

Wednesday, October 29, 2008

DEFINING THE PATH FOR HUMAN RETURN TO THE MOON (continued)

1:30 p.m. Salon I

*What technologies need to be developed now for human return to the Moon (and beyond)?
What are the critical elements for robotic development, habitats, and hazard prevention?
What is the current state of ISRU development?*

Chair: C. K. Shearer

- 1:30 p.m. Zacny K. * Craft J. Wilson J. Chu P. Davis K.
[*Percussive Digging Tool for Lunar Excavation and Mining Applications*](#) [#4046]
- 1:50 p.m. Rodriguez G. * Slane F. Johnson L. Westfall R.
[*With Endpoints Defined, an ISRU Roadmap Takes Shape*](#) [#4032]
- 2:10 p.m. Nakamura T. * Smith B. K. Gustafson R. J.
[*Solar Thermal Power System for Oxygen Production from Lunar Regolith: Engineering System Development*](#) [#4011]
- 2:30 p.m. Cardiff E. H. * Maciel T. R. Banks I. S.
[*In-Situ Production of Oxygen Through Lunar Regolith Pyrolysis*](#) [#4084]
- 2:50 p.m. Ash R. L. *
[*Phoenix Lander Implications on In Situ Resource Utilization for Robotic Exploration of Mars*](#) [#4030]
- 3:10 p.m. Krishna T. N. * Rakesh A. Raja R. P.
[*In-Situ Resource Management \(ISRU\): Extraction of Lunar Oxygen Resources \(ELOR\)*](#) [#4020]
- 3:30 p.m. Paul A.-L. * Ferl R. J.
[*Telemetric Biology: Evaluating In Situ Resources for Biological Payloads in a Lunar Lander*](#) [#4070]
- 3:50 p.m. Shearer C. * Lofgren G. Neal C.
[*Preparing for the Next Generation of Lunar Sample Return*](#) [#4105]
- 4:10 p.m. De Angelis G. * Badavi F. F. Blattnig S. R. Clem J. M. Cloudsley M. S.
Tripathi R. K. Wilson J. W.
[*Models for the Lunar Radiation Environment*](#) [#4009]
- 4:30 p.m. Archinal B. * Acton C. Bussey B. Campbell B. Chin G. Colaprete A. Cook A. Despan D.
French R. Gaddis L. Kirk R. Mendell W. Lemoine F. Nall M. Oberst J. Plescia J.
Robinson M. Smith D. Snook K. Sweetser T. Vondrak R. Wargo M. Williams J.
[*International Standards and the NASA Lunar Geodesy and Cartography Working Group*](#) [#4052]
- 4:50 p.m. Piccolo F. * Perino M. A. Borriello G. Tuninetti C.
[*Valuing Exploitation of Moon Resources Using Real Options*](#) [#4054]

SPECIAL PLENARY: NASA'S VISION

5:30 p.m. Salon 1

- 5:30 p.m. Scolese, C.*
Associate Administrator, Office of the Administrator, NASA Headquarters