



# The Inaugural **John Glenn** Memorial Symposium

*Powering Innovation  
from the Sky to the Stars*

July 10-12, 2019  
Huntington Convention Center of Cleveland  
Cleveland, Ohio

**An American Astronautical Society Symposium**

*in conjunction with the*

**NASA Glenn Research Center**



American Astronautical Society

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## Contact Us Today

Paige McCullough  
571-278-4090  
pmccullough@spacenews.com

Kamal Flucker  
571-402-5706  
kflucker@spacenews.com

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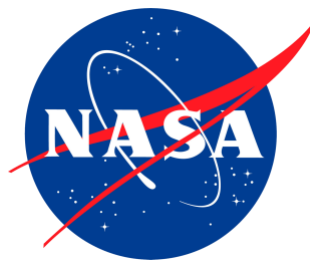
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# Program

## Wednesday, July 10

- 1:00 pm      **Tour: NASA Glenn Test Facility**
- 6:00 pm      **Glenn Symposium Welcome Reception** – *Great Lakes Science Center*  
*Sponsored by Aerojet Rocketdyne*

## Thursday, July 11

- 7:00 am      **AAS Corporate Members Breakfast** (*Invitation Only*)
- 7:00 am      **Registration / Networking / Continental Breakfast**
- 8:00 am      **Introduction and Welcome** –  
• Jim Way, Executive Director, American Astronautical Society
- 8:15 am      **Opening Remarks**  
• Janet Kavandi, Director, NASA Glenn Research Center
- 8:30 am      **Opening Speaker**
- 9:00 am      **We're Big Fans: A Discussion of Atmospheric Propulsion**  
• Graham Warwick, Technology Managing Editor, Aviation Week & Space Technology  
• Darin DiTommaso, General Manager, Advanced Technology Operation, General Electric  
• Mark Wilson, Chief Operating Officer, Rolls-Royce  
• Geoff Hunt, Senior Vice President, Engineering, Pratt & Whitney
- 10:05 am     **Back to the Moon: The Lunar Gateway**  
• William H. Gerstenmaier, Associate Administrator, Human Exploration and Operations, NASA HQ
- 10:25 am     **Networking Break**
- 10:45 am     **Macauley Grant Winning Presentations**
- 11:05 am     **Fly Softly: Advances in Low Boom Supersonics**  
• Ed Waggoner, Director, Integrated Systems Research Program, ARMD, NASA HQ (Moderator)  
• Gene Holloway, Vice President and Program Manager, Boomless Cruise and Environmental Responsibility, Aerion Supersonic  
• David Richardson, Director, Air Vehicle Design & Technology, Skunk Works, Lockheed Martin Aeronautics Company

- Laura Smith-Velazquez, Senior Human Factors & Systems Engineer, Collins Aerospace

12:15 pm **Luncheon with Guest Speaker**

1:45 pm **Making It Happen: Critical Technologies Investments**

- Douglas Terrier, Chief Technologist, NASA HQ (Moderator)
- Ken Bowersox, Deputy Associate Administrator, Human Exploration and Operations Mission Directorate, NASA HQ
- Robert Pearce, Deputy Associate Administrator, Aeronautics Research Mission Directorate, NASA HQ
- Jim Reuter, Associate Administrator, Space Technology Mission Directorate, NASA HQ
- Thomas Zurbuchen, Associate Administrator, Science Mission Directorate, NASA HQ

2:50 pm **The Legacy of John Glenn**

- David Glenn, Son of John Glenn

3:10 pm **Networking Break**

3:30 pm **Space Propulsion**

- Trudy Kortez, Chief, Human Exploration & Space Operations, NASA Glenn Research Center (Moderator)
- Franklin Chang Diaz, Founder and CEO, Ad Astra Rocket Company
- Jonathan Cirtain, Vice President, Advanced Technology Programs, BWX Technologies
- Jim Maser, Senior Vice President, Space, Aerojet Rocketdyne
- Mitchell Walker, Professor of Aerospace Engineering, Georgia Tech-College of Engineering

