strategy; Customer centricity
4.	Gupta, Syamal	1934	Environment and Energy; Precision Engineering
5.	Kalyani, BN	1949	Technology; International Business Cooperation
6.	Kumar, Ranajit	1962	Nuclear Engineering; Electronics Engineering
7.	Mande, S	1962	Computational Biology, Bioinformatics Systems Biology
8.	Mazumdar-Shaw, Kiran	1953	Biopharmaceuticals; Affordable Healthcare
9.	Mohanty, RP	1944	Industrial Engineering; General Management
10.	Naidu, BSK	1945	Hydropower Engineering, Non-Conventional Renewable Energy
11.	Patel, VB	1933	Water Resources Projects, Water Supply
12.	Premji, Azim Hasham	1945	Software, Leadership Development
13.	Raju, KS	1950	Chemical Technology, Engineering Projects
14.	Ramachandran, Reena	1941	Chemical Technology and Management
15.	Ramakumar, SSV	1963	Energy Research; Materials Science including Nanotech
16.	Rao, GM	1949	Infrastructure; Corporate Social Responsibility
17.	Shah, RKD	1939	Power Engineering, General Management
18.	Subramanian, K	1967	Systems Biology; Bioinformatics
19.	Sumantran, V	1958	Automobile Engineering; Aerospace Engineering
20.	Tata, Ratan N	1937	Engineering Industries and Management
21.	Verma, RB	1945	Design of Submarines; Design & Development of Off highway vehicles

**FOREIGN FELLOWSHIP**

<b>S. No.</b>	<b>Name</b>	<b>Year of Birth</b>	<b>Specialization</b>
1.	Gadgil, Ashok J.	1950	Environmental Engineering
2.	Laurencin, Cato Thomas	1959	Chemical Engineering; Interdisciplinary Engineering
3.	Packirisamy, M	1964	Micro-Nanotechnologies; Microsensors
4.	Reddy, JN	1945	Applied Mechanics; Computational Methods
5.	Williams, DF	1944	Biomaterials science; Tissue engineering

**INAE YOUNG ASSOCIATES ON ROLL**

<b>S. No.</b>	<b>Name</b>	<b>Specialization</b>
1.	Badhulika, Sushmee	Nanomaterials, devices and circuits, Flexible and wearable nanoelectronics, electrochemical nanosensors
2.	Gorthi ,Sai Siva	Biomedical Instrumentation & Optical Metrology
3.	Raghvendra Sai, VV	Biomedical Engineering, Medical Sensors
4.	Rengan , AK	Biomedical Engineering (Nanotechnology)
5.	Ruth, D. Josephine Selvarani	Instrumentation and control Engineering
6.	Sathish, M	Leather Technology
7.	Sheikh, JN	Fibres & Textile Processing Technology
8.	Sen, Ashis Kumar	Microfluidics, MEMS
9.	Varshney, Pushkar	Refining Technology
10.	Yalavarthy, Phaneendra Kumar	Biomedical Engineering, Medical Imaging

**Fellows Deceased**

Abdul Kalam, APJ  
Acharyulu, SLN  
Agarwal, VK  
Ahluwalia, JC  
Alimchandani, CR  
Amin, Nanubhai B  
Anantharaman, TR  
Ananthanarayana, N  
Antia, Dara P  
Arora, NL  
Arya, AS  
Bajpai, Sanjay  
Bakshi, Rakesh  
Banerjee, Srikumar  
Basu, Debabrata  
Basu, Sekhar  
Bhattacharjee, B  
Bhattacharyya, Amitabha  
Bhattacharya, JC  
Bhattacharyya, KK  
Bhattacharyya, SK  
Bhattacharyya, Subir Kumar  
Bhiday, MR  
Bose, AN  
Chander, Subhash  
Chandra, Satish  
Chandrasekaran, AR  
Chatterjee, Amit  
Chatterjee, BN (Sr.)  
Chattopadhyay, AK



Ghose, TK  
Gowariker, VR  
Gupta, SC  
Gupta, RK  
Hartnett, James P  
Hradaynath, R  
Hudson, Donald E  
Indiresan, PV  
Iyengar, KTS  
Iyengar, NGR  
Jain, RK  
Jayaraman, J.  
Jayaraman, Kunthala  
Jha, CS  
Jha, Rakesh Mohan  
Johnson, William  
Kanetkar, VR  
Kar, Subir  
Kati, SL  
Khanna, P  
Khan, AA  
Khilar, KC  
Koganti, SB  
Knott, John F.  
Kothari, ML  
Kothyari, UC  
Kohli, FC  
Krishna, Jai  
Krishnan, R  
Krishnamoorthy, CS  
Krishnamurthi Rao, CH

Kulandaiswamy, VC  
Kulkarni, BD  
Laddha, GS  
Lakshmanan, N  
Lakshmana Rao, NS  
Lal, Shankar  
Limaye, KU  
Maiti, SK  
Mazumder, Jyotirmoy  
Michael, AM  
Mishra, Subhash C.  
Mitra, SN  
Mody, RH  
Mohanty, AK  
Mohan, Dinesh  
Mukherjee, Amalendu  
Mukherjea, RN  
Mukhopadhyay, PK  
Murti, NGK  
Murthy, CA  
Murthy, CRL  
Murthy, PN  
Nagabhushana Rau, A  
Nag, B  
Nag, BR  
Nag, PK  
Nagaraj, TS  
Naidu, MS  
Nakra, BC  
Nanda, J  
Narasimha, Roddam  
Narasimhan, PL

Nayak, GC  
Nigam, Navin C.  
Padhye, MG  
Padmanabham, G  
Pal, Yash  
Paul, DK  
Patel, CC  
Pitchai, R  
Prasad, Mata  
Rajagopal, KR  
Raha, Subir  
Raj Baldev  
Raj, PA  
Raju, KN  
Raghavan, KV  
Ramachandran, Arcot  
Ramachandran, S  
Ramachandra Rao, P  
Ramamurti, V  
Ramakrishna, A  
Ramakrishnan, S  
Ramakumar, MS  
Ranganathan, VT  
Rai, BK  
Rao, AK  
Rao, GNV  
Rao, JS  
Rao, UR  
Ravindra Reddy, P  
Reddi, SA  
Reddy, KA  
Rodriguez, Placid

