



National Workshop

on

Isotopes in Earth, Ocean & Atmospheric Sciences

at

CSIR-National Institute of Oceanography (NIO), Goa

February, 18-20, 2019

Organized jointly by IUAC, Delhi & NIO, Goa

Inter-University Accelerator Centre (IUAC) is an autonomous institute of University Grants Commission (UGC), with the objective to provide front ranking ion accelerator based research facilities for internationally competitive research within the country. The Centre has established sophisticated accelerator systems and various experimental facilities for research in the areas of Nuclear Physics, Materials Science, Atomic Physics, Radiation Biology and Accelerator Mass Spectrometry (AMS). AMS facilities for ^{14}C , ^{10}Be and ^{26}Al radionuclides are regularly being used for basic/applied research in Earth system sciences and other relevant areas.

IUAC is in the process of establishing a national facility for Geochronology funded by Ministry of Earth Sciences, Govt. of India with an objective to develop an internationally competitive facility for the measurement of quality isotopic data for geochronological analysis and relevant characterization. Under this program, IUAC has recently installed HR-ICPMS coupled with femto-second laser ablation system, Q-ICPMS, XRD, XRF and FE-SEM with CL detection.

In future various other sophisticated equipment such as *AMS system for heavy and medium mass radionuclides*, *High Resolution Secondary Ion Mass Spectrometry (HR-SIMS)*, *Optical dating systems*, *Thermal ionization mass spectrometry (TIMS)*, *Multi Collector Inductively Coupled Mass Spectrometry (MC-ICPMS)* as well as *sample processing laboratories and characterization facilities* etc. are planned.

IUAC in collaboration with NIO, is planning to host a national workshop during February, 18-20, 2019 at NIO Goa, with the objectives **a)** to make aware the Indian science community about the existing and upcoming chronological and isotopic measurement facilities at IUAC. **b)** To make the younger faculties, early career researchers (ECR) and PhD students aware about the science that can be persuaded using existing and upcoming facilities at IUAC. This workshop will provide a platform to researchers working in diverse fields to discuss, identify and address various scientific curiosities related to the use of isotopes in Earth, Ocean & Atmospheric Sciences. Invited talks by eminent speakers, tutorials and poster session are planned in the workshop. Applicants are advised to send their brief CV and write up (300 words on their research interest and motivation) in a single PDF file through email [<geochronology.iuac@gmail.com>](mailto:geochronology.iuac@gmail.com). Limited travel support is available for a few participants from universities. Interest for participation in the workshop should be sent by 20th January, 2019.

Organizing committee:

Prof. A.C. Pandey, IUAC, New Delhi
Dr. S.Chopra, IUAC, New Delhi
Mr. S.Ojha, IUAC New Delhi
Dr. Pankaj Kumar, IUAC New Delhi

Prof. Sunil Singh, NIO Goa
Dr. Rajeev Saraswat, NIO Goa
Dr. Sushant Naik, NIO Goa

For further information & participation, kindly contact:

[<geochronology.iuac@gmail.com>](mailto:geochronology.iuac@gmail.com)

Inter-University Accelerator Centre, Aruna Asaf Ali Marg, P.O. Box 10502, New Delhi-110067

Phone: +91-11-24126018, Fax: +91-11-24126041, Website: www.iuac.res.in

CSIR-National Institute of Oceanography, Dona Paula- Goa 403004, +91-832-2450450, Fax: +91-832-2450602, www.nio.org