

Important Events/ Meetings	2
Financial Assistance by INSA	11
Recent Publications of the Academy	11
Indian National Young Academy of Sciences (INYAS) Activities	12
Obituary Notes	31
H R Activity	31

Important Events/ Meetings

- Professor K Naha Memorial Medal Lecture (2022) was delivered by Professor AK Jain, FNA on “South Tibetan Detachment System (STDS): a complex Himalayan fault system” at Kumaun University, Nainital on 6th October, 2025 under the aegis of INSA Lucknow local chapter.
- Two meetings of the Executive Committee were held in October for preparation of “Celebration of Science Week at Delhi-2025” including 91st Anniversary General Meeting to be held during 2-5 December, 2025 at various universities/institutes of Delhi/NCR.
- In the “Celebration of Science Week at Delhi-2025” and 91st Anniversary General Meeting (2-5 December 2025), the following activities were organized: Presidential address, lectures from Past-Presidents of INSA, lectures from new INSA Fellows, INSA Young Associates, INSA Associate Fellows, INSA Distinguished Lecture Fellows-I, INSA Distinguished Lecture Fellows-II, INSA Overseas Chair, INSA Women Associates and INYAS Chair.
- **2nd December, 2025 at Amity University, Noida**
- Sectional Committee IV- Chair: Professor G Parthasarathy
- Lecture of INSA Distinguished Lecture-2 Fellow
 1. Dr Shailesh Nayak
- Lecture New Fellow
 1. Professor M Radhakrishna
 2. Professor Rajiv Sinha
 3. Professor Binod Sreenivasan
- Lecture of INSA Distinguished Lecture-1 Fellow
 1. Professor Supriyo Mitra
- Lecture INSA Young Associate
 1. Dr Swati Tripathi
 2. Dr Amiya Kumar Samal
- Lecture INSA Associate Fellow

1. Dr Prashant Kumar

- Sectional Committee IX- Chair: Professor Shally Awasthi
- Lecture of INSA Distinguished Lecture-2 Fellow
 1. Professor Rakesh Aggarwal
- Lecture New Fellow
 1. Professor Dipyaman Ganguly
 2. Professor Jayantee Kalita
 3. Professor Ganesan Karthikeyan
 4. Dr Dhiraj Kumar
 5. Professor Pankaj Seth
- Lecture New Foreign Fellow
 1. Professor Bernard P Arulanandam
- Lecture of INSA Distinguished Lecture-1 Fellow
 1. Dr Rakesh Kumar Pilania
- Lecture INSA Young Associate
 1. Dr Swati Singh
- Lecture INSA Associate Fellow
 1. Dr Amit Tuli
 2. Professor Arpan Banerjee
 3. Professor Amit Mishra
- **Delhi University, New Delhi**
Sectional Committee III- Chair: Professor Amitava Das
- Lecture New Fellow
Professor Elangannan Arunan
Professor DB Ramachary
Professor SJ George
Professor SK Ghosh
Professor Sundargopal Ghosh
Professor PS Mukherjee

Professor DS Rawat

Professor BM Reddy

- Lecture of INSA Distinguished Lecture-1 Fellow

- 1. Dr Surya Prakash Singh

- Lecture INSA Young Associate

- Dr Indranath Chakraborty

- Dr Uttam Kumar Ghorai

- Dr Durga Prasada Rao Hari

- Lecture INSA Associate Fellow

- Dr Dibyendu Das

- Professor Sripada S V Rama Sastry

- Professor Basker Sundararaju

- **Jawaharlal Nehru University, New Delhi**

- Sectional Committee VII- Chair: Dr Uday Bandyopadhyay

- Lecture of INSA Distinguished Lecture-2 Fellow

- 1. Professor Anand Kumar Bachhawat

- Lecture New Fellow

- 1. Professor Chandrima Das

- 2. Dr Jomon Joseph

- 3. Professor TK Manna

- 4. Dr Kalika Prasad

- Lecture of INSA Distinguished Lecture-1 Fellow

- 1. Dr Dimple Notani

- Lecture INSA Young Associate

- 1. Dr Somlata

- Lecture INSA Associate Fellow

- Dr Rajesh Ramachandran

- **3rd December, 2025**

- The opening remarks were delivered by Professor Sanjay Puri, Vice-President (Resource

Generation and Management). This was followed by the welcome address delivered by Professor Santishree Dhulipudi Pandit, Vice-Chancellor, Jawaharlal Nehru University, New Delhi.

- The abstract booklet of the *Celebration of Science Week at Delhi-2025*, the legacy volume INSA@90 titled "*The Scientific Enterprise in India*", and a special issue of *IJPAM* were released by the dignitaries on the dais, namely Professor Ashutosh Sharma, President, INSA; Professor Ajay K Sood, Principal Scientific Advisor, Government of India and Past President, INSA; Professor Santishree Dhulipudi Pandit, Vice-Chancellor, JNU; Professor SC Mande, President-Elect, INSA; Dr VM Tiwari, Vice-President (Informatics / Publications); Professor Sanjay Puri, Vice-President (Resource Generation and Management); and Professor Indranil Manna, Vice-President (Science and Society). Professor Jugal K. Verma was specially invited for the release of the special issue of *IJPAM*. In addition, a coffee table book titled "*Science20, 2023 – One Earth, One Family, One Future*" was released during the inaugural session. Professor Debashis Mitra, Vice-President (International Affairs), and Professor Narinder K. Mehra, FNA, were also invited for the release of the coffee table book. Further, the portal for the INQUA Congress 2027 was launched by the President, INSA.

- Thereafter, Professor Ajay K. Sood, Principal Scientific Advisor, Government of India and Past President, INSA, delivered a lecture, followed by the Presidential Address titled "*Creating a Stable, Inclusive, Robust, and Sustainable Knowledge Ecosystem: Evolving Roles, Structure, and Processes of Academies at a Crossroads*" by Professor Ashutosh Sharma, President, INSA.

- Further, online and recorded lectures were presented by Dr RA Mashelkar, Professor Chandrima Shaha, Professor M. M. Sharma, and Professor PN Tandon, Past Presidents of INSA.

- Dr VM Tiwari, Vice-President (Informatics/ Publications), presented the slides of Professor R. Gadagkar, Past President of INSA.

- Inaugural session was ended by the lecture of Professor S.C. Mande, President-Elect, INSA.



Induction of new fellows

- **Lectures by New Fellows of Science in Translation and Science for Society**

Chair: Professor Ashutosh Sharma, President, INSA

Co-Chair- Professor Madhu Dikshit, Vice-President (Fellowship Affairs), INSA

Dr Anand S Deshpande

Dr Ajit K Mohanty

Dr Anil P Joshi

Professor Naima Khatoon

Mr Saurabh Srivastava

Dr Renu Swarup

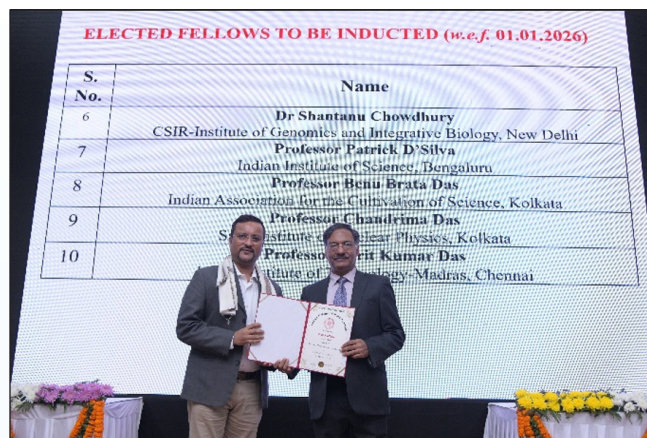
Mr Sumant Sinha (*Pre-recorded talk*)

Dr Devi Prasad Shetty (*Pre-recorded talk*)

- **Admission of Fellows under Rule 11**

Professor Ashutosh Sharma, President INSA, presented Scrolls and Angavastram to the 54 Fellows (w.e.f. 1.1.2026) and 4 Foreign Fellows (w.e.f. 1.1.2026). Fellows were, thereafter, inducted into the Fellowship, took the oath, and signed the Fellowship Register.

- 17 INSA Young Associate, 18 INSA Associate Fellows, 1 INSA History of Science Young Associate received the Certificate and Angavastram from President of INSA. They also took oaths, signed the Register, and were inducted. In addition,



INSA AGM inauguration

12 INSA Distinguished Lecture Fellows I and II received the Citation and Angavastram from President of INSA.

- On 3rd December, 2025, in 91st Anniversary General Meeting, the sad demise of Professor Vidyeshwaran Rajaraman was reported.

