50th Robert H. Goddard Memorial Symposium

Dreams and Possibilities: Planning for the Achievable

March 27-29, 2012
Greenbelt Marriott / Greenbelt, Maryland

– Updated Program –

Tuesday, March 27

6:00  Evening Symposium Warm-up / Meet & Greet Mixer  Annapolis Room
sponsored by Northrop Grumman

Wednesday, March 28

7:00  Registration Opens / Continental Breakfast  sponsored by Lockheed Martin

8:30  Welcome and Announcements  Salons A-B-C
    - Frank Slazer, Aerospace Industries Association; AAS President
    - Harley Thronson, Senior Scientist for Advanced Concepts in Astrophysics,
      NASA GSFC; Chair, Symposium Planning Committee

8:40  Introduction of Keynote Speakers
    Chris Scolese, Director, NASA Goddard Space Flight Center and
    Symposium Honorary Chair

8:45  Keynote
    Charles F. Bolden, Jr., NASA Administrator

9:15  Keynote
    Steve Squyres, Chair, NASA Advisory Council and Goldwin Smith
    Professor of Astronomy, Cornell University

9:45  Break  sponsored by Lockheed Martin

10:00  Human Exploration Strategy
    Extend and sustain human activities across the Solar System
    Moderator:  Frank Morring, Senior Editor, Aviation Week & Space Technology
    Panelists:
    • Dan Dumbacher, Deputy Associate Administrator for Exploration Systems
      Development, NASA HQ
    • Jeff Davis, Director of Space Life Sciences, NASA Johnson Space Center
    • John Olson, Director, Strategic Analysis and Integration Division; Director,
      Mission Support Services Office, Human Exploration and Operations
      Mission Directorate, NASA HQ
12:00  **Pre-lunch Break / Space Reconfiguration**

12:15  **Awards Luncheon**  *Salons B-C-D*

   Guest Speaker: Representative Ralph Hall (R-TX), Chairman, House Committee on Science, Space, and Technology

2:15  **Science Strategy**

   Expand scientific understanding of the Earth and the Universe in which we live

   *Moderator:* Waleed Abdalati, NASA Chief Scientist

   *Panelists:*
   - John Grunsfeld, Associate Administrator for Science, NASA HQ
   - Matt Mountain, Director, Space Telescope Science Institute
   - Barbara Giles, Heliophysics Division Director, Science Mission Directorate, NASA HQ
   - Jim Garvin, Chief Scientist, Sciences and Exploration Directorate, NASA GSFC

3:45  **Break**  *sponsored by Lockheed Martin*

4:00  **Technology Strategy**

   Create the innovative new space technologies for our exploration, science, and economic future

   *Moderator:* James Reuther, Director, Crosscutting Capability Demonstrations Division; Acting Director, Game Changing Technology Division, Office of the Chief Technologist, NASA HQ

   *Panelists:*
   - Ray Colladay, Chair, Aeronautics and Space Engineering Board Study on NASA’s Technology Roadmaps, National Research Council
   - Robert Bauer, Deputy Director, Earth Science Technology Office, NASA GSFC
   - David Barnhart, Phoenix Program Manager, Defense Advanced Research Projects Agency (DARPA)

5:30  **Closing Remarks**

   Marcia Smith, President, Space & Technology Policy Group, LLC

5:45  **Industry, Government, and Student Networking Reception**  *Annapolis Room*

   *sponsored by Boeing*

**Thursday, March 29**

7:30  **Registration Opens / Continental Breakfast**

9:00  **Introduction of Keynote Speaker**

   Chris Scolese, Director, NASA Goddard Space Flight Center and Symposium Honorary Chair
9:05  **Keynote  Salons A-B-C**
Kathryn Sullivan, Assistant Secretary of Commerce for Environmental Observation and Prediction, NOAA

9:45  **Public Outreach and Education Strategy**
Share NASA with the public, educators, and students to provide opportunities to participate in our mission, foster innovation and contribute to strong national economy
*Moderator:* Freeman A. Hrabowski, President, University of Maryland Baltimore County (UMBC)

*Panelists:*
- Louisa Koch, Director, Office of Education and Chair, Education Council, NOAA
- James Stofan, Deputy Associate Administrator for Program Integration, NASA HQ
- Lance Bush, President and CEO, Challenger Center for Space Science Education
- Alan Ladwig, Deputy Associate Administrator for Communications – Public Outreach, NASA HQ

11:15  **Pre-lunch Break / Space Reconfiguration**

11:30  **Luncheon  Salons B-C-D**
Guest Speaker: RADM Liz Young, USN (ret), Director, Systems Engineering, National Reconnaissance Office

1:30  **Future Infrastructure: Communications, Launch and Aeronautics**
Advance research for societal benefit and enable program and institutional capabilities to conduct NASA’s aeronautics and space activities
*Moderator:* Olga Dominguez, Assistant Administrator, Office of Strategic Infrastructure, NASA HQ

*Panelists:*
- Robert Cabana, Director, NASA Kennedy Space Center
- Calvin Williams, Acting Director for NASA Technical Capabilities and Real Property Management, Mission Support Directorate, NASA HQ
- Badri Younes, Deputy Associate Administrator for Space Communications and Navigation, NASA HQ

3:00  **Break**

3:15  **Space and Terrestrial Weather: Climate Change and More**
*Moderator:* Nancy Colleton, President, Institute for Global Environmental Strategies; Executive Director, Alliance for Earth Observations

*Panelists:*
- Michael Hesse, Director, Heliophysics Science Division, NASA GSFC
- Berrien Moore, Chesapeake Energy Corporation Chair in Climate Studies, School of Meteorology and Dean, College of Atmospheric & Geographic Sciences, University of Oklahoma
- Louis Uccellini, Director, National Weather Service, National Centers for Environmental Prediction, NOAA; President, American Meteorological Society
• Robert Winokur, Deputy Oceanographer of the Navy and Acting Director, Oceanography, Space and Maritime Domain Awareness Division, Chief of Naval Operations

4:45 **Wrap-up and Final Thoughts**
Roger Launius, Senior Curator, Division of Space History, National Air and Space Museum, Smithsonian Institution

5:15 **Closing Reception**  *Salons C-D*