Roy, TK  
Sandlas, VP  
Sanyal, GS  
Sarma, VVS  
Schlaich, Jorg Michael  
Sellars, CM  
Sen, SK  
Seshagiri, N  
Sethna, HN  
Seetharamu, KN  
Sharma HR  
Sharma, VM  
Singh, Bharat  
Singh, DV  
Singh, Pritam  
Srinivasan, S  
Srinath, LS  
Srinivasan, N  
Shenoy, KN  
Shenoy, RP  
Sinha, KK  
Som, NN  
Subba Rao, TN  
Subramanyam, RB  
Sundaram, CV  
Sundaresan, BB  
Swani, NM  
Swamy, NVC  
Thapar, LM  
Thathachar, MAL  
Thompson, Donald Oscar  
Toshniwal, GR

Vaidyaraman, PP

Varma, DS

Varshney, RS

Vithayathil, JJ

Wadhawan, AC

Wahi, SP



**International Council of Academies  
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Sciences (CAETS)**





## **International Council of Academies of Engineering and Technological Sciences (CAETS) Members**

### **Argentina**

Prof. Manuel A. Solanet

President

National Engineering Academy (ANI), Argentina

Palacio De Las Aguas Corrientes Viamonte

1951 C1056abc – Ciudad Autónoma De Buenos Aires

Argentina

Phone : +5491159736593

E-mail: msolanet@infupa.com, acadning@gmail.com;

msolanet@infupa.com

Website: <http://www.acadning.org.ar>

### **Australia**

Prof. Hugh Bradlow, FTSE

President

Australian Academy of Technological Sciences and Engineering (ATSE)

PO Box 4776, Kingston,

CT 2604 Australia

Phone: +61 3 9864 0900

E-mail: hugh.bradlow@atse.org.au, samires.hook@atse.org.au;

Kylie.walker@atse.org.au

Website: <http://www.atse.org.au>

### **Belgium**

Prof. Elisabeth Monard

President

Royal Belgium Academy of Applied Sciences (BACAS)

Hertogstraat 1, rue Ducale 1

1000 Brussels, Belgium

Phone: +32 2 550 2323

E-mail: elisabeth.monard@kvab.be

Website: <http://www.kvab.be>

**Canada**

Dr. Soheil Asgarpour,

President

Canadian Academy of Engineering (CAE)

300 - 55 rue Metcalfe Street

Ottawa Ontario ON K1P 6L5, Canada

Phone: +1-613-235-4836; +1 613 235 9056

E-mail: sasgarpour@ptac.org, robert.crawhall@cae-acg.ca;

mascher@mcmaster.ca

Website: <http://www.cae-acg.ca>

**China**

Prof. Xiaohong LI

President,

Chinese Academy of Engineering (CAE)

2 Bingjiaokou Hutong

Xicheng District, Beijing 100088,

Beijing Post Box8068, China

Phone: +86 10 5930 0264

E-mail: zy@cae.cn; rht@cae.cn

Website: <http://www.cae.cn>

**Croatia**

Prof. dr. Sc. Vladimir Andročec

President

Croatian Academy of Engineering (HATZ)

PO Box 59, HR 10001

28 Kacic Street, HR 10 000 Zagreb, Croatia

Phone: +385 1 4922-559

Fax: +385 1 4922-569

E-mail: androcec@hatz.hr, hatz@hatz.hr;

Website: <http://www.hatz.hr>

**Czech Republic**

Prof. Ing. Petr Zuna D.Eng.hc, FEng.

President

Engineering Academy of the Czech Republic (EA CR)

Narodni trida 3. 110 000 Prague 1

Czech Republic

Phone: +420 221 403 478

E-mail: petr.zuna@fs.cvut.cz, hayer@kav.cas.cz;

Website: <http://www.eacr.cz>

**Denmark**

Prof. Anders Bjarklev

President

Danish Academy of Technical Sciences (ATV)

Faestningens Materialgaard

30 Frederiksholms Kanal, A1

DK 1220 Copenhagen K

Denmark

Phone: +4545881311, +4541175959 (Lia Leffland)

E-mail: lt@atv.dk; ll@atv.dk, atvmail@atv.dk, mab@atv.dk

Website: <http://www.atv.dk>

**Finland**

Dr. Panu Nykanen

Secretary General

Council of Finnish Academies (CoFA)

Otakaari 24

02150 Espoo

Finland

Phone: + 358 405483307

E-mail: panu.nykanen@taf.fi, info@academies.fi;

Website: <https://www.academies.fi>

**France**

Prof. Pascal Viginier

President

National Academy of Technologies of France (NATF)

Le Ponant – Batiment A

19, rue Leblanc

75015 Paris, France

Phone: +33 (0)1 53 85 44 43

E-mail: president@academie-technologies.fr;

bruno.revellin-falcoz@academie-technologies.fr

Website :<http://www.academie-technologies.fr>

**Germany**

Karl-Heinz Streibich and Johan-Dietrich (Jan) Worner  
Presidents  
National Academy of Science and Engineering (acatech)  
Karolinenplatz 4  
80333 Munich  
Germany  
Phone: +49-30206309618  
E-mail: wagner@acatech.de; xu@acatech.de  
Website: <http://www.acatech.de>

**Hungary**

Dr. Miklós Bendzsel  
President  
Hungarian Academy of Engineering (HAE)  
H-1111 Budapest, Műegyetem rkp. 3.  
Hungary  
Phone: +36 1 353 3996  
E-mail: mbendzsel@gmail.com, mma@mail.bme.hu  
Website: <http://www.mernokakademia.hu>

**India**

Prof. Indranil Manna  
President  
Indian National Academy of Engineering (INAE)  
Ground Floor, Block-II,  
Technology Bhavan,  
New Mehrauli Road,  
New Delhi-110 016 (India)  
Phone : (91) - 11 - 26582475  
Email : [inaehq@inae.in](mailto:inaehq@inae.in)  
Website : [www.inae.in](http://www.inae.in)