- **4th December, 2025 at Ashoka University, Sonapat**

Sectional Committee I- Chair: Professor CS Rajan

- Lecture of INSA Distinguished Lecture-2 Fellow

1. Professor SR Athreya

- Lecture New Fellow

1. Professor Anish Ghosh

2. Professor Meena Bhaskar Mahajan

- Lecture New Foreign Fellow

1. Professor Michael Batty (*Pre-recorded talk*)

- Lecture of INSA Distinguished Lecture-1 Fellow

1. Dr Ved Vivek Datar

- Lecture INSA Young Associate

1. Dr Purvi Gupta

- Lecture INSA Associate Fellow

Professor Saurabh Kumar Shrivastava

Sectional Committee VI- Chair: Professor NG Prasad

- Lecture of INSA Distinguished Lecture-2 Fellow

1. Professor Vinod Kumar

- Lecture New Fellow

1. Professor Himender Bharti

2. Dr HN Kumara

3. Professor AK Mukherjee

4. Professor N Parthasarathy

- Lecture INSA Associate Fellow

1. Dr PurushothamanChirakkuzhyil Abhilash

2. Dr Suphiya Khan

- Lecture INSA Overseas Chair

1. Professor Adam K. Chippindale

- **Indian Agricultural Research Institute, New Delhi**

Sectional Committee X- Chair: Dr Sneh Lata Singla-Pareek

- Lecture of INSA Distinguished Lecture-2 Fellow

1. Professor Paramjit Khurana

- Lecture New Fellow

1. Dr SS Bhattacharya

2. Professor Mukesh Jain

3. Dr TK Mondal

4. Professor SV Sawant

5. Professor Shilpi Sharma

6. Dr Dheer Singh

7. Dr SK Yadav

- Lecture New Foreign Fellow

1. Professor Brajesh Kumar Singh

- Lecture of INSA Distinguished Lecture-1 Fellow

1. Dr Dibyendu Chatterjee

- Lecture INSA Young Associate

1. Dr Nitika Sandhu

2. Dr Prarabdh Chandrakant Badgujar

3. Dr Bhanu Prakash

- Lecture INSA Associate Fellow

1. Dr Kutubuddin Ali Molla

2. Dr Charu Lata

3. Dr Rajib Deb

- **Indian Institute of Technology Delhi, New Delhi**

Sectional Committee II- Chair: Professor Tanusri Saha-Dasgupta

- Lecture of New Fellow- Science in Translation

1. Mr Nadir B Godrej (Pre-recorded talk)

- Lecture of INSA Distinguished Lecture-2 Fellow

1. Professor Ashoke Sen

- Lecture New Fellow

1. Professor Anjan Barman

2. Professor PK Panigrahi

3. Professor SA Rangwala

4. Professor Aradhana Shrivastava

5. Professor Aninda Sinha

- Lecture New Foreign Fellow

1. Professor BVR Chowdari

2. Professor Jürgen Hartmut Eckert (Pre-recorded talk)

3. Professor Chandrashekhar Janardan Joshi

- Lecture of INSA Distinguished Lecture-1 Fellow

1. Dr Mohit Tyagi

- Lecture INSA Young Associate

1. Dr Kinjalk Lochan

2. Dr Rahul Srivastava

- Lecture INSA Associate Fellow

1. Dr Santosh Kumar Das

- **SRMIST, Ghaziabad**

Sectional Committee V- Chair: Professor YM Joshi

- Lecture of INSA Distinguished Lecture-2 Fellow

1. Professor Jaikumar Radhakrishnan

- Lecture New Fellow

1. Professor Suddhasatwa Basu
2. Professor SK Das
3. Professor Jagadeesh Gopalan
4. Professor SS Joshi
5. Professor Ujjwal Maulik
6. Professor Rahul Mitra
7. Professor SK Ray
8. Professor JK Singh
9. Professor RI Sujith

- Lecture of INSA Distinguished Lecture-1 Fellow

Dr Sriparna Saha

- Lecture INSA Young Associate

1. Dr Amaranatha Reddy Devulapalli
2. Dr Chirodeep Bakli
3. Dr Tanmoy Chakraborty

4. Dr Mohit Verma

- Lecture INSA Associate Fellow

Professor Chandra Shekhar Sharma

Sectional Committee VIII- Chair: Dr RP Roy

- Lecture of INSA Distinguished Lecture-2 Fellow

1. Professor Ramanathan Sowdhamini

- Lecture New Fellow

1. Dr Shantanu Chowdhury
2. Professor Patrick D'silva
3. Professor BB Das
4. Professor Ravishankar Ramachandran

- Lecture of INSA Distinguished Lecture-1 Fellow

1. Professor Timir Tripathi

5th December, 2025 at Miranda House (DU), New Delhi

INVAS Lecture was delivered by Dr Nishant Chakravorty, Chairperson, INVAS

26 Lectures and 29 inductions of INSA Women Associates (IWA) were organized.



INSA Women Associates (IWA) induction event at Miranda House

- A meeting was held with Dr Gilbert De Gregorio, Head of Partnerships, Frontiers Planet Prize, and Dr Debashis Mitra, VP (International Affairs), INSA, on 9th October 2025 to explore the INSA's role as the National Representative Body (NRB) for the Frontiers Planet Prize in India. The discussion focused on operational modalities, coordination with Indian institutions as National Nominating Bodies, and resource requirements for implementing NRB responsibilities.
- Dr S Demberel, President of the Mongolian Academy of Sciences (MAS), visited the Indian National Science Academy (INSA) on 14th October 2025. The meeting was chaired by Dr Debashis Mitra, Vice President (International), INSA, and attended by officials from the International Relations Division. The discussions focused on the revival of the Memorandum of Understanding (MoU) between the two academies. It was decided that INSA and MAS will jointly identify mutually significant areas of scientific cooperation to further enhance collaborative research and academic exchange between India and Mongolia.
- The Academy received a proposal from the U.S. National Academies to partner in their Global Climate Fellowship initiative. In this regard, a meeting was held on 13 November 2025 between Dr Debashis Mitra, Vice President (International),

INSA, Dr Brajesh Pandey, Executive Director, INSA, Dr Sachchida Nand Tripathi, IIT Kanpur and Ms. Joanne Morse, Director of Development, Climate Crossroads, U.S. National Academies, to discuss the programme's scope and collaboration modalities. Ms. Morse outlined the objectives of the fellowship and the potential for hosting Global Fellows in Indian institutions.

- The 6th Yusuf Hamied INSA–Royal Society Bilateral Workshop in India, was held on 25–26 November 2025 at IIT Delhi. The workshop features two thematic streams: (i) Secondary Health Prevention and (ii) Sustainability in the Digital and Cyber World. Professor Ashutosh Sharma, President, INSA, and Dr Soumya Swaminathan, Principal Advisor to the National Tuberculosis Elimination Programme (NTEP), MoHFW, served as the Indian Co-Chairs for the respective themes. A delegation of 20 members from the royal society UK and 18 Indian Experts participated in the workshop. A policy dialogue titled Towards a Responsible Digital Future under the Chairmanship of Dr Shekhar Mande and Dr Anurag Aggarwal was held on 27 November 2025 between the Royal Society, UK and INSA. The workshop was hosted at IIT Delhi to enable wider participation from researchers, scientists, and policymakers from premier academic institutions in India.



The 6th Yusuf Hamied INSA–Royal Society Bilateral Workshop

- The Embedding ESG & Sustainability program, conducted on October 8, 2025, was an important part of the Global Scientific Conference 2025 at IIT Bombay, which took place from October 8–11, 2025. This initiative was inspired by the vision of Professor Ashutosh Sharma, President of INSA, and was organized with active support from INSA-CSTIP, reflecting INSA's commitment to promoting sustainable practices in research and education across India.

The program brought together experts and participants to discuss ways to embed ESG

considerations into institutional policies and operations, promote sustainable research practices, engage with policymakers to support sustainable development initiatives, and foster collaborations between academia and industry. Through interactive sessions and panel discussions, the participants explored practical strategies to align scientific research and institutional practices with ESG and sustainability goals. The sessions highlighted the collective responsibility of the scientific community to address global challenges through ethical governance and sustainable practices.



Embedding ESG & Sustainability program

NITI Aayog organised the Seventh Regional Consultative Meeting on “Ease of Doing Research & Development (R&D) for Accelerating Growth of States/UTs” on October 15–16, 2025,

at IIT Guwahati. The event brought together Vice Chancellors, institutional leaders, and representatives from scientific ministries to discuss ways to strengthen India’s R&D ecosystem.




NITI Aayog Seventh Regional Consultative Meeting

NITI Aayog organized the Eighth Regional Consultative Meeting on “Ease of Doing Research & Development (R&D)” at the National Centre for Earth Science Studies (NCESS), Thiruvananthapuram, Kerala. The meeting brought together institutional leaders, Vice-Chancellors, and representatives from various scientific ministries and departments to deliberate on strategies for strengthening India’s research and innovation ecosystem. Dr Brajesh Pandey, Executive Director, INSA, presented the key findings and statistical analysis based on the responses received through the questionnaire.




NITI Aayog Eighth Regional Consultative Meeting

Launch of ARANI: The Indian National Science Academy - INSA, through its Centre for Science, Technology and Innovation Policy (CSTIP), invites universities, research institutions, R&D organizations, NGOs, start-ups, and policy think tanks to join ARANI – Academic and Research Advancement through Network of INSA. ARANI serves as a collaborative platform that brings together institutions and organizations to strengthen India’s Science, Technology, and Innovation (STI) ecosystem through research partnerships and capacity-building.




