



**Federal Aviation
Administration**

15th Annual FAA Commercial Space Transportation Conference

15–16 February 2012

Walter E. Washington Convention Center

Washington, DC

Co-sponsored by AIAA

CONFERENCE PROGRAM

As of 2/14/2012

Wednesday, 15 February 2012

0830 hrs

Room 145

Opening Remarks

Speaker: Dr. George C. Nield, Associate Administrator for Commercial Space Transportation
Federal Aviation Administration (FAA)

0900 hrs

Room 145

Special Presentation

Speaker: The Honorable Robert McDonnell, Governor of Virginia

0930 hrs

Room 145

Keynote Speaker

Speaker: William Gerstenmaier, Associate Administrator for Human Exploration and Operations,
National Aeronautics and Space Administration (NASA)

1000 hrs

Foyer

Networking Coffee Break

Sponsored by Virgin Galactic

1030 hrs**CONCURRENT SESSIONS****Room 145****Ranges of the Future**

The canvas of the commercial space transportation industry is changing as a result of the retirement of the Space Shuttle and the charge for commercial industry to pick up these traditionally government missions as well as the curiosity and excitement of the public that fuel the space tourism industry. Ranges in the future will need to account for the needs of this changing industry. This panel will seek to define some of the needs of this changing industry and range capabilities from the perspective of both the government and industry stake holders.

Moderator: Pamela Underwood, Aerospace Engineer, FAA Office of Commercial Space Transportation, Patrick AFB, FL

Panelists:

- Steven Davis, Director of Advanced Projects, Space Exploration Technologies Corporation (SpaceX), Cape Canaveral, FL
- John Kelley, Launch Services Program Executive, NASA, Washington, DC
- Michael Moses, Vice President of Operations, Virgin Galactic, Pasadena, CA
- Col. Rob Uemura, Chief, Current Space Operations (AF/A3Z-SO), Washington, DC
- Mike Leinbach, Director, Human Spaceflight Operations, United Launch Alliance, Denver, CO

Room 147A**The Tipping Point**

This panel will investigate the origins, applicability, target customers and supporting actions of "the tipping point" as applied to the emerging commercial space transportation industry.

Moderator: Ken Davidian, Director of Research, FAA Office of Commercial Space Transportation

Panelists:

- Mary Lynne Dittmar, President, Dittmar Associates, Houston, TX
- George Whitesides, President and CEO, Virgin Galactic, Mojave, CA
- Zoe Szajnfarder, Assistant Professor of Engineering Management and Systems Engineering, George Washington University, Washington, DC
- Alex Saltman, Executive Director, Commercial Spaceflight Federation, Washington, DC

1200 hrs**Room 146****Luncheon****Sponsored by The Boeing Company**

Featured Speaker: John P. Mulholland, Vice President and Program Manager, Commercial Crew Programs, Space Exploration, The Boeing Company, Houston, TX

1330 hrs**Break**

1345 hrs

CONCURRENT SESSIONS

Room 145

Minority Space Entrepreneurship

Minority space entrepreneurs discuss their companies' space-related endeavors and their contributions to the overall success of U.S. commercial space transportation. Panel members will provide their views and insights on how minority entrepreneurs in the U.S. can leverage their skills and capabilities to become a greater part of what is expected to become a trillion dollar industry.

Moderator: Ken Harvey, President and CEO, JAKA Consulting Group, Reston, VA

Co-Moderator: Kelvin Coleman Senior Advisor for Space Transportation Development, FAA Office of Commercial Space Transportation

Introductory Remarks: Hon. Chaka Fattah (D-Pa.) U.S. House of Representatives

Panelists:

- Jafus Doswell, President and CEO, JUXTOPIA Group Baltimore, MD
- Joseph Fuller, President and CEO, Futron Corporation, Bethesda, MD
- Allen Herbert, President and CEO, Phezu Space, LLC, Baltimore, MD

Room 147A

Understanding the Space Environment: What the Launch Operator Should Know About Space Weather

Space weather—the charged particles and radiation from the Sun and other sources—affects us all, even on the ground. As we approach solar maximum, we will see more frequent impacts on navigation, communication, and spacecraft in orbit due to increased solar storms and disturbances in the ionosphere. Here we take a look at the types of space weather events that can occur and learn what tools are available to the launch operator to determine the state of the space environment.

Moderator: Karen Shelton-Mur, Aerospace Engineer/Natural Environments, FAA Office of Commercial Space Transportation

Panelists:

- Joe Mazur, Associate Director, The Aerospace Corporation, Chantilly, VA
- Bob Rutledge, Chief, Space Weather Forecast Office, NOAA/SWPC, Boulder, CO
- Ron Turner, Fellow, Analytic Services Incorporated, Arlington, VA
- John R. Allen, Program Executive, Crew Health and Safety, NASA Headquarters, Washington, DC

1515 hrs

Foyer

Networking Coffee Break

Sponsored by Virgin Galactic

[1545 hrs](#)

CONCURRENT SESSIONS

Room 145

A Step Farther Out

This session will include a discussion about the latest developments in potential future drivers of demand for commercial launch services, such as solar power satellites, active orbital debris removal, orbital tourism, and on-orbit propellant storage and transfer.

Moderator: Nick Demidovich, Project Manager, Emerging Technologies, Office of Commercial Space Transportation

Panelists:

- Jerome Pearson, President, Star Technology and Research, Inc., Mount Pleasant, SC
- Ajay Kothari, President and CEO, Astrox Corporation, College Park, MD
- Charles Miller, President, NextGen Space LLC
- Jerome Pearson, President, Star Technology and Research, Inc., Mount Pleasant, SC
- Paul Jaffe, Systems Integration Section Head, Naval Research Laboratory, Washington, DC

Room 147A

Training for Safety

How does training of commercial launch crews and support personnel enhance safety? Discussion of initial training, continuing training, and proficiency exercises. What certifications are desirable?

