



"We hesitate about where to go from here in space. Yet our delay in exploiting this window of opportunity could close off choices for our descendants if the no-growth paradigm - or a failure of nerve - should come to dominate the industrial nations. Because of our technologies, and the scales of our political and economic organizations, we now have the option of taking a conscious evolutionary step, expanding the presence and influence of humanity beyond the biosphere that evolved us - and possibly beyond the limits that otherwise would constrain our future."

Michael Michaud
Life in the Universe

AGENDA

<u>Date</u>	<u>Time</u>	<u>Event</u>
Nov. 13 (Sunday)		<u>Pre-Symposium Activities</u>
	2:30 - 7:00	Delegate Registration <i>Waikoloa Promenade</i>
	3:00 - 5:00	Pre-Summit Organizational Meeting <i>Kona IV</i>
	6:30 - 8:00	Delegate Reception <i>Lagoon Lanai</i>

Date	Time	Event
Nov. 14 (Monday)	7:00 - 3:00	Delegate Registration <i>Waikoloa Promenade</i>
	7:00 - 8:00	Continental Breakfast <i>Lagoon Lanai</i>
		<u>OPENING CEREMONIES</u> <i>Kona IV</i>
	8:00 - 8:30	Welcome Mr. Jim Crisafulli <i>Director, Hawaii Office of Aerospace Development</i> Dr. Donald Straney <i>Chancellor, University of Hawaii at Hilo</i> Senator Will Espero, Rep. Angus McKelvey <i>Hawaii State Legislature</i> Dr. Osamu Odawara <i>Chair, Pacific International Space Alliance (PISA - formerly JUSTSAP)</i>
	8:30 - 9:00	The ILRP Vision and Summit Overview Dr. Frank Schowengerdt <i>Director, Pacific International Space Center for Exploration Systems</i>
	9:00 - 10:00	Keynote Presentations NASA Research Park: Partnerships for Innovation and Entrepreneurship in Space Mr. Michael Marlaire <i>Director</i> <i>NASA Research Park</i> Awakening the Spirit of Exploration for Human Development Mr. Henk Rogers <i>Chairman</i> <i>Avatar Reality Inc.</i>
	10:00 - 10:30	Refreshment Break and Group Photo <i>Grand Staircase</i>

Date	Time	Event
Nov. 14	10:30 - 12:00	<u>PLENARY SESSION I</u> <i>Kona IV</i> Panel Presentation: <i>Current Lunar Missions and Visions</i> <i>Key Topics: Overview of ongoing/planned programs supporting lunar exploration, including analog test site activities.</i> <i>Moderator: Mark Nall, NASA Marshall Space Flight Center</i> <i>Panelists: Clive Neal, University of Notre Dame</i> <i>Alex Hall, Google Lunar X-Prize</i> <i>Kuniaki Shiraki, Japan Aerospace Exploration Agency (JAXA)</i> <i>Bob Richards, Moon Express - GLXP</i> <i>Jerry Sanders, NASA Johnson Space Center</i>
	12:00 - 1:30	Lunch <i>Kona V</i> <i>Guest Speaker: Ms. Alex Hall</i> <i>Senior Director, Google Lunar X-Prize</i> <i>Topic: The Google Lunar X PRIZE –</i> <i>Making Commercial Lunar Exploration a Reality</i>
	1:30 - 3:15	<u>PLENARY SESSION II</u> <i>Kona IV</i> Panel Presentation: <i>The ILRP Terrestrial Prototype - Form, Function & Build-Out</i> <i>Key Topics: Goals/approach; elements of the terrestrial prototype; timeline; support from the ILRP consortium.</i> <i>Moderator: John Hamilton, PISCES</i> <i>Panelists: Dan Rasky, NASA Space Portal</i> <i>Robert Kelso, NASA Johnson Space Center</i> <i>Shigeru Aoki, Shimizu Corporation</i> <i>Dale Boucher, NORCAT</i> <i>Mitsuru Ohnishi, Japan Aerospace Exploration Agency (JAXA)</i> <i>Bill Larson, NASA Kennedy Space Center</i> <i>Tetsuji Yoshida, CSP Japan, Inc.</i>

