National Aeronautics and Space Administration



# AeroSpace

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# NASA's Modern History Makers

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#### National Safety Month

Summer is just around the corner, and as it approaches, I want to make you aware that June is National Safety Month. We will join the National Safety Council in the annual observance to help keep each other safe from the workplace to anyplace. This year's weekly topics will include, Emergency Preparedness; Slips, Trips, and Falls; Heat-Related Illness; and Hazard Recognition, which is timely information since we recently saw the highest Glenn on-site occupancy rate for 2023.

Starting the first week of June, visit Inside Glenn for resources on these topics to share and discuss among your groups and co-workers. Finally, with new employees and summer interns joining us, please be mindful of safety and enjoy the summer!



#### AeroSpace Frontiers

is an official publication of NASA's Glenn Research Center. It is published the second Friday of each month by the Office of Communications in the interest of the Glenn workforce, retirees, government officials, business leaders, and the general public.

Submit short articles and calendar items to the editor at doreen.b.zudell@nasa.gov.

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# We're Making History!

When we think of the word "history," we typically think of the past, but today's employees are making tomorrow's history.

NASA is in a Golden Era of aeronautics and space exploration. In partnership with commercial and private businesses, the agency is currently making history with significant missions such as Artemis, X-57 Maxwell, and X-59 Quesst.

To highlight these futuristic missions and the people who perform the work, Glenn's Office of Communications' writers and digital specialists, in partnership with the Imaging Technology Center, created the NASA's Modern History Makers series. The series showcases members of NASA Glenn's workforce who make these remarkable missions possible.

These articles are featured on Glenn's external website, www.nasa.gov/ ModernHistoryMakers, as well as Glenn's Instagram.

The popularity of these articles has led the managers of multiple agency webpages and social media accounts to share them, including Moon to Mars, Aeronautics, Women at NASA, NASA People, and the agency's homepage. This increases their visibility and allows us to reach a broader audience when sharing Glenn stories.

Note: In addition to the NASA Modern History Makers featured in this story, more can be found on the website and Instagram.



When Kristen Bury began her career at NASA Glenn, Artemis was a mere set of blueprints.



When Jarred Wilhite first stepped foot in Glenn, he was a fifth-grade student who dreamed of a career in science or technology.

#### On the cover:

*Electrical engineer Ernest Williams stands in Vacuum Facility 6 in the Electric Propulsion and Power Laboratory. He overcame a severe illness to become one of NASA's Modern History Makers.* 

GRC-2023-C-00575

Photo by Bridget Caswell



GRC-2023-C-01100 Lyndsey McMillon-Brown has taken her love of art, books, and the environment and turned it into a career at Glenn.



GRC-2023-C-02352

Susanah Kowalewski shared a love of space and a birthday with Sally Ride, so in her mind she would become an astronaut.

# Town Hall Addresses Budget, On-Site Work, and More

New Deputy Center Director Dawn Schaible joined Center Director Dr. Jimmy Kenyon, Associate Director Larry Sivic, and others in addressing several timely topics during Glenn's Town Hall meeting on March 30.

Kenyon opened the meeting by recognizing recent accomplishments of individual employees across center organizations. He then formally introduced Schaible as the new deputy center director.

Schaible shared her priorities and her areas of focus for the coming year as deputy center director, which include strengthening project execution by having the right processes, procedures, tools, and employee development in place. In addition, she discussed the need to have a culture that allows for open communication, healthy checks and balances, and sharing of lessons learned.

The results of the 2022 Federal Employee Viewpoint Survey, which is administered annually by the U.S. Office of Personnel Management, were also discussed. Glenn had close to 76% participation, which is the highest in recent years.

"We have to hear from you, and this is one of the primary tools we use," Schaible said, who then shared her thoughts on the responses received from the Glenn workforce. Glenn employees ranked the center high in concern for health and safety, respect, and work-life balance. Schaible noted that even in the top scores, there is still room for improvement. Some of the lower-rated responses centered on motivation, communication, and follow-through by leadership.

To improve in these areas, each directorate developed action plans, and Schaible shared the actions that the center has taken and will take this year. One example is the focus on the center's Diversity, Equity, Inclusion, and Accessibility (DEIA) implementation plan. Progress on the center's action plan will be shared at a future Town Hall.

