

**INDIAN ASSOCIATION FOR NUCLEAR CHEMISTS AND ALLIED SCIENTISTS
(IANCAS)
Annual Report
(2025-2026)**

Dear IANCAS members,

I welcome you all in the 46th Annual General Body Meeting of IANCAS. It gives me immense pleasure to present the details of activities of the association during the period April 1, 2025 to March 31, 2026.

1. Membership

The association has 2066 life members (LMs) and 19 corporate members as on March 31, 2026. During the last financial year, 27 new life-memberships have been granted.

2. IANCAS Workshops

2.1. 111th DAE-BRNS-IANCAS National workshop

The **111th DAE-BRNS-IANCAS National Workshop and Outreach Program on “Nuclear Sciences and Applications of Radioisotopes”** was organized at the School of Basic Sciences, The Assam Kaziranga University, Assam, during **September 15-19, 2025**. Dr. A.C. Deb was the Workshop coordinator and Dr. Nimai Pathak was the practical coordinator of the Workshop. Prof. Nabajyoti Saikia, Dean, School of Basic Sciences, Kaziranga University was the Convener of the Workshop. There were 82 registered participants in the Workshop which included faculty members, research scholars and post graduate students from various institutes/university of Assam, and neighboring states including participant from IIT-Kharagpur.

Dr. Y. K. Bhardwaj, Associate Director, RC&IG, BARC inaugurated the Workshop. In his inaugural address, Dr. Bhardwaj described about various activities of IANCAS like organizing symposia, National Workshops and IANCAS Awards for researchers/scientists working in the field of nuclear and allied sciences. He also mentioned about the thematic bulletins published by IANCAS which are available for download from its website i.e. www.iancas.org.in.

Dr. A. C. Deb, Workshop coordinator, briefly explained the aim of organizing the Workshop and structure of the Workshop. He also emphasized for organizing this Workshop especially in the north-eastern zone of India where immense publicity of the nuclear sciences in general and application of radio isotopes in particular for the benefit of masses are esteem necessary.

Welcoming the participants, Vice Chancellor, Prof. P. K. Mishra described the Workshop as a golden opportunity for researchers, scholars and students of the North East to engage with leading experts in nuclear science, bringing critical knowledge closer to young minds and empowering them to explore impactful research avenues and career paths.

Later in his key note address, Dr. Bhardwaj described about programs of Department of Atomic Energy, emphasizing the application of radiation and radioisotopes in healthcare, food and industry etc. The technical program of the Workshop (enclosed) comprised of 14 lectures and 4 experiments. The lectures were held during the morning sessions and the afternoon sessions were reserved for the practical. Experiments with G.M. counter, NaI(Tl) scintillation gamma ray spectrometer and radioimmunoassay were conducted.

All the lectures were received very well by the participants, which was evident from the questions & answer session following each lecture and subsequent lively discussions.

As part of the outreach activities, the resource team had visited two nearby schools namely (i) Kendriya Vidyalaya RRL, Jorhat and (ii) DON BOSCO Hr. Sec. School, Baghchung, Jorhat to demonstrate the significance of nuclear science through lectures, live experiments and interactive sessions with both students and teachers.

On the final day at the end of technical session, a quiz was conducted on the topics discussed in the lectures during the 5 days Workshop and the response & participation of students and research scholars were overwhelming. Valedictory function was held in the afternoon of September 19, 2025 and Dr. S. Jeyakumar, Head, RCD, BARC was the Chief Guest. Dr. M. Bora, Regional Director, Assam Agricultural University was the Guest of Honor.

A few participants, including students, shared their impressions about the Workshop. Dr. S. Jeyakumar and Dr. A. C. Deb responded to the feedbacks and emphasized the participants to apply radioisotopes in their research work. They appealed the participants to inform the people about the societal benefits of nuclear energy and radioisotopes.

