

Physical Research Laboratory
Ahmedabad
Area Seminar

(Space & Atmospheric Sciences Division)

Title: **“Urban Heat Islands and Air Conditioning”**

Speaker: **R. N. Misra**

Date: **18 July 2016**

Venue: **Ground Floor Lecture Hall**

Time: **16:00 hrs**

Highlight of the talk:

Overall rise in average temperature of the cities in the past two decades, has accelerated use of air-conditioning of office and living spaces. The installations have been a retrofit procedure in most of the locations, resulting in extensive changes in external appearance of buildings, which are now dotted by air-conditioners all around, either window type or split type. The heat removed from inside space is discharged into the environment in the form of hot air blown from the fan cooled heat exchanger. This results in hot air blast emanating from the windows all around, which in turn, causes increase of temperature of the surroundings and accelerates formation of urban heat island (UHI). An attempt has been made to broadly analyze the scenario and suggest changes in the air-conditioning technology, to reduce the impact on the environment.

All interested are welcome.