

How to Apply

University/college teachers, students at undergraduate, postgraduate and research level are eligible to apply for the workshop. One can register for the workshop by clicking the registration link on or before **April 17, 2024**.

Link for Registration: <https://forms.gle/4oRSSR1xcvZzsxk66>



- No registration fee will be charged for the programme. No TA/DA will be paid for attending the programme.
- Participants are encouraged to arrange their own accommodation. For outstation participants, limited accommodation will be arranged on first-come-first serve basis in the university guesthouse/hostels. Participants requiring accommodation need to mention it while filling up the registration form.
- Working meals will be provided during the workshop.

Important Dates:

Last date of registration: **April 17, 2024**
Announcement of selected list of participants: **April 21, 2024**
Intimation regarding accommodation: **April 21, 2024**
Workshop dates: **April 24-26, 2024**

Venue:

Mini Auditorium, RGU

Convener:

Prof. Suhrit Ghosh, FASc

School of Applied and Interdisciplinary Sciences
Indian Association for the Cultivation of Science, Kolkata

Coordinator:

Dr. Lakhinath Saikia

Assistant Professor
Department of Chemistry
Rajiv Gandhi University
Rono Hills, Doimukh 791 112
Arunachal Pradesh

Email: lakhinath.saikia@rgu.ac.in

Mobile: +91 97741 49510

+91 7005065649

Science Academies' Lecture Workshop on

Contemporary Topics in Chemical Sciences

April 24-26, 2024



Organised by
Department of Chemistry
Rajiv Gandhi University
Rono Hills, Doimukh
Arunachal Pradesh 791 112



Indian Academy of
Sciences, Bengaluru



Indian National Science
Academy, New Delhi



The National Academy of
Sciences India, Allahabad

Sponsored by

Joint Science Education Panel of the Science Academies

About the Lecture Workshop

Since its inception, the Department of Chemistry has been organizing various programmes like Science Academies' Lecture Workshop, Salters' Chemistry Camp, laboratory visits of school students etc. to attract youth of the state to chemistry teaching and learning. The 3-Day Science Academies' Lecture Workshop organized by the Department of Chemistry, RGU in association with the Joint Science Education Panel of the three science academies - Indian Academy of Sciences (IAsC), Bengaluru; Indian National Science Academy (INSA), New Delhi and The National Academy of Sciences India (NASI), Allahabad during **April 24-26, 2024** will be the third one in its series. The current workshop aims to provide a platform to UG and PG students, research scholars and young college/university faculties of RGU and nearby Institutes to interact with some of the most prominent academicians/scientists from leading institutions in India, who are actively involved in teaching and research in chemical sciences and to have chemistry learning experiences from the stalwarts of chemistry teaching on contemporary topics in chemical sciences through theory classes and practical demonstration.

The Lecture Workshop will feature thematically arranged invited lectures highlighting basics in the following areas:

- **Organic Chemistry**
- **Material Chemistry**
- **Colloidal Chemistry**
- **Physical Chemistry**
- **Exciting Experiments**
- **Chemical Biology**
- **Macromolecular Chemistry**

About the University

Rajiv Gandhi University, recently accredited with NAAC A grade, is the premier Institution for higher education in the state of Arunachal Pradesh. It is located atop Rono Hills on a picturesque table top hill overlooking the river Dikrong. The University is well connected to Guwahati via road, train and air. It is about 6 km away from the national highway 415 which connects Itanagar, the state capital with Assam and other parts of India. Daily train services are available from Guwahati to Naharlagun railway station, which is 10 km away from the University campus. The nearest airport in the state is Donyi Polo Airport, Itanagar, 50 km away from the University. Flights from Kolkata, Delhi, Mumbai and other cities of the country regularly fly to Donyi Polo airport, Itanagar. The climate in Rono Hills during April remain quite pleasant with temperature ranging from 20°C to 30°C.