**Ireland**

Prof. Tom Leahy  
Irish Academy of Engineering  
22 Clyde Road  
Ballsbridge, Dublin  
D04 R3N2 Ireland  
Phone : +353 1 665 1337  
Email : [tomleahywater1@gmail.com](mailto:tomleahywater1@gmail.com), [chiefexecutive@iae.ie](mailto:chiefexecutive@iae.ie)  
Website : <http://www.iae.ie/>

## **Japan**

Prof. Yoshimitsu Kobayashi

President

The Engineering Academy of Japan (EAJ)

HK Park Building III 2F, 2-7-3 Kanda sarugakucho,

Chiyoda-ku, Tokyo 101-0064 Japan

Phone: +81-3-6811-0586

E-mail: kmorimoto@jamstec.go.jp, academy@ej.or.jp

Website: <https://www.ej.or.jp>

## **Korea**

Prof. Oh-Kyong Kwon

President

The National Academy of Engineering of Korea (NAEK)

06152, 15F, Korea Technology Center

Teheran-ro 305, Gangnam-gu, Seoul

Republic of Korea

Phone: +82-2-6009-4010

E-mail: okwon@hanyang.ac.kr, knr@naek.or.kr, naek@naek.or.kr; shk@naek.or.kr

Website: <http://www.naek.or.kr>

## **Mexico**

Dr. Augustin Alvarez-Icaza Longoria

President

Academy of Engineering (AI), Mexico

Palacio de Minería, Tacuba #5 Centro Historico

06000 Ciudad de Mexico, Mexico

Phone: +52-55-21-67-90; +52-55-21-44-04

E-mail : mbarrerariv58@gmail.com, academiadeingenieria@ai.org.mx

gmedina.gamf@gmail.com

Website: <http://www.ai.org.mx>

## **Netherlands**

Dr. Margrethe Jonkman

President

Netherlands Academy of Technology and Innovation (ACTI.nl)

Kloveniersburgwal 29

P.O. Box 191921, 1011 JV Amsterdam,

Netherlands

Phone: +31 20 5510 802

E-mail: info@acti-nl.org; lieke.nieuwland@knav.nl

Website: <http://www.acti-nl.org>

**New Zealand**

Dr Brent Clothier, FRSNZ

President,

Royal Society Te Apārangi

11 Turnbull Street, Thorndon, Wellington 6011

Aoeteroa

New Zealand

Phone: +64 4 472 7421

Email: [geoff.chase@canterbury.ac.nz](mailto:geoff.chase@canterbury.ac.nz), [michelle.wickens@royalsociety.org.nz](mailto:michelle.wickens@royalsociety.org.nz)

Website : <https://www.royalsociety.org.nz/>

**Nigeria**

Engr. Alex O. Ogedegbe

President

Nigerian Academy of Engineering (NAE)

Chemical and Petroleum Engineering Complex

University of Lagos, Akoka Yaba, Lagos

Nigeria

Telephone: +2349070778171; +2348023224572

Email: [aooqedegbe@gmail.com](mailto:aooqedegbe@gmail.com), [info@nae.org.ng](mailto:info@nae.org.ng)

Website: <http://www.nae.org.ng>

**Norway**

Prof. Torbjørn Digernes

President

Norwegian Academy of Technological Sciences (NTVA)

Lerchendal Gaard

NO-7491 Trondheim,

Norway

Phone: +47 962 23 525

E-mail: [torbjorn.digernes@ntnu.no](mailto:torbjorn.digernes@ntnu.no), [post@ntva.no](mailto:post@ntva.no)

Website: <http://www.ntva.no>

**Pakistan**

Dr.-Ing. Jameel Ahmad Khan

President

Pakistan Academy of Engineering (PAE)

E-16/2, Block 7, Gulshan-e-Iqbal,

Karachi - 75300, Pakistan

Tel : +0213-4831726, Cell: 0347-1803374

E-mail: [profjakistan@pacadengg.org](mailto:profjakistan@pacadengg.org), [drnasimakhan@pacadengg.org](mailto:drnasimakhan@pacadengg.org)

Website: <http://www.pacadengg.org/contactus.html>

**Serbia**

Prof. B. Kovacevic

President

Academy of Engineering Sciences of Serbia (AESS)

Serbia, 11000 Belgrade Kraljice Marije 16, Room 218/a

Serbia

Tel : +381 11 3370 652

E-mail: ains@ains.rs, ains@ains.rs; sanja.vranes@institutepupin.com

Website: <http://www.ains.rs>

**Slovenia**

Prof. Mark Pleško

President

Slovenian Academy of Engineering (IAS)

Tomsiceva 4, 1000 Ljubljana

Slovenia

Phone: +386 (0)1 425 4418

E-mail: predsednik@ias.si, info@ias.si

Website: <http://www.ias.si>

**South Africa**

Prof Elsabe Kearsley

President

South African Academy of Engineering (SAAE)

PO Box 13071, Hatfield 0028,

South Africa

Phone: +27 72 594-1441

E-mail: elsabe.kearsley@up.ac.za , office@saae.co.za

Website: <http://www.saae.co.za>

**Spain**

Mr. Antonio Colino Martinez

President

Real Academia de Ingenieria (RAI)

Don Pedro, 10

28005 Madrid,

Spain

Phone: +34 915 28 20 01

E-mail: presidente@raing.es; acolino@raing.es, secretaria@raing.es

Website: <http://www.raing.es>

**Sweden**

Prof. Tuula Teeri

President

Royal Swedish Academy of Engineering Sciences (IVA)

Box 5073, 102 42 Stockholm, Sweden

Phone: +46 8 791 2000, +46 76 112 03 22 (Elin Elliot)

E-mail: [tuula.teeri@iva.se](mailto:tuula.teeri@iva.se), [Elin.Elliot@iva.se](mailto:Elin.Elliot@iva.se)

