

THE NATIONAL ACADEMIES

Advisers to the Nation on Science, Engineering, and Medicine

Aeronautics and Space Engineering Board

500 Fifth Street, NW
Washington, DC 20001
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2/10/2015

SPACE TECHNOLOGY INDUSTRY-GOVERNMENT-UNIVERSITY ROUNDTABLE

Keck Center of the National Academies

Room 100

500 Fifth St. N.W.

Washington, D.C.

(parking garage entrance on 6th St. NW between E St. and F St. NW)

(directions for travel via Metro at http://www.nas.edu/about/contact/na_069685.html)

AGENDA

Wednesday, February 11, 2015

OPEN SESSION

7:30am Room opens (breakfast available in meeting room)

8:30am Meeting convenes
Opening remarks
Ray Johnson, Chair

8:45am Overview of STMD Mission Areas
Michael Gazarik, NASA Associate Administrator for Space Technology

9:00am **Research and Technology Development Challenges--Industry Panel 1**

What research and technology development challenges could STMD address to support industry priorities in space as they relate to NASA mission priorities and/or industry applications apart from NASA missions?

- Boeing: Mike Elsperman, Director of Space Science and Advanced Space Utilization
- Lockheed Martin Space Systems Company: Steven Price, Advanced Programs Director, Civil Space
- UTC Aerospace Systems: Jim Kammerer, General Manager, Crew Vehicle Systems
- Ball Aerospace and Technologies: Jim Oschmann, Vice President and General Manager, Civil Space and Technology

10:30am Break

10:45am **Research and Technology Development Challenges--Industry Panel 2**

What research and technology development challenges could STMD address to support industry priorities in space as they relate to NASA mission priorities and/or industry applications apart from NASA missions?

STMD Thrust Areas

STMD is interested in hearing about technology and applications of interest to industry (or DOD for the DOD panel) as they relate to thrust areas that STMD is already investigating as well as topics that fall outside the scope of these thrust areas.

- High Power Solar Electric Propulsion
- Space Optical Communications
- Advanced Life Support & Resource Utilization
- Mars Entry Descent and Landing Systems
- Space Robotic Systems
- Lightweight Space Structures
- Deep Space Navigation
- Space Observatory Systems

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(continued)**

- Draper Lab: Seamus Tuohy, Director of Space Systems
~~Darryl Sargent, Vice President for National Security and Space~~
- MacDonald Dettwiler: Dan King, Director for Business Development
- Moog, Inc.: Eric Anderson, Chief Technologist—Space
~~Patricia Stroh, Manager, Business Development, Space and Defense Group~~
- Sierra Nevada: Robert Bell, Space Exploration Systems Current Engineering Director

12:15pm Lunch

1:00pm **Research and Technology Development Challenges—DOD Panel**

What opportunities exist for new, coordinated research and technology by NASA and the DOD: What space technology challenges relevant to DOD could be addressed by STMD research and technology development, and what research by DOD may address NASA's needs for space technology?

- DARPA: Pam Melroy, Deputy Director, Tactical Technology Office
- U.S. Air Force: Christopher Paul, Deputy Capability Lead, Space Superiority, Air Force Research Laboratory
- U.S. Air Force: Merri.Sanchez, Air Force Space Command, Chief Scientist
- U.S. Army: Thomas Webber, Director, Space and Strategic Systems Directorate, Technical Center, U.S. Army Space and Missile Defense Command
- Office of the Assistant Secretary of Defense, Research and Engineering: Dr John Stubstad, Director, Space and Sensor Systems Research Directorate

2:45pm Break

3:00 pm **NASA Solar Electric Propulsion Pathway**
Andy Petro, NASA STMD Program Executive, Solar Electric Propulsion

4:30pm Plans for the 3rd meeting, September 24, 2015

5:00pm Adjourn

Space Technology Industry-Government-University Roundtable STATEMENT OF TASK

The NRC Space Technology-Industry-Government-University Roundtable will convene senior-most representatives from industry, universities, NASA, and other government agencies to define and explore critical issues related to NASA's space technology research agenda that are of shared interest; to frame systems-level research issues; and to explore options for public-private partnerships. This forum will be designed to facilitate candid dialogue among participants, to foster greater partnership among the NASA-related space technology community, and, where appropriate, carry awareness of consequences to the wider public.