

# **SPACE AND COSMIC RAY PHYSICS SEMINAR**

University of Maryland  
Computer & Space Sciences Building, Rm 2400  
4:30 PM Monday, September 13, 2004  
Tea & cookies 4:00-4:30 PM

**Dr. John B. Sigwarth**  
NASA Goddard Space Flight Center  
Electrodynamics Branch, Greenbelt, Maryland

## **Global Auroral Imaging: Dynamic Pressure Induced Auroral Brightenings and Conjugate Auroral Observations.**

Global auroral images acquired with Earth-orbiting spacecraft allow the monitoring of the global changes of the magnetosphere. The Visible Imaging System (VIS) on the Polar spacecraft of the NASA Goddard Space Flight Center has been used to observe the response of the global auroral oval to large dynamic pressure changes in the solar wind impinging on the nose of the magnetosphere. Recently, the motion of the line of apsides of the Polar spacecraft orbit has allowed simultaneous viewing of the nighttime sectors of the northern and southern auroral ovals with a single camera. The presentation will include examples of both sets of observations and a discussion of the implications for the magnetosphere.

**<http://space.umd.edu/seminars>**

Sponsored by: Department of Physics and the Institute for Physical Science and Technology, University of Maryland. For information call Matthew Hill at (301) 405-6209 or go to the website given above. (A PDF file of this announcement is available for download and posting it at your institution is encouraged and appreciated.)

For free parking please park in lot DD or anywhere on levels 1-2 in lot B (the big parking garage) after 4.00 pm. Make sure that you park in a spot WITHOUT a parking meter. More parking information is at the website.