Website: <http://www.iva.se>

**Switzerland**

Dr. Willy R. Gehrler

President

Swiss Academy of Engineering Sciences (SATW)

St. Annagasse 18, 8001 Zurich

Switzerland

Phone: +41 44 226 50 11 / +41-44 226 50 12

E-mail: [rita.hofmann@satw.ch](mailto:rita.hofmann@satw.ch), [sandra.weidmann@satw.ch](mailto:sandra.weidmann@satw.ch)

Website: <http://www.satw.ch>

**United Kingdom**

Sir Jim McDonald

President

Royal Academy of Engineering (RAEng), UK

3 Carlton House Terrace

London SW1Y 5DG,

United Kingdom

Phone: +44 20 7766 0600

E-mail: [president@raeng.org.uk](mailto:president@raeng.org.uk), [shane.mchugh@raeng.org.uk](mailto:shane.mchugh@raeng.org.uk)

Website: <http://www.raeng.org.uk>

**Uruguay**

Acad. Ing. Julio Fernández Odella

President

National Academy of Engineering of Uruguay (ANIU)

Cuareim 1492

11100 Montevideo,

Uruguay

Phone: +59899107365

E-mail: [julio.fernandez@ort.edu.uy](mailto:julio.fernandez@ort.edu.uy), [acandinguy@gmail.com](mailto:acandinguy@gmail.com),

[julio1fer@gmail.com](mailto:julio1fer@gmail.com), [acandinguy@gmail.com](mailto:acandinguy@gmail.com)

Website: <http://www.aniu.org.uy>



**USA**

Dr. John L. Anderson

President

National Academy of Engineering (NAE),

500 Fifth Street NW

Washington, DC 20001,

USA

Phone: +1-202-334- 3677; +1-202 334 1680

E-mail: [aromig@nae.edu](mailto:aromig@nae.edu), [jmtien@miami.edu](mailto:jmtien@miami.edu)

Website: <http://www.nae.edu>

**Dr. Ruth A. David**

Secretary, Treasurer

CAETS

112 Pleasant Grove Road

Locust Grove, Virginia 22508

USA

Phone: +1 703 527 5782

Fax: +1 703 526 0570

E-mail: [caets@nae.edu](mailto:caets@nae.edu), [RDavid@nas.edu](mailto:RDavid@nas.edu)

Website: <http://www.caets.org>

## Membership of Academies and Professional Societies

Av.H.F.	--	Alexander von Humboldt Foundation
A.A.A.S.	--	American Association of the Advancement of Sciences
A.A.A.Sc.	--	American Academy of Arts & Sciences
A.A.A.E.T.	--	ASEAN Academy of Engineering & Technology
A.A.F.	--	Academician Academy of Finland
A.A.Sc.	--	Austrian Academy of Sciences
A.B.I.	--	American Biographical Institute
A.B.A.P	--	Association for Biotechnology and Pharmacy
A.C.C.E.	--	Association of Consulting Civil Engineers (I)
A.C.C.S.	--	Advanced Computing & Communication Society
A.C.E.	--	Association of Consulting Engineers
A.C.I. (USA)	--	American Concrete Institute
A.C.L.	--	Association of Computational Linguistics
A.C.M.	--	Association of Computing Machinery (USA)
A.C.S (USA)	--	American Chemical Society
A.Cer.S.	--	American Ceramic Society, USA
A.E.G.	--	Association of Exploration Geophysists (USA)
A.F.S.	--	American Foundry Society
A.G.U.	--	American Geophysical Union, USA
A.H.S.	--	American Helicopter Society
A.I.(Mexico)	--	Academy of Engineering of Mexico
A.I.M.B.E.	--	American Institute of Medical and Biological Engineers
A.I.A.A.	--	American Institute of Aeronautics and Astronautics
A.I.Ch.E.	--	American Institute of Chemical Engineers
A.I.M.A.	--	All India Management Association
A.I.M.E.	--	American Institute of Mining, Metallurgical and Petroleum Engineers

A.M.M.	--	Association of Machines and Mechanisms
A.M.E.S.	--	The Academy of Medicine, Engineering and Science
A.M.S.	--	Academy of Medical Sciences
A.P.A.M.	--	Asia Pacific Academy of Materials
A.P.D.A.	--	Asia-Pacific Desalination Association
A.P.A.Sc.	--	Andhra Pradesh Academy of Sciences
A.P.S.	--	American Physical Society
A.R.A.I.	--	Automotive Research Association of India
A.R.E.A.	--	American Railway Engineering Association
A.R.S.I.	--	Amateur Radio Society of India
A.S.A.E.	--	American Society of Agr. Engg.
A.S.E.	--	American Society of Engineering
A.S.C.B.	--	American Society for Cell Biology
A.S.C.C. (USA)	--	American Society for Concrete Construction
A.S.C.E.	--	American Society of Civil Engineers
A.S.C.O.	--	American Society of Clinical Oncology
A.S.E.E.	--	Amerin Society of Engineering Education
A.S.H.R.A.E.	--	American Society of Heating, Refrigerating and Air conditioning Engineers
A.S.M.(USA)	--	The American Society of Metals
A.S.M.I.(UK)	--	American Society for Materials International (ASM)
	--	American Society of Microbiology
A.S.M.E	--	American Society of Mechanical Engineers
A.T.M.A.	--	Antenna Test & Measurement Association of India
A.V.S.	--	American Vaccum Society
Ae.S.I.	--	Aeronautical Society of India
A.H.I.	--	Association of Hydrologists of India
Astr. S.I.	--	Astronomical Society of India
	--	Astronautical Society of India
B.A.Sc.	--	Bavarian Academy of Sciences,Germany
B.B.A.W.	--	Berlin-Brandenburg Academy of Sciences and Humanities

