

**INSA TEACHERS AWARD**

1. **Professor AL Ramanathan Alagappan** (b 25.01.1962), School of Environmental Sciences, Jawaharlal Nehru University, New Delhi.

Professor AL Ramanathan is a pioneering teacher in geology, who has motivated a large number of students to take up innovative studies on glacier-climate interactions and geohydrological systems in the Himalaya.

2. **Dr Sunita Bhagat** (b 28.05.1964), Department of Chemistry, ARSD College, University of Delhi, Delhi.

Dr. Sunita Bhagat is a committed and devoted teacher of organic chemistry at undergraduate and postgraduate levels and has been a role model for many young women.

3. **Professor Renu Chugh** (b 08.12.1962), Department of Mathematics, MD University, Rohtak.

Professor Renu Chugh has been an inspiring teacher stressing on concept clarity, and motivating students to undertake research.

4. **Professor Pratulananda Das** (b 26.10.1970), Department of Mathematics, Jadavpur University, Kolkata.

Professor Pratulananda Das has successfully motivated his students through his in-depth inspiring teaching and commendable research to take up teaching and research in Pure Mathematics, particularly in Topology and Analysis.

5. **Professor Vikram Manohar Gadre** (b 30.10.1966), Department of Electrical Engineering, Indian Institute of Technology Bombay, Mumbai.

Professor Vikram Manohar Gadre is an innovative teacher who has inspired scores of students over the years. His teaching encourages active student participation to explore the subject to the best of their ability.

6. **Dr Ajit Hazarika** (b 20.02.1968), Department of Zoology, Chaiduar College, Assam.

Dr. Ajit Hazarika has educated and inspired a large number of students in remote areas of Assam to attain their highest potential in education and subsequent career.

7. **Professor Srihari Keshavamurthy** (b 07.02.1967), Department of Chemistry, Indian Institute of Technology Kanpur, Kanpur.

Professor Srihari Keshavamurthy has demonstrated that research and teaching are inseparable. His dedication to teaching, motivational skills and innovative teaching methods have inspired generations of young chemists.

8. **Professor Somen Misra** (*b* 11.11.1962), Department of Ophthalmology, All India Institute of Medical Sciences, Raipur.

Dr. Somen Misra, a practicing neurophthalmologist in rural area, has devised innovative problem based learning with live surgical demonstrations, bedside clinics etc for medical students.

9. **Professor Raghuram Nandula** (*b* 24.01.1965), School of Biotechnology, Guru Gobind Singh Indraprastha University, New Delhi.

Professor N Raghuram is an example of a selfless teacher with core values for institution building, and who has promoted all round excellence in students in modern biology and biotechnology.

10. **Dr Bikram Phookun** (*b* 15.11.1964), Department of Physics, St. Stephen's College, Delhi.

Dr. Bikram Phookan is a dedicated teacher who strives hard to get students to grasp difficult and subtle concepts in Physics using all the tools and techniques that are available. He inspires his students to attain highest standards in research careers.

11. **Professor Satish Bola Sadashiva Rao** (*b* 22.09.1962), Department of Radiation Biology and Toxicology, School of Life Sciences, Manipal University, Manipal.

Professor Satish Rao uses innovative pedagogy to promote independent, critical and creative thinking in students in basic biology, biotechnology and cell biology.

## INSA MEDAL FOR YOUNG SCIENTISTS AWARDEES – 2017

1. **Dr Md Mahiuddin Baidya** (*b* 13.11.1983), PhD, Department of Chemistry, Indian Institute of Technology Madras, Chennai.

For his contributions towards development of new protocols and for the synthesis of biologically important molecules.

2. **Dr Priyoneel Basu** (*b* 05.11.1982), PhD, Department of Zoology, Institute of Science, Banaras Hindu University, Varanasi.

For pioneering studies on the role of 5-HTP (a precursor of the neurotransmitter serotonin) in resetting phase of the circadian activity-rest rhythm in mice.

3. **Dr Vashist Bist** (*b* 21.03.1988), PhD, Texas Instruments India Pvt. Ltd., Bengaluru.

For his outstanding contribution in the area of DC motor drives for low power applications.

4. **Dr Anup Biswas** (*b* 20.11.1983), PhD, Department of Mathematics, Indian Institute of Science Education and Research, Pune.

For his study of the Dirichlet problem for stable-like operators and related probabilistic representations of solutions of stochastic differential equations with jumps.

5. **Dr Kunal Chakraborty** (*b* 23.09.1982), PhD, ESSO-Indian National Centre for Ocean Information Services (INCOIS), Hyderabad.

For his outstanding contributions on modelling of marine ecosystem variability in the Indian Ocean.

6. **Dr Debraj Choudhury** (*b* 21.04.1982), PhD, Department of Physics, Indian Institute of Technology Kharagpur, Kharagpur.

