



The Inaugural **John Glenn** Memorial Symposium

*Powering Innovation
from the Sky to the Stars*

July 10-12, 2019
Global Center for Health Innovation
Cleveland, Ohio

An American Astronautical Society Symposium

in conjunction with the

NASA Glenn Research Center



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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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Program

Wednesday, July 10

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

Thursday, July 11

- 7:00 am **Registration / Networking / Continental Breakfast**
Sponsored by Pratt & Whitney
- 8:00 am **Introduction and Welcome ([Video](#))**
 - Carol Lane, President, American Astronautical Society
- 8:15 am **Opening Remarks ([Video](#))**
 - Janet Kavandi, Director, NASA Glenn Research Center, Former Astronaut
- 8:30 am **Opening Speaker ([Video](#))**
 - James W. Morhard, Deputy Administrator, NASA HQ
- 9:00 am **We're Big Fans: A Discussion of Atmospheric Propulsion ([Video](#))**
 - Graham Warwick, Technology Managing Editor, Aviation Week & Space Technology (Moderator)
 -  • Geoff Hunt, Senior Vice President, Engineering, Pratt & Whitney
 - Karl Sheldon, General Manager, Aviation Engineering Division, General Electric Aviation
 -  • Mark Wilson, Chief Operating Officer, Rolls-Royce LibertyWorks
- 10:05 am **Back to the Moon: The Lunar Gateway ([Video](#))**
 -  • Ken Bowersox, Acting Associate Administrator, Human Exploration and Operations, NASA HQ
- 10:25 am **Networking Break – *Sponsored by Pratt & Whitney***
- 10:45 am **Macauley Grant Winning Presentations ([Video](#))**
 -  • Miguel Ramirez, Purdue University
 -  • Josh Wolny, George Washington University
- 11:05 am **Fly Softly: Advances in Low Boom Supersonics ([Video](#))**
 -  • Ed Waggoner, Director, Integrated Aviation Systems Program, Aeronautics Research Mission Directorate, NASA HQ (Moderator)
 -  • Gene Holloway, Vice President of Advanced Programs, Aerion Supersonic
 - David Hyde, Director, Environmental Policy, Aerospace Industries Association

- 📺 • 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 ([Video](#))**

Sponsored by Moog Inc., Space and Defense Group

- Fred Kennedy, Former Director, Space Development Agency

1:45 pm 📺 **Making It Happen: Critical Technologies Investments ([Video](#))**

- Douglas Terrier, Chief Technologist, NASA HQ (Moderator)
- Ken Bowersox, Deputy Associate Administrator, Human Exploration and Operations Mission Directorate, NASA HQ, Former Astronaut
- Joel Kearns, Director, Facilities, Test and Manufacturing, NASA Glenn Research Center
- Robert Pearce, Deputy Associate Administrator, Aeronautics Research Mission Directorate, NASA HQ
- Jim Reuter, Associate Administrator, Space Technology Mission Directorate, NASA HQ

2:50 pm **The Legacy of John Glenn ([Video](#))**

- David Glenn, Son of John Glenn

3:10 pm **Networking Break – *Sponsored by Pratt & Whitney***

3:30 pm **Space Propulsion ([Video](#))**

- Trudy Kortez, Chief, Human Exploration & Space Operations, NASA Glenn Research Center (Moderator)

- 📺 • Franklin Chang Díaz, Founder and CEO, Ad Astra Rocket Company, Former Astronaut

- 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 ([Video](#))**

- 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 – *St. Clair Ballroom***

Sponsored by Dynetics

Friday, July 12

- 7:00 am **Registration / Networking / Continental Breakfast**
Sponsored by The Aerospace Corporation
- 8:00 am **Power and Propulsion Element Project Overview ([Video](#))**
 • Michael J. Barrett, Power and Propulsion Element Project Manager,
NASA Glenn Research Center
- 8:20 am **Communications and Autonomy ([Video](#))**
• 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 ([Video](#))**
• Janet Kavandi, Director, NASA Glenn Research Center, Former Astronaut
(Moderator)
• Robert Curbeam, Vice President, Business Development, Space Systems,
Northrop Grumman Innovation Systems, Former Astronaut
• Steve Lindsey, Vice President, Space Exploration Systems, Sierra Nevada
Corporation, Former Astronaut
• Sandy Magnus, Executive Director Emeritus, American Institute of
Aeronautics and Astronautics, Former Astronaut
• Doug Wheelock, Associate Director, Aeronautics, NASA Glenn Research
Center
- 10:30 am **Networking Break – *Sponsored by The Aerospace Corporation***
- 10:50 am **Hypersonics ([Video](#))**
• Mark Lewis, Director, Science and Technology Policy Institute,
Institute for Defense Analyses (Moderator)
• Rodney Bowersox, Director, Texas A&M National Aerothermochemistry
and Hypersonics Laboratory
• Ravi Chona, USAF Senior Scientist for Structures and Director, AFRL
Structural Sciences Center; Aerospace Systems Directorate,
Air Force Research Laboratory
• Jay Dryer, Deputy Associate Administrator for Programs, Aeronautics
Research Mission Directorate, NASA HQ
- 12:00 pm **Luncheon and Awards Presentation with Guest Speaker ([Video](#))**
• 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
Anne Borchert – Case Western Reserve University
Michael Ciancone – NASA Johnson Space Center
Alan DeLuna – American Astronautical Society
Josh Freeh – NASA Glenn Research Center
Rebecca Griffin – Griffin Space
Carlos Grodsinsky – Zin Technologies

Lori Manthey – NASA Glenn Research Center
Kathy Nado – NASA HQ
Marla Pérez-Davis – NASA Glenn Research Center
Ashley Riser – Aerojet Rocketdyne
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

12th Annual Wernher von Braun Memorial Symposium

September 10-12, 2019 | 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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