



Physical Research Laboratory, Ahmedabad

Colloquium 17-10

- Speaker:** Dr. Harish Gadhavi
Scientist/Engineer-SE, Space and Atmospheric Sciences Division, PRL,
Ahmedabad.
- Title:** “Black carbon aerosol emissions of India”
- Time:** Wednesday, 29 March 2017, 16.00 hrs.
- Venue:** K. R. Ramanathan Auditorium, PRL

Abstract

While most aerosols (small particles in air) are believed to be producing cooling effect and counteracting warming by green-house gases, black carbon particles in the atmosphere are causing warming due to their absorbing nature. A few modelling studies have estimated warming potential of black carbon particles second only to CO₂. Black carbon particles are also the smallest particles found in the atmosphere, which makes them serious health hazard and also gives them ability to survive longer in the atmosphere. Despite their unique and important role in regional and global climate, a very little progress has been made in understanding their impact quantitatively. Emission inventories constitute critical input to any climate as well as chemical transport models. This talk will discuss about how black carbon particles affects climate, the assessment of recent emission inventories and plan to improve them.

The Speaker

Dr. Harish Gadhavi completed his B.Sc. from St. Xavier’s College, Ahmedabad and M.Sc. from School of Science, Physics Department, Gujarat University. He did his PhD from PRL on the topic of “Experimental investigation of aerosol properties and modelling their impact on radiation budget of Earth”. He then worked as post-doctoral research fellow at University of Maryland, College Park, USA and developed an algorithm to estimate solar radiative fluxes at Earth’s surface using geostationary satellite data. In 2008, he joined National Atmospheric Research Laboratory, Gadanki and was leading the Aerosol, Radiation and Trace-Gases (ARTG) research group. He joined PRL in August last year. His research interest includes developing remote sensing algorithms and studying climatic effects of aerosol and trace-gases in the atmosphere.

Tea at 15:30 hrs.

ALL ARE WELCOME

