



American Astronautical Society

## 50<sup>th</sup> 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 Moring, 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

- John Karas, Vice President & General Manager of Human Spaceflight, Lockheed Martin
- John Elbon, Vice President and General Manager, Space Exploration, The Boeing Company
- Alexander Saltman, Executive Director, Commercial Spaceflight Federation

**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*