On behalf of IANCAS, NaI(Tl) Detector was donated to the host-institute for their academic use. All the participants were given workshop participation certificates. The Workshop was concluded with a vote of thanks by Prof. Prasanta Jyoti Gautam. The workshop was well covered by local media and 5 TV news channels including News 24 Assam, NE News, DD (NE), PUHOR LIVE8, TIMES Assam. The news of IANCAS workshop in Kaziranga University was published in 4 local newspapers namely (i) Dainik Janambhumi (Assamese), (ii) Dainik Pratidins (Assamese), (iii) Assam Tribune (English), & (iv) North East Times (English) (enclosed).

2.2. 112th DAE-BRNS-IANCAS National Workshop

The **112th DAE-BRNS-IANCAS National Workshop and Outreach Program on “Nuclear Sciences and Applications of Radioisotopes”** was jointly organized by IANCAS & Department of Physics, **Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur, Uttar Pradesh during November 10-14, 2025**. Dr. Seraj Ansari, Radiochemistry Division, BARC was the coordinator for this Workshop. Prof. Shantanu Rastogi, Pro-Vice-Chancellor, DDU Gorakhpur University was the Local Convener. The Workshop was attended by about 75 participants from various Departments of the Host University, MMM University of Technology, Gorakhpur, Lucknow University, and other nearby PG Colleges. Each participant was given a Workshop Participation Certificate and IANCAS book on Fundamentals of Radiochemistry.

The inaugural function of the Workshop was graced by Prof. A.C. Pandey, Director, Inter-University Accelerator Centre (IUAC), New Delhi as the Chief Guest, and Dr. Tapas Das, Head, RPhD, BARC as Guest of Honour. The session was also graced by the august presence of Prof. Poonam Tandon, Hon. Vice-Chancellor, DDU Gorakhpur University. In her welcome address, the Vice-Chancellor highlighted the crucial role of nuclear science in societal development and urged participants to make full use of the opportunity to learn from the distinguished experts.

Prof. A.C. Pandey highlighted that the IUAC at Delhi is providing the world-class accelerator-based research facilities to universities for internationally competitive research. It serves as a central hub, enabling universities to conduct research in fields like nuclear physics, materials science, and radiation biology. Dr. Tapas Das briefed the audience about the various activities of IANCAS in particular, and about DAE in general. Later, he delivered a keynote lecture on the topic “Role of DAE in Building Our Society” which was well received by the audience.

Dr. S.A. Ansari briefed about the theme of the Workshop and emphasized that the Workshop would provide an excellent platform for interaction with eminent scientists and would provide hands-on training with nuclear detectors. Prof. Rastogi, Pro-Vice Chancellor & Local Convener of the Workshop, in his brief address, urged the participants for their active participation in the Workshop for gaining the experience and knowledge of nuclear sciences by the eminent resource persons. Prof. Rakesh Tiwari, Head, Dept. of Physics, proposed the vote of thanks at the end of the inaugural function. The technical program of the Workshop (enclosed) comprised of 14 Technical Lectures, covering the fundamentals of Nuclear and Radiochemistry, interaction of radiation with matters, radiation detection and measurements, radioanalytical techniques, actinide chemistry, nuclear reactors, production and application of radioisotopes in healthcare, agriculture, hydrology and industry. These lectures were delivered by 6 resource persons, and 3 guest speakers. The technical lectures also included two special talks: (i) BARC Technologies for Society, and (ii) BRNS activities, BRNS Research Funding and Career opportunities in DAE. All the lectures were held during the morning sessions, whereas the experiments were conducted in the afternoon sessions. Afternoon experiments included: (1) GM Counter, (2) Gamma-ray Spectrometry using NaI(Tl) detector, and (3) U/Th separation by solvent extraction. On the last day of the Workshop, a quiz competition was organized which was eagerly participated and appreciated by the participants.