B.C.C.I.	--	Bombay Chamber of Commerce and Industry
B.E.S.	--	Broadcast Engineering Society
B.P.S.	--	Biophysical Society
B.R.S.I.	--	Biotech Research Society of India
B.S.S.	--	Breakthrough Science Society (India)
B.N.A.E	--	Brazilian National Academy of Engineering
C.A.A.I.	--	Development Council for Automobiles & Allied Industries
C.A.A.S.	--	Croatian Academy of Arts and Sciences
C.A.E.	--	Croatian Academy of Engineering
C.A.S.	--	Canadian Academy of Sciences
C.A.E.	--	Canadian Academy of Engineering
C.B.I.M.	--	Companion the British Institute of Management
C.E.	--	Chartered Engineer
C.G.I.	--	City & Guilds of London Institute
C.I.	--	Combustion Institute(USA)
C.I.I.	--	Confederation of Indian Industry
C.I.G.R.E.	--	International Council on Large Electric System
C.R.S.I.	--	Chemical Research Society of India
C.A.E.	--	Chinese Academy of Engineering
C.A.S.	--	Chinese Academy of Sciences
C.R.F.	--	Coastal Research Foundation, USA
C.M.S.I.	--	Condition Monitoring Society of India
C.S.I.	--	Computer Society of India
C.S.I.	--	Catalysis Society of India
C.I.I.	--	Confederation of Indian Industry
D.G.Zf.P	--	German Society of Non-Destructive Testing
DCAAI	--	Development Council for Automobiles & Allied Industries
E.A.E.G.	--	European Association of Exploration Geophysicists
E.A.J.	--	The Engineering Academy of Japan

E.A.S.A.	--	European Academy of Sciences and Arts
E.A.Sc.	--	European Academy of Sciences
E.C.S.	--	The Electrochemical Society
E.E.R.I.(US)	--	Earthquake Engineering Research Institute, USA
E.F.B.	--	European Federation of Biotechnology
E.I.C.	--	The Engineering Institute of Canada
E.M.S.I.	--	Electron Microscopy Society of India
E.M.S.	--	European Mechanical Society
E.U.C.C.	--	European Union for Coastal Conservation
E.S.I.	--	Electrochemical Society of India
F.A.A.M.	--	Fellow, American Academy of Mechanics
F.A.I.	--	Fertiliser Association of India
F.A.S.T.	--	Fellow West Bengal Academy of Sciences & Technology
F.A.Sc.	--	Fellow of Indian Academy of Sciences
F.A.Sc.,Chennai	--	Fellow of The Academy of Sciences, Chennai
F.I.B.	--	Federation Internationale Du Beton
F.I.C.	--	Fellow, Imperial College of Science, Technology and Medicine
F.I.C.(UK)	--	Fellow, The Imperial College, London, UK
F.I.Ch.M.A.	--	Indian Chemical Manufacturer's Association
F.I.C.T.(UK)	--	Member of Chartered Institute of Transport ,UK
F.N.A.	--	Fellow of Indian National Science Academy
F.N.A.A.S.	--	Fellow of the National Academy of Agricultural Sciences
F.N.A.E.	--	Fellow of Indian National Academy of Engineering
F.N.A.Sc.	--	Fellow of the National Academy of Sciences (India)
F.N.R.S.	--	Swiss National Science Foundation
F.P&R.I.(Lon)	--	Fellow of Plastics and Rubber Institute (London)
F.P.S.	--	Fluid Power Society
F.R.Eng.	--	Fellow of the Royal Academy of Engineering (UK)

F.R.S.	--	Fellow of the Royal Society
F.R.Sa(UK)	--	Fellow of the Safety & Reliability Society (UK)
F.T.I.	--	Fellow of Textile Institute
F.T.S.E.	--	Foreign Fellow, Australian Academy of Technological Sciences and Engineering
F.I.C.C.I.	--	Federation of Indian Chambers & Commerce Industry
F.A.S.L.	--	The Finnish Academy of Science and Letters
G.A.Sc.	--	German Academy of Science Leopoldina
G.A.E.	--	German Academy of Engineering
G.M.M.S.I.	--	The Geological Mining & Metallurgical Society of India
G.S.A.	--	The Genetic Society of America
G.S.A.	--	Gujarat Science Academy
G.S.I.	--	Geological Society of India
H.S.I.	--	Hydrological Society of India
I.A.A.	--	International Academy of Astronautics, Paris
I.A.S.S.	--	Indian Academy of Social Sciences
I.A.A.P.C.	--	Indian Association for Air Pollution Control
I.A.A.S.T.A.	--	Indian Association for Aerosol, Science & Technology Association
I.A.B.L.	--	International Association of Business Leaders
I.A.B.S.E.	--	International Association of Bridge and Structural Engineering
I.A.H.R.	--	International Association of Hydroenvironment Engineering and Research
I.A.C.M.	--	Indian Association for Computational Mechanics
I.A.C.M.A.G.	--	International Association for Computer Methods and Advances in Geomechanics
I.A.C.R.	--	International Assoc. Crypt. Research
I.A.Cer.	--	International Academy of Ceramics
I.A.E.	--	Institution of Automobile Engineers (India)

I.A.E.E.	--	International Association for Earthquake Engineering, (USA)
I.A.E.M.	--	Indian Institute of Environment Management
I.A.H.	--	Indian Association of Hydrologists
I.A.S.S.	--	International Association for Shell and Spatial Structures
I.A.H.(UK)	--	International Association of Hydrologists, UK
I.A.H.R.	--	International Association of Hydraulic Research
I.A.I.T.	--	International Academy of Information Technology
I.A.L.T.	--	International Association of Lowland Technology
I.A.M.P.	--	Indian Academy of Medical Physics
I.A.S.T.A	--	Indian Aerosol Science and Technology Association
I.A.P.R.	--	International Association of Pattern Recognition
I.A.R.	--	International Academy of Refrigeration
I.A.Q.	--	International Academy for Quality
I.A.Struct.E.	--	Indian Association of Structural Engineers
I.A.Struct.M.R.T.	--	International Association of Struct. Mechanics in Reactor Technology
I.A.S.W.C.	--	Indian Association of Soil & Water Conservationists
I.A.U.	--	International Astronomical Union
I.A.V.S.D.	--	International Association of Vehicle System Dynamics
I.A.W.Q.(Lond)	--	International Association of Water Quality
F.I.B.		International Federation for Structural Concrete
I.N.E.A.	--	International Nuclear Energy Academy
I.F.I.Biop	--	International Forum on Industrial Bioprocesses
I.B.C.	--	Indian Building Congress
I.C.A.	--	Indian Council of Arbitrators
I.C.A.	--	Indian Council of Arbitration
I.C.C.	--	International Chamber of Commerce
I.C.C.P.	--	Institute of Chartered Computer Professionals of India

