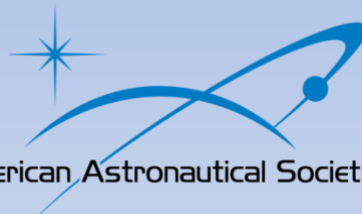


UNITED STATES



American Astronautical Society

The 4th Annual
**John Glenn
Memorial Symposium**

*An Electrifying Future:
Earth and Space Sustainability*

July 18-20, 2022

Tinkham Veale University Center
Case Western Reserve University
Cleveland, Ohio

An American Astronautical Society Symposium

in conjunction with

Case Western Reserve University

and the

NASA Glenn Research Center



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Monday, July 18

1:30 pm **Welcome Remarks**

- Alan DeLuna, President, American Astronautical Society
- Eric Kaler, President, Case Western Reserve University
- Dawn Schaible, Acting Deputy Center Director, NASA Glenn Research Center

1:50 pm **NASA Gateway Status Update – [Single Slide Deck for Full Panel](#)**

- Mike Barrett, Director, Space Flight Systems, NASA Glenn (Moderator)
- Yasmin Ali, Orion Docking Manager, Orion Crew and Service Module, NASA Johnson
- Sean Fuller, International Partner Manager, Gateway Program, NASA
- Dave Irimies, NASA Gateway
- Ronald Mueller, Associate Project Manager, Deep Space Logistics, NASA
- Jarrett Quasny, Gateway Program Planning & Control Deputy Manager, NASA

2:50 pm **GlennExtra Speaker**

- Justine Kasznica, Founding Board Member, Keystone Space Collaborative

3:10 pm *Networking Break*

3:30 pm **Air Taxis, Mobility, Traffic Management**

- Parimal Kopardekar, Director of NASA Aeronautics Research Institute, NASA (Moderator)
- Fred Judson, Director of Ohio UAS Center, Ohio Department of Transportation/DriveOhio – [Slides](#)
- David Oord, Policy Manager, Wisk – [Slides](#)

4:30 pm **Keynote Speaker**

- Mark Kirasich, Deputy Associate Administrator for Artemis Campaign Development, NASA

5:00 pm **Reception**

Tuesday, July 19

7:15 am **Networking Breakfast**

8:15 am **Future Communications: Challenges, Solutions, and Providers**

- Jacki Houts, Chief of Space Communications and Navigation, NASA Glenn (Moderator)
- Philip Baldwin, Network Operations Manager, NASA HQ – [Slides](#)
- Kul Bhasin, Chief Executive Officer, Comsat Architects – [Slides](#)
- Lindsay Papsidero, Program Manager Lunar Communications, Lockheed Martin – [Slides](#)

9:15 am **LEO's Getting Crowded: Space Traffic and Debris Management**

- Carissa Christensen, Founder, Chief Executive Officer, BryceTech (Moderator)
- Doug Chunn, Vice President of Sales, Slingshot Aerospace
- Patricia Cooper, Former Vice President Satellite Government Affairs, SpaceX
- Dianne Poster, NIST Liaison, Space Commerce

10:15 am *Networking Break*

10:35 am **Supporting Space Sustainability: The Future of ISAM**

- Ezinne Uzo-Okoro, Assistant Director for Space Policy, White House OSTP (Moderator)
- Jeremy Schiel, Co-Founder, Chief Development Officer, OrbitFab Inc.
- Karl Stolleis, Program Manager, AFRL Space Vehicles Directorate – [Slides](#)
- Al Tadros, Chief Technology Officer, Redwire – [Slides](#)
- Deborah Tomek, Senior Advisor, NASA – [Slides](#)

11:35 am **Essential Technology: The Future of Energy Storage**

- Carolyn Mercer, Chief Technologist, Science Mission Directorate, NASA (Moderator)
- Rohan Akolkar, Milton and Tamar Maltz Professor and Ohio Eminent Scholar, Case Western Reserve University
- Ian Jakupca, Fuel Cell Technology Lead, NASA Glenn
- Judy Jeevarajan, Vice President, Research, Underwriters Laboratories Inc.
- Madhu Raghavan, Global Research and Development Group Manager, GM

12:35 pm **Luncheon with Awards and Keynote Speaker**

- Trevor Brown, Dean, John Glenn College of Public Affairs, The Ohio State University

Tuesday, July 19 – CWRU Extras

*Our host, Case Western Reserve University, has organized two tours on Tuesday afternoon to showcase their amazing work in technology and innovation. **Sign up at the AAS Registration Desk at any time on Monday and Tuesday.***

Tour of Sears think[box] – 2:30-3:00pm – Capacity: 15 people

Housed in an iconic seven-story, 50,000-square-foot facility at Case Western Reserve University, Sears think[box] is a world-class innovation center, makerspace and entrepreneurship ecosystem that welcomes thousands of visitors each year—and is open to everyone at no cost.

Backed by the expertise of an R1 research institution, think[box] opened in its current location in 2015 to bring together resources for venture creation and entrepreneurship under one roof. Whether you're looking for prototyping and fabrication equipment, space to brainstorm, legal and business support to commercialize intellectual property, or guidance to create market-ready products with real-world impact, our team at think[box] can help.