Kenyon discussed the President's Fiscal Year 2024 Budget request. It represents a nearly 6% increase over Glenn's proposed 2023 budget. "This is a very strong budget request for Glenn," Kenyon said. "The work you all do is important to the agency." Kenyon discussed the administrator's priorities for the agency. He reviewed Glenn's priorities and shared progress toward these priorities.

Schaible addressed the topic of the post-pandemic work environment. She discussed the need to find a new balance between in-person and virtual work-to better balance personal effectiveness and Glenn's overall effectiveness in meeting our mission. The goal is that the new norms elevate center success from good to excellent and ensure a thriving, vibrant future for the center. This means that while the work environment will continue to offer flexibility, more in-person interaction is needed to promote timely communication, rapid problem identification and resolution, knowledge sharing, and relationship building. Due to the diverse work portfolio, Glenn will not be establishing a centerwide policy for on-site work; rather, each directorate will be developing and sharing guidelines for their organization. Key elements for creating presence with a purpose in these guidelines include:

- Meeting our mission, project, and support commitments, including cost, schedule, and technical performance
- Interdependency across organizations—the needs of our teams and of the center must be considered
- Being a learning organization focused on knowledge transfer, mentoring, and sound checks and balances to be a healthy center
- Cultivating a sense of community—established through trusting, professional relationships

Kenyon plans to host quarterly Town Hall meetings to communicate with employees and provide updates on Glenn's progress in meeting our mission and priorities.



Photo by Marvin Smith GRC-2023-C-02083 Glenn's senior leaders at the March 30 town hall.

MAY 2023

# **Robotics Teams Advance to Championship**

Fifty-two teams of high school students, including 12 sponsored by NASA Glenn, competed in the 24th annual FIRST Robotics Buckeye Regional Competition, March 29 through April 1, at Cleveland State University's Wolstein Center. Glenn-sponsored Cincinnati Hills Christian Academy's Beak Squad (Team 4028), pictured, won the regional competition and advanced to the FIRST Championship in Houston. Two other Glenn-sponsored teams, Cleveland Youth Tech Academy's Red Dragons (Team 120), and Wapakoneta High School's Lunar Robotics (Team 9075) also advanced to the FIRST Championship. Glenn supports the event by sponsoring teams, providing mentors, and supplying machine shop technicians on game days. Glenn's Office of STEM Engagement oversees Glenn's activities.



Photo by Bridget Caswell

GRC-2023-C-0198

# Exploring STEM with Schools, Industry

Dave Pleva, Graphics and Visualization Laboratory, standing, assists two students with a virtual reality demonstration during NASA Career Exploration Day at Glenn, March 16. The event brought 11th grade students closer to careers in STEM through hands-on engagement activities; research demonstrations; tours; and a panel discussion with NASA scientists, engineers, and current NASA interns. NASA Glenn, Aerozone Alliance, and the Cleveland Metropolitan School District collaborated on the event.



# Celebrating NASA's Storytellers



Pertz

Dr. Ross-Nazzal

The Women at Glenn Advisory Group hosted this year's Women's History Month event, "Celebrating Women Who Tell Our Stories," on March 30. It featured two speakers whose mission is to research, preserve, and share the work being done across the agency. Glenn's Robin Pertz, the Library, History, Archives, and Records supervisor, and Johnson Space Center's Dr. Jennifer Ross-Nazzal, NASA Human Spaceflight historian and author, highlighted influential women and shared how the speakers' own stories have intersected with NASA.

### **Dr. Shyne Named AIAA Fellow**

The American Institute of Aeronautics and Astronautics (AIAA) has named Dr. Rickey Shyne, Glenn's Director of Research and Engineering, a 2023 fellow. AIAA confers the distinction of fellow upon individuals in recognition of their notable and valuable contributions to the arts, sciences, or technology of aeronautics and astronautics. It is the world's largest aerospace technical society.



Dr. Shyne



### **Solar Eclipse Countdown**

On April 8, 2024, Northeast Ohio will have a front row seat to a total solar eclipse. The last time any part of Ohio saw a total solar eclipse was 1806, and after 2024, Ohio will not see another total solar eclipse until 2099. Glenn staff joined the Great Lakes Science Center on April 7 and 8 to begin the countdown to next year's total eclipse of the Sun by offering a one-year-out kickoff event at the science center. Participants enjoyed an eclipse countdown and hands-on activities.

