



2008 JUSTSAP - PISCES Symposium

“Pioneering Multinational Pathways to Space”

*Hilton Waikoloa Village
Kohala Coast, Island of Hawaii
November 9 - 13, 2008*

Date	Time	Event
Nov. 9 (Sunday)		<u>Pre-Symposium Activities</u>
	13:00 – 18:00	Delegate Registration <i>Waikoloa Promenade</i>
	15:00 – 17:30	JUSTSAP Steering Committee Meeting I <i>Kona 4</i>
	18:30 – 20:00	Delegate Reception <i>Grand Staircase</i>
Nov. 10 (Monday)	7:30 – 15:00	Delegate Registration <i>Waikoloa Promenade</i>
	7:30 – 8:30	Continental Breakfast <i>Water's Edge Ballroom</i>
		<u>OPENING CEREMONIES</u> <i>Kona 4 & 5</i>
	8:30 – 8:45	Welcome - <i>Ho'okipa I Ka Malihini</i> Mark McGuffie, <i>Executive Director</i> <i>Hawaii Island Economic Development Board</i> Rose Tseng, <i>Chancellor</i> <i>University of Hawaii at Hilo</i> Ted Liu, <i>Director</i> <i>Dept. of Business, Economic Development & Tourism - State of Hawaii</i>
	8:45 – 8:50	<i>Kulia i ka Lani – Hawaii's Rendezvous with Space</i> The Honorable James “Duke” Aiona, Jr. <i>Lt. Governor of Hawaii</i>
	8:50 – 9:10	JUSTSAP: The Year in Review Osamu Odawara, <i>Japan Vice-Chairman - JUSTSAP</i> Frank Schowengerdt, <i>U.S. Vice-Chairman - JUSTSAP</i>

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Date	Time	Event
Nov. 10	9:10 – 9:30	Chairman’s Report: <i>Expanding JUSTSAP’s International Potential</i> Stephen Day, <i>Chairman - JUSTSAP</i>
	9:30 – 9:50	JUSTSAP as a Catalyst for Innovation in Aerospace The Honorable George R. Ariyoshi <i>Former Governor of the State of Hawaii</i> <i>U.S. Advisor – JUSTSAP</i>
	9:50 – 10:00	Symposium Agenda & Logistics Jim Crisafulli, <i>Executive Director</i> <i>JUSTSAP Secretariat</i>
	10:00 – 10:20	Refreshments & Group Photo Session <i>Kona Promenade</i>
	10:20 – 11:00	JUSTSAP Project Team Visions & Goals Pacific International Space Center for Exploration Systems Frank Schowengerdt, <i>PISCES Director - UH Hilo</i> Robert Fox, <i>PISCES Deputy Director - UH Hilo</i> Space-Based Energy Systems John Mankins, <i>CEO - ARTEMIS Innovation Management Solutions</i> Nobuyuki Kaya, <i>Professor of Engineering - Kobe University</i> Commercial Utilization of the International Space Station Paul Eckert, <i>International Strategist - The Boeing Company</i> Alex Ignatiev, <i>Director - Center for Advanced Materials, U. of Houston</i> Robotic Precursor Missions Doug Craig, <i>Manager - Ground Analog Program - NASA HQ</i> Tetsuji Yoshida, <i>Senior Manager - Shimizu Corporation</i>
	11:00 – 11:15	<i>Celebrating NASA’s 50th Anniversary</i> <i>(Video Presentation)</i>
	11:15 – 12:00	Keynote Address: <i>Pioneering the Space Frontier – The Next 50 Years</i> Peter Worden, <i>Director</i> <i>NASA Ames Research Center</i>
	12:00 – 13:15	Luncheon (Host: U.S. Secretariat) <i>Kohala 1 & 2</i> Speaker: Chuck Smith, <i>Chief - Space Technology Division</i> <i>NASA Ames Research Center</i> Topic: <i>Why the Moon? Scientific and Commercial Opportunities</i> <i>in the 21st Century</i>

