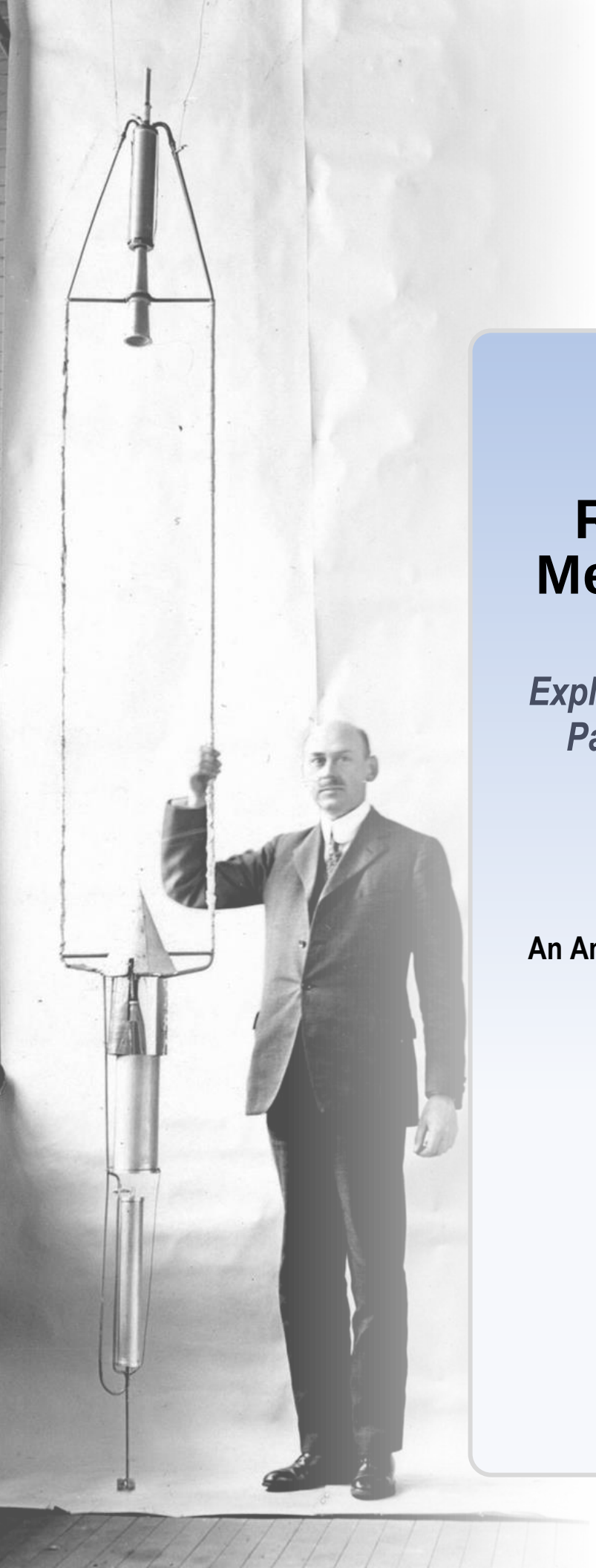

The 56th Annual

Robert H. Goddard Memorial Symposium

Exploration, Science and Technology: Partnerships for the Next Decade

March 13-15, 2018
Greenbelt, Maryland

An American Astronautical Society Symposium

in conjunction with the

NASA Goddard Space Flight Center

American Astronautical Society

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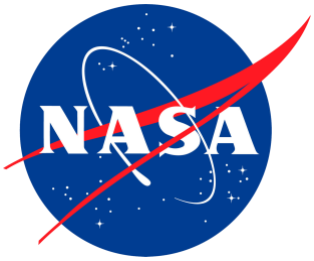

NASA Goddard Space Flight Center

Program

Tuesday, March 13

6:00 pm **Goddard Symposium Welcome Reception** – *Annapolis Room*
Sponsored by Northrop Grumman Corporation

Wednesday, March 14

7:00 am **AAS Corporate Members Breakfast** *(Invitation Only)*

7:00 am **Registration Opens / Networking / Continental Breakfast**
Sponsored by United Launch Alliance