More Than a Memory

**Donald R. Canfield,** 85, a 1998 retiree with 33 years of service, died March 31. He started at NASA Lewis (now Glenn) in 1965 after serving in the U.S. Air Force. He began as a design and operations engineer in the Engineering and Dispatching Branch, Facilities Operations Division. He later headed the Architectural Section in the Facilities Division and became deputy division chief of Facilities. He earned a group achievement award (1981), a special achievement award (1984), and an Exceptional Service Medal (1998). For his online obituary, visit https://tinyurl.com/3d8es5zy.

**Dr. John Klineberg,** 84, who served as center director at NASA Lewis (now Glenn) from 1987 to 1990, died Dec. 31, 2022. He began his NASA career at Ames Research Center and then at NASA Headquarters. Klineberg came to Glenn in 1984 to take the role of deputy director. After serving as Glenn's center director, he transferred to Goddard Space Flight Center as center director. In 1995, Klineberg retired from NASA after earning numerous medals and awards of distinction, including an Emmy, the Presidential Rank of Distinguished Executive, and Meritorious Executive. For his online obituary, visit https://tinyurl.com/mrxdw8yu.



Dr. Klineberg



*Celebrate* Asian American, Native Hawaiian and Pacific Islander *Heritage Month* 

### Congratulations, NASA! Best Place to Work

For an unprecedented 11th consecutive year, NASA has been named the 2022 Best Place to Work in the Federal Government among large agencies by the Partnership for Public Service.



#### Save the Date!





Wednesday, Aug. 9 11 a.m. to 2 p.m. Along Taylor Road at Lewis Field

## **Information Cafe**

Join the Glenn Library staff for the next Information Cafe on Wednesday, May 17, from 11–11:45 a.m., in building 142, room 188, or on Teams. Check Inside Glenn for the topic and link.

POC: robin.n.pertz@nasa.gov

### Glenn Exchange Store Hours Expanded

Monday through Friday 9:00 a.m. to 2:30 p.m.

Research Support Building (164) Lewis Field

Deadline for small items in the June issue is **Wednesday**, **May 17**, noon. News and feature stories require additional time.

# Shadowing Day Returns On-Site at Glenn



GRC-2023-C-02248

Photo by Marvin Smith

Ru-Ching Chen describes features of the 225 cm<sup>2</sup> Supersonic Wind Tunnel in the Engine Research Building. This continuous flow facility is used to study fundamental flow physics and serve as a test bed for instrumentation.



GRC-2023-C-02221 Photo by Bridget Caswell Leah Nakley explains how the Glenn Extreme Environment Rig is used to simulate the surface of Venus and other harsh planetary conditions found in our solar system.

#### High school students from across Ohio traveled to Lewis Field on April 6 to experience a day in the life of a NASA professional. During Glenn's Office of STEM Engagement's Shadowing Day, students explored career opportunities in STEM and business, and learned more about NASA's missions along the way.

"This is the first in-person High School Shadowing Day we've had in a few years, so the implementation of this event was very exciting," said Ebony Moreen, Office of STEM Engagement. "I think it's important for students—especially high schoolers who will soon have to choose a career path and are interested in STEM—to be exposed to opportunities that allow connections with STEM professionals. The face-to-face connections and hands-on experiences made Shadowing Day more interactive and personable."

Dr. Rickey Shyne, director of Research and Engineering, began his NASA career as a summer intern. He welcomed students and adult chaperones and encouraged them to become fully engaged during their visit. "NASA is shaping the world of tomorrow," he said, "and we have some of the best and the brightest people here at Glenn."

Thirty-six students toured world-class facilities, such as NASA Glenn's lcing Research Tunnel and Simulated Lunar Operations Laboratory. They then divided into smaller groups to gain realworld perspectives from Glenn professionals on interests such as space science, business and communications, computer science, graphic design, videography, photography, and various categories of engineering.

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#### **Connect With Glenn**



Read AeroSpace Frontiers online at https://www.nasa.gov/glenn/aerospacefrontiers.