Geosciences Division
Physical Research Laboratory

Tuesday Seminar

Application of Accelerator Mass Spectrometry (AMS) in study of Cosmogenic Isotopes

Abstract

Accelerator Mass Spectrometry (AMS) is an advanced ultrasensitive mass spectrometry technique for measurement of cosmogenic radionuclides in extremely small quantity of samples with a much reduced analysis time. The advent of AMS not only facilitated orders of magnitude lower requirement of sample quantity and analysis time, but also opened new avenues of research in earth sciences. The low energy (1 MeV) Accelerator Mass Spectrometer (AMS) being procured by PRL is a universal compact AMS which can effectively measure several cosmogenic radionuclides that include ^{14}C, ^{10}Be and ^{26}Al. AMS has found extended application in archaeology, oceanography, hydrology, geology, biomedical research and paleoclimatology. AMS would not only provide new opportunities in application of cosmogenic isotopes in earth, atmosphere and planetary sciences, but would also serve as a long lasting requirement for a geochronological facility. In this talk, some applications of AMS in earth sciences would be discussed.

Speaker: Dr. Ravi Bhushan
GSDN, PRL

Date	Time	Venue
26-May-2015	16:00 hrs	Ground Floor Lecture Hall

All are invited to attend and participate in discussion

Tea at 15:30 hrs

Neeraj Rastogi, Seminar Secretary, Geosciences Division