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Date	Time	Event
Nov. 14	3:15 - 3:30	Refreshment Break <i>Kona Promenade</i>
	3:30 - 5:15	<u>PLENARY SESSION III</u> <i>Kona IV</i> Panel Presentation: <i>Building Strategic Alliances for Implementation</i> <i>Key Topics: Engaging government/industry/academia, making it massively participatory, multinational partnerships.</i> <i>Moderator:</i> Michael Marlaire, NASA Research Park <i>Panelists:</i> Mark Spence, Hawaiian Airlines Jack Fox, NASA Kennedy Space Center Bruce Pittman, NASA Space Portal Christian Anderson, PISCES Maki Niihori, Japan Aerospace Exploration Agency (JAXA) Joe Ferraro, Ferraro Choi and Associates, Ltd. David Heck, The Boeing Company
	5:15 - 6:30	<i>Open Time</i>
	6:30 - 9:00	Networking Reception/Dinner <i>Kona Promenade/Kona V</i> <i>Guest Speaker:</i> Mr. Robert Kelso <i>Manager, Lunar Commercial Services</i> <i>NASA Johnson Space Center</i> <i>Topic: ISRU as an Integrating Theme for an ILRP</i>

Date	Time	Event
Nov. 15 (Tuesday)	7:30 - 8:30	Registration / Continental Breakfast <i>Waikoloa Promenade / Lagoon Lanai</i>
	8:30 - 10:00	<u>PLENARY SESSION IV</u> <i>Kona IV</i> Panel Presentation: <i>Establishing the Value Proposition</i> <i>Key Topics: Discussion of ILRP Value Proposition elements, including defining the customer base and its perceived unmet needs; unique products and services offering; economic and societal benefits; etc.</i> <i>Moderator:</i> Dan Bland, JAMSS America Inc. <i>Panelists:</i> Lynn Harper, NASA Space Portal Henk Rogers, Avatar Reality Inc. Elaine Thorndike, Colorado Assoc. for Manufacturing & Technology Chris Pestak, Battelle Memorial Institute Frank Schowengerdt, PISCES Larry Clark, Lockheed Martin Space Systems Dallas Bienhoff, Advanced Space Programs
	10:00 - 10:15	Refreshment Break <i>Kona Promenade</i>
	10:15 - 12:00	<u>PLENARY SESSION V</u> <i>Kona IV</i> Panel Presentation: <i>International Perspectives on Space Exploration</i> <i>Moderator:</i> Dr. Osamu Odawara, Tokyo Institute of Technology <i>Panelists:</i> Dr. Kuniaki Shiraki <i>Special Counselor, Human Space Systems & Utilization Directorate & Former Executive Director - Japan Aerospace Exploration Agency (JAXA)</i> Topic: <i>JAXA's Vision for Space Exploration</i> Dr. Zhumabek Zhantayev <i>President, National Space Agency of the Republic of Kazakhstan</i> Topic: <i>Present Activities and Future Plans for Kazcosmos</i> Mr. Susumu Yoshitomi <i>Special Counselor, Japan Space Forum</i> Topic: <i>JAXA Leadership of the Asia-Pacific Regional Space Agency Forum (APRSAF)</i> Ms. Julie Rottier <i>Foreign Affairs Officer, U.S. Department of State</i> <i>U.S. Rep., U.N. Committee on the Peaceful Uses of Outer Space</i> Topic: <i>Perspectives from COPUOS</i>

Date	Time	Event
Nov. 15	12:00 - 1:30	Lunch <i>Kona V</i> Guest Speaker: Mr. Raymond French <i>Integration Manager, Lunar Mapping & Modeling Project</i> <i>NASA Marshall Space Flight Center</i> Topic: <i>Lunar Mapping and Modeling – Your Portal to the Moon</i>
		<u>WORKING GROUP SESSIONS: PROTOTYPE DEVELOPMENT</u> <i>The purpose of each working group session is to address specifics concerning “how” the ILRP prototype could be developed, with an emphasis on creating and selling the value proposition (e.g., refining requirements; expanding participation; leveraging commonalities; formulating cost-effective and sustainable implementation strategies; facilitating cooperative utilization; marketing to governments, industry and academia).</i>
	1:30 - 3:15	<u>WORKING GROUP SESSION 1</u> WG1: Red Team (Kona IV) Focus: Scientific research, technology prototyping and support infrastructure. Co-Leads: Dan Rasky, Bill Larson WG2: Green Team (Kona I) Focus: Education and community outreach. Co-Leads: John Hamilton, Henk Rogers WG3: Blue Team (Kona II & III) Focus: International/public-private partnerships and related business/marketing/funding strategies. Co-Leads: Michael Marlaire, Chris Pestak
	3:15 - 6:30	<i>Open Time</i>
	3:30 - 5:30	PISCES Advisory Board Meeting <i>Kona I</i>
	6:30 - 9:00	Networking Reception/Dinner <i>Kona Promenade/Kona V</i> Guest Speaker: Dr. S. Alan Stern <i>Director, Florida Space Institute - Kennedy Space Center</i> <i>Chief Scientist, Moon Express</i> Topic: <i>Lunar Exploration and Utilization – Version 2.0</i>

