



## 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: TBD
  - 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
  - TBD
- 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**  
*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*