

Loyola University Maryland Science Seminar

Atmospheric and Planetary Science Research at Hampton University

Dr. Robert Loughman, Department of Atmospheric and
Planetary Sciences, Hampton University



Friday, April 8th 2011 3:00 pm
Knott Hall B01
Munchies will be provided!

A planetary atmosphere is a fascinating natural environment, in which radiation, chemistry and dynamics interact in several interrelated physical systems. Controlled experiments in the conventional sense are impossible, complicating the task of characterizing these complex (and even chaotic) systems. Sustained measurement campaigns provide the data necessary for applications such as weather forecasting and climate monitoring, while more targeted measurement campaigns focus on process studies for areas such as biomass burning and stratospheric ozone depletion. A combination of active sensors (such as ground-based and space-based LIDAR systems) and passive sensors (measuring radiation emitted by the Earth and atmosphere, as well as scattered solar radiation) is needed.