



# Physical Research Laboratory, Ahmedabad

## Colloquium 17-12

- Speaker:** Dr. Amitava Guharay  
Reader, Space and Atmospheric Sciences Division, PRL, Ahmedabad.
- Title:** “Characteristics of waves and oscillations in the atmosphere”
- Time:** Wednesday, 12 April 2017, 16.00 hrs.
- Venue:** K. R. Ramanathan Auditorium, PRL

### Abstract

Waves are one of the most dominant controlling agents of dynamics of the atmosphere. They are generally excited by disturbances in the lower atmosphere and propagate to higher altitudes. The most important feature of the waves is its property of transporting energy and momentum from the lower to the middle and upper atmosphere and thus control and modify large scale circulation and dynamical condition of the ambient atmosphere. Waves play as an important agent of dynamical coupling of various atmospheric regions. Most prominent waves having significant impact on global dynamics are categorized as gravity waves, tides and planetary waves. Atmospheric oscillations are generated by wave and mean flow interactions. In this talk the characteristic features of these waves and oscillations will be discussed along with recent observations from various parts of the globe.

### The Speaker

Dr. Amitava Guharay completed B.Sc. in Physics with honors from Calcutta University, Kolkata and M.Sc. in Physics from Jawaharlal Nehru University, New Delhi. He obtained Ph.D. on the topic “Mesospheric Wave Dynamics” from Aryabhata Research Institute of Observational Sciences, Nainital. He then moved to PRL as a Post-Doctoral Fellow. Further, he worked as a Post-Doctoral Fellow at the National Institute for Space Research, Brazil before joining PRL as a Reader in 2015. He was awarded prestigious Ramanujan Fellowship by the Department of Science & Technology in 2015. He has published 28 papers in peer reviewed journals.

Tea at 15:30 hrs.

**ALL ARE WELCOME**