I.C.E.(Lond.)	--	The Institution of Civil Engineers (London)
I.C.E.(UK)	--	The Institution of Engineers (UK)
I.C.I.	--	Indian Concrete Institute
ICEIT	--	Institution of Communication Engineers and Information Technologists
I.Cer.S.	--	Indian Ceramic Society
I.C.S.	--	Indian Chemical Society
I.C.S.	--	Indian Cryogenics Council
I.Chem.E.	--	Institution of Chemical Engineers, UK
I.E.(I)	--	The Institution of Engineers (India)
	--	The Institution of Engineers (Singapore)
I.E.E.	--	The Institute of Electrical Engineers (UK)
I.E.E.E.	--	The Institute of Electrical and Electronics Engineers (USA)
I.E.F.	--	International Energy Foundation
I.E.S.A.	--	Indian Energy Storage Association
I.E.T.	--	The Institution of Engineering and Technology
I.E.T.E.	--	The Institution of Electronics and Telecommunication Engineers
I.ET.I.	--	International Engineering and Technology Institute
I.F.S.	--	International Ferrocement Society(Bangkok)
I.F.S.A.	--	International Fuzzy Systems Association
I.F.T.	--	Institute of Food Technologists, USA
I.O.P.	--	Institute of Physics
I.G.S.	--	Indian Geotechnical Society
I.G.U.	--	Indian Geophysical Union
I.I.A.S.	--	Indian Institute of Analytical Society
I.I.B.E.	--	Indian Institute of Bridge Engineers
I.I.Cer.	--	Indian Institute of Ceramics
I.I.Ch.E.	--	Indian Institute of Chemical Engineers
I.I.E.	--	Institute of Industrial Engineers



I.I.E.(USA)	--	Institution of Industrial Engineering, USA
I.I.E.E.	--	International Institute of Electrical Engineers
I.A.S.S.I.E.A.S.A.	--	The Institute of Advanced Studies on Sustainability, Institute of the European Academy of Sciences and Arts, Germany
I.I.I.E.	--	The Indian Institute of Industrial Engineers
I.I.M.	--	The Indian Institute of Metals
I.I.M.E.	--	Indian Institute of Mineral Engineers
I.I.M.M.	--	Indian Institute of Material Management
I.I.N.A.	--	Indian Institute of Naval Architects
I.I.P.E.	--	Indian Institute of Plant Engineers
I.I.Q.	--	Indian Institute of Quality
I.I.Q.A.	--	International Institute of Quality Assurance
I.I.R.	--	International Institute of Refrigeration
I.I.W.	--	Indian Institute of Welding
I.L.A.	--	Indian Laser Association
I.M.	--	Institute of Materials (Lond)
I.M.A.	--	Indian Microbiology Association
I.M.A.(UK)	--	Institute of Mathematics and its Applications (UK)
I.M.A.P.S.(I)	--	International Microelectronics & Packaging Society
I.M.E.A.	--	Indian Mining Engineering Association of India
I.M.R.S.S.	--	International Microwave Remote Sensing Society
I.M.S.	--	Indian Meteorological Society
	--	Indian Microelectronics Society
I.Mech.E.(Lond.)	--	The Institution of Mechanical Engineers
I.N.A.	--	Institute of Naval Architects
I.N.C.E.	--	Institute of Noise Control Engineering of USA
I.N.S.	--	Indian Nuclear Society
I.N.S.A.R.M.	--	Indian National Society for Aerospace and Related Mechanisms
M.I.S.A.	--	Indian Steel Association

I.O.D.	--	Institute of Directors
I.O.N.	--	Institute of Navigation
I.P.A.	--	Indian Physics Association
I.P.H.E.	--	Institute of Public Health Engineering
I.P.I.	--	Indian Plastics Institute
I.P.W.E.	--	Institution of Permanent Way Engineers(India)
I.Prod.E.(Lond.)	--	Institution of Production Engineers
I.I.Prod.E	--	Indian Institution of Production Engineers
I.R.C.	--	Indian Road Congress
I.R.I.	--	Indian Rubber Institute
I.R.I.S.	--	Institute of Robotics & Intelligent Systems
I.R.T.	--	Institute of Rail Transport, India
I.S.	--	The Institute of Surveyors
I.S.A.E.	--	Indian Society of Agricultural Engineers
I.S.A.M.P.E.	--	Indian Society of Materials and Process Engineering
I.S.A.S.	--	Indian Society for Analytical Scientists
I.S.B.S.E.	--	International Society for Bridge & Structural Engineering, (Switzerland)
I.S.E.E.S	--	International Society for Energy, Environment and Sustainability
I.S.C.A.	--	Indian Science Congress Association
I.S.C.A.R.	--	Indian Society for Coastal Agriculture Research
I.S.E.	--	Institute of Standards Engineers
I.S.E.G.	--	Indian Society of Engineering Geology
I.S.E.E.S.	--	International Society for Energy, Environment and Sustainability
I.S.E.T.	--	Indian Society of Earthquake Technology
I.S.G.E.C.	--	International Society on Genetic & Evolution Computation
I.S.H.	--	Indian Society for Hydraulics
I.S.H.M.E.	--	International Society for Hybrid Micro Electronics