About the Department of Chemistry

The Department of Chemistry was established in the year 2011. It marked a humble beginning to impart quality teaching in chemistry and research in frontier areas of chemistry in this region of India. The Department offers a Two-year M.Sc. programme with specialization in all major areas of chemistry to provide students with the necessary theoretical background and introduction to laboratory methods. Presently, the total intake capacity in M.Sc. programme is 31. Since 2014, the Department is also offering Ph.D. programme in chemistry.

In addition to providing a rigorous academic curriculum and a vibrant atmosphere for learning basic and applied chemistry, we aim to produce high-quality graduates who can prove themselves in addressing the challenges in chemistry through research and innovation. Department is striving to mark its footprint in the diverse areas of modern chemical research via its well-trained faculties. Various research thrust areas of the Department include nanostructured materials, coordination and hybrid inorganic-organic materials, natural products and medicinal chemistry, green and sustainable chemistry, organic synthesis, catalysis and mechanisms. Since 2013, faculty members have been able to receive sponsored research grants from various funding agencies – DST-SERB, DBT, CSIR, UGC and UGC-DAE CSR etc.

Speakers

- **Prof. Pushpendu K Das**
Department of Inorganic and Physical Chemistry
Indian Institute of Science, Bangalore
- **Prof. Uday Maitra** Department of Organic Chemistry
Indian Institute of Science, Bangalore
- **Prof. Suhrit Ghosh**
School of Applied and Interdisciplinary Sciences
Indian Association for the Cultivation of Science, Kolkata
- **Prof. Somobrata Acharya**
School of Applied and Interdisciplinary Sciences
Indian Association for the Cultivation of Science, Kolkata
- **Prof. Ruchi Anand**
Department of Chemistry
Indian Institute of Technology Bombay, Mumbai
- **Dr. Anindita Das**
School of Applied and Interdisciplinary Sciences
Indian Association for the Cultivation of Science, Kolkata

Tentative Program
Science Academies' Lecture Workshop
On
"Contemporary Topics in Chemical Sciences"
April 24-26, 2024

Day	Time	Event
24.04.24	8.45 am - 9.15 am	Registration
	9.15 am -10.15 am	Inaugural Session
	10.15 am -10.30 am	Tea break
	10.30 am -11.45 am	U. Maitra: "Molecules that seem to 'defy' rules"
	11.45 am - 11.55 am	Break
	11.55 am - 1.10 pm	S. Acharya: "Basics of nanomaterials synthesis and tools for characterization"
	1.10 pm -2.30 pm	Lunch Break
	2.30 pm -3.45pm	R. Anand: "Understanding Enzymes their journey from laboratory to Devices"
	3.45 pm - 4.00 pm	Tea Break
	4.00 pm - 5.15 pm	A. Das: "Biopolymers"
25.4.24	10.00 am -11.15 am	P. K. Das: "Chemical Reaction Rate and Rate Theories and their applications in understanding chemical reaction mechanisms-Part I"
	11.15 am -11.30 am	Tea Break
	11.30 am - 12.45 pm	A. Das: "Introduction to Supramolecular Polymers"
	12.45 pm - 2.00 pm	Lunch Break
	2.00 pm -3.15 pm	R. Anand: "X-ray crystallography photography at the atomic level"
	3.15 pm -3.30 pm	Tea Break
	3.30 pm - 4.45 pm	S. Ghosh: "Amphiphiles"
26.4.24	10.00 am -11.15 am	S. Acharya: "Use of air-water interface for molecular assemblies"
	11.15 am -11.30 am	Tea Break
	11.30 am - 12.45 pm	P. K. Das: "Chemical Reaction Rate and Rate Theories and their applications in understanding chemical reaction mechanisms-Part 2"
	12.45 pm - 2.00 pm	Lunch Break
	2.00 pm - 3.15 pm	S. Ghosh: "Antimicrobial Materials"
	3.15 pm - 3.30 pm	Tea Break
	3.30 pm - 5.00 pm	U. Maitra: "Learning Chemistry from Simple Experiments"
	5.00 pm - 5.15 pm	Closing remarks