Here, students have launched startups that change the trajectory of their careers; researchers have forged new partnerships and proven ideas viable; industry partners have discovered space to find new inspiration, and community members have turned part-time tinkering into full-time doing. It all goes to show, Sears think[box] is the ideal place to turn your idea into a reality.

Interactive Commons HoloLens Demonstration – 2:30-4:00pm, every 10 minutes

The Interactive Commons (IC) was established at Case Western Reserve University (CWRU) in 2014. With a full-time team of computer programmers, artists, and educators, they have the expertise and capacity to bring concepts into fully-fledged extended reality solutions all in-house. While developing new ways students can learn, the IC is aligning CWRU with the future of work — where bleeding-edge technology powers collaborative and connected spaces.

The IC is best known for its applications for the Microsoft HoloLens mixed-reality headset, including the development of the HoloAnatomy® Software Suite, which is used by CWRU School of Medicine and more than a dozen other partner institutions to learn medical anatomy in large, instructor-led classroom settings. Learning-outcomes research shows that students using HoloAnatomy® learn the information twice as fast as traditional cadaver-based dissection and retain knowledge better.

CASE Alumni Reception – 5:00-7:00pm

Join fellow CWRU alumni at the Jolly Scholar/Thwing Center who are employed by NASA for a fun, informal gathering. Light appetizers provided, Cash Bar.

Wednesday, July 20

7:45 am **Networking Breakfast**

8:45 am **GlennExtra Speaker**

- Kris Brown, Deputy Associate Administrator for STEM Engagement, NASA - [Slides](#)

9:05 am **Next Generation Aviation Propulsion: We're Going Places**

- Rich Wahls, Strategic Technical Advisor, NASA HQ (Moderator)
- Christine Andrews, Hybrid Electric Systems Leader, GE Aviation - [Slides](#)
- Brad Belcher, Program Director, Rolls-Royce - [Slides](#)
- Barbara Esker, Acting Director, Advanced Air Vehicles Program, NASA - [Slides](#)
- Jean Thomassin, Executive Director, PW Canada - [Slides](#)

10:05 am *Networking Break*

10:25 am **Beyond the Tech: Power and Propulsion**

- Stephen Edwards, Mission Architect, NASA Marshall (Moderator)
- Vince Bilardo, Senior Executive Program Director, Maxar - [Slides](#)
- Christine Edwards, Commercial Civil Space Deputy Chief Architect, Lockheed Martin - [Slides](#)
- Andy Hoskins, Government Relations Manager, Aerojet Rocketdyne - [Slides](#)
- Kelsa Palomares, Nuclear Systems Engineering Manager, Analytical Mechanics Associates - [Slides](#)

11:25 am **Commercial Capabilities to Support Lunar Exploration**

- Regina Blue, Deputy, Commercial Lunar Payload Services, NASA Johnson (Moderator)
- Timothy Crain, Chief Technology Officer, Intuitive Machines - [Slides](#)
- Shea Ferring, Senior Vice President, Firefly Aerospace - [Slides](#)
- Dan Hendrickson, Vice President of Business Development, Astrobotic - [Slides](#)
- Robert Kelso, Program Director, OrbitBeyond

12:25 pm **Luncheon with Award and Keynote Discussion**

- Jim Reuter, Associate Administrator, NASA Space Technology Mission Directorate
- Jimmy Kenyon, Acting Director, NASA Glenn

Thank you to the 2022 Planning Committee

Chair: Jimmy Kenyon, NASA Glenn Research Center

Industry Co-Chair: Steve Witkowski, Moog

Gale Allen, G-Allen Strategies, LLC
Debbie Batson, Teledyne Brown Engineering
Anne Borchert, Case Western Reserve University
Frank Bremmer, Lockheed Martin
Michael Ciancone, NASA Johnson Space Center
Brendan Curry, The Planetary Society
Alan DeLuna, American Astronautical Society
Abby Dickes, Voyager Space Holdings
Mike French, AIA
Rebecca Griffin, Griffin Space
Carlos Grodsinsky, ZIN Technologies
John Horack, The Ohio State University
Andy Hoskins, Aerojet Rocketdyne
Michael Johanson, ZIN Technologies
Molly Kearns, NASA Glenn Research Center

Ya-Ting Liao, Case Western Reserve University
Lori Manthey, NASA Glenn Research Center
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Carie Mullins, BryceTech
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Katy Summerlin, Maxar
Jim Way, American Astronautical Society
Bryan Willhoite, Boeing
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Thank you for attending the Glenn Symposium

Please join us at our next event:

15th Annual Wernher von Braun Memorial Symposium

October 26-28, 2022 | Huntsville, Alabama

astronautical.org/vonbraun



The American Astronautical Society leads and advances the discussion around space.

Since 1954, AAS has been the premier network of current and future space professionals dedicated to advancing all space activities. The Society has long been recognized for the excellence of our national symposia, technical conferences, and publications and for our impact on shaping the U.S. space program. AAS members have opportunities to meet and connect with leaders in the space industry to exchange information and ideas, discuss career aspirations, and expand their knowledge and expertise.

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