I.S.H.M.T.	--	Indian Society for Heat & Mass Transfer
I.S.H.R.A.E.	--	Indian Society of Heating, Refrigerating and Air Conditioning Engineers
I.S.I.	--	Instrument Society of India
	--	International Shockwave Institute
I.S.L.E.	--	Indian Society of Lighting Engineers
R.I.L.E.M.	--	The International Union of Laboratories and Experts in Construction Materials, Systems and Structures
I.S.I.J.	--	Iron & Steel Institute of Japan
In.S.I.S.	--	Indian Structural Integrity Society
I.S.M.	--	Indian School of Mines
I.S.M.M.C.S.	--	Indian Society for Mathematical Modelling & Computer Simulation
I.S.O.E.	--	The International Society of Optical Engineering
I.S.O.F.T.	--	Indian Society for Fuel Cell Technologies
I.S.R.M.T.T.	--	Indian Society for Rock Mechanics and Tunnelling Technology
I.S.R.S.	--	Indian Society of Remote Sensing
I.S.R.E.E.E.	--	Indian Society for Renewable Energy and Environment Education
I.S.S.	--	Iron and Steel Society, USA
I.S.Q.R.	--	Indian Society for Quality and Reliability
I.S.R.	--	Indian Society of Rheology
I.S.S.M.G.E.	--	International Society for Soil Mechanics and Geotechnical Engineering
I.C.T.P	--	International Centre for Theoretical Physics
I.S.S.S.R.W.	--	Indian Society of Soil Salinity Research Workers
I.S.S.S.	--	Indian Society for Smart Structures
I.S.S.S.T.	--	Indian Society for Surface Science and Technology
I.S.S.Sc.	--	Indian Society of Soil Science
I.S.S.E	--	Indian Society of Systems for Science & Engineering
I.S.T.A.M.	--	Indian Society of Theoretical and Applied Mechanics

I.S.T.A.M.	--	Indian Society of Theoretical & Applied Mechanics
I.S.T.E.	--	Indian Society for Technical Education
I.S.W.E.	--	Indian Society for Wind Engineering
I.Str.E.(Lond.)	--	The Institute of Structural Engineers
I.U.P.R.A.I.(India)	--	Indian Unit for Pattern Recognition & Artificial Intelligence
I.U.T.	--	The Institute of Urban Transport
I.V.	--	Institute of Valves
I.V.A.	--	Royal Swedish Academy of Engineering Sciences
I.V.S.	--	Indian Vaccum Society
I.W.R.A.	--	International Water Resources Association
I.W.R.S.	--	Indian Water Resources Society
I.W.W.A.	--	Indian Water Works Association
J.I.M.	--	Japan Institute of Metals
J.S.Mech.E	--	Japan Society of Mechanical Engineers
J.S.T.P.	--	Japan Society for Technology of Plasticity
J.S.P.S.	--	Japanese Society for Promotion of Science, Japan
K.A.Sc.	--	Kerala Academy of Sciences
K.Iv.I.	--	Royal Dutch Institution of Engineers
L.S.S.I	--	Laser & Spectroscopy Society of India
M.A.Sc.	--	Maharashtra Academy of Science
M.G.M.I.	--	Mining, Geological and Metallurgical Institute of India
M.I.H.P.A.	--	International Hydro Power Association
M.M.A.	--	Hungarian Academy of Sciences
M.M.M.S.	--	Minerals, Metals and Materials Society, USA
M.R.S. (USA)	--	Materials Research Society
M.R.S.I.	--	Material Research Society of India
M.S.I.	--	Metrology Society of India
N.A.A.S.	--	National Academy of Agricultural Sciences
N.A.C.E.(USA)	--	National Association of Corrosion Engineers(USA)

N.A.E.	--	National Academy of Engineering (USA)
N.A.S.	--	National Academy of Sciences (USA)
	--	Norwegian Academy of Sciences
N.A.I.	--	National Academy of Inventors
N.A.M.	--	National Academy of Medicine (USA)
N.A.M.S.	--	National Academy of Medical Sciences
N.F.I.E.	--	National Foundation of Indian Engineers
N.I.A.S.	--	National Institute of Advanced Studies
N.I.Cer.E(USA)	--	National Institute of Ceramic Engineers USA
N.I.W.E.	--	National Institute of Wind Energy
N.R.S.	--	Swiss National Science Foundation
N.S.F.M.F.P.	--	National Society for Fluid Mechanics and Fluid Power
N.S.C.S.	--	The National Society of Collegiate Scholars
N.T.F.	--	National Telematics Forum
N.T.V.A.	--	Norwegian Academy of Technological Sciences
N.Y.A.S.	--	New York Academy of Science
O.R.S.I.	--	The Operations Research Society of India
O.S.A.	--	Optical Society of America
O.S.I.	--	Optical Society of India
P.A.S.	--	Polish Academy of Sciences
P.A.Sc.	--	Pontifical Academy of Sciences
P.E.O.	--	Professional Engineers Ontario
P.M.A.I.	--	Power Metallurgy Association of India
P.P.S.	--	Polymer Processing Society
R.A.M.S.	--	Russian Academy of Mining Sciences
R.A.N.S.	--	Russian Academy of Natural Sciences
R.A.N.Sc.	--	Russian Academy of National Sciences
R.Ae.S.	--	Royal Aeronautical Society (UK)
R.I.C.S.	--	Royal Institute of Chartered Surveyors
R.I.N.	--	Royal Institute of Navigation, London

R.I.N.A.	--	The Royal Institution of Naval Architects, UK
R.S.C.	--	The Royal Society of Chemistry, London
R.S.C.	--	The Royal Society of Canada
R.S.M.	--	Royal Society of Medicine, London
R.S.L.	--	Royal Society of London
S.A.E.I.	--	Society of Automotive Engineers Int.
S.A.E.S.T.	--	Society for the Advancement of Electrochemical Science and Technology
S.A.T.W.	--	Swiss Academy of Engineering Sciences
S. B.(USA)	--	Society for Biomaterials, USA
S.B.A.O.	--	Society for Biomaterials and Artificial Organs, India
S.C.I.C.H.M.T.	--	Scientific Council of International Centre for Heat and Mass Transfer
S.C.J.	--	Science Council of Japan
S.C.S.	--	Singapore Computer Society
S.C.S.(USA)	--	The Society for Computer Simulation(USA)
S.E.E.	--	Society of Electronic Engineers
S.E.G.	--	Society of Exploration Geophysicists
S.E.I.	--	Standards Engineers India
S.E.M.C.E.	--	Society of EMC Engineers (India)
S.E.M.	--	Society of Experimental Mechanics
S.E.S.I.	--	Solar Energy Society of India
S.F.A.	--	Society for Faction Analysis
S.G.A.T.	--	The Society of Geoscientists and Allied Technologists
S.H.R.A.E.	--	American Society of Heating, Refrigerating and Air Conditioning Engineers
S.I.A.M.	--	Society of Indian Automobiles Manufacturers
S.M.E.	--	Society of Manufacturing Engineers, USA
S.T.	--	Society of Toxicology
S.P.E.	--	Society of Power Engineers(India)
S.P.E.(USA)	--	Society of Plastics Engineers(USA)

