SECTION-IV

(*Chemical Engineering)*

ACADEMIA

S.No.	Name	Year of birth	Specialization
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.	Bhagwat, SS	1963	Energy and Exergy engineering, Absorption energy cycles, Interfacial science and engineering, mixed surfactant systems
6.	Chanda, Manas	1940	Polymer Science and Technology, Recycling of Plastic Wastes
7.	Chhabra, RP	1953	Transport Phenomena; Non-Newtonian Fluid Mechanics; Rheology
8.	Dasgupta, Sunando	1962	Interfacial Transport Phenomena, Microfluidics, Wetting, Energy, Bio-microfluidics
9.	De, Sirshendu	1967	Membrane Separation; Transport Phenomena
10.	Gogate, PR	1975	Process Intensification; Wastewater Treatment; Ultrasound; Crystallization; Enzymatic reactions
11.	Gaikar, VG	1960	Reactive Separation processes, Process Intensification, Biofuel
12.	Gandhi, KS	1942	Electrochemical power sources, modeling, sonochemical engineering, polymer reaction 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	Chemical Engineering, Process Modeling and Optimization, Process Control
16.	Singh, Jayant	1975	Chemical engineering; Molecular Simulation
17.	Joshi, JB	1949	Chemical Engineering; Fluid Mechanics and Reactor Design
18.	Joshi, Yogesh	1974	Chemical Engineering, Polymer Science and Engineering, Rheology, Soft Matter
19.	Juvekar, VA	1948	Interfacial Engineering, Reaction Engineering
20.	Khakhar, DV	1959	Chemical Engineering, Polymer Engineering
21.	Krishna, R	1946	Mass Transfer and Chemical Reaction Engineering
22.	Kumaran, V	1966	Fluid Mechanics, Complex Fluids
23.	Kunzru, D	1947	Pyrolysis of Hydrocarbons, Catalysis
24.	Madhavan, KP	1937	Process Control, Process Systems Engineering
25.	Madras, Giridhar	1967	Catalysis and Polymers
26.	Mahajani, SM	1968	Chemical Engineering, Reaction Engineering, Process Intensification

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.	Panda, Siddhartha	1970	Chemical sensors; sensing mechanisms; transport phenomena; reaction engineering; flexible electronics
34.	Pandit, AB	1957	Design of Multiphase Reactors, Process Intensification, Cavitation
35.	Pant, KK	1965	Sustainable Green Energy, Heterogeneous catalysis
36.	Patwardhan, AW	1972	Transport Phenomena; Computational Fluid Dynamics
37.	Patwardhan, SC	1964	Nonlinear Control Systems; Bayesian State Estimation
38.	Rengasamy, R	1969	Process Systems Engineering; Microfluidics
39.	Sangwai, Jitendra Shital	1977	Petroleum engineering; Natural gas; Carbon capture and sequestration; Gas hydrates; Nanotechnology
40.	Saraf, DN	1938	Process Control; Process Modelling & Optimization
41.	Shankar, V	1972	Fluid Mechanics, Rheology, Non-Newtonian flows
42.	Sharma, Ashutosh	1961	Colloids & Interfaces; Nanotechnology
43.	Subramaniam, P	1961	Microfluidics and lab on chip applications; Thermodynamic framework to develop novel technologies
44.	Suresh, AK	1957	Transport Phenomena, Reaction Engineering
45.	Wangikar, Pramod Prabhakar	1970	Metabolic engineering, 13C Metabolic flux analysis, Cyanobacteria, Metabolomics, Bioprocess Engineering
46.	Upadhyay, SN	1946	Transfer Processes, Non-Newtonian Fluids, Renewable Energy, Fluidization Engineering, Biomass Pyrolysis, Water Pollution Control, Hydrogen Production from Water
47.	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	Solvent Extraction, Pinch Analysis, Advanced control, Simulation, technology commercialisation
5.	Garg, RK	1930	Chemical Engineering; Nuclear Materials Technology Development
6.	Ghosh, Purnendu	1946	Bioprocess Engineering and Biotechnology
7.	Jasra, RV	1952	Catalysis and Adsorption Processes and Petrochemicals R&D
8.	Kaushik, CP	1962	Nuclear Science and Technology, Management of Radioactive Waste, Separation of radioactive isotopes from waste for social applications, Nuclear chemistry and Material Science
9.	Karanth, NG	1946	Biochemical Engineering, Fermentation Technology

10.	Kumaraswamy, G	1973	Polymer Science and Engineering; Chemical Engineering
11.	Kulkarni, Amol	1976	Microreactors: design, fabrication, modelling and experimentation. Experimental and computational fluid dynamics of chemical process systems
12.	Kulkarni, MG	1950	Polymers for Biomedical Application; Supramolecular Polymers
13.	Lele, Ashish K	1967	Polymer Science & Engineering
14.	Mashelkar, RA	1943	Chemical Engineering
15.	Nettem, V Choudary	1956	Adsorptive Separators; Catalysis and Catalytic Processes
16.	Patwardhan, VS	1947	Chemical Engineering, Simulation Software Development
17.	Prakash, V	1951	Food Technology, Food Biotechnology, Food and Nutritional Sciences, Biophysics of Proteins , Thermodynamics of Macromolecules.
18.	Raghavarao, KSMS	1960	Food/Biochemical Engineering
19.	Ramasami, T	1948	Chemical Technology, Leather Process Technology
20.	Ranade, VV	1963	Multiphase Reactors, Process Intensification, CFD, Crystallisation, Emulsions, Waste Valorisation
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.	Tyagi, Avesh Kumar	1964	Materials Chemistry and Engineering

