



52nd Robert H. Goddard Memorial Symposium

Science and Exploration: Engineering the Future

March 4-6, 2014

Greenbelt Marriott / Greenbelt, Maryland

– Program –

Tuesday, March 4

6:00 Evening Symposium Warm-up / Meet & Greet Mixer *Annapolis Room*
sponsored by Lockheed Martin

Wednesday, March 5

7:00 Registration Opens / Continental Breakfast *sponsored by Orbital Sciences Corp*

7:15 AAS Corporate Members' Breakfast *invitation only*

8:30 Welcome and Announcements *Salons A-B-C*
- Lyn Wigbels, AAS President
- Harley Thronson, Chair, Symposium Planning Committee; Senior Scientist for
Advanced Concepts in Astrophysics, NASA Goddard Space Flight Center

8:40 Are We Alone? Seeking Life Among the Nearby Stars
Sara Seager, 2013 MacArthur Fellow & Professor of Physics and Planetary
Science, Massachusetts Institute of Technology

9:10 Introduction of Keynote Speaker
Chris Scolese, Symposium Honorary Chair; Director, NASA Goddard Space
Flight Center

9:15: Keynote
Charles F. Bolden, Jr., NASA Administrator

9:45 60th Anniversary Salute to AAS
Ken Washington, Vice President, Advanced Technology Center,
Lockheed Martin Space Systems

10:00 Break *sponsored by Orbital Sciences Corp*

10:15 NASA Headquarters Associate Administrators
Moderator: Harley Thronson, Senior Scientist for Advanced Concepts in
Astrophysics, NASA GSFC

Panelists:

- John Grunsfeld, Associate Administrator for Science
- Bill Gerstenmaier, Associate Administrator for Human Exploration and Operations
- Jaiwon Shin, Associate Administrator for Aeronautics Research
- Mike Gazarik, Associate Administrator for Space Technology

12:00 Pre-lunch Break / Meeting Space Reconfiguration

12:15 Honors and Awards Luncheon *Salons B-C-D*
Guest Speaker: Kathryn Sullivan, Acting NOAA Administrator

2:15 Science Snapshot

- **Heliophysics and Space Weather** – Dave Chenette, Director, Heliophysics Division, Science Mission Directorate, NASA HQ

2:35 Enabling Science through Near-term Innovations
Moderator: Christyl Johnson, Deputy Director for Technology and Research Investments, NASA GSFC

Panelists:

- Adam Kemp and Rohan Punnoose, TJ3Sat CubeSat Project, Thomas Jefferson High School
- Mark Bergeland, Director of Programs, Civil Space and Technologies, Ball Aerospace & Technologies Corp
- Jonathan Cirtain, Senior Solar Astrophysicist, NASA MSFC
- Jeffrey Manber, Managing Director, NanoRacks LLC

4:15 Break *sponsored by Orbital Sciences Corp*

4:30 Science Snapshot

- **Curiosity and Learning to Walk on Mars** – Melissa Trainer, NASA GSFC

4:50 Closing Remarks
Ellen Stofan, NASA Chief Scientist

5:15 Industry, Government, and Student Networking Reception *Annapolis Room sponsored by SAIC*

Thursday, March 6

7:30 Registration Opens / Continental Breakfast

9:00 Dare to Dream the Impossible . . .and the Incredible will Happen
Frank Cepollina, Associate Director for the Satellite Servicing Capabilities Project, NASA GSFC

9:30 Introduction of Keynote Speaker
Chris Scolese, Director, NASA Goddard Space Flight Center and Symposium Honorary Chair

9:35 Keynote *Salons A-B-C*
Freeman Hrabowski III, President, University of Maryland, Baltimore County (UMBC)

10:00 Science Snapshots

- **Astrophysics** – Matt Mountain, Director, Space Telescope Science Institute
- **ISS/Life Sciences** – Rich Godwin, President and CEO, Zero Gravity Solutions, Inc.
- **Global Climate Change** – Gavin Schmidt, Deputy Chief, NASA Goddard Institute for Space Studies

11:15 Pre-lunch Break / Meeting Space Reconfiguration

11:30 Awards Luncheon *Salons B-C-D*
Guest Speaker: George Whitesides, CEO, Virgin Galactic
Future Space Leaders Foundation – Clay Mowry, President, Arianespace USA

1:15 Human Exploration

Moderator: Michele Gates, Senior Technical Advisor to the Associate Administrator for Human Exploration and Operations NASA HQ

Panelists:

- Sam Scimemi, Director, International Space Station, NASA HQ
- Dan Dumbacher, Deputy Associate Administrator for Exploration Systems Development, Human Exploration, and Mission Operations, NASA HQ
- Doug Cooke, Owner, Cooke Concepts and Solutions
- Steve Stich, Deputy Director of Engineering, NASA JSC

3:00 Break

3:15 Looking Into the Crystal Ball: What's Ahead?

Moderator: Chris Scolese, Director, NASA GSFC

Panelists:

- Marion Blakey, President and CEO, Aerospace Industries Association
- John Elbon, Vice President and General Manager, Space Exploration, The Boeing Company
- Jeff Grant, Vice President and General Manager, Space Systems, Northrop Grumman Aerospace Systems
- Jim Crocker, Vice President and General Manager, Civil Space, Lockheed Martin Space Systems Company

5:00 Closing Remarks

Jim Crocker

5:15 Closing Reception *Annapolis Room*
sponsored by Northrop Grumman