

PRINT ONLY: MISSION, INSTRUMENTS, AND PAYLOAD CONCEPTS

Anderson F. S. Nowicki K.

[*An Initial Demonstration of LDRIMS on the Boulder Creek Granite: Implications for In-Situ Geochronology*](#) [#2067]

We discuss an initial low-precision geochronology measurement of the Boulder Creek Granite using a miniaturizable laser desorption resonance ionization mass spectrometer with applications for *in situ* dating on the Moon and Mars.

Goswami J. N. Annadurai M.

[*Chandrayaan-2 Mission*](#) [#2042]

Chandrayaan-2 with an orbiter-lander-rover configuration is an Indo-Russian collaborative mission to be launched in 2013. Observations in X-ray, VIR, and microwave from the orbiter and *in situ* studies of a high-latitude location by the lander and rover are planned.

Hörz F. Evans C. Eppler D. Gernhardt M. Bluethmann W. Graf J.

Bleisath S. DRATS Science Team

[*Crew Field Notes: A New Tool for Planetary Surface Exploration*](#) [#2113]

The DRATS 2010 field simulation introduced concise verbal summaries by the crews and supporting imagery of important geologic features and samples that were electronically tagged as the highest priority science data, amenable to rapid downloading.

Kereszturi A.

[*Extrapolation of Shallow Subsurface Structures from Orbital Data — Case Study for ExoMars Rover Mission*](#) [#1351]

This paper presents the basis of the methods for how the location and parameters of subsurface features accessible by the drill sampling equipment of ExoMars Rover could be estimated from remote sensing data.

Radhakrishna V. Narendranath S. Tyagi A. Bug M. Unnikrishnan U. Kulkarni R. Sreekantha C. V. Kumar Balaji G. Athiray P. S. Sudhakar M. Manoj R. Chetty C. V. Thyagaraj M. R. Howe C. Gow J. Sreekumar P.

[*The Chandrayaan-2 Large Area Soft X-Ray Spectrometer \(CLASS\)*](#) [#1708]

CLASS on Chandrayaan-2 aims to map the abundance of elements on the lunar surface using XRF during solar flare. The instrument uses large area SCDs and is designed to provide better spatial resolution and sensitivity than the C1XS experiment on Chandrayaan-1.

Zuber M. T. Smith D. E. Asmar S. W. Konopliv A. S. Lemoine F. G. Melosh H. J. Neumann G. A. Phillips R. J. Solomon S. C. Watkins M. M. Wiczorek M. A. Williams J. G.

[*Mission Status and Future Prospects for Improving Understanding of the Internal Structure and Thermal Evolution of the Moon from the Gravity Recovery and Interior Laboratory \(Grail\) Mission*](#) [#1967]

Knowledge of the interior and evolution of the Moon, and by extension, other terrestrial planetary bodies, will be greatly advanced by the Gravity Recovery And Interior Laboratory (GRAIL) mission, which is on track for launch in September 2011.