ARANI




Academic and Research Advancement through Network of INSA

INSA-CSTIP invites


- Universities
- Institutions
- R&D Organizations
- NGOs
- Start-ups
- Think Tanks




to join ARANI in shaping the future of India’s Science, Technology, and Innovation (STI) landscape



Register now





Indian National Science Academy (INSA), in partnership with Womennovator (Global Incubator for Women) and Gvriksh Foundation, hosted a Roundtable Discussion on 15th November 2025 on “Enhancing the Participation of Women in the Workforce.” The session focused on strengthening pathways for greater women’s participation and improving the Female Labour Force Participation Ratio (FLFPR) in India. The discussion brought together stakeholders from academia, industry, and policy makers to deliberate on actionable strategies for improving women’s workforce inclusion.

During the discussion, Professor Ashutosh Sharma, President, INSA, highlighted two key INSA initiatives - IWA (INSA Women’s Association), which promotes diversity, inclusion, and gender equity, and ARANI (Academic and Research Advancement through Network of INSA), a collaborative platform aimed at strengthening India’s Science, Technology, and Innovation (STI) ecosystem through research partnerships and capacity-building.

The roundtable concluded with a shared commitment to advancing women’s participation in the workforce and strengthening institutional collaborations to drive meaningful change.



Global Incubator for Women

Launch of ESG-Sustainability Training Program

Indian Institute of Technology, Roorkee in collaboration with Indian National Science Academy - INSA, organizing a three-day Capacity Building & Certification Training Program titled as “ESG – Sustainability Training Program: Advancing ESG Understanding for a Sustainable Future”. This flagship initiative is designed to equip participants with cutting-edge knowledge and practical tools to drive India towards a sustainable future.

The Science Policy Dialogue was held at INSA on 27 November 2025, bringing together leading experts from India and the UK for two focused roundtable discussions. The first roundtable explored digital policy challenges for the next billion users, with deliberations on connectivity, data governance, and the future of open and interoperable digital public infrastructure. The second roundtable addressed health in the age of intelligence, highlighting how AI, big data, and integrated health data systems can enable preventive, ethical, and resilient healthcare. The event was co-chaired by Professor Shekhar C. Mande and Professor Alison Noble and concluded with a closing session summarizing key insights and collaborative pathways ahead.



Science Policy Dialogue

The Pre-Consultation Workshop on “Deep Science vs Deep Tech: A Paradigm Shift”, was organised by Indian National Science Academy, American Chemical Society, CSIR–NIScPR, and INSA-Centre for Science, Technology & Innovation Policy. The session opened with remarks by Dr Brajesh Pandey, Executive Director, INSA, Dr Deeksha Gupta, Director, American Chemical Society, and Dr Geetha Vani Rayasam, Director, CSIR–NIScPR, followed by the inaugural address by Professor Ashutosh Sharma, President, INSA.

The workshop featured three panel discussions on Demystifying Deep Science and Deep Tech, Building India’s Deep Science Ecosystem – Labs, Talent, Capital, and Markets, and Strategies for India’s Deep Science Pathways, highlighting the non-linear journey from scientific discovery to market adoption and the need for balanced policy support, patient capital, and strong technology transfer mechanisms.



Workshop on “Deep Science vs Deep Tech: A Paradigm Shift”

- The audit of the INSA website (<https://insa.nic.in>) is presently in progress.
- The Academy migrated to the cloud services from National Government Cloud (NGC) platform via NICS (National Informatics Centre Services Inc.) for hosting and managing the INSA Journal Portal.
- The tagging and listing of obsolete inventories under the Informatics & Communication Section is being carried out as part of the Swaccha Pakhwada initiative.
- Major official staff email accounts previously maintained on <https://email.gov.in> have been successfully migrated to Zoho Mail cloud <https://mail.gov.in>
- The Department of Science and Technology (DST) has floated the INSPIRE Faculty Fellowship (IFF) 2025 call on its official website. A total of 3778 applications have been received this year, which are currently being processed.

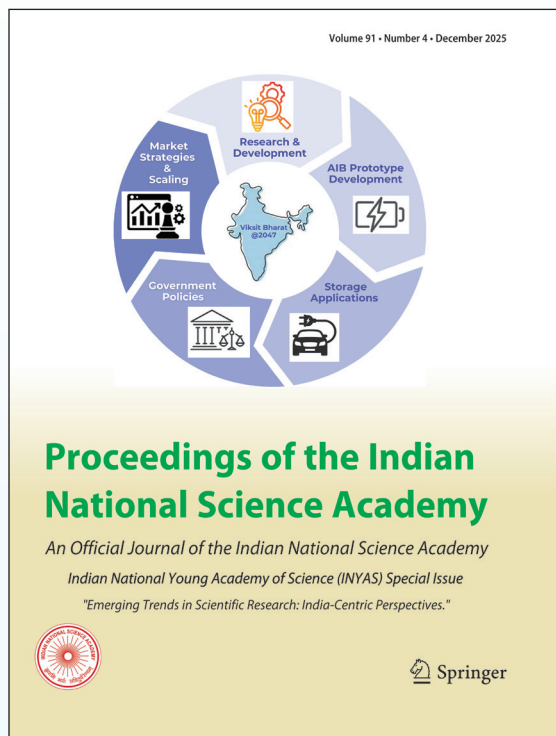
Financial Assistance by INSA

Ten Indian scientists were supported by the Academy for attending the Non ISC (International Science Council) sponsored conferences abroad.

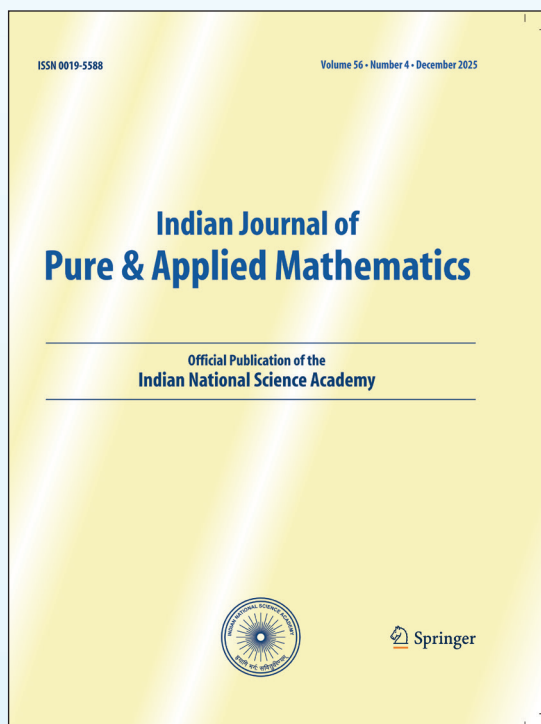
Three Indian scientists were supported by the Academy for attending the ISC (International Science Council) sponsored conferences abroad.

Recent Publications of the Academy

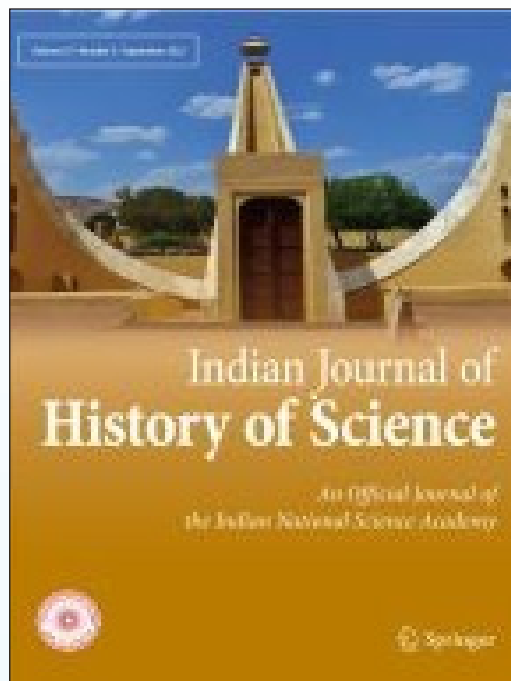
Proceedings of the Indian National Science Academy:
Vol 92 No.4 (December 2025 issue): Published.



Indian Journal of Pure and Applied Mathematics, Vol 56
No. 4 (December 2025 issue): Published.



Indian Journal of History of Science, (60 Issue3)
(September 2025 issue): Published.



Annual Report 2024-25 (English & Hindi Version):
Published



Indian National Young Academy of Science (INYAS) Activity

The Indian National Science Academy established Indian National Young Academy of Science (INYAS) in December 2014. Following outreach activities have been carried out by INYAS members.

