Physical Research Laboratory
Ahmedabad

Space & Atmospheric Sciences Division

Division Seminar

Title: **"Size resolved black carbon content of aerosols and its influence on the hygroscopic growth of aerosol"**

Speaker**: Bighnaraj Sarangi**

Date: **09 April 2018**

Venue: **Ground Floor Lecture Hall**

Time: **16:00 hrs**

Highlight of the talk:

Aerosols are ubiquitous and undergo a continuous transformation during their residence in the atmosphere. Aerosol generated from gas to particle conversion or condensation of non-volatile vapours on the surface of pre-existing particles is termed as secondary aerosols. Aerosols originated through secondary formation process get activated to cloud condensation nuclei (CCN) and influence aerosol cloud indirect effects. For this, a detailed characterisation of aerosol size, chemical composition and their state of mixing is very much essential. In this seminar observation of nucleation and growth events and identification of aerosol components (e.g. organics or inorganics) responsible for these events, size selective refractory black carbon measurement and determination of their mixing state, and size selective refractory black carbon measurement and their influence over hygroscopic growth of atmospheric aerosols will be discussed.

All interested are welcome.