ABOUT THE INSTITUTE

The National Institute of Technology Rourkela is one of the premier national level institutions for technical education in the country and is funded by the Government of India. It established in 15 August 1961. Every faculty, staff and student of NIT Rourkela is passionately committed to the mission of making India a world leader in technology and science, and nurtures this commitment with honesty, hard work and team spirit. The main objective of the Institute is to produce quality Engineers and Scientists in Graduate and Post-Graduate levels in various branches of Engineering and Science. The Institute is managed by the Board of Governors of National Institute of Technology (Rourkela) Society and vested with a significant degree of administrative and financial autonomy.

DEPARTMENT OF CHEMISTRY

Chemistry is a fundamental branch of science devoted to the study of the nature, properties, composition and interaction of matter. Chemistry covers broadly three branches, viz. organic, inorganic and physical chemistry. However, today's scientific world demands scientists to think across disciplines; hence there are numerous sub-branches of chemistry such as environmental, analytical, industrial, green chemistry, biochemistry as well as nano chemistry, bioinorganic, biophysical chemistry, catalysis and so on. With 22 faculties from all major branches of Chemistry and sophisticated techniques and facilities, the Dept. of Chemistry, NITR is becoming one of the most visible and vibrant Departments among Indian Universities and Institutes.

The Department of Chemistry at NIT Rourkela, over a period of time, has acquired many advanced analytical equipment such as Single Crystal XRD, BET surface area, CHNS analyser, HRMS, NMR, FTIR, UV-Vis, GC, HPLC, Potentiostat/galvanostat, CD, Fluorescence spectrometer etc.

IANCAS OFFICE BEARERS

Dr. P.K. Pujari, President, IANCAS & Director, RC&I Group, BARC, Dr. S. Kannan, Vice President (HQ), IANCAS & Chairman, IANCAS Workshops & Associate Director, RC&I Group, BARC, Dr. G A Ramarao, Vice President (OS), IANCAS & Principal, School of Science, GITAM University, Hyderabad, Dr. Seraj A Ansari, Secretary, IANCAS & Scientific Officer, RCD, BARC, Dr. Madhab Malia, Treasurer, IANCAS Scientific Officer, RPhD, BARC

Workshop Coordinator

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LOCAL ORGANIZING COMMITTEE

PATRON

Prof. K. Umamaheshwar Rao Director, NIT, Rourkela

CHAIRMAN

Prof. Priyabrat DashHead, Dept. of Chemistry, NIT Rourklea

CONVENER

Prof. Rupam Dinda, NIT, Rourkela

CO-CONVENERS

Prof. Sabita Patel & Prof. Saroj L. Samal NIT, Rourkela

FOR ACCOMMODATION, CONTACT Prof. Sabita Patel Mobile No. 9861414910 Email: sabitap@nitrkl.ac.in

103rd BRNS-IANCAS National

Workshop on

"Nuclear Science and Applications of Radioisotopes" (NSAR-2022)

(12-16th April, 2022)

Prof. Dr. Rupam Dinda (Convener)

Prof. Sabita Patel Prof. Saroj L. Samal (Co-conveners)







Department of Chemistry,
National Institute of
Technology, Rourkela 769008, Odisha

http://www.nitrkl.ac.in

ABOUT IANCAS 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 energy and applications of radioisotopes in science, technology, agriculture and health-care among the academic community. This workshop is partly sponsored by Board of Research in Nuclear Sciences (BRNS), DAE and it will provide a forum for mutual interaction among faculty members and researchers from various academic institutions and research organizations. Experts in topics related to nuclear chemistry, nuclear physics, nuclear reactor, production and application of radioisotopes, nuclear analytical techniques and Health and safety aspects will be the resource persons of the Workshop. The lectures will be supplemented by laboratory experiments for the benefits of the participants. In addition, special session will also be held on research funding opportunities in basic and nuclear sciences and Career opportunity in Science/Nuclear Sciences for research scholars and Masters students. In the end, a Quiz program will be conducted based on lectures/experiments.

SCIENTIFIC PROGRAMME

Keynote Talk: Atomic Energy Program of India Lectures

- Introduction to Nuclear Sciences
- Interaction of Radiation with Matter & Radiation Detection and Measurements
- Nuclear Reactors and Accelerators & Nuclear & Radioanalytical Techniques and Actinides
- Radioisotope Production and Applications of Radioisotope in Health Care, agriculture, food and industry
- Few lectures will be on VC mode by the experts

EXPERIMENTAL WORK

- GM Counter: plateau, dead time, statistics
- Gamma-ray spectrometry: NaI (TI) detector
- Determination of half-life of a radioisotope
- Radiopharmaceutical Experiment

Call for Participants

Proper Covid-19 protocol will be followed in the Workshop. Applications are invited in the enclosed "Participation form" from mainly faculty members and researchers/research scholars in the relevant areas like Nuclear Science and Technology, Chemistry, Physics, Bioscience/ Biotechnology, Health Science, Pharmaceutical & Env. Chemistry etc. With the permission of workshop coordinator, BARC and local organizers, participation through virtual mode may be allowed to some of the registered participants who are unable to join physically due to COVID restriction.

Participation

Enclosed Participation form or its photocopy duly filled and signed may be sent to the Conveners (nsar.nitrkl2022@gmail.com) on or before 25th March 2022. Registration fee for the workshop is Rs.500 for Scientist/Faculty and Rs.300 for the students. Accommodation will be provided either in the NITR Guest house or in the Hostels on payment and first come first serve basis. Accommodation in Guest House for single occupancy (5 Nights): Rs.5000; Accommodation in Guest House for double occupancy (5 Nights): Rs.7500 (two persons); Accommodation fees in Hostel (5 Nights): Rs.1500; Payment for fees should be made by online transfer payable at SBI, NIT Campus, Rourkela -769008 in the name of "CONFERENCE NIT ROURKELA", A/C No. 36734418111, IFSC code: SBIN0002109.



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Registration	Form
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1.Name:
2. Occupation/Designation:
3. Organization: & Address
Mob. (W):
E-mail:
4. Accommodation Required: YES/NO If yes, please specify Guest house or hostel
5. Reg. fee payment details:
6. Gender: Male/Female Place:

Date:

Signature of Applicant