



2007 JUSTSAP Project Team Meeting Robotic Precursor Missions to the Moon (RPMTM)

Ali'i III

Waikoloa Beach Marriott Resort, Kohala Coast, Hawaii

November 13-14, 2007

Date	Time	Event
Nov. 13 (Tuesday)	8:30 – 10:00	RPMTM Project Team Session I <i>Theme: Robotic Mission Architectures & Capabilities</i> Discussion Facilitators: Mr. Anthony LaVoie, LPRP Project Manager - NASA MSFC Mr. Takeshi Hoshino, SELENE-2 Pre-Project - JSPEC, JAXA Each facilitator will give a presentation (no more than 15 minutes) that discusses their current thinking on robotic lander program. What are the capabilities of the platform, will it be a lander or a rover? What are the payload capabilities for each (Mass & Power)? What part of the lunar surface can the lander reach (poles possible?, shadowed craters?) The goal of the presentation is to present a starting point for discussions that will allow us see what technologies could fit into the planned architectures and provide feedback to mission planners on how they might modify their architectures to accommodate more precursor needs.
	10:00 – 10:15	Refreshment Break
	10:15 – 12:00	RPMTM Project Team Session II <i>Theme: Engineering Precursor Mission Needs</i> Discussion Facilitators: Mr. Frank Peri, ETDP Manager - NASA Langley Research Center Mr. Shigeru Aoki, Shimizu Corporation Mr. Larry Clark, ISRU Manager - Lockheed Martin Corporation A 10-minute presentations from each facilitator that should discuss technologies under development that would benefit from a robotic precursor mission prior to use within a human program. The presentations could also consider technologies that might be key for future robotic missions that need a preliminary test before they are inserted into the critical path of a robotic mission. The goal of each presentation is to present a starting point for discussions that will allow the discussion group to develop a list of high, medium and low technologies that would benefit from precursor missions.
Nov. 13	12:00 – 13:30	Lunch (<i>Ali'i I and II</i>)

RPMTM Project Team Meeting Agenda (Page 2)

Date	Time	Event
	13:30 – 15:00	<p>RPMTM Project Team Session III</p> <p><i>Theme: Science Precursor Mission Needs</i></p> <p>Discussion Facilitators: Dr. Mike Duke, Former Director - Center for Space Resources/CSM Dr. Manabu Kato, Science Group - JSPEC, JAXA</p> <p>A 15-minute presentation from each facilitator that should address science objectives that would benefit from a robotic precursor mission. The goal of the presentation is to present a starting point for discussions that will allow us to develop a list of high, medium and low science objectives to pursue on the surface prior to humans returning to the moon.</p>
Nov. 14 (Wednesday)	8:30 – 10:00	<p>RPMTM Project Team Session IV</p> <p><i>Theme: Rover-based vs. Lander-based Missions</i></p> <p>Discussion Facilitators: Dr. Terry Fong, Director - Intelligent Robotics Group, NASA Ames Dr. Takashi Kubota, Rover Group - JSPEC, JAXA</p> <p>A 15-minute presentations from each facilitator that addresses how the use of mobility systems can benefit engineering and science precursor missions, and discusses the optimal mix of stationary lander vs. rover-based missions. The presentation should consider technologies discussed in Tuesday's sessions and explore which require a mobile mission to complete and which can be accomplished from a stationary lander.</p>
	10:00 – 10:15	Refreshment Break
	10:15 – 11:45	<p>RPMTM Project Team Session V</p> <p><i>Discussion: Collaboration Possibilities</i></p> <p>Discussion Facilitators: Mr. William Larson, Chief - Applied Sciences Div., NASA KSC Mr. Tetsuji Yoshida, Shimizu Corporation</p> <p>Based on the presentations and discussions during the project team meetings, what have we identified that seems best suited to a collaborative effort between Japan and the U.S.? Once we have established what the project team agrees to work on, what are the next steps? (Recommendations Report to NASA/JAXA?, Mission Trade Studies?, etc.)</p>