

# **SPACE AND COSMIC RAY PHYSICS SEMINAR**

University of Maryland  
Computer & Space Sciences Building, Rm 2400  
4:30 PM Monday, September 29, 2003  
Tea & cookies 4:00-4:30 PM

## **Hilary V. Cane**

NASA Goddard Space Flight Center  
Laboratory for High Energy Astrophysics, Greenbelt, Maryland  
and  
Bruny Island Radio Spectrometer, Australia

## **“FLARE” AND SHOCK ACCELERATION IN SOLAR ENERGETIC PARTICLE EVENTS**

A review will be made of solar observations of events leading to particle increases in the interplanetary medium. A number of the particle measurements, in particular of ion abundances and charge states, seem incompatible with the current understanding that all the particles in major events are accelerated at coronal mass ejection (CME) shocks. Support for the suggestion that the first particles are associated with “flare processes” occurring in the disturbed corona following CME lift-off will be presented. Of particular importance are radio observations at metric and decametric wavelengths.

Sponsored by: Department of Physics, University of Maryland, and the Institute for Physical Science and Technology, University of Maryland

For information call Matthew Hill at (301) 405-6209 or go to the following website:  
[http://space.umd.edu/seminars/Fall\\_2003\\_Seminar.html](http://space.umd.edu/seminars/Fall_2003_Seminar.html)

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