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Date	Time	Event
Nov. 10	13:30 – 15:30	<u>PISCES PLENARY I: Strategic Planning</u> <i>Kona 4 & 5</i>
		PISCES Progress Report & Strategic Plan Overview Frank Schowengerdt, <i>Director - PISCES</i>
		Higher Education Program Robert Fox, <i>Deputy Director - PISCES</i>
		ISRU Program & Simulated Lunar Outpost Michael Duke, <i>Chief Lunar Scientist - PISCES</i>
		Robotics Program Neville Marzwell, <i>Technology Innovations Manager - NASA JPL</i>
		Facilities, Fundraising & Business Operations Frank Schowengerdt, <i>Director - PISCES</i>
	15:30 – 15:45	Refreshment Break <i>Kona Promenade</i>
	15:45 – 17:30	<u>PISCES PLENARY I (continued)</u>
		Education & Outreach Program Beth McKnight, <i>Education & Outreach Coordinator - PISCES</i>
		PISCES Cultural Advisory Council Ahia Dye, <i>Council Member</i>
UH Hilo College of Agriculture Collaboration Bill Steiner, <i>Dean of the College of Agriculture - UH Hilo</i>		
	Colorado School of Mines Collaboration Frank Schowengerdt, <i>Director - PISCES</i>	
18:30 – 21:00	Reception & Dinner (Host: U.S. Secretariat) <i>Water's Edge Ballroom</i>	
Nov. 11 (Tuesday)	7:30 – 8:30	Continental Breakfast <i>Water's Edge Ballroom</i>
	8:30 – 10:00	<u>Project Team Meetings</u> <ul style="list-style-type: none">• Robotic Precursor Missions to the Moon and Mars <i>Kona 1</i>• ISS Commercial Utilization <i>Kona 2</i>• Space-Based Energy Systems <i>Kona 3</i>

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Date	Time	Event
Nov. 11	10:00 – 10:15	Refreshment Break <i>Kona Promenade</i>
	10:15 – 12:00	<u>Project Team Meetings</u> <ul style="list-style-type: none">• Robotic Precursor Missions to the Moon and Mars <i>Kona 1</i>• ISS Commercial Utilization <i>Kona 2</i>• Space-Based Energy Systems <i>Kona 3</i>
	12:00 – 13:30	Luncheon (Host: Japan JUSTSAP Association) <i>Kohala 1 & 2</i> Speaker: Kazuya Suzuki, <i>President</i> <i>Sanritz Automation Company Ltd.</i> Topic: <i>Tele-Robotics Demonstration (rover teleoperation)</i>
		<u>PISCES PLENARY II: NASA Day Forum</u> <i>Kona 4 & 5</i>
	13:30 – 14:00	Keynote Address: Innovating Space Partnerships Doug Comstock, <i>Director</i> <i>Innovative Partnership Program - NASA Headquarters</i>
	14:00 – 15:00	NASA's Advanced Technology/Ground Analog Programs Doug Craig, <i>Manager</i> <i>Ground Analog Program - NASA Headquarters</i>
	15:00 – 15:30	NASA's Ongoing Field Tests at PISCES Bill Larson, <i>Chief</i> <i>Applied Sciences Division- NASA Kennedy Space Center</i>
	15:30 – 15:45	Refreshment Break <i>Kona Promenade</i>
	15:30 – 17:00	<u>Student Design Competition</u> Mike Duke, <i>Design Competition Coordinator</i> <i>(Presentations and Exhibits by Winning Teams)</i>
	18:30 – 21:00	Reception & Dinner (Host: JUSTSAP Japan Association) <i>Lagoon Lanai</i>

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Date	Time	Event
Nov. 12 (Wednesday)	7:30 – 8:30	Continental Breakfast <i>Water's Edge Ballroom</i>
	8:30 – 10:00	<u>Project Team Meetings</u> <ul style="list-style-type: none">• Robotic Precursor Missions to the Moon and Mars <i>Kona 1</i>• ISS Commercial Utilization <i>Kona 2</i>• Space-Based Energy Systems <i>Kona 3</i>
	10:00 – 10:15	Refreshment Break <i>Kona Promenade</i>
	10:15 – 12:00	<u>Project Team Meetings</u> <ul style="list-style-type: none">• Robotic Precursor Missions to the Moon and Mars <i>Kona 1</i>• ISS Commercial Utilization <i>Kona 2</i>• Space-Based Energy Systems <i>Kona 3</i>
	12:00 – 13:30	Luncheon (Host: U.S. Secretariat) <i>Kohala 1 & 2</i> Speaker: Steve Heard, <i>Executive Producer</i> <i>The Futures Channel</i> Topic: <i>Special Screening – New Futures Channel Documentary on Space-Based Solar Power</i>
		<u>PISCES PLENARY III: Industry Day Forum</u> <i>Kona 4 & 5</i> <i>(companies w invited to display exhibits and/or demonstrations on the periphery of the plenary room)</i>
	13:30 – 14:00	Keynote: The Role of Industry in Space Exploration David Logsdon, <i>Executive Director</i> <i>Space Enterprise Council - U.S. Chamber of Commerce</i>
Nov. 12	14:00 – 15:30	Industry Panel: <i>A Unique Lunar Equipment Testbed –</i>

