The 57th Annual
Robert H. Goddard Memorial Symposium

The Next Giant Leap:
Earth, Moon, Mars, and Beyond

March 19-21, 2019
Tommy Douglas Conference Center
Silver Spring, Maryland

An American Astronautical Society Symposium

in conjunction with the

NASA Goddard Space Flight Center
Program

Tuesday, March 19

6:00 pm  Goddard Symposium Welcome Reception – Game Room and Lounge

Wednesday, March 20

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

7:00 am  Registration / Networking / Deluxe Continental Breakfast – Mezzanine

8:15 am  Welcome Remarks – Solidarity Hall
• Carol Lane, President, American Astronautical Society
• Stephanie Uz, Chair, Symposium Planning Committee; Applied Sciences Manager, NASA GSFC
• Chris Scolese, Director, NASA GSFC

8:30 am  Keynote Speaker
• James W. Morhard, Deputy Administrator, NASA HQ

9:00 am  Goddard+
• Tim Gallaudet, Assistant Secretary of Commerce for Oceans and Atmosphere and Deputy Administrator, NOAA

9:30 am  Break – Sponsored by United Launch Alliance

9:50 am  Looking Back and Looking Forward to the Next Giant Leap
• Jeff Bingham, President/CEO, Focused Solutions, LLC (Moderator)
• Mike French, Senior Vice President, Commercial Space, Bryce Space and Technology
• Suzanne Gillen, Associate Administrator, Office of Legislative and Intergovernmental Affairs, NASA HQ
• Mary Lynne Dittmar, President/CEO, Coalition for Deep Space Exploration; Users’ Advisory Group, National Space Council
• Jared Stout, Policy Advisor, Venable

10:50 am  Global Engagement Through Free and Open Big Data
• Lola Fatoyinbo, Research Scientist, Earth Sciences Division, NASA GSFC (Moderator)
• Shane Glass, Program Manager, Google Cloud, Google
• Ed Kearns, Chief Data Officer, NOAA
• Andy Mitchell, Project Manager, Earth Science Data & Information System, NASA GSFC
• Kevin Murphy, Program Executive, Earth Science Data Systems, NASA HQ

– Robert H. Goddard Memorial Symposium –
12:00 pm  **Luncheon and Award Presentation with Guest Speakers** – *Solidarity Hall*
- Emme Award: Neil M. Maher

*Sponsored by Lockheed Martin*

2:00 pm  **The Next Decade in Earth Science and Applications**
- Eric Ianson, Associate Director for Flight Programs, Earth Science Division, NASA HQ (Moderator)
- Antonio Busalacchi, President, University Corporation for Atmospheric Research
- Joshua Elliott, Program Manager, Information Innovation Office, DARPA
- Jill Engel-Cox, Center Director, NREL Joint Institute for Strategic Energy Analysis
- Tom Neumann, ICESat-2 Project Scientist, NASA GFSC

3:00 pm  **Commercialization in Low Earth Orbit**
- Joel Montalbano, ISS Program Deputy Manager, NASA HQ (Moderator)
- Brett Alexander, Vice President of Government Sales & Strategy, Blue Origin
- John Elbon, Chief Operating Officer, United Launch Alliance
- Stephanie Purgerson, Chief Operating Officer, NanoRacks
- Florence Tan, Deputy Chief Technologist, Science Mission Directorate, NASA HQ

4:00 pm  **Break** – *Sponsored by United Launch Alliance*

4:20 pm  **Goddard+**
- Dennis Andruycyk, Deputy Associate Administrator, Science Mission Directorate, NASA HQ

4:50 pm  **NASA’s Lunar Architecture**
- Joe Cassady, Executive Director, Space, Washington Operations, Aerojet Rocketdyne (Moderator)
- Rob Chambers, Director of Business Development, Lockheed Martin Space Systems
- John Connolly, Mars Study Capability Team Lead, NASA HQ
- Brent Garry, Planetary Geologist, NASA HQ
- Eran Shmidt, Deputy Manager of SpaceIL Program, SpaceIL

6:00 pm  **Reception** – Mezzanine

*Sponsored by Northrop Grumman*
Thursday, March 21

7:00 am  **Registration / Networking / Continental Breakfast**  
*Sponsored by Aerojet Rocketdyne, The Aerospace Corporation, and Ball Aerospace & Technologies Corp.*

8:00 am  **Goddard+**
- A discussion with guest speakers: John Lee, Director, Joint Agency Satellite Division in the Science Mission Directorate, NASA HQ; Elsayed Talaat, Director, Office of Projects, Planning, and Analysis, NOAA

