

LEAG Annual Meeting

October 1-5, 2007

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



“Enabling Exploration: The Lunar Outpost & Beyond”

Meeting Goal: Define pathways to offset cost and risk of achieving the next steps in space exploration.





Congratulations to Japanese Aerospace Exploration Agency (JAXA) and Mitsubishi Heavy Industries Ltd. for the successful launch of KAGUYA carrying SELENE to the Moon.



Evolution of the LEAG

- Not limited to exploration activities - science, resource utilization, and commerce.
- LEAG represented on the NAC.
- Now “chartered” with an Executive Committee containing SMD, ESMD, and SOMD reps.



Meeting Outline

Day 1: Briefings and community updates.

Day 2: International Partnerships,
ISRU & Outpost Sustainment Demos.

Day 3: The Role of Robotic Missions,
Commerce: Incremental Steps from Earth to Lunar
Enterprise.

Day 4: Sample Return and Lunar Exploration,
Role of Technology in Field Exploration & Astronaut
Training.

Day 5: Site Selection and the Lunar Outpost.
Moderator Reports.



Poster Sessions Wednesday and Thursday,
6-8 p.m. in the Southwest Grand Ballroom D/E.

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Meeting Outline

Sessions focused by specific questions.
Note “feed-forward & discussion aspects.”



Please speak slowly - not everyone here is a native English/American speaker!!

Please load talks on the podium lap top. These will become part of the LEAG meeting report. You can remove any sensitive material after the session, if necessary.



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commerce



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Lunar Exploration Strategy

Objectives

Basic Science (Astronomy and Astrophysics; Heliophysics; Earth Observation; Lunar Geology; Environmental Characterization)

Applied Science (Lunar Resource ISRU; Materials Science)

Human Health and Biology (Human Health; Life Support and Habitation; Operations Environment Monitoring; Environmental Hazard Mitigation).

Infrastructure (Power; Communication; Guidance, Navigation and Control; Surface Mobility; Transportation; General Infrastructure; Crew Activity Support; Operations Test & Verification).

Commerce (Development of Lunar Commerce; Commercial Opportunities).

Other (Historic Preservation; Global Partnerships; Public Engagement; Program Execution).



LEAG Charter (TOR)



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.



exploration science resources commerce

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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).

