

Physical Research Laboratory

Ahmedabad

Space & Atmospheric Sciences Division

Special Division Seminar

Title : “The Radiation Belt Revolution”

Speaker: Dr. G. D. Reeves
Los Alamos National Laboratory, USA

Date: 22 March 2019

Venue: Ground Floor Lecture Hall

Time: 16:00 hrs

Highlight of the talk:

The discovery of the Earth's radiation belts in 1958 was the first discovery of the satellite era. Very quickly after that, theories were developed that completely explained the observed structure and dynamics of the radiation belts. This “textbook” view persisted until the early 1990's when new observations started a revolution in thinking about the radiation belts. Observations from CRRES, Polar, LANL-GEO, GPS, SAMPEX and others showed our textbooks were incomplete or even wrong - a gap in understanding that led to the Van Allen Probes mission. Since 2012 Van Allen Probes and other missions have fundamentally changed our understanding of the radiation belts while, at the same time, raising new questions that remain unanswered.

All interested are welcome.