1. The Indian National Young Academy of Science (INYAS) organized an international Indo-Swiss Workshop on “Research Integrity in the Age of Artificial Intelligence” on 10 October 2025 at Bharat Mandapam, New Delhi, in collaboration with the Embassy of Switzerland to India and Bhutan, Swissnex in India, and Frontiers. The workshop aimed to facilitate dialogue between India and Switzerland on ethical, institutional, and policy challenges arising from the increasing use of AI in research and scientific publishing. The workshop was inaugurated by Her Excellency Ms. Maya Tissafi, Ambassador of Switzerland to India and Bhutan, and Professor Dhananjay Singh, Member Secretary, ICSSR, with welcome remarks by Dr Nishant Chakravorty, Chair, INYAS. Over fifty participants from academia, research institutions, industry, policy bodies, and publishing organizations from both countries took part in the deliberations. The sessions addressed responsible research practices in India and Switzerland, the role of institutions and policy in governing AI use, the impact of AI on research and scientific publishing, and issues related to publication ethics and open science. Key insights



Group Photograph during Indo-Swiss Workshop at Bharat Mandapam a joint programme of INYAS & Swissnex in India on 10 October 2025

were shared by Professor Edwin Constable, Professor Suman Chakraborty, Dr Geetha Vani Rayasam, Dr Gernot Pruschak, Ms. Jhalak Kakkar, Dr Caroline Sutton, Dr Marie Souliere, Mr. Samuel Leslie, and panelists including Professor Manfred Max Bergman, Dr. Meher Wan, Dr. Moumita Koley, Dr Frederick Fenter, and Professor Rajendra Dhaka. The discussions emphasized trust, transparency, ethical AI deployment, adaptive policy frameworks, and the importance of open and responsible research ecosystems. The workshop was moderated by Dr Lena Robra, Dr. Sriparna Chatterjee, Dr George Thomas, and Dr. Kutubuddin Molla, and concluded with reaffirmation of INYAS's commitment to promoting research integrity and strengthening international collaboration in the age of artificial intelligence.

2. The *Capacity Building National Workshop for Teachers on Communication and Dissemination of Indian Knowledge System (IKS)* was organized on 16 October 2025 at the Faculty Development Center, Maharshi Dayanand University, Rohtak, under the NCR Zone as part of the RuSETUP Programme by CSIR–NIScPR in collaboration with the Indian National Young Academy of Sciences (INYAS). The workshop was convened by Dr Sandhiya Lakshmanan, with organizational support from Dr Charu Lata, INYAS Alumna, and Dr Sandhiya Lakshmanan, INYAS Member. The programme witnessed participation from 117 teachers representing more than 75 institutions across the region. The inaugural session



Capacity Building National Workshop for Teachers at Rohtak, Haryana

featured Dr Geetha Vani Rayasam, Director, CSIR–NIScPR, who introduced the SVASTIK initiative for promoting Indian Knowledge Systems, Padma Bhushan Dr Anil P Joshi, who highlighted the relevance of traditional wisdom in achieving sustainability, and Professor Rajbir Singh, Vice-Chancellor, MDU, who emphasized the pivotal role of teachers in disseminating IKS. The technical sessions covered diverse themes including India’s scientific heritage, traditional water management systems, indigenous soil practices, science communication through SVASTIK, and the use of artificial intelligence in designing educational content, with expert inputs from Professor Ranjana Aggarwal, Dr Ashwani Kumar Tiwari, Dr Raj Mukhopadhyay, Dr Charu Lata, and Dr Paramananda Barman. Interactive hands-on exercises on infographic development and outreach communication enabled participants to effectively link traditional knowledge with modern pedagogical practices. The workshop successfully strengthened teachers’ capacities in scientific communication and cultural knowledge dissemination, and participants expressed keen interest in integrating validated IKS principles into classroom teaching, thereby fostering collaboration between educators and researchers for promoting India’s knowledge heritage through evidence-based and innovative approaches.

3. *The Water and Climate Exploratorium: Inspiring Rural Minds through Science* was organized on 6 October 2025 from 09:00 am to 4:00 pm IST at the Convocation Hall and APJ AKB-103, APJ Block, IIT Roorkee, under the North Zone. Convened by Mr. Ankit Agarwal, the programme engaged 90 student participants and aimed to enhance awareness and interest in water and climate sciences through experiential learning. A key highlight of the event was the students’ participation in the inauguration of the XIIth IAHS Scientific Assembly 2025, which provided them with exposure to an international scientific platform and interactions with global experts in hydrology. The programme included lectures introducing fundamental concepts of hydrology, hydrometeorological instruments, and career opportunities in water-related sciences, complemented by an interactive hydrology-themed Pictionary activity that



Outreach Programme of 90 students from rural area at IIT Roorkee

strengthened conceptual understanding and student engagement. Participants also visited the hydrometeorological observatory to observe real-time data collection and monitoring processes. An interactive session with INYAS Mentor Dr V. M. Tiwari further enhanced students’ motivation and scientific curiosity through direct dialogue with a senior scientist. The event concluded with the distribution of certificates and mementoes to students and teachers in recognition of their participation. Overall, the programme successfully integrated expert knowledge with hands-on learning and interactive activities, fostering strong scientific engagement and inspiring students, particularly from rural backgrounds, to explore future academic and career pathways in water and climate sciences.

4. *The ILS: Plant Tissue Culture Training* was conducted on 28 November 2025 at the Institute of Life Sciences (ILS), Bhubaneswar, and was convened by Ms Namisha Sharma. The training programme witnessed the participation of 48 students, research scholars, and early-career scientists and was designed to strengthen practical skills in plant biotechnology. The workshop provided hands-on training in core plant tissue culture techniques, including media preparation, sterilization procedures, aseptic handling of explants, and establishment and maintenance of plant cultures. Participants were also introduced to transient gene expression approaches, with a

focus on *Agrobacterium*-mediated transformation, covering gene construct delivery, infiltration methods, and analysis of reporter gene expression. The sessions further highlighted applications of these techniques in functional genomics, regulation of plant growth, stress tolerance, and plant–pathogen interaction studies. Active engagement and discussions throughout

the programme enabled participants to gain clarity on contemporary tools and methodologies in plant biotechnology. Overall, the workshop successfully combined theoretical understanding with intensive laboratory exposure, and participants expressed high satisfaction with the quality and relevance of the training for their ongoing research and future scientific endeavours.



ILS: Plant Tissue Culture Training at ILS Bhubaneswar

5. The *Science Education Demonstration and Nature Learning in Rural Uttarakhand* programme was organized on 28–29 October 2025 at Government Inter College, Triyuginarayan (Rudraprayag), Uttarakhand, under the West Central Zone, and was convened by Dr Arun Kumar Jugran, Dr Deviden Yadav, and Dr Meena Krishnia. Conducted under the INYAS Flagship Programme 2025 RuSETUP in collaboration with the Govind Ballabh Pant National Institute of Himalayan Environment (GBPNIHE), the two-day science awareness initiative engaged 132 students from classes 6 to 12 from rural Himalayan communities. The programme covered key themes including soil and water conservation, agriproduct valorization, Himalayan biodiversity, climate change, and ecological sustainability through offline and online expert lectures delivered by scientists from GBPNIHE, IISWC Dehradun, NABI, and HNB Garhwal University. Hands-on demonstrations on



Science Education Demonstration and Nature Learning in Rural Uttarakhand

herbarium preparation, field specimen collection, and plant identification techniques, along with a guided nature walk, provided students with practical exposure to local forest biodiversity and ecological processes. An interactive career guidance session highlighted opportunities in

science education, biodiversity conservation, and environmental research, while a plantation drive reinforced environmental responsibility and community participation. The initiative was well received by teachers and students alike, who appreciated its impact in strengthening STEM engagement and scientific curiosity in remote Himalayan regions. Overall, the programme successfully connected traditional ecological knowledge with modern scientific practices, fostering environmental awareness and interest in science-based careers among rural students.

6. The *Science Outreach Lecture and Competition* was conducted on 12 November 2025 at Government High School, KazipetJageer, Kazipet Mandal, Hanumakonda District, Telangana, as a zonal outreach event convened by Dr Subbiah Nagarajan. The programme was jointly organized by the Indian National Young Academy of Sciences (INYNAS), the Indian National Science Academy (INSA), Jana Vignana Vedika (JVV) Telangana, and the host school, and witnessed the participation of 138 students. The event featured four competitive activities—essay writing, elocution, drawing, and quiz—which encouraged scientific thinking, creativity, and active student engagement. Interactive sessions and exhibits showcased recent developments in science and technology and highlighted their relevance to society. Expert lectures delivered by Dr S Nagarajan on “Science for Society” and Professor K Laxma Reddy on “Indigenous

Technologies for Viksit Bharat” provided students with accessible insights into the role of science, research, and innovation in national development. The programme successfully fostered enthusiasm for STEM learning by presenting complex scientific concepts in a simple and relatable manner. Prizes and certificates were awarded to winners to recognize achievement and encourage participation. Overall, the outreach event effectively enhanced scientific awareness among school students and motivated them to explore science as a tool for societal progress and nation building.’

7. The *Science Outreach Lecture and Competition* was organized on 18 October 2025 at Zilla Parishad High School (ZPHS), Munigalaveedu, Mahabubabad District, Telangana, as a zonal outreach event convened by Dr S. Nagarajan. The programme was jointly conducted by the Indian National Young Academy of Sciences (INYNAS), the Indian National Science Academy (INSA), Jana Vignana Vedika (JVV) Telangana, and ZPHS Munigalaveedu, and witnessed the participation of 110 students. The event featured competitive activities including essay writing, elocution, drawing, and quiz, which encouraged scientific expression, creativity, and active student engagement. Expert lectures delivered by Dr S. Nagarajan on “Science for Society” and Professor K. Laxma Reddy on “Indigenous Technologies for Viksit Bharat” provided accessible insights into contemporary scientific research and its societal



Science Outreach Lecture and Competition organized at Government High School, Kazipet Jageer, Kazipet Mandal, Hanumakonda District, Telangana



Science Outreach Lecture and Competition at Zilla Parishad High School (ZPHS), Munigalaveedu, Mahabubabad District, Telangana

relevance, highlighting the role of science and innovation in national development. Interactive sessions and exhibits further exposed students to recent advancements in science and technology and their real-world applications. Overall, the programme successfully fostered curiosity and enthusiasm for STEM learning, emphasizing the importance of scientific thinking, research, and innovation, and motivating students to engage more deeply with science education.

