

NASA Community Workshop on the GER

Day 1	Thursday 10 April 2014
8:00	Welcome and Workshop Objectives <i>Kathy Laurini (NASA)</i>
8:10	NASA Exploration Strategy and Budget Outlook <i>Bill Gerstenmaier (NASA Associate Administrator for Human Exploration and Ops)</i>
8:25	Science Priorities Informing Human Space Exploration <i>Ellen Stofan (NASA Chief Scientist)</i>
8:45	Overview of the ISECG Mission Scenario <i>Roland Martinez (NASA)</i>
9:00 - 10:45	Session 1: Asteroid Redirect Mission: Extensibility to Future Missions <i>Steve Stich, Chair</i>
9:00	Introduction and Session Objectives - <i>Steve Stich (NASA)</i>
9:05	NASA's Asteroid Redirect Mission and Extensibility to Future Missions <i>Steve Stich (NASA)</i>
9:20	Solar Electric Propulsion: Advancing Technology to Meet Long Term Needs <i>Kurt Hack (NASA)</i>
9:35	Solar Electric Propulsion for Exploration – Lessons from the Global Economy <i>Joe Cassady (Aerojet)</i>
9:50	Resource Potential of Asteroids <i>Andy Cheng (APL)</i>
10:05	Applications of Asteroid Redirection Technology: Summary of Keck Institute Workshop <i>Lou Friedman</i>
10:20	NASA's Asteroid Initiative: Summary of March 26 Asteroid Initiative Forum <i>Michele Gates (NASA)</i>
10:35	Audience Perspectives, Questions, Answers and Session Wrap Up
10:45-11:05	Coffee Break
11:05-12:40	Session 2: Extended Duration Missions in the Lunar Vicinity <i>Kathy Laurini, Chair</i>
11:05	Introduction and Session Objectives - <i>Kathy Laurini (NASA)</i>
11:10	An International Industry Perspective on Extended Duration Missions Near the Moon <i>Josh Hopkins (LMSC)</i>
11:30	Cygnus Beyond Low-Earth Orbit – Logistics and Habitation in CisLunar Space <i>Carl Walz (Orbital Sciences)</i>
11:45	Expanding the Future: The Development and Use of Inflatable Habitats for Lunar Exploration <i>Mike Gold (Bigelow Aerospace)</i>
12:00	Science enabled by the presence of the crew <i>Greg Schmidt (SSERVI)</i>
12:15	Tele-presence Mission Concepts <i>Jack Burns (U of Colorado)</i>
12:30	Audience Perspectives, Questions, Answers and Session Wrap Up
12:40-2:00	Lunch Break

NASA Community Workshop on the GER

2:00-3:30	Session 3: Collaborative Human Lunar Surface Missions <i>Roland Martinez, Chair</i>
2:00	Introduction and Session Objectives - <i>Roland Martinez (NASA)</i>
2:05	How Discoveries from the Lunar Reconnaissance Orbiter Mission feed Rationale to Return to the Moon <i>Mark Robinson (Arizona State University)</i>
2:25	Overview of ISECG work on Expanding Definition of the Lunar Exploration Scenario <i>Ryan Whitley (NASA)</i>
2:35	Lunar Surface Access <i>Hiroshi Ueno (JAXA)</i>
2:50	Role of the Moon in ESA's Space Exploration Strategy <i>Bernhard Hufenbach (ESA)</i>
3:00	Lunar Volatiles <i>Dana Hurley (APL)</i>
3:20	Audience Perspectives, Questions, Answers and Session Wrap Up
3:30-3:45	Coffee Break
3:45-5:15	Session 4: International Standards to Promote Interoperability <i>Joel Montalbano, Chair</i>
3:45	Introduction and Session Objectives – <i>Joel Montalbano (NASA)</i>
3:55	ISS Lessons Learned <i>Matt Duggan (Boeing)</i>
4:05	Lessons Learned from Commercial Crew Program <i>Lisa Colloredo (NASA)</i>
4:20	Overview of the Docking system standard: <i>Skip Hatfield (NASA)</i>
4:30	Overview of communication standards <i>Phil Liebrecht (NASA)</i>
4:45	Audience Perspectives and Session Wrap Up
5:00	Summary of Takeaways from Day 1 – <i>Kathy Laurini</i>
Day 2	Friday 11 April 2014
8:00	The Space Launch System: Capability for Deep Space Exploration <i>Steve Creech (NASA)</i>
8:15-10:30	Session 5: Human Assisted Sample Return <i>John Baker, Chair</i>
8:15	Introduction and Session Objectives – <i>John Baker (JPL)</i>
8:20	Crew-assisted Mars Sample Return <i>Bob Gershman, Stan Love, Josh Hopkins (JPL, JSC-CB, LMSC)</i>
9:20	OSCAR: Lunar Sample Return with Orion <i>Josh Hopkins (LMSC)</i>
9:35	Science and Exploration Priorities for Human-assisted Lunar Sample Return <i>David Kring (USRA)</i>

10:00	JAXA Presentation <i>Hiroshi Ueno (JAXA)</i>
10:15	Audience Perspectives, Questions, Answers and Session Wrap Up
10:25-10:30	Break
10:30-12:00	Session 6: Evolutionary Path to Mars <i>Bret Drake, Chair</i>
10:30	Introduction and Session Objectives – <i>Bret Drake (NASA)</i>
10:35	Emerging Strategies in the Context of a Capability Driven Framework <i>Bret Drake (NASA)</i>
10:50	Ensuring GER Near-Term steps enable future Mars Missions: The Proving Ground <i>Roland Martinez (NASA)</i>
11:00	Summary of the 2013 Affording Mars Workshop: <i>Harley Thronson (Workshop Co-Chairs)</i>
11:15	Status of the ExoMars Programme <i>Vincenzo Giorgio, Thales Alenia Space</i>
11:30	Panel of Experts: Remarks and Q&A, moderated by Bret Drake <i>Human Research Program: Craig Kundrot (invited), Transportation: Les Johnson, Vincenzo Giorgio (TASI) (invited), Task Opportunities: Steve Hoffman, ISS: Sam Scimemi</i>
11:50-12:15	The Benefits of Space Exploration <i>Nantel Suzuki (NASA)</i>
12:15-12:30	Workshop Summary and Adjourn <i>Kathy Laurini, Chair</i>
1:00	Young Professionals Lunch: The Future of International Agency Work This is an open discussion with young professionals and aerospace veterans worldwide to provide an informal opportunity to share thoughts on topics related to the GER or the international effort.