



Physical Research Laboratory, Ahmedabad

COLLOQUIUM - 13 - 02

Speaker: Dr. Sunil Kumar Singh

Geosciences Division, Physical Research Laboratory, Ahmedabad.

Title: Isotope tracing of contemporary and paleo-oceanographic processes in the Indian Ocean

Abstract

Global ocean circulation controls the global climate and ocean productivity by transporting heat from equator to pole and by redistributing nutrient among different oceanic basins. Past ocean circulation has been influenced by tectonics and climate variability. As a part of GEOTRACES programme, efforts are being made to study the ocean circulation pattern, both contemporary and paleo, in the Indian Ocean using isotope proxies. In addition, suitability of these isotope proxies are also being tested and calibrated to study these processes. Studies carried in the Indian Ocean till now in this direction reveal few interesting facts which will be discussed in colloquium.

The Speaker

Dr. Sunil Kumar Singh completed his M.Sc. (Tech.) from Banaras Hindu University, Varanasi in 1992. After completing Ph.D. from Physical Research Laboratory, Dr. Singh spent about three years at CRPG-CNRS, Nancy, France as postdoctoral fellow and worked on Himalayan weathering and erosion and its coupling with climate and tectonics. Dr. Singh is currently working as Associate Professor in Geosciences Division of Physical Research Laboratory, Ahmedabad, India. His field of specialization is elemental and isotope geochemistry. His research area focuses on the biogeochemistry of the trace elements and isotopes in the Oceans and erosion and weathering processes particularly in the Himalaya. He is a member of the Scientific Steering Committee, International GEOTRACES programme and the coordinator of Indian GEOTRACES Programme. He is also a member of the Editorial Board, *Chemical Geology* journal. He has published about 45 papers in peer reviewed international and national journals.

Wednesday: 09 January, 2013, 16:00 hrs.

K.R. Ramanathan Auditorium, PRL

Tea at 15:30 hrs

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