For his insights into the physics of multi-ferroics and oxide systems, and the discovery of exceptional dielectric properties in a series of compounds.

7. **Dr Srishti Dar** (*b* 12.02.1987), PhD, Tata Institute of Fundamental Research, Mumbai.

For developing an elegant assay system of arrayed supported membrane tubes whose dimensions can be controlled to mimic the topology of tubular intermediates generated during membrane fission and for demonstrating the role of GTP hydrolysis and PH domain in membrane constriction and faster kinetics of dynamin catalyzed fission.

8. **Dr Riddhi Datta** (b 28.12.1987), PhD, Dr APJ Abdul Kalam Government College, Kolkata.

For elucidating the molecular mechanisms of glutathione- salicylic acid- and ethylene interactions in plant defense signaling network.

9. **Dr Yogeshwaran Dhandapani** (b 13.12.1982), PhD, Statistics and Mathematics Unit, Indian Statistical Institute, Bengaluru.

For his significant work on asymptotic behavior of random complexes, topology of dynamic Erdős-Renyi clique complexes and asymptotics for geometric functionals of general point processes.

10. **Dr Dipak Gayen** (b 17.09.1983), PhD, National Institute of Plant Genome Research, New Delhi.

For cloning the rice *r9-LOXI* gene and showing increased viability and storage stability of nutritional components of golden rice seeds by its down regulation through RNAi and for studying regulation of iron transport in roots by miRNA.

11. **Dr Dinesh Jagadeesan** (b 12.12.1982), PhD, Indian Institute of Technology Palakkad, Kerala.

For his approaches towards development of new catalysts and activation of CO<sub>2</sub>.

12. **Dr Smita Kumar** (b 24.03.1985), PhD, Centre of Biomedical Research, SGPGI Campus, Lucknow.

For significant contributions in understanding the molecular mechanisms involved in detoxification of heavy metals like As and S in plants.

13. **Dr Bodhisatta Nandy** (b 14.01.1984), PhD, Indian Institute of Science Education and Research, Behrampur.

For comprehensive experimental evidence, using the *Drosophila* model system, for the major tenets of the theory of sexual selection and inter-sexual conflict.

14. **Dr Joe Philip Ninan** (b 25.08.1989), PhD, Department of Astronomy and Astrophysics, The Pennsylvania State University, USA.

For his studies of outburst phenomena in young stellar objects, and development of necessary instruments.

15. **Dr Ashutosh Pandey** (b 25.12.1983), PhD, Faculty of Biology, Chair of Genome Research & CeBiTec, University of Bielefeld, Germany.

For metabolic engineering of flavonoid and carotenoid biosynthesis in higher plants.

16. **Dr Rucha Kiran Patil** (*b* 28.04.1986), PhD, Genetic Research Center, National Institute for Research in Reproductive Health, Mumbai.

For identifying novel roles of cell derived micro particles in important clinical conditions like recurrent pregnancy loss and dengue fever complications.

17. **Dr Sanjay Pratihar** (*b* 01.03.1984), PhD, Department of Chemical Sciences, Tezpur University, Tezpur.

For his outstanding contributions to multi-metal complexes, theoretical understanding, selective sensing of Hg<sup>2+</sup> ions and important applications in agriculture.

18. **Dr Uday Kumar B Reddy** (*b* 10.09.1982), PhD, Department of Computer Science and Automation, Indian Institute of Science, Bengaluru.

For his stellar work in automatic parallelization in high performance computing.

19. **Dr Aravind Kumar Rengan** (*b* 09.08.1983), PhD, Department of Biomedical Engineering, Indian Institute of Technology Hyderabad, Hyderabad.

For devising a novel way of nano delivery using liposomes and gold nanoparticles, which is useful for both imaging and therapeutics.

20. **Dr Arnab Sen** (*b* 22.11.1982), PhD, Department of Theoretical Physics, Indian Association for the Cultivation of Science, Kolkata.

For his outstanding contributions towards developing quantum Monte Carlo methods to probe quantum critical points.

21. **Dr Devanjan Sinha** (*b* 07.10.1984), PhD, Department of Zoology, Institute of Science, Banaras Hindu University, Varanasi.

For delineating the complexity and substrate specificity of mitochondrial transport machines and for establishing their role in maintenance of mitochondrial function in diverse physiological states.

22. **Dr Vikram Vishal** (*b* 12.07.1985), PhD, Department of Earth Sciences, Indian Institute of Technology Bombay, Mumbai.

For his outstanding contributions on hydro-dynamics of fluid flow in unconventional reservoirs.

## INSA YOUNG HISTORIAN OF SCIENCE AWARD

1. **Dr Nisha Yadav** (*b* 23.07.1983), PhD, Scientific Officer (C), Department of Astronomy and Astrophysics, Tata Institute of Fundamental Research, Mumbai.

For her statistical analysis and computational studies of the Indus Valley script, which have shed some light on its grammatical structure.