



DEPARTMENT OF ATOMIC ENERGY – BOARD OF RESEARCH IN NUCLEAR SCIENCES (DAE-BRNS)
IANCAS NATIONAL WORKSHOP
on
RADIOCHEMISTRY AND APPLICATIONS OF RADIOISOTOPES
October 17-18, 2026



Organized by
Department of Physics, Akal University Talwandi Sabo
in Collaboration with

Northern Chapter (Khalsa College Amritsar) of Indian Association of Nuclear Chemists and Allied Scientists (IANCAS)
C/o Radiochemistry Division BARC, Trombay, Mumbai -400085

About the Akal University

Established under Punjab Government Act No. 25 (2015) and recognized under Section 2(f) of the UGC Act (1956), Akal University aims to promote permanent peace through value-based scientific education and spiritual rejuvenation. Founded under the leadership of H.E. (Late) Padma Shri Baba Iqbal Singh Ji with the blessings of Sant Baba Attar Singh Ji Maharaj, the University fulfills a vision prophesied by Guru Gobind Singh Ji. Akal University is committed to high-quality teaching, learning, and research, offering UG, PG, and Ph.D. programs in Mathematics, Physics, Chemistry, Computer Science and Engineering, Computer Science, Education, Management, Botany, Zoology, English, Punjabi, Psychology, Commerce, Economics, Social Sciences, and Sri Guru Granth Sahib Studies. With a strong commitment to a drug-free and disciplined environment, the University provides a peaceful campus equipped with modern facilities for both teaching and research.

About Department of Physics

The Department of Physics offers NEP 2020-aligned B.Sc. and M.Sc. degrees alongside a Ph.D. program covering diverse experimental and theoretical disciplines. Guided by a dedicated faculty, research spans areas from Theoretical Nuclear Physics and Quantum Machine Learning to Functional Nanomaterials and Condensed Matter Physics. The department remains committed to delivering world-class education and advancing cutting-edge physical sciences

About the Workshop

The Indian Association of Nuclear Chemists and Allied Scientists (IANCAS) was founded in 1981 with an objective to popularize the beneficial aspects of nuclear sciences & applications of radioisotopes/radiations in science, technology, food, agriculture & health-care among the academic community. As a part of outreach program, IANCAS with the support from DAE - BRNS, conducts national workshops on "Radiochemistry and Applications of Radioisotopes" at various Universities. These workshops play paramount role in motivating the students and young researchers to accept the subject of nuclear and radiochemistry. Eminent scientists and specialists on topics related to nuclear reactor, nuclear physics, nuclear analytical techniques, production and application of radioisotopes, nuclear safety aspects and health and safety aspects will be the resource persons for the workshop. The lectures will be supplemented by hands-on laboratory experiments for the benefit of participants. This intensive hands-on workshop is designed to equip participants with essential skills in radiation measurement and analytical nuclear techniques through paired theoretical lectures and experimental laboratory sessions.

Scientific Programme

Scientific topics to be covered

- Introduction to Radioactivity and Decay
- Interaction of Radiation with Matter
- Solid- State Nuclear Track Detectors
- Radiation detection and Measurements

Hands on Experiments

- GM Counter – A Gas Filled Detector: Plateau, Dead Time
- Measurement of environmental Radioactivity
- Gamma-ray Spectrometry using NaI(Tl) Detector
- Shielding Experiment using NaI(Tl) Detector

Call for Participation

- Applications are invited from B.Sc/M.Sc students, research scholars/post-docs, faculties and scientists, working in the relevant areas like Physics, Chemistry, Health and Pharmaceutical Sciences and Nuclear Sciences.
- Maximum number of participants: 50 (First come first serve basis).
- Participation Charges details: Research Scholars/Students: ₹ 250/-
Faculties/Scientists/Post-doc: ₹ 500/-
(For accommodation, separate charges will be applicable.)
- Last date for registration: 15th October, 2026

Chief Patron

H.E. Baba (Dr.) Davinder Singh Ji
Chancellor, Akal University

Patron

Prof. Gurmail Singh
Vice-Chancellor, Akal University

IANCAS Office Bearers

Dr. P.K. Mohapatra, President IANCAS
Dr. S.C. Parida, Vice President IANCAS
Dr. S.K.Sharma, Secretary INCAS

IANCAS (NC) Office Bearers

Prof. J.S. Gandhi, President
Dr. Taminder Singh, Secretary
Dr. Vijay Kumar, Finance Secretary

Workshop Co-ordinators

Dr. Taminder Singh, Secretary IANCAS (N.C)
Dr. Sarbjit Singh, Ex-Scientific Officer, BARC, Mumbai
Dr. P.C. Kalsi, Ex-Scientific Officer, BARC, Mumbai

Local Advisory Committee

Maj. Gen. (Dr.) G. S. Lamba, Dean Academic Affairs
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Dr. Bubun Banerjee, Additional Dean Research
Dr. Janpreet Singh, Dean Student Welfare

Convener

Prof. Sukhjeet Singh Dhindsa
Dept. of Physics, AU

Co-Convener

Dr. Sushil Kumar
Dept. of Physics, AU

Organizing Committee

Dr. Ramandeep Kaur	Dr. S. K. Singh	Dr. Jaspal Singh
Dr. Manoj Kumar	Dr. Iqbal Singh	Dr. Parminder Kaur
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**Register
Now**



Venue: Department of Physics, Akal University