



IANCAS First School on Nuclear and Radiochemistry (SONAR-1)



**DAE Convention Centre,
Anushaktinagar, Mumbai - 400094**

29-30 April, 2023

National Advisory Committee

A.K. Mohanty, Director, BARC
P.K. Pujari, President, IANCAS
S. Kannan, Director, RC&IG, BARC
P.K. Mohapatra, RCD, BARC
Y.K. Bhardwaj, RTDD, BARC
Umesh Kumar, ITIS, BARC
M.K. Saxena, RACD, BARC
H.J. Pant, IRAD, BARC
S.C. Parida, PDD, BARC
S. Chaudhury, FCD, BARC
Tapas Das, RPhD, BARC

Technical Committee

Rajesh V Pai, FCD, BARC, **Convenor**
Pranaw Kumar, FCD, BARC, **Secretary**
P.G. Jaison, FCD, BARC
Kathi Sudarshan, RCD, BARC
Rahul Tripathi, RCD, BARC
Sudipta Chakraborty, RPhD, BARC
Archana Mukherjee, RPhD, BARC
K.A. Dubey, RTDD, BARC
Arunasis Bhattacharyya, RCD, BARC
Aishwarya Kar, RACD
S.A. Ansari, RCD, BARC

Coordinators

Rajesh V. Pai, FCD, BARC,
P.S. Ramanjaneyulu, RACD, BARC
Pranaw Kumar, FCD, BARC
Bal Govind Vats, FCD, BARC
Pratik Das, PDD, BARC

Radiochemistry and Isotope group, Bhabha Atomic Research Centre (BARC) under the aegis of Indian Association of Nuclear Chemists and Allied Scientists (IANCAS) is organizing the First School on Nuclear and Radiochemistry (SONAR-1) during 29-30 April, 2023 at DAE Convention Centre, Anushaktinagar, Mumbai - 400 094.

Nuclear and Radiochemistry plays a pivotal role in every branch of science and technology. Various radio analytical techniques are routinely applied by the researchers for obtaining fast and reliable data of samples in different matrices. The school on Nuclear and Radiochemistry will serve as a platform for updating and periodic training of nuclear scientists working in educational and research institutes including young faculty academicians who are aspiring to work in the field of Nuclear and Radiochemistry. The school consists of lectures in the morning session and technical discussions and hands on experience in relevant areas through demonstration experiments in the afternoon session. The target participants are young academicians, research scholars, industrial personnel and budding scientists from research centers. A total of 50 participants will be selected for this School. The different topics to be covered during the School are:

- Introduction to Basic Concepts of Radioactivity and Nuclear Chemistry
- Interaction of Radiation with Matter
- Radiation Detection and Measurements
- Separation Techniques, Statistics, Speciation
- Application of Radioanalytical Techniques
- Radioisotope Production & its Applications in Health Care
- Health Physics and Safety Aspects

In addition to this, some general lectures such as Industrial Applications of Radioisotopes, Atomic Energy Programme and Nuclear Reactors will also be covered.

Participants will be getting exposure on hands on training with nuclear detectors and other experiments such as:

- a. GM Counter – a gas filled detector : Plateau, Statistics and Dead Time and Attenuation
- b. Gamma-ray Spectrometry using NaI(Tl) detector and Shielding experiment
- c. Radio-immuno Assay / ^{99}Mo - $^{99\text{m}}\text{Tc}$ Radionuclide Generator
- d. Separation of U and Th

The organizers will provide boarding and lodging during the School on Nuclear and Radiochemistry. Accommodation on twin sharing basis for outstation (Non DAE) participants will be provided in guest houses / Hostels. After completion of school, a participation certificate will be provided to all participants.

The interested participants should fill up the registration form which is uploaded along with this announcement in <https://www.iancas.org.in> and scanned copy of the registration form duly filled should be sent via email to SONAR secretariat on or before April 5, 2023. Non registered participants will not be eligible to attend the School.

Last date for receiving registration form: 5th April 2023

Contact Details

Dr. Rajesh V Pai
Fuel Chemistry Division
Bhabha Atomic Research Centre
Trombay, Mumbai -400085
rajeshvp@barc.gov.in

Dr. Pranaw Kumar
Fuel Chemistry Division
Bhabha Atomic Research Centre
Trombay, Mumbai -400085
pranaw@barc.gov.in

Fuel Chemistry Division, Bhabha Atomic Research Centre, Trombay, Mumbai – 400085

Fax: + 91-22-25505345 • Tel: 91-22-25596183 • E-mail: fcdo@barc.gov.in

web site: <https://www.iancas.org.in>

**IANCAS First School On Nuclear And Radiochemistry
(SONAR-1)
DAE Convention Centre, Anushaktinagar, Mumbai – 400094
April 29-30, 2023**

REGISTRATION FORM for Indian National

Name:	<input type="text"/>		
Designation:	<input type="text"/>		
Institution:	<input type="text"/>		
Address for Correspondence:	<input type="text"/>		
	<input type="text"/>		
	<input type="text"/>		
Telephone: (O)	<input type="text"/>	(R)	<input type="text"/>
Email:	<input type="text"/>	Fax:	<input type="text"/>

Whether participating in NUCAR-2023 (Yes / No)

IANCAS Life member (Yes / No)

To

Signature

Secretary, SONAR-1,
Fuel Chemistry Division
Bhabha Atomic Research Centre
Trombay, Mumbai- 40008, India
Tel. +91-22- -25596183
Fax: +91-22- 25505345
Email: pranaw@barc.gov.in

Note: Scanned copy of Registration form duly filled should be sent via email to the SONAR-1 Secretariat on or before April 5, 2023.