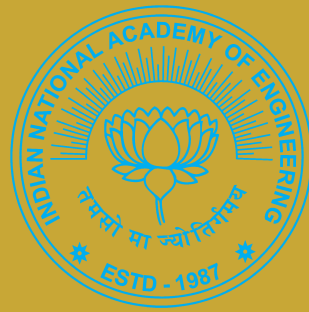
S.P.I.E.	--	--	Society of Photo-Optical Instrumentation Engineers (USA)
		--	The International Society for Optical Engineering
		--	International Society for Optics and Photonics
S.P.S.I.	--		The Society of Polymer Sciences India
S.R.(US)	--		Society of Rheology, USA
S.S.A.	--		The Seismological Society of America
S.S.I.	--		Systems Society of India
S.S.W.R.	--		Society for Shock Wave Research
S.T.L.E.	--		Society of Tribologists and Lubrication Engineers, USA
T.M.S.	--		The Minerals, Metals and Materials Society, USA
T.S.I.	--		Tribology Society of India
T.W.A.S	--		Third World Academy of Sciences
T.A.S	--		Telangana Akademi of Sciences
W.A.S.	--		The World Academy of Science
W.E.C.	--		World Energy Council
U.A.S.	--		Ukranian Academy of Sciences
U.D.C.T.	--		Honorary Fellowship of the Indian Institute of Chemical Engineers, UDCT, Mumbai
U.S.A.C.M.	--		US Association for Computational Mechanics
U.S.A.E.	--		United States Academy of Engineering
U.S.I.	--		Ultrasonic Society of India
V.E.D.A.S.	--		Vaccum Electronics Devices Applications Society
W.A.A.S.	--		World Academy of Arts and Science
W.A.P.S.	--		World Academy of Productivity Sciences
W.A.Sc.	--		Washington Academy of Science
W.A.S.T.	--		West Bengal Academy of Science & Technology
W.I.F.	--		World Innovation Foundation
W.R.E.C(UK)	--		World Renewable Energy Council, UK
W.E.F.(UK)	--		World Environment Foundation, UK

W.W.E.A.	--	World Wind Energy Associate
Y.A.E.	--	Yugoslav Academy of Engineering
Y.A.S.E.	--	Yugoslav Association of Structural Engineers
T.A.M.E.S.	--	Texas Academy of Medicine, Engineering and Science
T.P.S.E.	--	Texas Professional Society of Engineers
W.I.T.	--	Wessex Institute of Technology, Southampto



## THE ACADEMY LOGO

The Governing Council of the Academy appointed a Committee with Prof. SN Mitra and Dr. S Varadarajan in June 1987 to look into the matter of Academy Logo. Several logos were examined by the Council and it was felt that National Archives of India may be consulted for this purpose. The logo finally approved by the Council first appeared on the cover of the Year Book 1989 prepared by Prof. SC Dutta Roy, the first Editor of Publications of the Academy.



*INAE Logo depicts a 'LOTUS' flower radiating fragrance and light in all directions. 'Lotus' is the national flower of India and is invariably used for worship. Its fragrance permeates throughout the atmosphere and imbibes a sense of purity to the people around.*

*The quotation in the Logo (Tamoso Maa Jyotirgamaya) has been taken from Vrhadaranyak Upanishad. A country's progress is known from the various engineering developments that it brings up in the shortest possible time. They bring light of new hopes, encouragement and vitality to nation. The engineering community in India has brought fertility in waste land, water for millions, energy for industry and the household, and heavy industries for the country's progress. It has, therefore, been thought appropriate to inscribe in the Logo.*

*"Lead me from darkness to light"*

## **INDIAN NATIONAL ACADEMY OF ENGINEERING**

The Indian National Academy of Engineering (INAE), founded in 1987, comprises India's most distinguished engineers, engineer-scientists and technologists covering the entire spectrum of engineering disciplines. The aims and objects of the Academy are to promote and advance the practice of engineering and technology, related sciences and disciplines and their applications to problems of national importance. INAE also encourages inventions, investigations, and research in pursuit of excellence in the field of "Engineering".

The activities of the Academy include programmes on issues of technology policy and overall development for the benefit of society. It also promotes research projects, pilot studies, engineering education, fellowships, scholarships, awards and other benefactions. Election to the Academy is only by nomination. Upto 50 Fellows from Academia, R&D, and Industry may be elected each year from nominations made by Fellows of INAE affiliated to various Engineering Sections. Under the Rules & Regulations of the Academy, the total number of Fellows at any time may not exceed 1200.

The Academy honours Indian and Foreign nationals who are elected by "peer" committees in recognition of their personal achievements in engineering which are of exceptional merit and distinctive eminence in new and developing fields of technology. The Fellows on election to the Academy are entitled to use abbreviated title "FNAE".



# CALENDAR 2022

January						
Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

February						
Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

March						
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27	28	29	30	31		

April						
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24	25	26	27	28	29	30

May						
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22	23	24	25	26	27	28
29	30	31				

June						
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19	20	21	22	23	24	25
26	27	28	29	30		

July						
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					1	2
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17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

August						
Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
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14	15	16	17	18	19	20
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28	29	30	31			

September						
Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
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11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

October						
Su	Mo	Tu	We	Th	Fr	Sa
						1
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16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

November						
Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

December						
Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31