Friday, October 31, 2008

FACILITATING EXPLORATION AND SETTLEMENT USING ROBOTIC MISSIONS, HUMAN-ROBOTIC PARTNERSHIPS, AND ISRU
8:30 a.m.  Salon I

What are the needs/advantages of robotic missions for advancing lunar science/benefiting human exploration?
How can human-robotic partnerships be used to develop/build a long-term presence on the Moon?
What are the drilling challenges on planetary surfaces/in regolith/regolith-ice mixtures/rock and at ultra-low temperatures?

Chairs:  C. Neal  
B. H. Foing


Global Topography and Gravity Fields of the Moon by Kaguya (SELENE) [#4064]

8:50 a.m.  Matsumoto K. *  Hashimoto T.  Hoshino T.  Tanaka S.  Otsuki M.  Kawaguchi J.

Japanese 1st Moon Lander SELENE-2 as SELENE Follow-On [#4076]

9:10 a.m.  Grande M. *  Maddison B. J.  Sreekumar P.  Huovelin J.  Kellett B. J.  Howe C. J.  Crawford I. A.  Smith D. R.  C1XS Team

C1XS - The Chandrayaan-1 X-Ray Spectrometer [#4059]

9:30 a.m.  Walker R. *  Cross M.

The European Student Moon Orbiter (ESMO): A Small Mission for Education, Outreach and Lunar Science [#4087]

9:50 a.m.  Ehrenfreund P. *  Foing B. H.

What Astrobiology Investigations are Needed and Possible on the Moon? [#409]

10:10 a.m.  Sridhar J. *

An Experimental Study of Lunar Reconnaissance Base with the Robotic Emplacements [#4044]

10:30 a.m.  Zacny K. *  Fink P.  Milam B.  Nagihara S.  Taylor P.

Heat Flow Probe Deployment in Lunar Regolith Simulant Using a Percussive Penetrometer [#4021]

10:50 a.m.  Stoker C. R. *

The Scientific Rationale and Technical Challenges of Drilling on the Moon and Mars [#4010]


Rotary Percussive Drilling in a Vacuum Chamber: A Test Bed for Lunar and Mars Drilling [#4002]

11:30 a.m.  Kawamoto H. *  Uchiyama M.

Electrostatic Cleaner of Lunar Dust on Solar Panel and Optical Lens [#4003]

11:50 a.m.  Miura Y. *

Water and Chlorine Indicator on the Moon with Akaganeite-like Composition [#4047]