

**AMERICAN ASTRONAUTICAL SOCIETY**

**ROBERT H. GODDARD  
MEMORIAL SYMPOSIUM**

***PLANETARY STEWARDSHIP***



May 4-6, 2021

Online

**An American Astronautical Society Symposium**  
*in conjunction with the*  
**NASA Goddard Space Flight Center**

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IN CONJUNCTION WITH



NASA Goddard Space Flight Center

Tuesday, May 4

\* All times EDT

11:00 am **Welcome Remarks**

- **Alan DeLuna**, President, American Astronautical Society
- **Dennis Andrucyk**, Director, NASA Goddard Space Flight Center (GSFC)

11:15 am **Keynote Speaker**

- Introduction: **Joe Poist**, Vice President, NASA/NOAA Solutions, SAIC
- **Thomas Zurbuchen**, Associate Administrator, SMD, NASA HQ

11:45 am **Eyes Wide Open: Space-Based Observations and Data Collection**

- **Christa Peters-Lidard**, Chief Scientist & Deputy Director for Hydrosphere, Biosphere, and Geophysics, NASA GSFC (Moderator)
- **Douglas Morton**, Chief, Biospheric Sciences Laboratory, NASA GSFC
- **Tom Neumann**, Chief, Cryospheric Sciences Lab, NASA GSFC
- **Christopher Orndorff**, Senior Manager, Technology Sales, Maxar
- **Pam Sullivan**, Program Director, GOES-R System, NOAA

12:45 pm **Luncheon Break**

1:10 pm **AAS Space Technology Award Presentation**

- **Dante Lauretta**, Regents Professor, Principal Investigator, OSIRIS-REx, University of Arizona

1:15 pm **Data Deluge: Innovative Approaches to Exploit the Flood of Big Data**

- **Mark Clampin**, Director of the Sciences and Exploration Directorate, NASA GSFC (Moderator)
- **Megan Ansdell**, Program Officer, Planetary Science Division, NASA HQ
- **Newton Campbell**, Senior Principal Solutions Architect, SAIC
- **Hannah Kerner**, Assistant Research Professor, UMD GEOG

2:15 pm **Goddard+**

- **Karen St. Germain**, Earth Science Division Director, NASA HQ

2:35 pm **Novel Missions, Partnerships, and Platforms for Climate Research**

- **Eugenie Euskirchen**, Associate Professor, University of Alaska Fairbanks (Moderator)
- **Cassandra Ely**, Director, MethaneSAT LLC
- **Uwe Knodt**, Program Manager/Head of Department, German Aerospace Center (DLR)
- **Heath Lester**, MUSES Payload Operations Manager, Teledyne Brown Engineering
- **Berrien Moore**, Principal Investigator, Geostationary Carbon Observatory (GeoCarb); Director, National Weather Center, Oklahoma University
- **Ray Nassar**, Research Scientist and Principal Investigator of the proposed Arctic Observing Mission (AOM), Climate Research Division, Environment and Climate Change Canada (ECCC)

Wednesday, May 5

\* All times EDT

11:00 am **Keynote Speaker**

- Introduction: **Lisa Callahan**, Vice President and General Manager, Commercial Civil Space, Lockheed Martin Corporation
- **Gavin Schmidt**, Senior Climate Advisor, NASA HQ

11:30 am **Towards Climate Solutions: From needs-driven observations to solar geoengineering research**

- **Danielle Wood**, Director of the Space Enabled Research Group, MIT Media Lab (Moderator)
- **Raha Hakimdavar**, Director of Space Sciences, Ball Aerospace
- **David Keith**, Professor of Applied Physics, Harvard
- **Kate Ricke**, Assistant Professor, School of Global Policy and Strategy, UCSD
- **JP Walsh**, Professor of Oceanography & Director, Coastal Resources Center, University of Rhode Island

12:30 pm **Hitching a Ride: Commercial Human Spaceflight – Enabling Research & Science**

- **Phil McAlister**, Director of Commercial Spaceflight, NASA HQ (Moderator)
- **Sirisha Bandla**, Vice President of Government Affairs, Virgin Galactic
- **Christian Maender**, Director, In-Space Manufacturing & Research, Axiom Space
- **Tommy Sanford**, Executive Director, Commercial Spaceflight Federation
- **Erika Wagner**, Payload Sales Director, Blue Origin

1:30 pm **Luncheon Break**

2:00 pm **Goddard+**

- **Nicky Fox**, Heliophysics Division Director, SMD, NASA HQ

2:20 pm **Fun in the Sun: Advancing the Exploration of Space Weather**

- **Nicole Duncan**, Heliophysics Mission Area Lead, Ball Aerospace (Moderator)
- **Antti Pulkkinen**, Director of the Heliophysics Science Division, NASA GSFC
- **Nour Raouafi**, Senior Scientist, JHU APL
- **Elsayed Talaat**, Director, Office of Projects, Planning, and Analysis, NOAA

