

Theme: Delivering on the Promise of Spaceflight for Mankind

agenda as of 10.19.09, [pdf version of agenda](#)

Tuesday - October 20, 2009

8:30 am -12:00 (noon) Leonard R. Sugerman Public Forum - free, open to the public
Sponsored by: [Wilson Binkley Advertising & Marketing](#)

FastForward Study Group Meeting – by invitation only

Commercial Spaceflight Federation Spaceports Executive Summit - by invitation only

White Sands Test Facility Workshop - registration required

5:30 pm -7:00 pm President's Reception- by invitation only
Sponsored by: [Arrowhead Center and Arrowhead Development Company, LLC](#)

7:00pm - 9:00pm Opening Reception and Registration at Hotel Encanto de Las Cruces
(light hors d'oeuvres)
Sponsored by: [Mesilla Valley Economic Development \(MVEDA\)](#)

Wednesday - October 21, 2009

7:30 am Registration and Breakfast
Sponsored by: [NMSU Physical Science Lab](#)

8:30 am Welcome Remarks
Pat Hynes, ISPCS Chair

8:45 am Keynote Speaker
Gary Payton, Deputy UnderSecretary of the Air Force, Space Systems
[Sponsored by: Air Force Research Lab \(AFRL\)](#)

9:30 am Break
[Sponsored by: CALCULEX](#)

10:00 am Flight Safety: Lessons Learned and Opportunities for Innovation
An examination of the relevant NASA mission experiences and discussion on opportunities for the next generation of commercial space companies.
Chair: Wayne Hale, Deputy Associate Administrator for Strategic Partnerships, NASA
Speakers:

- Ken Bowersox, Vice President of Astronaut Safety and Mission Assurance, SpaceX
- Bryan D. O'Connor, Chief, Safety and Mission Assurance, NASA
- Brian Duffy, Vice President and Program Manager, Altair - Lunar Lander, Lockheed Martin Space Systems Company

[Sponsored by: Lockheed Martin](#)

11:00 am Space Operations: Lessons Learned and Opportunities for Innovation
The panel presentations are aimed at discussing lessons learned that can be used to help spark innovations that help commercial human space operations companies reduce risk, become more effective, and/or lower lifecycle cost.

	<p>Chair: James Van Laak, Deputy Associate Administrator for Space Transportation, FAA</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Gerald Miller, Director, IR&D, United Space Alliance • Julia Tizard, Operations Manager, Virgin Galactic • Steve Landeene, Executive Director, New Mexico Spaceport Authority • James M. Heflin, Associate Director (Technical), NASA Johnson Space Center • Frank Culbertson, Senior Vice President of Advanced Programs, Orbital Sciences <p>Sponsored by: Spaceport Sweden</p>
12:00 (noon)	<p>Lunch</p> <p>Sponsored by: Gerald Martin General Contractor & Hot Springs Land Development, LLC</p>
1:30 pm	<p>Personal Spaceflight – What to Expect</p> <p>Astronauts, space pilots, and explorers draw on experiences to explore how commercial companies will deal with establishing and managing human spaceflight.</p> <p>Chair: Michael Lopez-Alegria, Assistant Director for ISS, Flight Crew Operations Directorate, Johnson Space Center</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Richard T. Jennings, M.D., M.S. Program Director, The University of Texas Medical Branch • Anousheh Ansari, CEO & Co-Founder, Prodea Systems • John Marcellus, MD, Greater Houston Psychiatric Associates, PLLC • Julia Tizard, Operations Manager, Virgin Galactic <p>Sponsored by: OverView Research</p>
2:30 pm	<p>Survey Results on Commercial Human Spaceflight</p> <p>This survey, a joint effort of Space News and The Tauri Group, provides insight into public opinion about personal spaceflight and allows for comparisons between the space community and other communities.</p> <p>Bill Klanke, Vice President and Publisher, <i>Space News</i> Carissa Christensen, Managing Partner, The Tauri Group</p> <p>Sponsored by: Space News</p>
3:00 pm	<p>Augustine Committee Review of Manned Space Flight at NASA</p> <p>A member of the committee summarizes its findings and recommendations about how the United States should fund human space flight operations in the coming years.</p> <p>Jeff Greason, CEO, XCOR Aerospace</p> <p>Sponsored by: Village of Hatch</p>
3:30 pm	<p>Break</p> <p>Sponsored by: The Boeing Company</p>
4:00 pm	<p>University Aerospace Research Programs as Enablers of Growth of Commercial Space</p>

In the past decades as commercial space has expanded and shows promise for viability, there is a need to increase interactions between technical developers and universities. The technical challenges include materials development, health monitoring, flight control, reliability over extended use, and hypersonics, to name a few. There is a lot of basic and applied research that is needed. The panel will seek to identify technical areas for joint projects and examine desirable scenarios for funding of such research.