8:15 am **Welcome Remarks** – *Salons A, B, C*
- Carol Lane, President, American Astronautical Society
- Harley Thronson, Chair, Symposium Planning Committee; Senior Scientist for Advanced Concepts in Astrophysics, NASA Goddard Space Flight Center

8:30 am **Opening Speaker**
- Carissa Christensen, CEO, Bryce Space and Technology

9:10 am **Keynote Speaker**
- Robert Lightfoot, NASA Administrator (Acting)
  Introduction by Chris Scolese, Director, NASA Goddard Space Flight Center

10:00 am **Break** – ***Sponsored by United Launch Alliance***

10:15 am **Advances and Partnerships in the Next Half Decade**
Moderator: Krista Paquin, Deputy Associate Administrator, NASA Headquarters
Panelists:
- William Gerstenmaier, Associate Administrator, Human Exploration and Operations, NASA Headquarters
- James Reuter, Deputy Associate Administrator for Programs, Space Technology Mission Directorate, NASA Headquarters
- Bob Pearce, Deputy Associate Administrator for Strategy, Office of the Associate Administrator, NASA Headquarters
- Thomas Zurbuchen, Associate Administrator, Science Mission Directorate, NASA Headquarters

11:45 am **Break** – ***Sponsored by United Launch Alliance***

12:00 pm **Honors and Awards Luncheon** – Salons B, C, D
Guest Speaker: Bill Barry, Chief Historian, NASA Headquarters
Sponsored by Lockheed Martin

2:15 pm **Science Missions: Astrophysics, Earth Science, Heliophysics and Planetary Science**
Moderator: Colleen Hartman, Director of the Sciences and Exploration Directorate and Acting Center Director for Science, NASA Goddard Space Flight Center
Panelists:

- Jim Garvin, Chief Scientist, NASA Goddard Space Flight Center
- Holly Gilbert, Deputy Director, Heliophysics Science Division, NASA Goddard Space Flight Center
- Aki Roberge, Research Astrophysicist, Exoplanets and Stellar Astrophysics Lab, NASA Goddard Space Flight Center
- Gavin Schmidt, Director, NASA Goddard Institute for Space Studies

3:45 pm **Break** – ***Sponsored by United Launch Alliance***

4:00 pm **Developing Tomorrow's Workforce**
Moderator: Dan Dumbacher, Executive Director, AIAA
Panelists:

- Robert Curbeam, Senior Director for Civil Space and International Business, Raytheon
- Sophia Porter, Student, Johns Hopkins University
- Matthew Simon, Habitation and Crew Systems Design Lead, NASA Langley Research Center

5:30 pm **Closing Spotlight** – Freeman A. Hrabowski, III, President of The University of Maryland, Baltimore County

6:00 pm **Reception** – Annapolis Room
Sponsored by SpaceX

Thursday, March 15

7:30 am **Registration Opens / Networking / Continental Breakfast**
Sponsored by The Aerospace Corporation, Harris Corporation, and Stinger Ghaffarian Technologies (SGT)

8:30 am **Day Two Opening Remarks – Voice from the Hill**
Chris Van Hollen, United States Senator (D-MD)

9:00 am **Opening Speaker - Technology Enabling the Next Decade**
Bill Wrobel, Director, NASA Wallops Flight Facility

9:30 am **Innovative State Partnerships: Goals and Challenges**
Moderator: Nona Cheeks, Chief, Strategic Partnerships Office, NASA Goddard Space Flight Center
Panelists:

- Kenneth McCreedy, Senior Director, Division of Cyber and Aerospace, Maryland Department of Commerce
- Dale Nash, CEO and Executive Director, Virginia Commercial Space Flight Authority
- Thomas Evans, Research Program Manager, West Virginia Robotic Technology Center

10:35 am **Break**
Sponsored by The Aerospace Corporation, Harris Corporation, and Stinger Ghaffarian Technologies (SGT)

10:50 am **Innovative Partnerships: Commercial Perspectives**
Moderator: Phil McAlister, Director, Commercial Space Flight Division, Human Exploration and Operations, NASA Headquarters
Panelists:

- Joshua Brost, Senior Director, Government Business Development, SpaceX
- Gregg Burgess, VP Technology and Engineering, Space Systems Group Sierra Nevada Corporation
- John Reed, Chief Technologist Advanced Programs, United Launch Alliance

12:15 pm **Break**
Sponsored by The Aerospace Corporation, Harris Corporation, and Stinger Ghaffarian Technologies (SGT)

12:30 pm **Luncheon** – Salons B, C, D
Guest Speaker: Stephen Volz, Acting Assistant Secretary for Environmental Observation and Prediction; Assistant Administrator for Satellite & Information Services, NOAA
Sponsored by The Boeing Company

2:00 pm **Spotlight: Venus, technology development**
Speaker: Lori Glaze, Chief of the Planetary Geology, Geophysics, and Geochemistry Laboratory, NASA Goddard Space Flight Center

2:30 pm **Conversation: Future Space Strategy**
- Thomas Cremins, Associate Administrator for Strategy and Plans, NASA Headquarters
- Kathy Nado, Partnerships, NASA Headquarters
- Sam Scimemi, Director for International Space Station, NASA Headquarters

3:00 pm **Break**
Sponsored by The Aerospace Corporation, Harris Corporation, and Stinger Ghaffarian Technologies (SGT)

3:15 pm **What Robotics in Space Can Enable: 2025-2035**
Moderator: Ben Reed, Deputy Division Director of the Satellite Servicing Projects Division (SSPD), NASA Goddard Space Flight Center
Panelists:
- Todd Master, Program Manager, Tactical Technology Office, Defense Advanced Research Projects Agency
- Erica Rodgers, Senior Technologist, Office of Chief Technologist, NASA Langley Research Center
- Al Tadros, Vice President of Space Infrastructure and Civil Space, SSL
- Elizabeth "Zibi" Turtle, Planetary Scientist, Johns Hopkins University Applied Physics Laboratory

4:45 pm **Closing Conversation – Looking Ahead: 10 Years and Beyond**
- Frank DeMauro, Vice President and General Manager, Advanced Programs Division, Orbital ATK
- Debra Facktor, Vice President and General Manager, Strategic Operations, Ball Aerospace
- Jim Garvin, Chief Scientist, NASA Goddard Space Flight Center
- Chris Scolese, Director, NASA Goddard Space Flight Center

5:15 pm **Closing Reception** – Annapolis Ballroom

Thank you to the 2018 Planning Committee

Harley Thronson, Chair – NASA Goddard Space Flight Center

Elena Adams – Johns Hopkins Applied Physics Laboratory
Georgie Brophy – SSL Government Systems
Michael Calabrese – NASA Goddard Space Flight Center, Retired
Walt Faulconer – Faulconer Consulting Group
Derek Hodgins – Orbital ATK
Alecia Lauer – United Launch Alliance
Bo Naasz – NASA Goddard Space Flight Center
Kathy Nado – NASA Headquarters
Cynthia O'Carroll – NASA Goddard Space Flight Center
Sophia Porter – Johns Hopkins University
Mina Samii – SAM Consulting
Diane Thompson – American Astronautical Society
Jim Way – American Astronautical Society

Special thanks to George Morrow, Deputy Center Director, NASA Goddard Space Flight Center, for assisting GSFC civil servants in attending this symposium.

Thank you for attending the Symposium

Please join us at these upcoming events:

2018 ISS Research & Development Conference
July 23-26, 2018 | San Francisco, California
issconference.org

11th Annual Wernher von Braun Memorial Symposium
October 23-25, 2018 | Huntsville, Alabama
astronautical.org/vonbraun

Founded in 1954, The American Astronautical Society is the premier network of current and future space professionals dedicated to advancing all space activities.

AAS has long been recognized for the excellence of its national meetings, technical meetings, symposia and publications and for their impact on shaping the U.S. space program. Members have opportunities to meet with leaders in their field and in related disciplines, exchange information and ideas, discuss career aspirations and expand their knowledge and expertise.

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