



Physical Research Laboratory, Ahmedabad

Colloquium 19-05

Speaker: Dr. G. D. Reeves

Research Scientist & Fellow, Los Alamos National Laboratory, USA

Title: “ Space Sciences at Los Alamos National Laboratory – A Personal Perspective ”

Time: Wednesday, 20 March 2019, 16.00 hrs.

Venue: K.R. Ramanathan Auditorium, PRL

Abstract

This talk will be centered around some of the space science activities at Los Alamos National Laboratory (LANL) with a particular emphasis on personal involvement in some of those projects. LANL has been involved in space science for over 60 years. The origin of LANL's Space Science program was the Vela satellite program which started in 1959 to monitor compliance with the test ban treaty. Los Alamos continues that mission to this day with systems such as the Global Position System (GPS) based nuclear detonation detection instruments and research into fundamental physics problem in collaboration with NASA and the international space sciences community. The fundamental space sciences research at LANL has greatly expanded to include solar-terrestrial interactions, studies of the heliopause and interstellar medium with energetic neutral atoms, planetary exploration, magnetospheric physics, radiation belt physics and many other areas. This talk will bring out some of that history and personal recollections of the history and of space sciences at LANL.

The Speaker

Dr. G. D. Reeves is the Space sciences lead in the New Mexico Consortium, Los Alamos National Laboratory, USA. Dr. Reeves earned his BA from the University of Colorado, Boulder, USA in 1983 and Ph.D. From Stanford University in 1988. Dr. Reeves is an expert in Space Weather – the field that studies how solar activity produces changes in the near-Earth space environment. He has been a PI or Co-I on a number of satellite missions from NASA, ESA, and the US Air Force and has over 500 publications on geomagnetic storms and substorms, radiation belt dynamics, and energetic neutral atom imaging. He has received several prestigious awards that include Fellow of the American Geophysical Union (AGU), NASA Group Achievement Awards for Van Allen Probes ECT Science Investigation, LANL Fellow's Prize for Outstanding Scientific Leadership, LANL Distinguished Performance Award for the NASA Van Allen Probes mission, European Space Agency (ESA) Achievement Award for with the Cluster Satellite Mission, NASA Group Achievement Awards for POLAR CEPPAD & CAMMICE Investigations. He is one of the elected Presidents (2019-2020) of the Space Physics & Aeronomy section of AGU and serves in various roadmap, review and advisory committees of NSF, NRC and NASA.

Tea at 15:30 hrs
ALL ARE WELCOME