8. The *Explore, Aware, Respond and Think Higher for Career (E.A.R.T.H.)* programme was conducted on 25 October 2025 from 11:00 AM to 1:00 PM at Jabarrah High School, Purulia, West Bengal, and was convened by Mr. Shib S. Ganguli. The outreach event engaged 66 underprivileged high school students from a remote region of Purulia with the objective of fostering scientific curiosity and expanding awareness of diverse career opportunities in science, technology, engineering, and mathematics. The session featured interactive discussions and question-and-answer interactions, reflecting high levels of enthusiasm and engagement among students despite limited prior exposure to hands-on science learning or scientific role models. Simple and relatable demonstrations were used to bridge textbook concepts with real-world scientific applications, enabling students to better appreciate the relevance of science in everyday life. The programme also introduced



Outreach event engaged 66 underprivileged high school students from a remote region of Purulia, West Bengal

students to emerging and unconventional science-based career pathways, including environmental science, artificial intelligence and data science, and geosciences, thereby broadening their perspectives beyond traditional engineering and medical fields. The session further strengthened students' understanding of the role of science in society and future job landscapes, while also familiarizing teachers and students with the vision and mission of INYAS and topics related to Earth science. Overall, the event successfully transformed curiosity into meaningful engagement and highlighted the importance of sustained outreach initiatives in empowering rural and underprivileged learners through exposure to modern scientific careers.

9. The *5th Lecture of the INYAS Research Lecture Series* was organized on 4 November 2025 from 11:30 am onwards at CSIR–Central Leather Research Institute (CLRI) under the South Zone, and was convened by Dr Amit Ashok Vernekar. The event, attended by approximately 100 participants, formed part of the INYAS Research Lecture Series aimed at fostering engagement among research students, scientists, and faculty across disciplines. The programme began with an introduction to the mission, vision, and initiatives of INYAS by Dr Nishad Fathima, who emphasized the importance of scientific collaboration and professional development for early-career researchers. The invited lecture was delivered by Dr T Kuber Sampath, an internationally recognized



5th Lecture of the INYAS Research Lecture Series at CSIR-CLRI

expert in bone and cartilage regenerative applications, who provided a comprehensive overview of the discovery and development of Bone Morphogenetic Proteins (BMPs) and their translational journey from fundamental research to clinical applications in regenerative medicine. The lecture offered valuable insights into emerging biomaterials, tissue engineering scaffolds, and innovative translational strategies for orthopedic regeneration. A highly interactive question-and-answer session lasting approximately 45 minutes reflected strong engagement and curiosity among students, researchers, and scientific staff. Overall, the lecture successfully promoted interdisciplinary scientific dialogue and inspired young researchers by highlighting the impact of translational and collaborative science in advancing transformative healthcare solutions, in alignment with INYAS's objective of strengthening research capacity and innovation across the country.

10. The *Lecture on Career in Science for Master's in Science Students* was conducted on 13 November 2025 at 10:00 AM at Uday Pratap College, Varanasi, and was convened by Dr Ashish Kumar Mishra. The outreach programme engaged around 100 postgraduate students from the departments of Physics, Chemistry, and Mathematics, with the objective of providing clarity on diverse career pathways available after completion of a Master's degree in science. The lecture offered detailed



Lecture on Career in Science for Master's in Science Students at Varanasi, Uttar Pradesh

insights into major Government of India initiatives such as the Battery Mission, Semiconductor Mission, and the National Quantum Mission, highlighting their relevance to future scientific careers. Career opportunities in premier national scientific organizations including BARC, ISRO, and DRDO, as well as associated roles in industry, were discussed in depth. The session also emphasized pathways for pursuing doctoral studies and research careers in academic institutions and national research laboratories across the country. An interactive discussion enabled students to seek clarification on competitive examinations, research trajectories, and skill development, reflecting strong engagement. Faculty members and the college principal participated actively, strengthening institutional involvement, and the event received coverage from local print media, enhancing its outreach impact. Overall, the lecture successfully broadened students' awareness of emerging and traditional career options in science and technology and underscored the importance of informed career planning for postgraduate science students.

11. The *Little Scientists, Big Mission: Beat AMR* outreach programme was organized on 18 November 2025 from 8:00 AM to 2:30 PM at the ICAR–National Research Centre on Pig, Guwahati, Assam, and was convened by Dr Rajib Deb, Senior Scientist, with Dr Mayuri Chabukdhara as Co-Convenor. The programme engaged 32 school students with the objective of creating awareness about antimicrobial resistance (AMR) through experiential learning and interactive engagement. Participants received hands-on exposure to microbiology laboratories, where they observed bacterial culture techniques and methods used for AMR detection. An expert lecture introduced students to the concept of antimicrobial resistance, addressing the emergence of superbugs, the consequences of antibiotic misuse, and strategies for prevention and responsible antibiotic use. To reinforce learning, creative activities such as a pencil sketch competition and an AMR-themed quiz were conducted, encouraging visual thinking, teamwork, and scientific expression. The programme enhanced students' understanding of the causes, consequences, and mitigation



Outreach programme was organized on 18 November 2025 at the ICAR–National Research Centre on Pig, Guwahati, Assam for 32 school students

of AMR, empowering them to act as informed health ambassadors within their communities. Participation certificates and prizes, including special recognition for the youngest achiever, motivated enthusiastic involvement. Overall, the event successfully fostered early scientific curiosity and awareness of responsible research and public health practices, concluding with a strong message encouraging students to promote AMR awareness and responsible antibiotic use in their local communities.

12. *The National Education Day – Workshop on Research, Innovation, and Start-up Ecosystem*

was organized on 11 November 2025 at the ICAR–Central Rice Research Institute (CRRI), Cuttack, under the East Zone, and engaged 75 students from 14 institutes. The workshop was coordinated by Mr. Totan Adak, with academic and sessional contributions from Dr Dibyendu, Dr Kutubuddin, and Dr Sriparna, representing INYAS and NAAS. The programme provided students with a comprehensive overview of the research-innovation-entrepreneurship continuum, demonstrating how scientific ideas can be translated into technologies and start-up ventures. Through interactions with senior scientists, innovators, and entrepreneurs, students gained



National Education Day – Workshop on Research, Innovation, and Start-up Ecosystem was organized on 11 November 2025 at the ICAR–Central Rice Research Institute (CRRI), Cuttack

insights into the role of creative problem-solving and innovation-driven approaches in strengthening India's agricultural sector. Detailed presentations on ICAR-CRRI technologies showcased advancements in rice production, crop improvement, precision farming, and sustainable agriculture. Expert talks by representatives from KIIT-TBI, CSIR-IMMT, DBT-ILS Bioincubator, and the GPS Institute of Agricultural Management addressed key aspects of intellectual property rights, technology management, scientific entrepreneurship, incubation mechanisms, and access to Government funding. The interactive sessions enabled students to understand the journey of research ideas from conceptualization to prototyping, patenting, and commercialization. Overall, the workshop successfully motivated participants to explore innovation-led career pathways and fostered a strong appreciation of the national ecosystem supporting agri-based start-ups, reinforcing the role of education, research, and entrepreneurship in driving India's agricultural transformation and self-reliance.

13. The *Science Outreach Programme (DPS Kalinga Visit)* was conducted on 21 November 2025 at the ICAR-Central Rice Research Institute (CRRI), Cuttack, under the East Zone, and was convened by Dr. Kutubuddin Molla and Dr. Dibyendu Chatterjee. The programme engaged 273 students and 10 teachers and offered a comprehensive exposure to advanced agricultural research and innovation. Students visited several state-of-the-art facilities at ICAR-CRRI, including the biofertilizer unit, pesticide residue laboratory, biocontrol laboratory, farm machinery section, and the Oryza Museum, which collectively enhanced their understanding of rice biodiversity, sustainable agriculture practices, and food security. The visits provided hands-on insights into microbiology-based agricultural inputs, analytical instrumentation, eco-friendly pest management strategies, mechanized farming solutions, and agricultural engineering technologies. Interactive sessions with leading scientists introduced students to the scientific method, research careers, and recent advancements in rice science, while dedicated discussions on start-up incubation, funding schemes, and entrepreneurial opportunities



Science Outreach Programme (DPS Kalinga Visit) was conducted on 21 November 2025 at the ICAR-Central Rice Research Institute (CRRI), Cuttack

highlighted pathways in agri-tech innovation. The programme effectively familiarized students with the role of digital agriculture, biotechnology, and innovation in addressing real-world agricultural challenges. Overall, the outreach event created an engaging learning environment that combined scientific exposure with career orientation, inspired strong enthusiasm among students, and received positive feedback from teachers, reaffirming the value of early exposure to high-quality research ecosystems in shaping future researchers, innovators, and entrepreneurs in agriculture and allied sciences.

