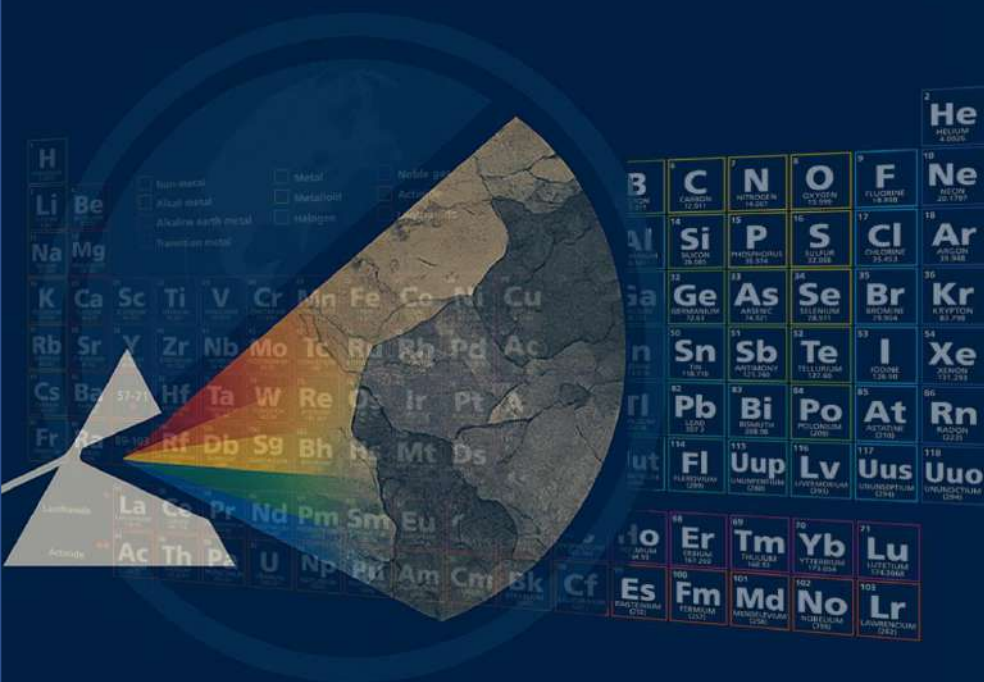


Capacity Building Workshop on Spectrometry Methods for Geochemical Research

Exploring advanced analytical techniques for elemental and isotopic analysis

November 3-7, 2025

Birbal Sahni Institute of Palaeosciences, Lucknow



SPONSORS

अनुसंधान नेशनल रिसर्च फाउंडेशन

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About BSIP, Lucknow

Birbal Sahni Institute of Palaeosciences, Lucknow is an autonomous institute under the Department of Sciences and Technology, Government of India, established in 1946 by Prof. Birbal Sahni, FRS, to advance palaeobotanical research in India. The institute expanded its mandate in 2015 to geology and other allied sciences to adopt a comprehensive approach to Palaeosciences research. BSIP scientists work in diverse aspects of Palaeosciences covering early earth processes (Precambrian) to contemporary geological processes (including the Anthropocene). The BSIP scientists use conventional biotic, abiotic (geochemical, stable and radiogenic isotope) proxies to understand early earth, ocean-atmosphere-life evolution through geological time, global climate changes, ecology and environment. The institute boasts state-of-the-art facility, including ICP-MS, ICP-OES, IRMS, GC-MS, XRD, XRF, FTIR, TL/OSL, FE-SEM, CLSM and Raman Spectrometer, and other specialised laboratories (radiocarbon geochronology, palaeomagnetic, vertebrate palaeontology, clumped isotopes, organic geochemistry, dendrochronology and ancient DNA). Additionally, BSIP actively promotes geoheritage and geotourism through outreach activities.

About Geochemistry Group

Geochemistry group forms an integral part of the BSIP research initiatives. Established in 2014, the unit has achieved substantial growth, both infrastructure and capabilities, with the acquisition of advanced analytical instruments such as ICP-MS, ICP-OES, IRMS, GC-MS, XRD, XRF, FTIR, TL/OSL, Laser Particle Size Analyser, UV-Vis Spectrometer, Nutrient Analyser, etc., The group is studying the earth surface processes through geological time that drives the biological and geological evolution of the Earth using elemental and isotope geochemistry. The geochemistry unit is functioning as a core facility, it offers a comprehensive analytical services and expert guidance to researchers, academicians, government entities, and industrial clients on fee-for-service basis.

About Workshop

The **Capacity-building workshop on Spectrometry Methods for Geochemical Research** is designed to provide field and laboratory training to the young researchers in geochemical research. The programme focusses on developing analytical skills in geochemistry and preparing students for future research in geochemistry. The program will include theory lectures by experts in the field, field visits to sample collection, and sample processing for measurement of various geochemical parameters. The program is designed to provide theoretical background, hands-on experience, and data processing related to analytical techniques. The spectrometric techniques such as X-ray Fluorescence, X-ray Diffractometer, Inductively Coupled Plasma based Mass Spectrometer (ICP-MS) and Optical Emission Spectrometer (ICP-OES) and Isotope Ratio Mass Spectrometer (IRMS) will be covered during the workshop. Participants shall perform sample preparation and interpretation tasks in groups under the expert mentorship, and present their results on the last day of the workshop.

Necessary details on the workshop are provided in the table below:

Participants	PhD and M.Sc. Students
Workshop Duration	November 3-7, 2025
Participant limit	30
Registration Deadline	October 06, 2025
Registration fee	Rs.3,500/- for PhD; Rs.2,000/- for M.Sc. Students
Local Hospitality	Shared accommodation, and lunch will be provided for participants.
Teaching Faculty	Scientists/Experts from BSIP and other institutes

Registration Link

[Application Form](#)



Organising Committee

Chief Patron:	Prof. H.B. Srivastava, Chairman Governing Body
Patrons:	Prof. Subir Sarkar, Chairman, Research Advisory Council Prof. Mahesh G. Thakkar, Director, BSIP
Scientific Advisory Committee:	Prof. Mahesh G. Thakkar, Director Dr. Anupam Sharma, Scientist G Dr. Srinivas Bikkina, Scientist F Dr. Pawan Govil, Scientist E Dr. Kamlesh Kumar, Scientist E Dr. S. N. Ali, Scientist E Dr. Shailesh Agarwal, Scientist E Dr. P. Morthekai, Scientist E Dr. Mahboob Alam, Asst. Prof., Kyoto University, Japan
Convenor	Dr. Gurumurthy G.P., Scientist D
Co-Convenor	Dr. Anupam Sharma, Scientist G
Working Organising Committee	Dr. Manoj M.C. Scientist D Dr. R.P. Mathews, Scientist D Dr. Prasanna K, Scientist D Dr. Niteshkumar Khonde, Scientist D Dr. Trina Bose, Scientist C Dr. Anurag Kumar, Scientist C Mr. SKS Gahlaud, Scientist-C

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