Valedictory function was held on November 14, 2025. Dr. R. Acharya, Head, IRAD, BARC was the Chief Guest of the function. All the participants were given participation certificates by the Chief Guest. On behalf of IANCAS, Dr. Acharya donated one GM Counter to the Dept. of Physics, DDU Gorakhpur University for their academic use. Prof. Shantanu Rastogi, Pro-Vice Chancellor & Local Convener of the Workshop, in his valedictory address, declared the Workshop a grand success. He mentioned that through this Workshop, the participants could acquire the knowledge of Nuclear Sciences and Technology and their utilization for mankind. He urged the participants and faculties of the University to utilize the experience and knowledge gained in the Workshop in their teaching and research. Finally, Dr. Udai Bhan Singh, Dept. of Physics, DDU Gorakhpur University proposed the vote of thanks, and the five days National Workshop was concluded with the National Anthem.

Each day of the Workshop, including the inaugural and valedictory function, was well covered by the electronic media and various local Hindi newspapers.

2.3. 113th DAE-BRNS-IANCAS National Workshop

The **113th DAE-BRNS-IANCAS National Workshop and Outreach Program on “Nuclear Sciences and Applications of Radioisotopes”** was jointly organized by IANCAS & Department of Physics, **Netaji Subhash University of Technology (NSUT), Dwarka, New Delhi during February 2-6, 2026**. Dr. Suparna Sodaye, and Shri Ashwani Kumar served as the workshop coordinator and practical coordinator, respectively. Dr. Pargin Bangotra, Department of Physics, NSUT, served as the local coordinator. Dr. Sushmita, Department of Chemistry, NSUT, served as the local co-convener. The workshop was attended by about 63 participants from 23 different institutes all over India. In addition to participants from various Departments of the Host University, it included, participants from various colleges and other universities from in and around National Capital Region (NCR) Delhi, Gurugram University, IIT-Ropar, NIT-Jalandhar, Cochin University of Science and Technology, Aligarh Muslim University, Ramkrishna Mission Vivekananda Centenary College-Kolkata, Christ Church College-Kanpur, CSJMU-Kanpur, IEST-Shibpur, UIET Panjab University-Chandigarh and Sardar Beant Singh University-Gurdaspur. Each participant was given a Workshop Participation Certificate and one IANCAS book on Fundamentals of Radiochemistry was given to each participating institute/college.

The inaugural function of the Workshop was graced by Prof. Anand Srivastava, Vice Chancellor, NSUT as the Chief Guest, and Dr. P.K. Mohapatra, President IANCAS and former Director, RC&IG, BARC as the Guest of Honour. Dr. Pargin Bangotra, Local Convener of the Workshop, in his brief welcome address, urged the participants for their active participation in the Workshop for gaining the experience and knowledge of nuclear sciences by the eminent resource persons. In his welcome address, the Vice-Chancellor highlighted the crucial role of nuclear science in societal development and urged participants to make full use of the opportunity to learn from the distinguished experts. Dr. P.K. Mohapatra briefed the audience about the various activities of IANCAS in particular, and about DAE in general. Later, he delivered a keynote lecture on the topic “Nuclear power and societal applications of radiation and radiotracers” which was well received by the audience.

Dr. Suparna Sodaye briefed about the theme of the Workshop and emphasized that the Workshop would provide an excellent platform for interaction with eminent scientists and would provide hands-on training with nuclear detectors. Prof. Rakesh Tiwari, Head, Dept. of Physics, proposed the vote of thanks at the end of the inaugural function.

The technical program of the Workshop (enclosed) comprised of 14 Technical Lectures, covering the fundamentals of Nuclear and Radiochemistry, interaction of radiation with matters, radiation detection and measurements, radioanalytical techniques, actinide chemistry, nuclear reactors, production and application of radioisotopes in healthcare, agriculture, hydrology and industry. A total of 8 resource persons conducted the workshop along with 2 guest speakers (list enclosed). The technical lectures also included two special talks: (i) Nuclear power and societal applications of radiation and radiotracers, and (ii) Mandates of DAE and Career opportunities in DAE. All the lectures were held during the morning sessions, whereas the experiments were conducted in the afternoon sessions. Afternoon experiments included: (1) GM Counter, (2) Gamma-ray Spectrometry and shielding experiments using NaI(Tl) detector, and (3) Measurement of environmental Radioactivity. On the last day of the Workshop, a quiz competition was organized which was eagerly participated and appreciated by the participants.