14. *IDEATHON 2025* was organized on 16–17 November 2025 at Atal Bihari Vajpayee-Indian Institute of Information Technology and Management (ABV-IIITM), Gwalior, and brought together around 100 students, faculty members, and INYAS representatives to promote scientific thinking, innovation, and technology-driven problem solving. The event was convened by Dr Anuraj Singh and Dr Manoj Gupta and conducted by Dr Ashish Bhatnagar. The programme commenced with an inspiring address by Professor Rajeev Ahuja, Director, IIT Ropar, who explained the relevance of recent Nobel Prize-winning discoveries and illustrated how transformative ideas often emerge from simple scientific questions. Professor Prabhakar Singh from IIT BHU highlighted challenges in school-level science education and emphasized



IDEATHON 2025 brought together around 100 students, faculty members, and INYAS representatives to promote scientific thinking, innovation

the role of research-oriented and student-centric pedagogical approaches in strengthening scientific learning. Professor Anurag Srivastava of ABV-IIITM discussed the importance of science and innovation in addressing energy and environmental challenges, particularly in the context of sustainability-driven solutions. INYAS members Dr Anuraj Singh and Dr Manoj Gupta introduced participants to INYAS initiatives, national research opportunities, higher education pathways, and career development avenues for young scientists. Dr Ashish Bhatnagar delivered a focused session on emerging scientific domains such as materials science, electric mobility, and hydrogen energy, encouraging interdisciplinary thinking. The event concluded with enthusiastic student feedback, reflecting high levels of engagement and motivation. Overall, IDEATHON 2025 successfully demonstrated the dynamic and societal relevance of science, inspired curiosity and persistence among young learners, and reinforced the importance of interdisciplinary approaches in shaping innovation-led careers and India's long-term scientific and technological progress.

15. The *Science Outreach Lecture and Competition* was organized on 24 November 2025 at PMSHRI TGRS & JC, Velair Mandal, Velair District, Telangana, convened by Dr Subbiah Nagarajan, with active support from Sai Santosh Kumar Raavi. The programme engaged over 100 school students and aimed to foster scientific curiosity,



Science Outreach Lecture and Competition was organized on 24 November 2025 at PMSHRI TGRS & JC, Velair Mandal, Velair District, Telangana

critical thinking, and problem-solving skills among young learners in the region. Expert talks by Professor S. Nagarajan (NIT Warangal) and Professor T Laxma Reddy (Retd.) emphasized the dynamic role of science and technology in shaping society and national progress, inspiring students to appreciate science beyond textbooks. The event featured multiple competitions, including quizzes, elocution, and painting, enabling students to creatively apply scientific concepts, with winners felicitated to encourage participation and motivation. Distinguished guests contributed library books to the school, enhancing academic resources and long-term learning opportunities. The event also received newspaper coverage, amplifying its outreach impact. Overall, the programme successfully stimulated enthusiasm for STEM learning, strengthened students' engagement with scientific ideas, and highlighted the importance of outreach initiatives in rural and semi-urban areas, thereby nurturing a future generation equipped to contribute to India's technological and scientific advancement.

16. The five-day national workshop *SCOPE 2.0 – Science Communication, Outreach & Public Engagement* organised under the Malaviya Mission Teacher Training Programme (MMTTP) of the Ministry of Education, Government of India was successfully organised at IIT Kharagpur



SCOPE Workshop organized by INYAS in collaboration with Ministry of Education and IIT Hyderabad at IIT Kharagpur aimed to train 38 faculty members under MMTTP

from 15-19 November 2025. Jointly conducted by IIT Kharagpur and IIT Hyderabad, with the support of the Indian National Young Academy of Science (INYAS) the workshop brought together 38 young faculty members from CFTIs across the country for intensive capacity building in science communication. The Special Address on the topic “Making of a Paper - Paper Factory?” by Professor Suman Chakraborty, Director of IIT Kharagpur infused energy into the audience by his ideas on how science communication and research excellence should move ahead. The inauguration ceremony on 15 November, 2025 at Gargi Auditorium, included speeches from leading academic and policy dignitaries. Shri Devendra Kumar Sharma, Professor Ramkrishna Sen, Dr Nishant Chakravorty and Professor Chandra Shekhar Sharma underlined the national importance of strengthening science outreach and enhancing the Indian knowledge ecosystem. On Day 1 the BODH – S.H.A.K.T.I Communication Module was conducted that explained to the participants the principles of impactful scientific expression through activities such as elevator pitches, peer translation and science storytelling. For the next four days, the participants attended enriching sessions by

renowned science communicators, journalists, editors and researchers. Major themes covered included science storytelling, science journalism, communication for various publics, press writing, academic publishing, ethics in communication and publishing, patent drafting, media engagement and the emerging role of AI in scientific dissemination. Interactions with experts - Mr Pallava Bagla, Mr Prasad Ravindran, Dr Manoj Kumar Patairiya, Dr Meher Wan, Dr Rohini Kitture, Ms TV Padma, Dr Kutubuddin Molla, Dr Somdatta Karak and Dr Nimish Kapoor imparted immense knowledge. A campus tour of IIT Kharagpur gave further insight into the scientific legacy of the institute. The workshop was concluded with a warm Valedictory Session and Certificate Distribution Ceremony, which acknowledged the active participation and successful completion of training by all participants. SCOPE 2.0 once again reiterated the commitment for equipping young faculty with modern communication skills, fostering scientific temper and meaningful public engagement for Viksit Bharat.

17. The *Shaping Future in Biotechnology: Opportunities Beyond Classroom* programme was organized on 17 November 2027 from 11:00



Shaping Future in Biotechnology: Opportunities Beyond Classroom programme was organized for 35 M.Sc students

AM to 5:00 PM at Utkal University, Bhubaneswar, and was convened and co-coordinated by Ms. Namisha Sharma. The session engaged 35 M.Sc. students and aimed to broaden their understanding of career pathways in biotechnology beyond traditional classroom learning. Participants actively discussed emerging research areas, industry-relevant skills, and evolving sectoral demands, highlighting the importance of interdisciplinary knowledge, practical experience, and continuous skill development for careers in research, industry, and allied domains. The interactive discussions enabled students to clarify doubts on career planning, professional growth, and opportunities for hands-on engagement, reflecting strong curiosity and engagement. Overall, the programme successfully motivated students to explore diverse biotechnology career options, align their academic preparation with professional expectations, and make informed decisions about future research and industry

pathways, while enhancing awareness of the dynamic biotechnology landscape.

18. The *Inspiring Young Minds: Exploring Research Opportunities in Plant Biotechnology* programme was conducted on 21 November 2025 from 11:00 AM to 5:00 PM at SRG Government Women's College, Berhampur, and was coordinated by Ms. Namisha Sharma, who also served as the resource person. The session engaged 75 B.Sc. and M.Sc. students and aimed to broaden their understanding of career opportunities in plant biotechnology beyond conventional academic paths. The interactive programme introduced participants to diverse avenues in industrial biotechnology, diagnostics, genomics, biopharma, regulatory affairs, science communication, bioinformatics, start-ups, and entrepreneurship, with a focus on plant biotechnology. Discussions emphasized the growing demand for skilled professionals across research institutions, biotech industries, start-ups, and government-supported innovation initiatives.



Inspiring Young Minds: Exploring Research Opportunities in Plant Biotechnology at SRG Government Women's College, Berhampur

Students actively participated through questions and discussions, gaining clarity on emerging research areas, necessary skill sets, and career planning strategies. Overall, the programme successfully motivated students to explore evolving career options in plant biotechnology, align their academic preparation with practical and industry-relevant competencies, and make informed decisions regarding future research and professional pathways, while enhancing confidence and awareness of opportunities in this dynamic field.

19. The *RuSETUP – Vigyaan ki Paathshala* programme was conducted on 29 November 2025 from 9:30 AM to 5:00 PM at Universal Skill-Tech University, Vasai, Mumbai, under the West Zone, and was organized by Adish Tyagi, Brindaban Modak, K. K. Singh, with resource coordination by Vivek Parkar and guidance support from Prabhat Singh, PC Rout, Mohit Tyagi, and Santosh K Gupta. The programme engaged approximately 150 students from two rural schools and aimed to provide hands-on scientific exposure in a language-accessible format (Marathi) to ensure maximum engagement. The session began with

an introduction to INYAS and its outreach initiative *Vigyaan ki Paathshala*, followed by an inspiring demonstration-based lecture by Professor B. Chakradeo that illustrated foundational physics concepts. Parallel sessions in physics, chemistry, and biology allowed students to perform simple experiments, including acid–base reactions and pH testing with everyday materials, learn microscopy through slide preparation and observation, and gain practical understanding of cellular structures, bacteria, viruses, mitosis, and meiosis. Continuous interaction with INYAS members encouraged questioning, curiosity, and experiential learning. The event concluded with certificate distribution and motivational messages from INYAS members, reinforcing confidence and scientific ambition among participants. Feedback indicated that for many students, this was their first opportunity to engage in real laboratory experiments, highlighting the strong impact of experiential, language-accessible outreach. Overall, the *RuSETUP* programme successfully ignited scientific curiosity and demonstrated the effectiveness of hands-on initiatives in nurturing sustained interest in STEM among rural learners.