Date	Time	Event
Nov. 16 (Wednesday)	7:30 - 8:30	Registration / Continental Breakfast <i>Waikoloa Promenade / Lagoon Lanai</i>
	8:30 - 10:15	<u>WORKING GROUP SESSION 2</u> WG1: <i>Red Team (Kona IV)</i> Focus: Scientific research, technology prototyping and support infrastructure. Co-Leads: Dan Rasky, Bill Larson WG2: <i>Green Team (Kona I)</i> Focus: Education and community outreach. Co-Leads: John Hamilton, Henk Rogers WG3: <i>Blue Team (Kona II & III)</i> Focus: International/public-private partnerships and related business/marketing/funding strategies. Co-Leads: Michael Marlaire, Chris Pestak
	10:15 - 10:30	Refreshment Break <i>Kona Promenade</i>
	10:30 - 12:00	<u>WORKING GROUP SESSION 3</u> WG1: <i>Red Team (Kona IV)</i> Focus: Scientific research, technology prototyping and support infrastructure. Co-Leads: Dan Rasky, Bill Larson WG2: <i>Green Team (Kona I)</i> Focus: Education and community outreach. Co-Leads: John Hamilton, Henk Rogers WG3: <i>Blue Team (Kona II & III)</i> Focus: International/public-private partnerships and related business/marketing/funding strategies. Co-Leads: Michael Marlaire, Chris Pestak
	12:00 - 1:30	Lunch <i>Kona V</i> Guest Speakers: Dr. Daniel Rasky <i>Director, NASA Space Portal</i> Mr. Bruce Pittman <i>Chair, AIAA Commercial Space Group</i> Topic: <i>Public-Private Partnerships as Portals to the Future</i>

Date	Time	Event
Nov. 16	1:30 - 3:15	<u>WORKING GROUP SESSION 4</u> WG1: <i>Red Team (Kona IV)</i> Focus: Scientific research, technology prototyping and support infrastructure. Co-Leads: Dan Rasky, Bill Larson WG2: <i>Green Team (Kona I)</i> Focus: Education and community outreach. Co-Leads: John Hamilton, Henk Rogers WG3: <i>Blue Team (Kona II & III)</i> Focus: International/public-private partnerships and related business/marketing/funding strategies. Co-Leads: Michael Marlaire, Chris Pestak
	3:15 - 3:30	Refreshment Break <i>Kona Promenade</i>
	3:30 - 4:30	Special Presentation <i>Kona IV</i> Guest Speaker: Mr. Jon Lomborg <i>International Space Artist</i> <i>Reaching for the Cosmos: The Legacy of Carl Sagan & Galaxy Garden</i>
	4:30 - 6:30	<i>Open Time</i>
	6:30 - 9:00	Networking Reception/Dinner <i>Kona Promenade/Kona V</i> Guest Speaker: Astronaut Kimiya Yui <i>JAXA Astronaut Group/NASA Astronaut Office-JSC</i> Topic: <i>The Moon Challenge</i>

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Date	Time	Event
Nov. 17 (Thursday)	7:30 - 8:30	Registration / Continental Breakfast <i>Waikoloa Promenade / Lagoon Lanai</i>
		<u>PLENARY SESSION VI</u> <i>Kona IV</i>
	8:30 - 10:00	Integration of Working Group Recommendations <i>Reports from Working Group facilitators on individual group sessions, followed by an open discussion to consolidate the recommendations from all working groups into the ILRP Strategic Plan.</i> Moderator: Dr. Frank Schowengerdt <i>Director, PISCES</i>
	10:00 - 11:45	Post-Summit Coordination Meeting <i>Kona IV</i>
	12:00 - 1:30	Lunch <i>Kona V</i> Guest Speaker: Mr. Dennis Wingo <i>CEO, SkyCorp</i> Topic: <i>The Philosophy of the Economic Development of the Solar System – How Hawaii can help Lead the Way</i>
		<u>CLOSING CEREMONIES</u> <i>Kona IV</i>
	1:30 - 2:00	Advisory Committee Report Dr. Frank Schowengerdt <i>Director, PISCES</i>
	2:00 - 3:00	Next Steps in Implementing the ILRP Terrestrial Prototype <i>Open Delegate Discussion</i>
	3:00 - 5:00	<i>Open Time</i>
	5:00 - 9:30	Sunset Dinner <i>Buddha Point</i>
		Summit Concludes