INDUSTRY

S.No.	Name	Year of birth	Specialization
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 Technology , Plant Design & Engineering, Project Management for Refinery , Petrochemicals and Oil & Gas Plants
5.	Dravid, AN	1943	Design, Construction and Project Management in Process Industries
6.	Godrej, Nadir B	1951	Animal Feed; Oleochemicals, Surfactants and Agro Chemicals

7.	Gupta, VK	1960	Polymers, Catalyst and Chemical Process; Sustainable Technology
8.	Hamied, YK	1971	Industrial Chemistry, Synthesis of Drugs
9.	Khilnaney, VK	1960	Design of Complex Isotope Separation Processes; Development and societal applications of 'Deuterated compounds' and special materials
10.	Kulkarni, Ravi	1948	Surface & Interfacial Chemistry; Material Science (Silicone Technology)
11.	Lal, MB	1947	Oil Refining
12.	Misra, DP	1944	Project Management; Process Engineering in Chemical Industries
13.	Modi, Rajiv I	1960	Chemical Engineering; Biological Science
14.	Mukhopadhyay, R	1947	Polymer Science & Rubber Technology; Chemical Engineering
15.	Nair, MD	1929	Organic Chemistry, New Drugs Research
16.	Pandia, RM	1949	Strategy for Chemical Industry; General Management
17.	Parekh, MB	1946	Adhesives and sealants, construction chemicals, art materials and organic pigments
18.	Raut, JS	1971	Soft Matter; Substrate Biophysics and Biomaterials
19.	Shanghvi, Dilip Shantilal	1955	Pharmaceutical research, manufacturing, marketing and sales
20.	Sapre, Ajit V	1954	Reaction Engineering & Catalysis
21.	Shukla, Vartika	1966	Oil Refining, Gas Processing plants, Green Engineering, Energy
22.	Subramaniam, KV	1957	Biotechnology, Corporate Business Development
23.	Vasudeva, Sudhir	1954	Offshore Oil & Gas Field Development; Management of Mega Projects
24.	Venkataraman, RS	1939	Process Design and Engineering, Petrochemicals
25.	Venkataramanan, K	1944	Process Engineering, Engineering Design

FOREIGN FELLOWSHIP

S.No.	Name	Year of birth	Specialization
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	Theoretical and computational studies of immunology and virology, with application to design of vaccines
5.	Dalai, Ajay Kumar	1959	Chemical Engineering
6.	Durst, F. J.	1940	Fluid Mechanics
7.	Fan, Liang-Shih	1947	Chemical Engineering
8.	Fuller, Gerald G	1953	Rheology; Fluid Mechanics
9.	Karasz, Frank E	1933	Polymer Materials
10.	Mitragotri, Samir Suresh	1971	Bioengineering; Chemical Engineering
11.	Peppas, Nicholas A	1948	Chemical Engineering; Biomedical Engineering
12.	Ramkrishna, Doraiswami	1938	Chemical Reaction Engineering; Biological Engineering

13.	Tirrell, Matthew V	1950	Chemical Engineering; Materials Science
14.	Vora, Bipin V	1943	Process Developmets, Catalytic Dehydrogenation, Alkylation, Petrochemical Process
15.	Wasan, Darsh T	1938	Chemical Engineering; Materials Engineering
16.	Yortsos, Yannis Christo	1951	Flow, Transport and Reaction in Porous Media

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.	Govind Rajan, Ananth	computational modeling of nanomaterials, catalysis, clean water and energy technologies
3.	Gupta, Rakesh	Chemical Engineering, Multiscale Modelling and Nanotechnology
4.	Jasuja, Kabeer	Nanotechnology
5.	Kaleekkal, Noel Jacob	Chemical Engineering- Membrane Science and Technology
6.	Mangal, Rahul	Polymer Science, Rheology, Soft Matter, Active Matter, Colloids and Interfaces
7.	Mondal, Sourav	Fluid dynamics; Transport phenomena; Mass transport; Modelling and simulation
8.	Nistala, Harsha	Industrial Analytics; Agglomeration with specialization in Sintering & Pelletization; Thermodynamic modelling; and Process Modeling & Simulation
9.	Pillai, Dipin Sasidharan	Stability Theory, Reduced-Order Modeling, Electrohydrodynamics, Active Matter, Transport Phenomena
10.	Pinjari, DV	Chemical Engineering and Technology, Material Science and Engineering, Sustainable Engineering and Process Development, Nanomaterials and Soft Materials, Polymers Resins, Paints, Green Chemistry and Engineering, etc.
11.	Ramanathan, Karthik	Chemical Reaction Engineering, Mathematical Modeling of Reaction and Transport Processes, System Modeling, Physics based statistical (AI/ML) modeling, Digital Twins
12.	Saini, Supreet	Chemical Reaction Engineering, Mathematical Modeling of Reaction and Transport Processes, System Modeling, Physics based statistical (AI/ML) modeling, Digital Twins
13.	Suryasarathi Bose	Polymer Science and Engineering
14.	Toley, Bhushan Jayant	Microfluidics and Point-of-Care Diagnostics
15.	Ghosh, Udita Uday	Interfacial phenomena, complex fluid flow, microscale flows
16.	Vineet, Aniya	Chemical Engineering, Process Development, Design and Scaleup, Bio-Polymer and Depolymerization