



55th Robert H. Goddard Memorial Symposium

March 7-9, 2017

Greenbelt Marriott / Greenbelt, Maryland

“Future Space: Trends, Technologies and Missions”

– Program –

Tuesday, March 7

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

Wednesday, March 8

7:00 Registration Opens / Continental Breakfast *sponsored by Harris*

7:15 AAS Corporate Members Breakfast *invitation only*

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

**8:40 Opening Speaker – Why Science and Exploration are Partners: The
Stunning Success of a “One NASA”**
Matt Mountain, President, Association of Universities for Research in Astronomy
(AURA)

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

9:20 Keynote
Robert Lightfoot, NASA Administrator (Acting)

10:00 Break *sponsored by Harris*

10:15 NASA Leadership in the Future of Science and Technology

Moderator: Douglas Terrier, Chief Technologist (Acting), NASA Headquarters

Panelists:

- Steve Jurczyk, Associate Administrator, Space Technology Mission Directorate
- Gale Allen, Chief Scientist (Acting)
- Thomas Zurbuchen, Associate Administrator, Science Mission Directorate

11:45 Pre-lunch Break / Meeting Space Reconfiguration

12:00 Honors and Awards Luncheon *Salons B-C-D sponsored by Lockheed Martin*

Guest Speaker: Senator Gary Peters (D-MI), Member, Space, Science & Competitiveness Subcommittee

2:15 International Exploration and Private Sector Development of Space

Moderator: [Bill Gerstenmaier](#), Associate Administrator for Human Exploration and Operations, NASA Headquarters

Panelists:

- [Gilles Leclerc](#), Director General, Space Exploration, Canadian Space Agency
- [Eric Stallmer](#), President, Commercial Spaceflight Federation
- Mary Lynne Dittmar, Executive Director, Coalition for Deep Space Exploration

3:45 Break *sponsored by Harris*

4:00 The Political Environment

Moderator: Marcia Smith, Founder and Editor, SpacePolicyOnline.com

Panelists:

- Frank Moring, Senior Editor, Aviation Week & Space Technology
- Chris Shank, Special Assistant, Office of the Secretary of Defense
- Nick Cummings, Staff Director, Subcommittee on Space, Science, and Competitiveness, Senate Committee on Commerce, Science, and Transportation
- Tom Hammond, Staff Director, Subcommittee on Space, House Committee on Science, Space & Technology

5:30 Closing Spotlight – Painting a New Picture: The Art of Science

[Sophia Porter](#), 2015 National Space Club and Foundation Keynote Scholar

6:00 Industry, Government, and Student Networking Reception *Annapolis Room sponsored by SpaceX*

Thursday, March 9

7:30 Registration Opens / Continental Breakfast *sponsored by SGT, Inc.*

8:30 Introduction of Opening Speaker *Salons A-B-C*

Chris Scolese, Director, NASA Goddard Space Flight Center and Symposium Honorary Chair

8:35 Opening Speaker - Planning NOAA's Future Space Architecture

[Karen St. Germain](#), Director, Office of Systems Architecture and Advanced Planning, NOAA/NESDIS

9:05 Upcoming Missions with Big Science Payoffs

Moderator: [Colleen Hartman](#), Director, Sciences and Exploration Directorate, NASA GSFC

Panelists:

- WFIRST - Wide Field Infrared Survey Telescope: David Spergel, Charles Young Professor of Astronomy, Princeton University
- Mars 2020 Rover: [Ken Farley](#), W.M. Keck Foundation Professor of Geochemistry; Chair, Division of Geological and Planetary Sciences, Caltech
- PACE - Plankton, Aerosol, Cloud, ocean Ecosystem: [Jeremy Werdell](#), PACE Project Scientist, NASA GSFC
- Solar Probe Plus: [Elsayed Talaat](#), Program Scientist, NASA Headquarters

10:35 Break *sponsored by SGT, Inc.*

10:50 Exploration Telepresence – Almost Like Being There

Moderator: [Gregory Chirikjian](#), Professor, Department of Mechanical Engineering, Johns Hopkins University

Panelists:

- [Dan Lester](#), Research Scientist, Exinetics
- [Mark Lupisella](#), Advanced Exploration Systems and Architecture Lead, Exploration Systems Projects, NASA GSFC
- [Kelsey Young](#), Exploration Scientist, UTEP/Jacobs at NASA JSC

12:15 Pre-lunch Break / Meeting Space Reconfiguration

12:30 Luncheon *Salons B-C-D sponsored by Boeing*

Guest Speaker: [Roger Launius](#), Independent Historian
“The Value of Space Exploration in a Distracted Culture”

Future Space Leaders Foundation Update: Eric Stallmer, President, Commercial Spaceflight Federation

2:00 Spotlight – Space-based Environmental Intelligence

In Memoriam: Video conversation recorded in 2016 with [Piers Sellers](#) and Leonardo DiCaprio with remarks by Sandra Smalley, Director, Joint Agency Satellite Division, NASA Headquarters

2:30 Spotlight – China’s Plans for Space

[Brian Weeden](#), Technical Advisor, Secure World Foundation

3:00 Break *sponsored by SGT, Inc.*

3:15 Cislunar Space: The Next Frontier for Human Exploration

Moderator: [Harley Thronson](#), Chair, Symposium Planning Committee; Senior Scientist for Advanced Concepts in Astrophysics, NASA Goddard Space Flight Center

Panelists:

- [Matt Duggan](#), Exploration Manager, The Boeing Company
- [Rob Chambers](#), Orion Production Strategy Lead, Lockheed Martin Space Systems Company
- [Steve Overton](#), Manager of Programs, Integrated Space Systems, Aerojet Rocketdyne

- [Michael Fuller](#), Senior Manager, NASA Space Systems, Orbital ATK
- [Michael Johnson](#), Chief Designer, NanoRacks

4:45 **Closing Conversation** with Chris Scolese, NASA GSFC Director; John Grunsfeld, Astronaut and former NASA Associate Administrator for Science; Sam Scimemi, Director, International Space Station; and Jon Malay, Past President of AAS and AMS

5:15 **Closing Reception** *Annapolis Room*