Tuesday, October 31, 2006

7:30 a.m. Continental Breakfast and Registration

8:00 a.m. Opening Remarks

8:30 a.m. M. B. Duke Colorado School of Mines

*Scientific Context for the Exploration of the Moon: A National Research Council Space Science Board Study*

**ISRU AND THE LUNAR ENVIRONMENT**

8:45 a.m. K. Heiss, A. Ignatiev, and P. van Susante

*Development of a Lunar Water Astroparticle Observatory Using In Situ Resources*

9:00 a.m. G. A. Smithers, M. K. Nehls, M. A. Hovater, S. W. Evans, J. S. Miller, R. M. Broughton, Jr., D. Beale, and F. Kilinc-Balci

*A One-Piece Lunar Regolith-Bag Garage Prototype*

9:15 a.m. B. Boldoghy, J. Kummert, I. Szilágyi, T. Varga, and Sz. Bérczi

*Feasibility Concept of Creating Protected Spaces with Great Size and Balanced Interior Temperature for Industrial Activities on the Moon*

9:30 a.m. J. Diaz and B. Ruiz

*Comparative Study of ISRU-based Transportation Architectures for the Moon and Mars: LOX/LH2 vs. LOX/Methane*

9:45 a.m. B. Blair, B. Damer, D. Rasmussen, and P. Newman

*Design Simulation in Support of Exploration and ISRU for NASA’s Lunar Exploration Program and the Mining Industry*

10:00 a.m. Break


*Lunar Electric Fields and Dust: Implications for In Situ Resource Utilization*

10:30 a.m. F. A. Slane and G. Rodriguez

*Layered Architectures for Mitigation and Processing of Planetary Dust for Manned and Robotic Space Exploration*

10:45 a.m. L. A. Taylor and J. T. James

*Potential Toxicology of Lunar Dust*