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Date	Time	Event
		Near-Term Industry Uses for PISCES
		Introduction Paul Eckert, <i>International Strategist</i> <i>The Boeing Company</i>
		Panelists: Bob Richards, <i>CEO</i> <i>Odyssey Moon</i> John Kohut, <i>CEO</i> <i>Astrobotic Technology, Inc.</i> Larry Clark, <i>Manager</i> <i>Spacecraft Technology Development - Lockheed Martin</i> Ed Banas, <i>Manufacturing Manager</i> <i>Honeywell</i>
	15:30 – 15:45	Refreshment Break <i>Kona Promenade</i>
	15:45 – 17:30	International Industry Panel: Commercial Technologies with Terrestrial and Extra-Terrestrial Applications
		Introduction Dan Bland, <i>President</i> <i>JAMSS America</i>
		Panelists: Taber MacCallum, <i>CEO</i> <i>Paragon Space Development Corporation</i> Bart Thompson, <i>Innovation Engineer</i> <i>Michelin Tire Company</i> Michael Kearney, <i>Senior Consultant/Advisor</i> <i>MacDonald Dettwiler and Associates, Inc. Federal Corporation</i> Kazuya Suzuki, <i>President</i> <i>Sanritz Automation Company Ltd.</i>
	18:30 – 21:00	Reception & Dinner (Host: U.S. Secretariat) <i>Water's Edge Ballroom</i> Speakers: John Mankins, <i>President</i> <i>ARTEMIS Innovation Management Solutions LLC</i> Nobuyuki Kaya, <i>Professor of Engineering</i> <i>Kobe University</i> Topic: <i>Space Solar Power as a Renewable Energy Resource</i>
Nov. 13 (Thursday)	7:00 – 8:00	Continental Breakfast <i>Water's Edge Ballroom</i>

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Date	Time	Event
	8:00 – 10:00	<u>Project Team Meetings</u> <ul style="list-style-type: none">• Robotic Precursor Missions to the Moon and Mars <i>Kona 1</i>• ISS Commercial Utilization <i>Kona 2</i>• Space-Based Energy Systems <i>Kona 3</i>
	10:00 – 10:15	Refreshment Break <i>Kona Promenade</i>
	10:15 – 12:00	<u>Project Team Meetings</u> <ul style="list-style-type: none">• Robotic Precursor Missions to the Moon and Mars <i>Kona 1</i>• ISS Commercial Utilization <i>Kona 2</i>• Space-Based Energy Systems <i>Kona 3</i>
	12:00 – 13:00	Luncheon (Host: U.S. Secretariat) <i>Kohala 1 & 2</i> Speaker: Ryutaro Suzuki, <i>Group Manager</i> <i>National Institute of Information and</i> <i>Communications Technology (NICT)</i> Topic: <i>Recent Activity on Space Communications Projects</i> <i>ETS-VIII, WINDS, and STICS</i>
	13:00 – 15:30	JUSTSAP Steering Committee Meeting II <i>Kohala 3</i>
		<u>CLOSING PLENARY</u> <i>Kona 4 & 5</i>
	15:30 – 16:10	Project Team Reports <ul style="list-style-type: none">• Pacific International Space Center for Exploration Systems (PISCES)• Robotic Precursor Missions to the Moon and Mars• ISS Commercial Utilization• Space-Based Energy Systems
Nov. 13	16:10 – 16:25	Steering Committee Report Mr. Stephen Day, <i>Steering Committee Chairman</i>

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Date	Time	Event
	16:25 – 16:45	Annual JUSTSAP Awards <ul style="list-style-type: none">• <i>Outstanding Sustained Service Awards – Individual</i>• <i>Outstanding Sustained Service Awards – Team</i>• <i>Outstanding Sustained Service Awards – Institutional</i>• <i>Burton I. Edelson Memorial Awards for Distinguished Service</i>• <i>The Space Exploration Pioneer Award</i>
	16:45 – 17:00	Next Steps and Concluding Remarks <i>JUSTSAP Chairman</i>
	18:00 – 21:00	Closing Dinner (Host: U.S. Secretariat) <i>Buddha's Point & Ocean View Terrace</i> <i>International Clam Bake by the Sea (clams provided)</i>