RuSETUP organized at Universal Skill-Tech University, Vasai, Mumbai, under the West Zone

20. The *INSPIRE – Integrating Science, Psychology and Inquiry for Real Education* programme was organized on 22 November 2025 from 9:00 AM to 5:00 PM at the Lecture Theatre Complex, BITS Pilani, Rajasthan, and was convened by Dr Devendra Singh Basera (GMC Sirohi) and

Dr Anuj Jakhar (IIT Madras, INYAS member). The outreach initiative engaged approximately 280 participants, including 250 students and 30 teachers from Pilani, Chirawa, and Jhunjhunu regions, with the aim of providing a holistic learning experience combining science, psychology,



INSPIRE – Integrating Science, Psychology and Inquiry for Real Education organized at BITS Pilani

innovation, and career awareness. The inaugural sessions emphasized the importance of scientific temper, creativity, and psychological well-being for personal and professional development. Demonstrations, including liquid nitrogen–based diamagnetic and superconductivity experiments, generated significant curiosity and excitement. Dedicated sessions addressed critical topics such as mental health and stress management for college students, sustainable agriculture and waste valorization research, and structured STEM career pathways in India and abroad. Participants also experienced real research environments through laboratory visits at BITS Pilani, bridging the gap between theoretical learning and practical

scientific practice. Active student engagement, including on-stage feedback and interactive discussions, reflected deep interest in research and higher education opportunities. Overall, the INSPIRE programme provided a transformative experience, particularly for students from rural and semi-urban backgrounds, and successfully reinforced INYAS’s mission of promoting scientific awareness, critical thinking, and inclusive access to quality science education.

21. *The Role of Artificial Intelligence in Advancing Food Science and Nutritional Biochemistry* workshop was conducted on 28 November 2025 at the Division of Biochemistry, ICAR–Indian Agricultural



The one-day workshop engaged 66 participants and aimed to provide an in-depth understanding of AI applications in food science

Research Institute (ICAR-IARI), New Delhi, under the North Central (NCR) zone, and was convened by Dr Veda Krishnan and Dr Rishemjit Kaur, who also served as resource persons. The one-day workshop engaged 66 participants and aimed to provide an in-depth understanding of AI applications in food science and nutritional biochemistry, integrating concepts, tools, and practical approaches. Participants were introduced to AI-driven techniques in nutritional analysis, spectroscopic data interpretation, predictive modelling, and digital agriculture systems. Expert lectures covered machine learning fundamentals, exploratory data analysis, supervised and unsupervised learning, and AI-enabled decision-making in agriculture and nutrition research. National mission-level initiatives in smart and digital agriculture were also highlighted, emphasizing the importance of interdisciplinary collaboration and computational literacy for modern life science researchers. The workshop facilitated meaningful interactions among students, researchers, and scientists, promoting knowledge exchange across institutional and disciplinary boundaries. Overall, the programme successfully enhanced participants' understanding of AI's transformative potential, combining theoretical insights with practical demonstrations, fostering interdisciplinary thinking, and reinforcing the role of AI-enabled approaches in shaping the future of food, nutrition, and agricultural innovation.

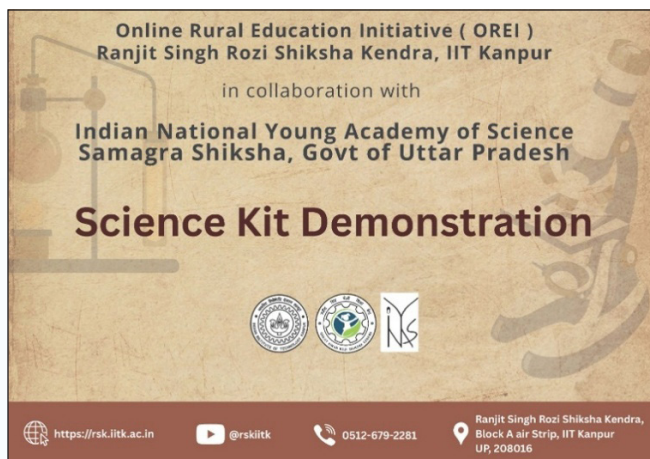
22. The *Pharmacy Week Celebration: Career Guidance Workshop* was organized on 5 December 2025 at JCDV, Sirsa, and was convened by Dr Kalpana Nagpal, who also served as the resource person. The workshop engaged approximately 300 students and provided comprehensive guidance on diverse career pathways in pharmacy, including industrial pharmacy (R&D, F&D, QA/QC), clinical research and pharmacovigilance, regulatory affairs and intellectual property, hospital and clinical pharmacy practice, entrepreneurship, government and PSU opportunities, and higher education prospects in India and abroad. Participants received practical training on essential professional skills such as résumé writing, scientific communication, and preparation strategies for competitive examinations including



Pharmacy Week Celebration: Career Guidance Workshop was organized on 5 December 2025 at JCDV, Sirsa

GPAT, NIPER-JEE, CSIR/DRDO-JRF, and related fellowships. The technical sessions were complemented by co-curricular competitions, including poster presentations, model making, and rangoli, which promoted creativity, teamwork, and effective communication of pharmaceutical concepts. Overall, the workshop successfully enhanced students' awareness of pharmacy career options, strengthened professional skills, and fostered a holistic learning environment that combined scientific knowledge, innovation, and artistic expression. Feedback from participants highlighted increased confidence, motivation, and clarity in planning future careers, reflecting the programme's effectiveness in achieving INYAS outreach objectives.

23. The *Science Kit Demonstration* programme was conducted on 5–6 December 2025 across six government schools in Lucknow, Uttar Pradesh, and was convened by Sudhanshu Shekhar Singh. The programme engaged approximately 280 students and introduced hands-on, inquiry-based science learning using a low-cost Science Kit developed at IIT Kanpur, featuring over 100 experiments spanning Physics, Chemistry, and Biology. Each experiment was supported by video tutorials and structured documentation, enabling students to explore scientific concepts through practical observation and fostering a shift from rote learning to experiential understanding. The demonstrations generated strong interest



Science Kit Demonstration programme was conducted on 5–6 December 2025 across six government schools in Lucknow, Uttar Pradesh

among students and helped teachers build confidence in implementing experiment-based pedagogy in regular classrooms. Overall, the two-day programme effectively enhanced conceptual understanding, curiosity, and critical thinking among students while demonstrating the scalability and transformative potential of low-cost educational tools. Feedback highlighted the kit's usefulness in improving science teaching quality, reinforcing INYAS's mission to strengthen scientific literacy and experiential learning in schools across Uttar Pradesh.

24. The 3rd Aerosol Winter School (AWS) 2025 on “Atmospheric Aerosols, Cloud & Climate Science” was held from 24–29 November 2025 at the Central University of Jammu, Jammu & Kashmir, and was convened by Shweta Yadav. The intensive programme engaged approximately 100 participants, including faculty members, scientists, research scholars, consultants, and officials, with the aim of enhancing capacity in atmospheric aerosols, air pollution science, aerosol chemistry, cloud–climate interactions, and related analytical techniques. Expert lectures and tutorials delivered by eminent national and international scientists provided in-depth knowledge of aerosol composition, chemical characterization, receptor modelling, and standardized analytical frameworks, while sessions on remote sensing and GIS offered practical insights into spatial analysis of air quality and atmospheric processes. Hands-on demonstrations of radiosonde systems familiarized participants with operational principles and real-world applications in atmospheric and climate studies. The programme also served as a platform for interdisciplinary knowledge exchange across States and Union Territories, involving Pollution Control Board officials and representatives from urban local bodies. The formal launch of the Atmos Kids – the Gen Alpha Change Makers initiative extended the impact to school-



3rd Aerosol Winter School (AWS) 2025 on “Atmospheric Aerosols, Cloud & Climate Science” was held from 24–29 November 2025 at the Central University of Jammu, Jammu & Kashmir

level climate awareness. Overall, the 3rd Aerosol Winter School successfully advanced research excellence, strengthened practical and theoretical expertise in aerosol and climate science, and reinforced INYAS's mission of capacity building, outreach, and promoting scientific literacy in atmospheric and environmental research.

25. The *Scientific Awareness Program* at Jamuguri Higher Secondary School was held on 18 November 2025 in Jamuguri, Sonitpur District, Assam, and was convened by Dr Pankaj Barah (INYAS member, Tezpur University). The programme engaged over 200 students from Classes VIII–XII with the objective of promoting scientific temper and curiosity by linking classroom learning with real-world exploration. Interactive career talks introduced participants to diverse

opportunities in STEM fields and guided them on academic pathways beyond school education. Hands-on demonstrations, including innovative smartphone-based microscopy, allowed students to observe microscopic structures and reinforced fundamental scientific principles through low-cost, accessible experiments. Active involvement of Integrated MSc students from Tezpur University facilitated peer-level engagement across physics, chemistry, mathematics, and molecular biology/biotechnology, enhancing the interactive learning experience. Overall, the programme successfully fostered enthusiasm, experiential learning, and scientific literacy among students, inspiring them to explore STEM beyond textbooks and consider future careers in research and innovation, in alignment with INYAS's outreach objectives.



