



INS Annual Report

February 01, 2024 to December 31, 2024

1. INS Newsletters from October 2023 to December 2023, Jan-Jun 2024 and Jul-Dec 2024 were published during the report period and soft copies were uploaded on the INS website. Articles for Jul-Dec 2024 newsletter were mainly from AERB in view of INSAC-2024 in association with them in November 2024.
2. Public Outreach Programmes were conducted as follows.
 - i. At IIT Jammu (Nuclear Science and Technology, NEST-24) & NIT Srinagar Indian Nuclear Programme: evolution, present and the way forward
 - ii. At three different schools (Two RLB Memorial Schools and Pioneer Montessori School) & one Govt. Institute CSIR-CDRI, all at Lucknow, UP.
 - iii. Two one day workshops at Dharwad / Hubballi, Karnataka.
 - iv. INS Mysuru Branch conducted the following programs:
 - An outreach programme “Nuclear Energy for Power Generation” for 9th and 10th Standard students of SRS Heritage School, Challakere, Chitradurga, Karnataka on 25/10/2024.
 - A Science quiz was conducted for students of 11th and 12th Standard at SRS PU College, Challakere, Chitradurga, Karnataka on 13/12/2024
 - v. INS Hyderabad Branch conducted A Seminar “Challenges and Advancements in Material Characterization” (CAMC-2024) on 20-11-2024 at Hyderabad
3. INS celebrated Republic Day - 2024 and Independence Day – 2024 along with AERWA.
4. INS–FTGS scheme (Foreign Travel Grant Scheme): Special GBM was held to discuss and finalize the scheme and it was approved. A committee was constituted as follows.
 1. Prof. B.N. Jagatap
 2. Shri G D Mittal
 3. Dr B N Karkera
 4. Shri S K Mishra
 5. Shri O P Rai
 6. Dr V K Manchanda
 7. Dr A Rama Rao - Coordinator
5. The Charity Commission related activities were pursued vigorously this year also to address the pending issues. All documents as required by the Charity Commissioner

were submitted to their office. INS could get good support from them. Efforts are on to obtain Schedule-1, order on change report, address change and amendment of bye-laws.

6. An internal audit was carried out as per the decision of last AGM.
7. Three INS Executive Committee Members, viz. (1) Shri KU Agrawal, (2) Shri OP Rai and (3) Dr Suresh Gangotra represented INS in South Korea during December 03-05, 2024 for Korea Nuclear Association for International Cooperation (KNA), the host association of NES 2024.
8. A talk on 'Nuclear non-proliferation and safeguards' was delivered by Dr. Suresh Gangotra on 30/03/2024 in the INS office at Anushaktinagar.
9. An In-house Expert Lecture Series under 'INS Young Professional Forum' was continued and following talks were arranged under this forum.
 - Thermal Hydraulics in Nuclear Power Plant by Shri R.R. Sahay, Ex-NPCIL
 - AERB: its mandate, regulatory framework and regulatory processes by Shri Parikshat Bansal, AERB
 - Nuclear fuel cycle and advanced fuels by Shri Rahul Tripathi, NPCIL
10. Revamping of the current INS website has been completed. Online membership has been facilitated for new INS members. Existing members can update their contact details, upload photos etc.
11. INS will be collaborating in ChemTECH at Bombay Exhibition Centre, Goregaon, Mumbai. The programme is on 5th March during the 13th edition of Oil Gas & Power World Expo & Conferences, 2025 (05-07 March 2025). The registration charges for INS members are at a discounted registration fee of Rs. 1500/- per participant.
12. The EC approved the appointment of Shri Kanwar Raj to be Returning Officer, for the INS Elections 2024. The full team is as per the following:
 - Shri Kanwar Raj, Returning Officer
 - Dr Ashok Kumar, Member
 - Shri A Ramakrishna, Member
13. INS Annual Conference on "Regulatory Framework for Nuclear Renaissance" was held during November 19-21, 2024 at DAE Convention Centre, Anushaktinagar, Mumbai - 400094.

Report on the INS Annual Conference INSAC-2024

Indian Nuclear Society in association with AERB organized its Annual Conference-2024 (INSAC-2024) with the theme 'Regulatory Framework for Nuclear Renaissance' from November 19-21, 2024 at DAE Convention Centre, Anushaktinagar, Mumbai - 400 094.

The inauguration function on 19/11/2024 was graced by Shri Vivek Bhasin, Director, BARC, Shri D.K. Shukla, Chairman, AERB and Shri B.C. Pathak, CMD, NPCIL.

About 300 delegates from Nuclear Fraternity & Nuclear Industry (including some foreign delegates) participated in the INSAC-2024.

The INSAC-2024 had the following topics in its theme.

- a) Leadership and Management for Safety

- b) Regulatory Framework for Nuclear Safety
- c) Strengthening Resources and Expertise in Regulatory body
- d) Scaling of nuclear power, the regulatory and supply chain imperatives for India's 2047 goals
- e) Public trust through stakeholder engagement
- f) Emergency preparedness and response framework and challenges ahead
- g) Key issues and challenges - Nuclear and Radiological Emergency - National perspective: Roles and Responsibilities of stakeholders.
- h) Safety review experience of three stage, Indian nuclear program lessons for the future
- i) Experiences in safety review and licensing of 700 MW PHWRs
- j) Safety and security interface challenges
- k) Role of regulatory body influencing licenses for strengthening radiation, safety culture
- l) Global initiatives on radiation safety in healthcare infrastructure
- m) Growth of radiation application in medicine and industry: The regulatory perspective
- n) Radiological safety in food radiation and Indian E-Beam technology: A step towards improved radiological safety and Atmanirbhar Bharat
- o) Advances in nuclear fuel cycles towards sustainability
- p) Challenges in regulation of new and emerging technologies
- q) Application of great approach in regulation of nuclear and radiation safety
- r) Development of regulations and guidance and stakeholders' participation
- s) A critique on legal and regulative framework for nuclear renaissance
- t) Global synergy for nuclear safety and nuclear security towards nuclear renaissance
- u) Safety research in regulatory decision making for Water reactors: Current status and way forward
- v) Quality management system and regulatory oversight during manufacturing stages of nuclear (NPP) components

There were two panel discussions on the following topics.

- w) Balancing the regulatory processes for posting rapid growth of nuclear energy while ensuring public safety and trust
- x) Innovations in Regulatory approaches for next-generation NPPs and new entities in the nuclear landscape.

The INSAC-2024 was very successfully conducted. The Conference was appreciated by all those who attended it. The theme "Regulatory Framework for Nuclear Renaissance" was very appropriate as a sequel to last year's international conference INSIC-2023.

THANKS to all the INS EC Members and INS members in general for their support.