

Space Physics Seminar Thursday, November 6, 2014

3:00 pm Refreshments CAS Room 500

3:30 pm Seminar CAS Room 502

Next Week

- Louis Lanzerotti
 New Jersey Institute of
 Technology
- Space Weather: Affecting Life and Technologies on Earth and in Space (joint with ME)

http://www.bu.edu/csp/edoutreach/seminar/

SHARAD Studies of Mars: From the Base of the Ice Caps to the Ionosphere

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Abstract:

SHARAD is a radar sounding instrument on the Mars Reconnaissance Orbiter, designed to map reflections from geologic interfaces and ice layering to depths of up to a few kilometers below the surface. The instrument provides spectacular views of the polar caps, detects shallow ice deposits in the plains, and maps lava flow and sedimentary layers connected with the intertwined history of volcanism and water on Mars. During dayside operations, SHARAD also probes the ionosphere to track spatial and time-dependent changes in total electron content. This talk highlights recent work on all of these topics.



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