Scientific Awareness Program at Jamuguri Higher Secondary School was held on 18 November 2025 in Jamuguri, Sonitpur District, Assam

26. The *Developing Future Researchers: Designing and Demonstrating Research Impact (DFR 2025)* workshop was held on 15 December 2025 at Rajaji Hall, VIT, Vellore, and was convened by Dr Sakthivadivel Duraisamy, with Dr Aditya

Sadhanala as co-coordinator. The workshop engaged approximately 120 participants, including undergraduate, postgraduate, and early-stage Ph.D. researchers, particularly from rural universities and colleges, and aimed to



Developing Future Researchers: Designing and Demonstrating Research Impact (DFR 2025) workshop was held on 15 December 2025 at Rajaji Hall, VIT, Vellore

build research capacity by introducing essential components of impactful research. Participants gained guidance on designing purpose-driven projects, structuring proposals, visualizing research, and effectively communicating scientific outcomes. Expert sessions covered question-driven research, maximizing research impact, career development beyond the Ph.D., inclusive excellence in academia, and postdoctoral opportunities abroad. Speakers from premier national and international institutions—including VIT, IISc, IIT Kanpur, CSIR-CSIO, ARCI, CeNS, and Heriot-Watt University (UK)—shared practical insights, best practices, and real-world experiences. Overall, DFR 2025 provided participants with clarity on planning high-quality research trajectories, identifying impactful research questions, and exploring global academic and postdoctoral opportunities. The interactive sessions fostered confidence, motivation, and a broader perspective on research excellence, effectively advancing INYAS's mission to empower young researchers with the skills, mindset, and direction necessary for meaningful and impactful scientific careers.

27. The *Five-Day Skill Development Training Program on "Materials Development and Characterization"* was held from 8–12 December 2025 at CSIR–AMPRI, IISER Bhopal, and Sri Sathya Sai College for Women, Bhopal, and was convened

Five-Day Skill Development Training Program
on
Materials Development and Characterization
December 8-12, 2025
Jointly organized by
CSIR-AMPRI, IISER Bhopal & Sri Sathya Sai College for Women, in association with INYAS

SPEAKERS

Venue 8 th , 9 th & 12 th Dec: CSIR-AMPRI, Bhopal 9 th Dec: Department of Chemical Engineering, IISER Bhopal 11 th Dec: Sri Sathya Sai College for Women, Bhopal			Event Coordinators Dr. Archana Singh CSIR-AMPRI & INYAS Member Dr. Paramita Das IISER Bhopal & INYAS Member Dr. Neena Arora Sri Sathya Sai College for Women, Bhopal			

Five-Day Skill Development Training Program on "Materials Development and Characterization" was held from 8–12 December 2025 at CSIR–AMPRI, IISER Bhopal, and Sri Sathya Sai College for Women, Bhopal

by Dr Paramita Das (IISER Bhopal) and Dr Archana Singh (CSIR–AMPRI). The programme engaged 16 undergraduate women students along with faculty and researchers, providing focused exposure to materials development and characterization through lectures, laboratory demonstrations, and hands-on training. Participants gained practical understanding of advanced analytical techniques including PXRD, FT-IR, HPLC, Universal Testing Machine (UTM), ICP-OES, electrochemical workstations, and microwave-assisted synthesis. Technical sessions covered renewable energy devices, sustainable nanomaterials, mechanical properties of polymers and composites, photovoltaic devices, and ethical dimensions of scientific practice. Laboratory visits and demonstrations at CSIR–AMPRI and IISER Bhopal enabled students to connect theoretical knowledge with real research infrastructure, while student-led presentations strengthened scientific communication and conceptual clarity. Overall, the programme successfully empowered undergraduate women students with practical skills, research exposure, and motivation to pursue higher studies and research careers in materials science. The collaborative effort among CSIR–AMPRI, IISER Bhopal, Sri Sathya Sai College for Women, and INYAS highlighted the value of hands-on, skill-based learning, aligning closely with INYAS's mission to foster scientific temper, technical competency, and research-oriented thinking among young learners.

28. The Python Bootcamp 2025 – “Thaggede Le” Edition was held on 29–30 November 2025 at BITS Pilani, Hyderabad Campus, convened by Kirtimaan Syal (organization and logistics) and Professor Priyanka Bajaj (resource person). The two-day bootcamp engaged 60 research scholars and educators from diverse academic backgrounds, providing intensive hands-on training in practical Python applications for teaching, research, and data-driven analysis. Designed to be inclusive, with zero registration fees and no prerequisites, the program emphasized real-world problem-solving, coding for research workflows, and interdisciplinary applications. Participants gained confidence in integrating Python tools into pedagogy and research, while the interactive format fostered collaboration and peer learning. The bootcamp concluded with highly positive feedback, highlighting the relevance of accessible computational training. Participants expressed interest in follow-up sessions on SQL, R programming, and basic machine learning, underscoring the demand for continued capacity building in data science skills. The event reinforced INYAS’s commitment to empowering educators and researchers with digital competencies and promoting technology-enabled education.



Python Bootcamp 2025 – “Thaggede Le” Edition was held on 29–30 November 2025 at BITS Pilani, Hyderabad Campus

29. The Faculty/Young Scientist Development Programme (FDP) on “Emerging Innovations and Persistent Challenges in Electric Vehicle Technology” was held from 15–20 December 2025



Faculty/Young Scientist Development Programme (FDP) on “Emerging Innovations and Persistent Challenges in Electric Vehicle Technology” was held from 15–20 December 2025 at Jaypee Institute of Information Technology (JIIT), Noida

at Jaypee Institute of Information Technology (JIIT), Noida, and was convened by Professor Ashish Mishra (IIT-BHU) as the resource person. The one-week programme engaged 140 participants, including young faculty members and early-career researchers, and provided comprehensive exposure to emerging technologies and persistent challenges in electric vehicle systems through lectures, industry perspectives, and hands-on training. Sessions covered lithium-ion and zinc-based batteries, battery management systems, EV powertrains, motor drives, vehicle dynamics, materials innovation, and battery recycling for sustainable mobility. Practical exercises using ANSYS-EV software enhanced participants’ skills in EV system modeling and simulation. The FDP also emphasized curriculum development, project-based learning, and academia–industry collaboration to strengthen EV education and research. Overall, the programme successfully enhanced technical knowledge, pedagogical approaches, and research perspectives, fostered interdisciplinary learning, and reinforced INYAS’s commitment to capacity building in sustainable mobility, addressing national technological priorities while nurturing young scientific talent.

OBITUARY NOTES

FELLOW

PROFESSOR VIDYESWARAN RAJARAMAN

DOB: 08.09.1933

DOD: 08.11.2025

YOE: 1982

Council Member: 1986-88

Professor Vaidyeswaran Rajaraman obtained his PhD from University of Wisconsin in 1961. His research and teaching was in the fledgling field of computer science. He initiated a computer science option in MTech in IIT Kanpur which was the first academic programme in India. The major research work done by his group was the use of decision tables in developing, optimizing and finding logical errors in computer programs incorporating complex logical decisions. In 1982, he shifted to IISc (till his retirement as Professor) where he set up a National Supercomputing facility. His research work resulted in easy to implement low-cost parallel computers.



HR ACTIVITY

1. Observance of Vigilance Awareness Week (VAW) from 27th October, 2025 to 2nd November, 2025

- The INSA staff took “Integrity pledge for citizen” E-Pledge through the hyperlink “E- integrity Pledge” available at INSA website and “Integrity pledge for Organizations” on 31st October, 2025. The staff members also took pledge in the Academy at 4.00 p.m.



- During the week an Essay competition was organized for staff on the topic “Vigilance Our Shared Responsibility” at 11.00 am to 12.00 noon on 28th October, 2025.
- Rashtriya Ekta Diwas (National Unity Day) : Pledge ceremony**
 - Birth Anniversary of Sardar Vallabhbhai Patel the architect of national integration of independent India is observed as “Rashtriya Ekta Diwas (National Unity Day) on 31st October every year. On this occasion the INSA staff took a pledge.
- Celebration of 150 years of VandeMataram on 7th November, 2025 to 7th November, 2026.**
 - The INSA organized a Mass Singing of “Vande Mataram” (phase –I) on 12th November, 2025 at 11 a.m. The event was also recorded and uploaded on the campaign website as per the given guidelines.



4. **Celebration of Samvidhan Diwas (Constitution day) and reading of Preamble on Constitution day, 26th November, 2025**

- India commemorated a historic milestone on 26th November, 2025, on the subject “Humara Samvidhan, Humara Swabhimaan” marking the 76th anniversary of the adoption of the Constitution of India. To honor and acknowledge the contribution of Founding Fathers of the Constitution day, all the staff members read the preamble on 26th November, 2025 at 11.00 a.m. and all the staff members read the preamble online through the available link.

5. **Session under the Rashtriya Karmayogi Large Scale Jan Seva Programme**

- One day session under the Rashtriya Karmayogi Large Scale Jan Seva Programme conducted by Dr Bipin Joshi, Lead Trainer, DST (Co-Trainer) on 15th December, 2025 for full day in Multipurpose Hall at Jubilee Building. Total 23 staff members participated in the informative session. The Session aims to build workshop competencies, enhance service delivery system and promote a culture of continuous learning among INSA employees, in alignment with the objective of the Karmayogi mission for Viksit Bharat-2047.



6. **Awareness on Sexual Harrassment during Sexual Harrassment Prevention Week (10th to 17th December, 2025)**

- To provide a safe and secure environment to women in the Academy premises and to live with dignity and working environment free from Sexual Harrassment, a poster was circulated among staff members via email, Whatsapp, social media and also displayed on notice Board.