Chair: Tom Burton, Department Head, Mechanical and Aerospace Engineering - New Mexico State University

Speakers:

- Mark Sirangelo, Vice President, Sierra Nevada Corporation
- Bruce Pittman, Director, Flight Project at the Space Portal, NASA Ames Research Center
- Peggy Morse, Director, Strategic Missile Systems, Boeing Integrated Defense Systems

Sponsored by: El Paso Electric

5:30 pm Reception at Hotel Encanto de Las Cruces

Sponsored by: AIAA- American Institute of Aeronautics and Astronautics

7:00 pm Dinner at Hotel Encanto de Las Cruces

Sponsored by: New Mexico Spaceport Authority

8:30 pm - 10:30 pm After Hours Hospitality at Hotel Encanto de Las Cruces

Sponsored by: Las Cruces Convention and Visitors Bureau and City of Las Cruces

Thursday - October 22, 2009

7:30 am Breakfast

Sponsored by: Las Cruces Bulletin

8:30 am Welcome Back

Pat Hynes, ISPCS Chair

8:45 am Keynote Speaker

Dan Bjork, Director, Market and Sales, Ice Hotel

Sponsored by: Hotel Encanto de Las Cruces

9:30 am The Suborbital Future Beyond Tourism: The Research and Education Market

We are on the verge of a revolution fielding several different suborbital human spaceflight systems in the coming 24 months, including Blue Origin's New Shepard, Virgin Galactic's Spaceship2, and XCOR's Lynx. Each offers the capability to fly multiple humans to altitudes of 70-140 km on a frequent (daily to weekly) basis for a per-seat launch cost that is approximately an order of magnitude less expensive than robotic suborbital launches in recent years.

In addition to their space tourism role, these suborbital vehicles are intended to carry out research as well. Research applications include, but are not limited to: microgravity sciences, space life sciences, Earth and space sciences, land use, education and public outreach (EPO), technology development and demonstration/space systems development and demonstrations (including TRL raising).

The panelists in this session represent a variety of research disciplines with broad applications to suborbital flight. These distinguished panelists are uniquely qualified to discuss the current state and future of suborbital research using these new human flight human flight systems. Following opening remarks by the moderator, each panelist will make brief remarks summarizing some of the applications they envision for these new generation vehicles. This will be followed by a moderated discussion. There will then be 15–20 minutes at the end for audience questions.

Chair: Alan Stern, former NASA Associate Administrator for Space and Earth Science

Speakers:

- Josh Colwell – Assistant Professor, Physics Department, University of Central Florida
- Steven Collicott – Professor, Aeronautics and Astronautics Department, Purdue University
- Larry Paxton– Head, Atmospheric Effects, Johns Hopkins Applied Physics Laboratory
- Erika Wagner– Executive Director, X PRIZE Lab @ MIT

Sponsored by: EADS Astrium

**10:30
am**

Break

Sponsored by: Milagro Coffee

**11:00
am**

Small Satellites for Orbital and Sub-Orbital Applications

An examination of the opportunities for research, technology demonstrations, and defense applications created by the development of smaller, low-cost satellites that can be launched on the emerging and existing launch systems.

Chair: Clay Mowry, President, Arianespace, Inc.

Speakers:

- John Paffett, Chief Executive Officer, Surrey Satellite Technology
- Mark Reavis, Deputy Project Director, Responsive Space Project Office (RSPO) PEO Missiles and Space Office, Department of the Army
- Jordi Puig-Suari, Professor, Aerospace Engineering, CalPoly
- Colonel Yvonne Cagle, MD, Program Manager, Commercial Suborbital Research Program

Sponsored by: Mesilla Valley Economic Development Alliance (MVEDA)

**12:00
(noon)**

Lunch

Lori Garver, Deputy Administrator, National Aeronautics and Space Administration

Sponsored by: Space Foundation

1:30 pm

Launch Vehicle Options for Future Operators in the Sub-Orbital Environment

A look at how a variety of launch vehicles and systems, both manned and unmanned, will provide the means of getting both humans and cargo into space.

Chair: Marshall Kaplan, Ph.D., Space Department - Applied Physics Laboratory, Johns Hopkins University

Speakers:

- Andrew Nelson, Chief Operating Officer, XCOR, Inc.
- Russ Blink, Engineer/co-Founder, Armadillo Aerospace
- Hugues LAPORTE-WEYWADA, Senior Vice President, EADS Astrium

Sponsored by: New Mexico Space Grant Consortium

2:30 pm Unique Capabilities in New Mexico for RLV and Payload Processing

Panel will also address recertification for flight in short term periods.

Chair: Keith Beck, General Manager, Jacobs Technology

Speakers:

- Phil Copeland, Division Manager, Physical Science Lab, NMSU
- Frank Benz, Manager, NASA White Sands Test Facility
- Barry Newton, VP Research & Development, Wendell Hull & Associates Inc.
- Don Kirchner, Research Engineer, University of Iowa
- Todd Neill, Chief /Project Engineers, Aerojet-General Corporation

Sponsored by: Jacobs Technology

3:30 pm Break

Sponsored by: Spaceport America Consultants, Inc

4:00 pm Spaceports Investments to Enable Commercial Spaceflight

Customers and spaceports are developing infrastructure and attracting investors to further low cost access for human and commercial spaceflight.

Chair: Steve Landeene, Executive Director, New Mexico Spaceport Authority

Speakers:

- Bengt Jaegtnes, Vice President, Spaceport Sweden
- Allison Odyssey, Manager, Engineering & Safety, Space Florida
- Clay Mowry, President, Arianespace
- Lee Rand, Partner, Sun Mountain Capital

Sponsored by: New Mexico Spaceport Authority

5:00 pm Closing

Pat Hynes, ISPCS Chair

Friday - October 23, 2009

Spaceport America Tour- registration required