



# Physical Research Laboratory, Ahmedabad

## Colloquium 19 - 08

- Speaker:** Prof. Ramesh P Singh  
Professor, School of Life and Environmental Sciences, Chapman University, California, USA
- Title:** “ An Overview of Ground, In-Situ, and Satellite Observations to Understand Land-Ocean-Atmosphere coupling associated with the Natural Hazards ”
- Time:** Wednesday, 08 May 2019, 16.00 hrs.
- Venue:** K.R. Ramanathan Auditorium, PRL

### Abstract

Natural hazards occur at any location on land, ocean and atmosphere, effects of these natural hazards have been observed in the source region and also far from the source. In recent years, efforts have been made to enhance observing systems on land, ocean and atmosphere to study characteristics of changes associated with the natural hazards using ground, borehole and satellite observations. An overview of the observing systems throughout the globe will be presented that have provided information about characteristics of land, ocean and atmosphere associated with prior, during and after occurrence of natural hazards. The dense network of observing systems in monitoring and forecast of an impending natural hazard have helped scientists to minimize loss and forecast of natural hazards. The need of dense network in India especially in the Himalayan and Indo-Gangetic plains is required to monitor and forecast of impending natural hazards. The impact of natural hazards occurring on land, ocean and atmosphere affecting all elements of earth systems have clearly shown the existence of land-ocean-atmosphere coupling.

### The Speaker

Prof. Ramesh Singh is with the School of Life and Environmental Sciences, Schmid College of Science and Technology, Chapman University, California, USA. He is presently a Visiting Professor at IIT Mandi. Prior to joining Chapman University, he was Professor with George Mason University, Fairfax, Virginia, USA during 2007-2009 and Distinguished Visiting Professor (2003-2005) with the Centre of Earth Observing Space Research. He served as professor at the Department of Civil Engineering, Indian Institute of Technology, Kanpur during 1986-2007. He has supervised project work and thesis of M.Tech. and Ph.D. students in the field of Remote Sensing, Engineering Geosciences, Natural Hazards, Atmospheric pollution and Applied Geophysics. He has organized training workshops in China and India for scientists from South Asian countries. He has edited two books on Natural Hazards which have been published by CRC T & F Press.

Prof. Singh has worked on all kinds of Natural Hazards (floods, cyclones, tsunamis, dust storms, earthquakes, landslides, droughts, forest fires), atmospheric pollution and earthquake process focused.

Prof. Singh has published more than 200 Papers in peer reviewed Journals, and edited several books and Proceedings of International Conferences. He is a recipient of the Indian National Remote Sensing award, 1997 by Indian Society of Remote Sensing, National Mineral award, 1993 by Government of India and Hari Om Ashram Prerit award for Atmospheric Physics and Hydrology, 1997 and a Fellow of the Indian Society of Remote Sensing and the Indian Geophysical Union.

Prof. Singh was an Alexander von Humboldt Fellow in Berlin, Germany and was at the Hirosaki University, Amori, Japan as a JSPS Fellow. He was Vice Chair of the International Committee on IUGG GeoRisk Commission and member of the EMSEV Bureau. He is the Chief Editor of Geomatics, Natural Hazards and Risk, Associate Editor of the AGU new Journal on Geo Health, Associate Editor of the International Journal of Remote Sensing and has been the Chief Editor of the Indian Journal of Remote Sensing. His main area of interests are Natural Hazards, Atmospheric pollution, Seismic Risk evaluation and Urban environment.

**Tea at 15:30 hrs**  
**ALL ARE WELCOME**