Valedictory function was held on February 6, 2026. Dr. Rajesh V. Pai, Head, FCD, BARC was the Chief Guest of the function. All the participants were given participation certificates by the Chief Guest. On behalf of IANCAS, Dr. Pai donated one GM Counter to the Dept. of Physics, Netaji Subhash University of Technology for their academic use. Dr. Bangotra, Local Convener of the Workshop, in his valedictory address, declared the Workshop a grand success. He mentioned that through this Workshop the participants could acquire the knowledge of Nuclear Sciences and Technology and their utilization for mankind. He urged the participants and faculties of the University to utilize the experience and knowledge gained in the Workshop in their teaching and research. Finally, Shri Ashwani Kumar, practical coordinator, proposed the vote of thanks, and the five days National Workshop was concluded with the National Anthem.

2.4. School / College Workshops

The BRNS-IANCAS One-day State Level workshop on “Nuclear & Radiochemistry for Society: Education, innovation & Practical Insights” was organized at Sainath Education Trust’s Rajiv Gandhi College of Arts, Commerce & Science, Vashi, Navi Mumbai, Maharashtra, India on 25th July, 2025. Dr. Sumana Paul, FCD, BARC was the coordinator of the workshop. Prof. B.S. Pandey, Principal, Rajiv Gandhi College of Arts, Commerce & Science was the Chairman and Prof. Priyanka More, Head, Department of Chemistry was the convener of the workshop. There were a total of 77 registered participants in the workshop which included faculty members and post graduate students from various colleges of Mumbai and Navi Mumbai listed below:

- St. Wilfred College, Panvel
- ICL Motilal Jhunjhunwala College, Mumbai
- Pillai College of Arts, Commerce & Science, Mumbai
- Mahatma Education Society's Pillai College, New Panvel
- Vikas College, Thane
- Patkar-Varde College, Mumbai
- B.K. Birla College, Thane

3. IANCAS Bulletins

During the reported period, IANCAS published **Four** Thematic Bulletins given below.

Volume	Title of the Bulletin	Guest Editor(s)
XXI (1)	An overview of advance nuclear structure materials	Dr. R.N. Singh Dr. V. Manikrishna Dr. Apu Sarkar
XXI (2)	Research Reactor of India (Part I): High Flux Research Reactor	Dr. Samiran Sen Gupta Dr. Tej Singh Shri Aniruddha Ghosh
XXI (3)	Corrosion Control and Mitigation Strategies in Nuclear Power Plants	Dr. Veena Subramanian Dr. Anupkumar B.
XXI (4)	An Overview of Fast Reactor Fuel Reprocessing	Dr. K. A. Venkatesan, Shri Geo Mathews, Shri J. Kodandaraman

4. IANCAS Annual Awards

IANCAS awards for the **Year 2024** were bestowed in the 17th DAE-BRNS symposium on Nuclear and Radiochemistry on **24th April 2025**. The details of the Awardees are as follows:

Dr. M.V. Ramaniah Memorial Award	:	Shri V. V. Ramakrishna, Ex-BARC, Mumbai
Dr. Tarun Datta Memorial Award	:	Dr. Sabyasachi Patra, Radiochemistry Division, BARC, Mumbai
Prof. H.J. Arnika Best PhD Thesis Award	:	Dr. Sushil Patil, HBNI Mumbai
Dr. K. S. Venkateswarlu Endowment Lecture Award	:	Dr. A. L. Rufus, BARCF, Kalpakkam

Dr. R. K. Sinha, Ex- chairman AEC and Secretary DAE, chief-guest of the session, presented the citation and medal to Shri V. V. Ramakrishna. Dr. P. K. Mohapatra, President IANCAS presented the citation and medal to other awardees. Shri V. V. Ramakrishna thanked IANCAS for the honor in his short award acceptance speech. Other awardees also thanked IANCAS for the honor, and presented a gist of their R&D contributions in the evening session.

