LEAG Report to the PSS

7 June, 2007

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LEAG Charter
Joint OSEWG/LEAG Workshop
LEAG Annual Meeting
The Lunar Exploration Analysis Group (LEAG) is responsible for analyzing scientific, technical, commercial, and operational issues associated with lunar exploration in response to requests by NASA. The LEAG serves as a community-based, interdisciplinary forum for future exploration and provides analysis in support of lunar exploration objectives and their implications for lunar architecture planning and activity prioritization. It provides findings and analysis to NASA through the NASA Advisory Council (the Council) within which the LEAG Chair is a member of the Planetary Science Subcommittee (PSS).
LEAG Charter (TOR)

http://www.lpi.usra.edu/leag/

To carry out its role, the LEAG will:

1. Provide findings, analysis, and other information that can be used to inform decisions on the science, technology, commercial, and operational content and priorities of lunar robotic and human missions.

2. Provide a regular forum for broad discussion of lunar exploration science, technology, commerce, and operational issues, which will serve as a conduit for community input into lunar exploration activities and planning.
LEAG Charter (TOR)

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3. Perform focused analyses in response to requests from the Exploration Systems Mission Directorate (ESMD), the Science Mission Directorate (SMD), the Space Operations Mission Directorate (SOMD), or the Committees of the Council.

4. Coordinate analyses that involve both the Moon and Mars with the Mars Exploration Program Analysis Group (MEPAG).
Executive Committee constituted to help with planning/execution of requests.

Ex-Comm: Chair; Vice-Chair; Previous Chair; ESMD Rep. (Executive Secretary); SMD Rep.; SOMD Rep.; Lunar Community Liaison (LPI Director of Appointee); Chair of ISRU sub-group; Chair of Commercialization sub-group.
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Regular Ex-Comm meetings - one at LPSC.

Annual community meeting to give a forum to the diverse elements of the LEAG membership.

Tasking for LEAG activities may be initiated from ESMD, SMD, SOMD, or committees of the Council, with final approval by the Council Chair.
OSEWG/LEAG Workshop

June 25-26, 2007

Lunar & Planetary Institute

Architecture issues Associated with Sampling using Humans and Robots on the Moon and Mars.

The Outpost Science & Exploration Working Group and LEAG are working closely with CAPTEM, MEPAG, and VEXAG to make this workshop relevant and useful to a wide range of planning activities going on across NASA.

It is open to all groups (including private sector and non-US parties) and architectural issues will include sampling for scientific exploration, ISRU, and commerce.
OSEWG/LEAG Workshop

Lunar and Mars Architecture Reviews
APOLLO J Mission Sample Handling
Sample Handling Issues
Traverse Planning
Sample & Data Acquisition
Documentation
Sample Screening
Habitat Laboratory Analysis
Sample Return
Sample Curation
LEAG Annual Meeting

October 1-5, 2007
South Shore Harbour Resort
League City, TX.

Theme:
“Enabling Exploration: The Lunar Outpost and Beyond.”

Meeting Goal: “Define pathways to offset cost and risk of achieving the next era of space exploration.”
Annual Meeting Sessions

Overarching question to be addressed by all sessions:

How can risk/cost be reduced through cooperation and partnerships in technological developments and demonstrations?

Each session will be geared to answer specific questions critical to the next era of lunar exploration.

Sessions will be invited talks followed by panel discussion/Q&A.
Contributed abstracts will form poster session(s).
Annual Meeting Sessions

Plenary - Community Briefings:
Briefings should include information regarding barriers/opportunities for international and private sector participation in this new era of NASA’s exploration of the Moon.

ISRU Demonstrations.

Private Sector Involvement.

FEAT.

Robotic Missions.

Sample Return.

(International Partners)