**Recipients of INSA Distinguished Lectures-1**
***(for current INSA Associate Fellows and INYAS only)***
**(for the year 2025)**

***(Subject to deliver the lecture during Anniversary General Meeting 2025)***

***Sectional Committee - I :*** *Mathematical Sciences:*
*Applied Mathematics, Pure Mathematics, Theoretical Computer Science, Statistics and Operations Research*

**Datar, Ved Vivek** (*b.*13.11.1987), PhD, Assistant Professor, Department of Mathematics, Indian Institute of Science, Bengaluru.

Contributions to Geometric Analysis.

***Sectional Committee - II : Physics***
*Astronomy, Astrophysics, Nuclear and High Energy Physics, Atomic, Molecular and Optical Physics, Statistical Physics, Theoretical Physics, Mathematical and Computational Physics, Condensed Matter including Soft, Liquids and Nano Materials, Cosmic Radiation, Cosmology, Space Physics, Basic Planetary Sciences, Lasers and Optoelectronics, Plasma Physics, Solar Physics, Atmospheric Physics*

**Tyagi, Mohit** (*b.* 30.03.1983), PhD, Scientific Officer (G) & Associate Professor HBNI, Crystal Technology Section, Technical Physics Division, Bhabha Atomic Research Centre, Mumbai**.**

Single Crystal Growth

***Sectional Committee - III : Chemistry***
*Analytical Chemistry, Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Theoretical and Computational Chemistry, Structural Chemistry, Chemistry of Materials, Medicinal and Pharmaceutical Chemistry, Bio-organic, Bio-inorganic and Bio-physical Chemistry*

**Singh, Surya Prakash** (*b.* 15.04.1978), PhD, Senior Principal Scientist, Department of Polymers and Functional Materials, CSIR-Indian Institute of Chemical Technology, Hyderabad.

Outstanding work towards the development of functional Optoelectronic Materials for application in OPV, DSSC and Perovskite solar cells

### *Sectional Committee - IV : Earth & Environmental Sciences*

*Surface and Solid Earth Science, Applied Atmospheric Chemistry and Physics, Climate Sciences, Meteorology, Geo Engineering, Ocean Sciences,Geo Sciences and Applied Planetary Sciences*

**Mitra, Supriyo** (*b.* 12.11.1976), PhD, Professor, Department of Earth Sciences, Indian Institute of Science Education and Research Kolkata.

Pioneered broadband seismological field experiment in Eastern Sikkim and Jammu and Kashmir Himalaya: deliented velocity and attenuation structure for lithospheric evolution and qualification of seismic hazard.

### *Sectional Committee - V : Engineering & Technology*

*Electrical Engineering, Telecommunication Engineering, Electronics and Optoelectronics, Chemical Engineering, Civil Engineering, Environmental Engineering, Mechanical Engineering, Aeronautical Engineering, Metallurgical Engineering, Computer Science and Engineering including Software and Data science, Information Science and Technology, Advanced Materials (such as Bio-materials, Hybrid Materials and Nano Materials), Polymer Science & Engineering*

**Saha, Sriparna** (*b.* 19.01.1982), PhD, Associate Professor, Department of Computer Science and Engineering, Indian Institute of Technology, Patna.

Dr. Sriparna Saha is a prominent researcher in the field of natural language processing (NLP) and machine learning, with significant contributions to sentiment analysis, text summarization, and healthcare informatics. Her work often integrates deep learning, multi-objective optimization, and multi-modal data to address real-world problems, particularly in low-resource settings. She has developed novel algorithms for emotion detection, fake news identification, and clinical decision support. Her research has been widely published in top-tier journals and conferences, advancing both theoretical frameworks and practical applications in AI.

### *Sectional Committee - VII : Molecular and Cellular Biology:*

*Cell Biology, Physiology, Development, Genetics, Genomics and other Omics of Plants, Animals and Microbes including Unicellular Eukaryotes*

**Notani, Dimple** (*b* 02.08.1976), PhD, Associate Professor, National Centre for Biological Sciences, TIFR, GKVK Campus, Bangalore.

Prof. Dimple Notani, is an upcoming star scientist in genome organization and gene regulation and hence is nominated for an INSA Distinguished Lecture in recognition of her transformative research on enhancer biology, transcriptional dysregulation, and 3D genome organization. Her work has unveiled fundamental mechanisms driving oncogenic processes, with significant therapeutic implications. Prof. Notani has received global acclaim, including the Wellcome Trust/DBT India Alliance Fellowship and invitations to elite forums (e.g., EMBO Global Lectures). As a passionate mentor and advocate for women in science, she embodies INSA's mission to foster excellence and inclusivity. This lecture would spotlight her pioneering science and inspire future breakthroughs.

### *Sectional Committee - VIII : Biomolecular, Structural Biology and Drug Discovery*

*Biochemistry, Biophysics, Molecular Biology, Pharmacology, Structural Biology, Bioinformatics, Computational Biology, System Biology*

**Tripathi, Timir (***b.* 28.01.1981), PhD, Professor of Molecular Biology, Department of Zoology, School of Life Sciences, NEHU, Shillong.

Prof. Timir Tripathi, has advanced our understanding of protein dynamics, particularly the role of intrinsically disordered proteins in neurodegenerative diseases. His research on protein misfolding and aggregation has contributed to the development of novel therapeutic strategies.

### *Sectional Committee - IX : Health Sciences*

*Basic and Clinical Medical Sciences–Communicable and Non-communicable Diseases, Epidemiology, Anthropology, Psychology, Cognitive and Neurosciences, Medical Genetics and Genomics, Public Health, Nutrition, Immunology*

**Pilania, Rakesh Kumar** (*b*. 24.11.1986), DM, Assistant Professor, Department of Pediatrics, Advance Pediatrics Centre, Postgraduate Institute of Medical Education and Research, Chandigarh.

Dr. Pilania is conducting research in pediatric autoimmune disorders such as Kawasi Syndrome, lupus which have both clinical relevance in management of patients as well as translational value. He is also member of national and international bodies which formulate management guidelines. He has to his credit 172 publications and 11 book chapters.

***Sectional Committee - X : Agricultural Sciences***

*Agriculture, Horticulture, Forestry, Fisheries, Food Science, Veterinary Science, Pathogen Biology and Host Pathogen Interaction Both Plant and Veterinary Importance*

**Chatterjee, Dibyendu** (*b.* 23.10.1984), PhD, Senior Scientist, Crop Production Division, ICAR National Rice Research Institute, Cuttack.

Dr. Chatterjee has used advanced eddy covariance approach for measuring greenhouse gas emissions and energy balance. They also investigated the energy balance in the rice ecology, which can be used as a source of default values in various meteorological or air quality models. Residual heat flux (was proposed as the best method for estimating energy balance closure in lowland irrigated rice fields. His team reported that the energy balance in paddy fields has a greater imbalance during the rainy season as the energy is advected in the fresh rainwater.