5. IANCAS co-organized NUCAR-2025

The 17th DAE-BRNS Biennial Symposium on Nuclear and Radiochemistry (NUCAR-2025) was organized by RC&IG, BARC, in association with IANCAS at the DAE Convention Centre, Anushaktinagar, Mumbai during April 23–26, 2025. The symposium was inaugurated by Dr. R. Tewari, Director, Materials Group, BARC. Dr. Y. K. Bhardwaj, Associate Director, RC&I Group & Chairman, organizing committee, was present at the inauguration function. Over 300 delegates from academic institutions, research organizations, and industry participated in the symposium.

The technical program consists of 11 sessions included Invited Talks (IT), Invited Short Presentations (ISP), oral presentations, and poster sessions. Distinguished scientists from India and abroad delivered 16 ITs through which they presented their innovative research and ideas. In addition, 12 theme based ISP by specialists were also delivered.

IANCAS special session was organized on the second day of the symposium. Dr. R. K. Sinha, Former Chairman, AEC and secretary DAE, was the chief guest of the session. The special bulletin “Remembering Dr. M. V. Ramaniah A Doyen of Radiochemistry in India” was released by the chief guest. In addition to regular delegates of NUCAR, the session was also attended by Ex-BARC scientists who presented their memories about Dr. M. V. Ramaniah during the session. The citations and medals to the IANCAS awardees were given during the session by the chief guest and President IANCAS. IANCAS awardees presented their research work during the evening session on the second day of the symposium.

In the valedictory session of NUCAR-2025, IANCAS conferred 24 best paper presentation awards to the young researchers that comprised Rs. 2000/- cash and a certificate.

6. Annual Reports (2025-26) of IANCAS Regional Chapters

6.1. Activities of the Southern Region Chapter (SRC)

IANCAS-SRC at IGCAR, Kalpakkam conducted 7 “Nuclear and Radiochemistry Workshops” at Schools and Colleges in South India. IANCAS-SRC organized the Seaborg Memorial Lecture 2025 which was delivered by Dr. Sapna Nangia, Apollo Proton Cancer Centre, Chennai on the topic “ Democratizing Proton Therapy for Cancer Treatment: How and Why?

Following is the Executive Committee of the IANCAS Southern Chapter for 2025-2026.

No.	Name	Post	Affiliation
1.	Dr. K. Sundararajan	President	MC&MFCC, IGACR
2.	Dr. A. S. Suneesh	Secretary	MC&MFCC, IGACR
3.	Dr. N. Desigan	Treasurer	RPG, IGCAR
4.	Dr. G. V. S. Ashok Kumar	Member	MC&MFCC, IGACR
5.	Dr. Jammuravi	Member	RPG, IGCAR
6.	Smt. Susmita Dey	Member	RPG, IGCAR

6.2. Activities of the Northern Region Chapter (NRC)

IANCAS-NRC Conducted a Two Days National Workshop on “Radiochemistry and Applications of Radioisotopes” at School of Physical and Applied Sciences, Khalsa University, Amritsar during March 27-28, 2026.

Following is the Executive Committee of the IANCAS NRC for 2024-2027.