Moderator: Hugh Cook, Engineering and Organizational Development Consultant, Orange County, CA

Co-Moderator: Barbara Lunde, Training Specialist, FAA Office of Commercial Space Transportation

Panelists:

- Dr. Melchor Antuñano, Director, FAA Civil Aerospace Medical Institute, Oklahoma City, OK
- Dan Dubbs, Director, Mission Assurance, Energia Logistics Inc., Long Beach, CA
- Neil Milburn, Vice President of Program Management, Armadillo Aerospace, Heath, TX
- Julia Tizard, Operations Manager, Virgin Galactic, Mojave, CA
- Linda Tyree, Leader, System Safety & Systems Management, United Launch Alliance, Centennial, CO

[1700 hrs](#)

Foyer

Break

[1730 hrs](#)

Room 147B

Welcome Reception

Thursday, 16 February 2012

0830 hrs

Room 145

Featured Speaker: General William L. Shelton, USAF, Commander, Air Force Space Command, Peterson Air Force Base, CO

0900 hrs

Room 145

Introductory Remarks: The Honorable Michael Huerta, Acting Administrator, Federal Aviation Administration

Featured Speaker: The Honorable John D. Porcari, Deputy Secretary, U.S. Department of Transportation

0930 hrs

Room 145

Featured Speaker: The Honorable Bill Nelson, Chairman, Senate Subcommittee on Science and Space

0945 hrs

Room 145

Crew and Cargo to the ISS

Hear an update on the latest developments in the critical Commercial Crew Development (CCDev) program, and plans for expanding commercial launch services to the International Space Station to include manned spaceflight.

Moderator: Bob Dickman, Executive Director, American Institute of Aeronautics and Astronautics (AIAA), Reston, VA

Panelists:

- Frank Culbertson, Senior Vice President and Deputy General Manager, Advanced Programs Group, Orbital Sciences Corporation, Dulles, VA
- Alan J. Lindenmoyer, Manager, Commercial Crew and Cargo Program Office, NASA Johnson Space Center, Houston, TX
- Kathryn Lueders, Manager, Transportation Integration Office, ISS Program, NASA Johnson Space Center, Houston, TX
- Phil McAlister, Special Assistant for Program Analysis, Office of Program Analysis and Evaluation, NASA Headquarters, Washington, DC
- Garrett Reisman, Space Exploration Technologies Corporation (SpaceX), Hawthorne, CA

1100 hrs

Foyer

Networking Coffee Break

1115 hrs

Room 145

Featured Speaker: Frank Rose, Deputy Assistant Secretary, Bureau of Arms Control, Verification and Compliance, U.S. Department of State, Washington, DC

[1145 hrs](#)

Room 145

Special Presentation: [The Stratolaunch Concept](#)

Speaker: Jim Halsell, Technical Director, Space Division, Dynetics Corporation, Huntsville, AL

[1215 hrs](#)

Room 146

Luncheon

Sponsored by Sierra Nevada Corporation

Featured Speaker: Mark Sirangelo, Corporate Vice President, Sierra Nevada Corporation, Louisville, CO

[1345 hrs](#)

Foyer

Break

[1400 hrs](#)

Room 145

[Spaceport States Leadership](#)

The number of commercial launch sites is steadily growing, as forward-thinking states promote the development of these facilities. This panel will feature leading representatives of “spaceport states,” describing the initiatives they have undertaken, and the anticipated results.

Moderator: John Logsdon, Professor Emeritus, George Washington University, Washington, DC

Panelists:

- Stephen McKeever, Secretary of Science and Technology, Oklahoma, Stillwater, OK
- Christine Anderson, Executive Director, Spaceport America, Las Cruces, NM
- Sean Connaughton, Secretary of Transportation, Commonwealth of Virginia, Richmond, VA
- Craig Campbell, President and CEO, Alaska Aerospace Corporation, Kodiak, AK
- Richard Biter, Assistant Secretary for Intermodal Systems Development, Florida, Tallahassee
- Dennis Heap, Executive Director, Front Range Airport, Denver, CO

[1515 hrs](#)

[Room 145](#)

Legislative Trends in Commercial Space

Lawmakers play a key role in the commercial space enterprise. Government programs and budgetary issues are major market determiners, and liability legislation, taxes, and export controls all affect the bottom line of the space business. Panelists will discuss the latest legislative developments and trends.

Moderator: Greg Rasnake, Director of External Affairs, FAA Office of Commercial Space Transportation

Introductory Remarks: The Honorable Steven Palazzo, Chairman, House Subcommittee on Space and Aeronautics

Panelists:

- Jim Muncy, Government Relations Consultant, Washington, DC
- Mike Gold, Director, DC Operations, Bigelow Aerospace, Washington, DC
- Matt Dunn, Director, Congressional Relations, Space Exploration Technologies Corporation, Washington, DC
- Erin Neal, Director, Congressional Relations, Alliant Techsystems, Inc., Washington, DC
- Jon Turnipseed, Head of Safety, Virgin Galactic, Bakersfield, CA
- James R. McMurry, Senior Counsel, Boeing Space Exploration Office,

[1615 hrs](#)

[Room 145](#)

Featured Speaker: Andrew Chaikin, Journalist and Author, Vermont

[1645 hrs](#)

[Room 145](#)

Closing Remarks

Speaker: Dr. Nield