4:35 pm **Space Power Systems**

- Carol Lane, President, American Astronautical Society (Moderator)
- Tracey Bishop, Deputy Assistant Secretary for Nuclear Infrastructure Programs Office of Nuclear Energy, US Department of Energy
- John Hamley, Manager, Radioisotope Power Systems Program, NASA Glenn Research Center
- Greg Semrau, Senior Special Projects Engineer, Moog Inc., Space and Defense Group
- Larry Trager, Director, In-Space Power Systems, Aerojet Rocketdyne

6:00 pm **Reception**

## Friday, July 12

- 7:00 am      **Registration / Networking / Continental Breakfast**
- 8:00 am      **Speaker**
- 8:20 am      **Communications and Autonomy**
- Thomas Kashangaki, Systems Director, The Aerospace Corporation (Moderator)
  - Timothy Deaver, Director, US Space Programs, Airbus Defense and Space Inc.
  - Dawn Emerson, Chief, Communications and Intelligent Systems, NASA Glenn Research Center
  - Nelli Mosavi, Van Allen Probes Project Manager, Space Exploration Sector, Applied Physics Laboratory, Johns Hopkins University
  - Badri Younes, Deputy Associate Administrator, Space Communications and Navigation, NASA HQ
- 9:25 am      **Humans Returning to the Moon – More than Flags and Footprints**
- Janet Kavandi, Director, NASA Glenn Research Center (Moderator)
  - Scott Altman, Senior Vice President, Civil Operations, ASRC Federal
  - Robert Curbeam, Vice President, Strategy and Business Development, Space Systems, Northrop Grumman Innovation Systems
  - Steve Lindsey, Vice President, Space Exploration Systems, Sierra Nevada Corporation
  - Sandy Magnus, Executive Director Emeritus, American Institute of Aeronautics and Astronautics
- 10:30 am     **Networking Break**
- 10:50 am     **Hypersonics**
- Mark Lewis, Director, Science and Technology Policy Institute, Institute for Defense Analyses
  - Rodney Bowersox, Director, Texas A&M National Aerothermochemistry and Hypersonics Laboratory
  - Ravinder Chona, Senior Scientist for Structural Integrity, Air Vehicles Directorate, Air Force Research Laboratory
  - Jay Dryer, Deputy Associate Administrator, Aeronautics Research Mission Directorate, NASA HQ
- 12:00 pm     **Luncheon and Awards Presentations with Guest Speaker**
- Charlie Bolden, Former NASA Administrator, Former Astronaut

## Thank you to the 2019 Planning Committee

**Janet Kavandi, Honorary Chair – NASA Glenn Research Center**

Gale Allen – ASGSR  
Vince Bilardo – The Aerospace Corporation  
Ron Birk – The Aerospace Corporation  
Michael Ciancone – NASA Johnson Space Center  
Alan DeLuna – American Astronautical Society  
Jim Free – Peerless Technologies  
Josh Freeh – NASA Glenn Research Center  
Rebecca Griffin – Griffin Space  
Carlos Grodsinsky – Zin Technologies

Ashley Gudzak – Aerojet Rocketdyne  
Lori Manthey – NASA Glenn Research Center  
Kathy Nado – NASA HQ  
Marla Pérez-Davis – NASA Glenn Research Center  
Patrick Rouin – American Astronautical Society  
Brett Silcox – BWX Technologies  
Frank Slazer – Aerojet Rocketdyne  
Jim Way – American Astronautical Society

## Thank you for attending the Glenn Symposium

**Please join us at these upcoming events:**

### **International Space Station Research & Development Conference**

July 29 – August 1, 2019 | Atlanta, Georgia  
[issconference.org](http://issconference.org)

### **12<sup>th</sup> Annual Wernher von Braun Memorial Symposium**

September 10-12, 2019 | Huntsville, Alabama  
[astronautical.org/vonbraun](http://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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**– John Glenn Memorial Symposium –**