



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 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: Doug 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), Ranking 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, Department 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 – Pipeline to the Future**
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, Project 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; and Jon Malay, Past President of AAS and AMS

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