



User interaction workshop  
On

# *Accelerator Mass Spectrometry dating*

at

**Inter-University Accelerator Centre, New Delhi**

April 21-23, 2016

Accelerator Mass Spectrometry (AMS) is a highly sensitive technique for long lived isotope detection and has numerous dating and tracing applications in geology, oceanography, glaciology, archeology, environmental, biological and physical sciences. Inter-University Accelerator Centre (IUAC) is at the fore front in the country to develop AMS program beginning with  $^{10}\text{Be}$  and  $^{26}\text{Al}$  radioisotopes by upgrading its existing 15UD Pelletron accelerator. With the support from Ministry of Earth Sciences (MoES), Govt. of India, IUAC is in the process of establishing a national centre for Geochronology. As a part of this initiative, a new AMS facility for  $^{14}\text{C}$  based on a dedicated 500kV tandem accelerator and graphitization laboratory has been established and is fully functional.  $^{14}\text{C}$  ( $T_{1/2} = 5730$  years) is best suitable isotope to characterize the development of human civilization, Quaternary studies, biomedicine, drug development etc, and is the most studied radioisotope worldwide using AMS.

IUAC will be hosting a workshop during April 21-23, 2016, on chronometric aspects of AMS with lectures and discussion on basic principles, sample collection, sample processing including chemical pretreatment methods, measurement protocols, data analysis protocols and softwares including geometry and other corrections and their varied applications in earth and planetary sciences. The faculty will comprise international experts. Researchers intending to use IUAC-AMS facility are invited to participate in the workshop. Applicants are advised to send their brief CV and write up (300 words on the intended use of AMS data) as single PDF file through email <[ams.iuacd@gmail.com](mailto:ams.iuacd@gmail.com)>. Limited travel support is available for a few participants from universities. Interest for participation in the workshop should be sent before 15<sup>th</sup> March, 2016.

#### **National Advisory Committee**

Dr D Kanjilal, IUAC, New Delhi  
Prof. G. S. Roonwal, IUAC, New Delhi  
Prof. A. K. Singhvi, PRL, Ahmedabad  
Prof. Y. J. Bhaskar Rao, NGRI, Hyderabad  
Prof. S. Balakrishnan, Pondicherry University  
Prof. J P Shrivastva, Delhi University  
Prof. Javed N Malik, IIT, Kanpur

#### **Local organizing Committee**

Dr. S Chopra  
Dr. Pankaj Kumar  
Dr. Sudesh Yadav, SES, JNU  
Mr Rajan Joshi  
Mr S Gargari  
Mr S Ojha  
Mr Rajveer Sharma

**For further informations & participation, kindly contact:**

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