No.	Name	Post	Affiliation
1.	Dr. J.S.Gandhi	President	Khalsa College, Amritsar
2.	Dr. M.S. Batra	Vice-President	Khalsa College, Amritsar
3.	Dr. Taminder Singh	Secretary	Khalsa College, Amritsar
4.	Dr. Joga Singh	Joint Secretary	Khalsa College, Amritsar
5.	Dr. Vijay Kumar	Treasurer	Hindu College, Amritsar
6.	Dr. Gursharan Kaur	Member	Khalsa College, Amritsar
7.	Dr. B.S. Bajwa	Member	G.N.D.U., Amritsar
8.	Dr. Jasjit Randhawa	Member	Khalsa College, Amritsar
9.	Dr. Gurinder Singh	Member	Khalsa College, Amritsar
10.	Dr. Sameer Kalia	Member	D.A.V. College, Amritsar

6.3. Activities of the Tarapur Chapter

Two Thematic Lectures on NUCLEAR FUEL CYCLE were organized during 2025-2026.

i. Fast reactor Fuel: An Overview; by Dr. Amrit Prakash, Associate Director, NFG & Head RMD, BARC Mumbai on 12th November 2025.

ii. Bits, Bytes and Beyond: My professional journey through time; by Dr. Aniruddha Kumar, General Manager, FF, NRB, BARC Mumbai on 12th November 2025.

Following is the Executive Committee of the IANCAS Tarapur chapter for 2025-2026.

No.	Name	Post
1.	Shri R.B. Bhatt	President
2.	Dr. Vinit Kumar Mittal	Secretary
3.	Dr. Gitender Singh	Treasurer
4.	Dr. T.P. Valsala	Member
5.	Dr. Anoop Kelkar	Member
6.	Shri. A. Baburajan	Member
7.	Dr. N.S. Rathore	Member
8.	Shri. B. Swain	Member
9.	Dr. Ashish Pandey	Member
10.	Smt. Amrita Dhara	Member

6.4. Activities of the Eastern Region Chapter (ERC)

IANCAS-ERC Organized “TOP-DAE-IANCAS Theme Meeting: A National Seminar for Societal Applications” Science Outreach Programme at Vikram Dev University, Jeypore, Koraput, Odisha during April 18-19, 2025. The inauguration of the workshop was attended by Prof. Devi Prasad Misra, Vice Chancellor, VDU; Prof. K. K. Nanda, Director, IOP, Bhubaneswar & President IANCAS-ERC; Dr. R. Acharya, Head, Isotope and Radiation Application Division BARC Mumbai, Dr. S. N. Sarangi, Vice-President IANCAS-ERC, IOP Bhubaneswar. The technical talk was delivered by Professor K. K. Nanda, Dr. Anand Ballal, BARC Mumbai, Dr. R. Acharya, Dr. Sarangi, Dr. Mallick, and Dr. K. C. Patra during this two days programme. The fun science show and Radiation Detection & Measurements was demonstrated by Dr. B. Mallick, during the programme.

Following is the Executive Committee of the IANCAS ERC for 2025-2026.

No.	Name	Post
1.	Prof. K. K. Nanda	President
2.	Dr. S. N. Sarangi	Vice-President
3.	Dr. S. K. Biswal	Vice-President
4.	Dr. B. Mallick	Secretary
5.	Dr. A. N. Acharya	Joint Secretary
6.	Mr. B. Behera	Treasurer

ACKNOWLEDGEMENTS:

IANCAS is indebted to Dr. A. K. Mohanty, Chairman, AEC & Secretary, DAE, Government of India and Shri Vivek Bhasin, Director, BARC for their continuous support and encouragement. Thanks to BRNS for the financial support to sustain the activities of the Association. IANCAS thanks its Patron Dr. Anil Kakodkar, former Chairman, AEC & Secretary DAE for his support and encouragement. IANCAS acknowledges the dedicated efforts of its Workshop teams, resource persons, guest editors and contributors for thematic bulletins. We would like to thank IANCAS regional chapters for their contributions towards the outreach programs across the country. IANCAS also thanks office staff as well as the supporting staff of Radiochemistry & Isotope Group for their help and support.



(S.K. Sharma)
General Secretary