



Physical Research Laboratory, Ahmedabad

Colloquium 15-16

- Speaker:** Dr. Atreyee Bhattacharya
University of Colorado Boulder, United States.
- Title:** "Understanding environmental response to decadal and longer droughts in the Sahara-Sahel region of North Africa: Insights from two new ⁴He based dust records."
- Time:** Wednesday, 23 December 2015, 16.00 hrs.
- Venue:** K. R. Ramanathan Auditorium, PRL

Abstract

Mineral dust emitted from arid and semi-arid regions of North Africa is an important component of the Earth's climate and has been causally related to prolonged periods of drought in the Sudano-Sahel region in the later part of the 20th century. In this talk, Dr. Bhattacharya will explore two proxy records of dust from the Sahara-Sahel region in relation to drought history of the Sahel region. She will conclude with possible ways to integrate proxy records of mineral dust to gain insights into the coupling between climate variability and environmental response on timescales critical for human decision making.

The Speaker

Atreyee Bhattacharya is a geochemist studying environmental response to changes in climate and ocean systems. Dr. Bhattacharya completed undergraduate training from Presidency College in 2003 and thereafter her master's thesis from IIT Kharagpur in 2005. Her masters thesis was awarded "Best Masters thesis" and part of the work she completed here in PRL summer school. Dr. Bhattacharya went on to complete her PhD in Earth and Planetary Sciences from Harvard University in 2012. Thereafter she was engaged in communication efforts for leading organizations such as the United States Department of Energy (at Pacific Northwest National Laboratory) and American Geophysical Union (AGU) among others. In 2013, Dr. Bhattacharya returned to academia as a faculty in the Environmental Sciences Division at North Carolina State University, followed by a prestigious postdoctoral work at University of California-Los Angeles. Recently she has joined the faculty and research personnel at University of Colorado, Boulder in both the Environmental Studies department and Institute of Arctic and Alpine Research (INSTAAR).

Tea at 15:30 hrs.

ALL ARE WELCOME