8:30 am  **Science and Human Exploration**
- Jim Crocker, Vice Chair, SSB (Moderator)
- Steve Clarke, Deputy Associate Administrator for Exploration, Science Mission Directorate, NASA HQ
- Jen Eigenbrode, Scientist, NASA GSFC
- Kathy Laurini, President, Osare Space

9:30 am  **Break – Sponsored by Aerojet Rocketdyne, The Aerospace Corporation, and Ball Aerospace & Technologies Corp.**

9:50 am  **The Next Giant Leap in Solar System Missions and Technologies**
- Michael Amato, Business Development, manager and lead engineer of the Planetary Line of Business, NASA GSFC (Moderator)
- Jim Garvin, Chief Scientist, Sciences and Exploration Directorate, NASA GSFC
- Stephanie Getty, Space Scientist, NASA GSFC
- Timothy Linn, EDL Manager & Deputy Program Manager for InSight Mars Lander, Lockheed Martin Space Systems
- Brent Sherwood, Program Manager, Solar System Mission Formulation, NASA JPL

10:50 am  **Astrophysics: Looking Out and Looking Ahead**
- Mark Clampin, Director, Sciences and Exploration Directorate, NASA GSFC (Moderator)
- Julie McEnery, Fermi Project Scientist and Astrophysicist, NASA GSFC
- Rebecca Oppenheimer, Comparative Exoplanetary Scientist, American Museum of Natural History
- Adam Riess, Astrophysicist and Bloomberg Distinguished Professor, JHU

11:50 am  **Goddard+**
- John Mather, Senior Project Scientist, JWST, NASA GSFC
12:30 pm  **Luncheon and Awards Presentations with Guest Speaker – Solidarity Hall**
- Neil Armstrong Space Flight Achievement Award: Parker Solar Probe Mission Team
- Space Flight Award: Ann P. Over
- Guest Speaker: Scott Pace, Executive Secretary, National Space Council

*Sponsored by The Boeing Company*

2:30 pm  **Future Directions in Heliophysics**
- Nicky Fox, Director, Heliophysics Division, NASA HQ (Moderator)
- Vassilis Angelopoulos, Professor of Space Physics, UCLA
- Holly Gilbert, Director, Heliophysics Science Division, NASA GSFC
- Ralph McNutt, Space Physicist, Space Exploration Sector, JHU/APL
- Jim Spann, Chief Scientist, Science and Technology Directorate, NASA MSFC

3:30 pm  **Break – Sponsored by Aerojet Rocketdyne, The Aerospace Corporation, and Ball Aerospace & Technologies Corp.**

3:50 pm  **And Beyond… the Next 60 Years of NASA**
- Steve Mackwell, Deputy Executive Officer, American Institute of Physics (Moderator)
- Ved Chirayath, Research Scientist, Earth Sciences Division, NASA Ames Research Center
- Alexa Halford, Space Weather Physicist, Space Sciences Department, The Aerospace Corporation
- Sarah Stewart Johnson, Assistant Professor, Georgetown University
- Daniel Kocevski, Research Astrophysicist, NASA MSFC

4:50 pm  **Goddard+**
- Christyl Johnson, Deputy Director for Technology and Research Investments, NASA GSFC

5:20 pm  **Closing Remarks**
- Chris Scolese, Director, NASA GSFC

5:30 pm  **Reception – Mezzanine**
Thank you to the 2019 Planning Committee

Stephanie Uz, Chair – NASA Goddard Space Flight Center

Dan Adams – United Launch Alliance
Elena Adams – Johns Hopkins Applied Physics Laboratory
Emily Boster – Lockheed Martin
Michael Calabrese – NASA Goddard Space Flight Center, Retired
Tony Comberiate – Maryland Business Roundtable
Jacki Cortese – Blue Origin
Stephanie Getty – NASA Goddard Space Flight Center
Derek Hodgins – Northrop Grumman Innovation Systems
Andria Kelly – Ball Aerospace
Patricia Maloney – The Aerospace Corporation
Bruce Morris – RUAG Space USA
Kathy Nado – NASA Headquarters
Colin Nugen – Lockheed Martin
Cynthia O’Carroll – NASA Goddard Space Flight Center
Sophia Porter – Johns Hopkins University
Patrick Rouin – American Astronautical Society
Mina Samii – ERT Corp
Harley Thronson – NASA Goddard Space Flight Center
Jim Way – American Astronautical Society
Pamela Workings – The Boeing Company

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 Goddard Symposium

Please join us at these upcoming events:

Inaugural John H. Glenn Memorial Symposium
July 10-12, 2019 | Cleveland, Ohio
astronautical.org/glenn

12th Annual Wernher von Braun Memorial Symposium
September 10-12, 2019 | Huntsville, Alabama
astronautical.org/vonbraun

American Astronautical Society

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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