

**Wednesday, November 9, 2011**  
**FUTURE MISSIONS OF EXPLORATION AND SCIENCE**  
**8:30 a.m. Lecture Hall**

*Explore Concepts for Future Missions, from Around the World,  
that Fulfill Lunar Science Goals and Enable Human Exploration of the Solar System*

**Chairs: Richard Elphic**  
**Mark Robinson**

- 8:30 a.m. Pieters C. M. \*  
[What's Next? Building on Recent Results](#) [#2026]
- 8:45 a.m. Elphic R. C. \* Delory G. T. Grayzeck E. J. Colaprete T. Horanyi M. Mahaffy P. Hine B.  
Boroston D. Salute J. S.  
[The Science Behind NASA's Lunar Atmosphere and Dust Environment Explorer](#) [#2056]
- 9:00 a.m. Carpenter J. D. \* Pradier A. Fisackerly R. Houdou B. De Rosa D. Gardini B. Philippe C.  
[The European Lunar Lander: A Human Exploration Precursor Mission](#) [#2046]
- 9:15 a.m. Mitrofanov I. \*  
[Science Mission LUNA GLOB](#) [#2016]
- 9:30 a.m. Hoffmann H. \* Jaumann R. Hiesinger H. Claasen F. Spohn T. Mall U. Helbert J.  
Kappelmann N. Werner K. Wimmer-Schweingruber R. Srama R. Oberst J. Flohrer J.  
Werner M. Neukum G. van Gasselt S. Schmitz N. Eichertopf K. Knigge T. Kummer U.  
Langemann M. Mueller H. Haarmann R.  
[A Dedicated Small Lunar Exploration Orbiter and a Mobile Surface Element](#) [#2048]
- 9:45 a.m. Martin E. \* Piedboeuf J.-C. Ouellet A. Picard M. Lange C. Hipkin V.  
[Toward Canadian Contributions to International Lunar](#) [#2055]
- 10:00 a.m. Ghafoor N. \* Dickinson C. McCoubrey R. Chappell L. Barnet M. Dietrich P.  
Teti F. Sallaberger C.  
[Preparing for Lunar Exploration — Concepts, Technologies, Partnerships in an  
Age of Uncertainty](#) [#2057]
- 10:15 a.m. BREAK
- 10:30 a.m. Hall A. \*  
[Hitching a Ride for Science on Google Lunar X PRIZE](#)
- 10:45 a.m. Richards R. \*  
[A Lunar Google X-Prize Mission](#)
- 11:00 a.m. Gump D. P. \*  
[Delivery of Lunar Surface Payloads on a Cost-Shared Commercial Robotic Expedition](#) [#2045]
- 11:15 a.m. Neal C. R. \*  
[Establishing a Lunar Geophysical Network for Exploration and Solar System Science](#) [#2052]

11:30 a.m. Robinson M. S. \* Lawrence S. J. Speyerer E. J. Stopar J. D.  
[\*Intrepid: Lunar Roving Prospector Providing Ground Truth and Enabling Future Exploration\*](#) [#2042]

11:45 a.m. Garrick-Bethell I. \* Lin R. Sanchez H. Hemingway D.  
[\*Lunar Swirl Impactors: A Low-Cost Mission to Study Lunar Swirls, Magnetism, Water, Space Weathering, Dust, and Plasma Physics\*](#) [#2038]

12:00 p.m. DISCUSSION