3:20 pm **Moving Out: Technologies for Sustainable Exploration**

- **Jim Reuter**, Associate Administrator, STMD, NASA HQ (Moderator)
- **Joe Anderson**, VP of Operations and Business Development, Space Logistics LLC, Northrop Grumman
- **Elliot Carol**, CEO, Lunar Resources, Inc.
- **Kate Kelly**, Advanced Nuclear Systems Program Manager, BWXT
- **Kerry Timmons**, Orion Systems Engineering Design & Integration Senior Manager, Lockheed Martin

Thursday, May 6

\* All times EDT

11:00 am **AAS Awards/Fellows Presentation**

- **Barbara Giles**, Senior Project Scientist, Magnetospheric Multiscale, NASA GSFC
- **Marcello Romano**, Professor, Naval Postgraduate School in California
- **Russell Carpenter**, Deputy Project Manager/Technical, Space Science Mission Operations, NASA GSFC

11:30 am **Deep Space Science: Humans and Robots Exploring Together**

- **Joel Kearns**, Deputy Associate Administrator for Exploration, SMD, NASA HQ (Moderator)
- **Barbara Cohen**, Planetary Scientist, NASA GSFC
- **Rachel Klima**, Planetary Geologist, JHU APL
- **Clive Neal**, Professor of Planetary Geology, University of Notre Dame

12:30 pm **Luncheon Break**

1:00 pm **Keynote Speaker**

- Introduction: **Makenzie Lystrup**, Vice President & General Manager, Civil Space, Ball Aerospace
- **Ellen Stofan**, Under Secretary for Science and Research, Smithsonian

1:30 pm **Exoplanets and Unifying Space Sciences**

- **Giada Arney**, Research Space Scientist, Planetary Systems Laboratory, NASA GSFC (Moderator)
- **Kathy Mandt**, Chief Scientist for Exoplanets, JHU APL
- **Alison Nordt**, Astrophysics Instruments Senior Manager, Lockheed Martin
- **Chris Reinhard**, Associate Professor, School of Earth & Atmospheric Sciences, Georgia Tech
- **Eddie Schwieterman**, Assistant Professor of Astrobiology, Department of Earth and Planetary Sciences, UC Riverside

2:30 pm **Goddard+**

- **Don Beyer**, U.S. Representative for Virginia's 8th Congressional District; Chair, House Science, Space, and Technology Committee's Subcommittee on Space and Aeronautics

2:50 pm **It's My Turn: Collaboration and Coordination of Ground and Space Telescopes**

- **John O'Meara**, Chief Scientist, W.M. Keck Observatory (Moderator)
- **Jonathan Arenberg**, Chief Mission Architect, Science and Robotic Exploration, Northrop Grumman Space Systems
- **Heidi Hammel**, Interdisciplinary Scientist on the James Webb Telescope Project, AURA
- **Ashlee Wilkins**, House SST Committee

3:50 pm **Closing Remarks**

- **Alan DeLuna**, President, American Astronautical Society

## Thank you to the 2021 Planning Committee

Committee Co-Chairs:

**Brendan Curry – The Planetary Society**  
**Michelle Thaller – NASA Goddard Space Flight Center**

Debbie Batson - Teledyne Brown Engineering  
Kelsey Cadow – American Astronautical Society  
Cassie Camp – Ball Aerospace  
Jacki Cortese - Blue Origin  
Julie Crooke - NASA GSFC  
Brendan Curry - The Planetary Society  
Darrell Dela Rosa – NASA GSFC  
Alan DeLuna - American Astronautical Society  
Abby Dickes - Maxar  
Martin Frederick - Northrop Grumman  
Shawn Goldman - NASA GSFC  
Lewis Groswald – Lockheed Martin  
Kathleen Karika - Maxar

Thomas Kelecyc - L3Harris  
Kath Laurini - Dynetics  
James May - Boeing  
Evan Petrone – Ball Aerospace  
Sarah Robertson - American Astronautical Society  
Patrick Rouin - American Astronautical Society  
Mina Samii - Columbus Technology  
Eric Stellrecht - Moog  
Michelle Thaller - NASA GSFC  
Christian Wallisch – The Aerospace Corporation  
Jim Way - American Astronautical Society  
Emily Wilson - NASA GSFC

## Thank you for attending the Robert H. Goddard Memorial Symposium!

Please join us at our upcoming event:

**3<sup>rd</sup> Annual John Glenn Memorial Symposium**  
July 13-15, 2021 | Online | [astronautical.org/glenn](https://astronautical.org/glenn)



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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