



AeroSpace *frontiers*



Celebrating Summerfest!



DIRECTOR'S SAFETY CORNER

Safety and Health Awareness Event

On Sept. 21, we're hosting our annual Safety and Health Awareness Event. This year's theme is "Go Above and Beyond for Safety!" The morning session will be a safety stand-down to allow all employees to participate and to promote a renewed commitment to safety, whether you're on- or off-site. The program will feature former NASA astronaut Mike Massimino as the keynote speaker, along with vendor booths, the annual health walk/ Golden Shoe competition, and more! This year's program again promises to be an informative and exciting event. Please see Inside Glenn for more information.

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.

Editor: **Doreen B. Zudell**, ATS,
216-433-5317

Design: **Rhys Sampson**, ATS

Managing Editor: **Kelly R. DiFrancesco**



Hundreds Gather for Center Picnic

Nearly 1,700 employees, interns, and retirees came together for the 2023 Glenn Summerfest on Aug. 9—celebrating the 10th annual center picnic. Held in front of the Research Support Building, along Taylor Road at Lewis Field, the event provided lunch, music, activities, exhibits, and entertainment. Other highlights included the annual Vehicle Show, a tour of Glenn's in-house manufacturing facility, and a Glenn Exchange fashion show. Special thanks to the dedicated committee members and all the volunteers who year after year make this event a great experience for us all!



GRC-2023-C-06856

Photo by Jef Janis



GRC-2023-C-06722

Glenn retirees

Photo by Bridget Caswell

On the cover:

Employees, summer interns, and retirees gather together during Glenn's Summerfest.

GRC-2023-C-06779

Photo by Jef Janis



GRC-2023-C-06690

Summerfest Planning Team

Photo by Bridget Caswell



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Shattering the Glass Ceiling



History is peppered with obstacles for women pursuing STEM (Science, Technology, Engineering, and Math) careers, reinforcing this glass ceiling. The glass remains thick for women and other marginalized people. Yet cracks have begun to form.

NASA is embracing inclusion and is pursuing a set of missions that will shatter the highest of glass ceilings: landing the first woman and person of color on the Moon. While the first Moon landing in 1969 was named after the Greek god Apollo, NASA's return is referred to as Artemis—Apollo's twin sister and goddess of the Moon.

Four generations of women at NASA Glenn reflected on their STEM career experiences. To read the story, visit <https://go.nasa.gov/3swm5NG>.

Symposium Encourages Pioneering Spirit

Deputy Center Director Dawn Schaible, right, examines one of the entries in the student poster contest during the 5th annual John Glenn Memorial Symposium held at Case Western Reserve University, July 17 to 19. Every summer, NASA Glenn and the American Astronautical Society bring together leaders, researchers, engineers, and other experts from across NASA, industry, and academia to discuss pioneering approaches and the challenges of space exploration and flight. This year, powering innovation from the Earth to Mars was our focus, featuring conversations on everything from lunar surface power and infrastructure to space law and the future of commercial flight.

Glenn intern Lillian Kish won the 2023 American Astronomical Society Award for best poster by an undergraduate at the John Glenn Memorial Symposium for her poster, "Solid Fuel Ignition and Extinction (SoFIE)."



GRC-2023-C-06159

Photo by Bridget Caswell

**Launching Soon:
A New Digital and Mobile-Friendly
AeroSpace Frontiers Newsletter
in October 2023!**

Stay Tuned...



Inspiring Aviators Visit

It was another great year hosting students from Cleveland's Aerospace Career Education (ACE) Academy. The 8th through 12th graders learned about careers in aerospace from some of Glenn's engineers, participated in a STEM activity, and finished their visit with a tour of our Aero-Acoustic Propulsion Laboratory and research aircraft hangar. Many got to sit in the cockpit of a T-34 aircraft!



GRC-2023-C-05531

Photo by Bridget Caswell

NASA Connects Scouts With STEM



GRC-2023-CN-00017

Photo by Nancy Hall

NASA Glenn staff introduced Boy Scouts and Girl Scouts to STEM-related activities during national gatherings this summer.

Left, Glenn's Jen Pierce shares information on NASA's mission during the Girl Scout 2023 National Convention in Orlando. The NASA exhibit included hands-on demos, handouts, and visits from EVA, the costumed astronaut. NASA lead Nancy Hall participated in a Mentor Zone event with Girl Scouts, providing them with background about her work and then answering questions from them. Glenn staff, with help from NASA personnel from other centers, highlighted Artemis and Heliophysics (highlighting upcoming solar eclipses) during the event that drew close to 10,000 people.



GRC-2023-CN-00018

Photo by Jove Yambot

Astronaut, Eagle Scout, and Scout leader Kjell Lindgren, center, addressed overflowing crowds at the 2023 National Jamboree of the Boy Scouts of America, held in southern West Virginia. Other NASA leaders, including Associate Administrator for Diversity and Equal Opportunity Elaine Ho, back right, gave presentations as well. Dennis Stocker, back left, and other members of NASA's STEM Quest team engaged visitors in the 20- by 40-foot tent packed with exhibits and hands-on activities. Lindgren recognized Stocker for his years of stewardship in connecting NASA and scouting.

More Than a Memory

Manco Was Talented, Respected Technician

Richard A. Manco II, 62, an HX5 Sierra employee working as an engineering research technician at NASA Glenn for over 30 years, died Aug. 5. Manco dedicated his early career as a senior technician in Glenn's Exhibits Office. He went on to support multiple projects in the Research and Engineering Directorate. He designed, fabricated, and demonstrated equipment and tools that made significant contributions to NASA missions.

Manco most recently worked on the Mars Spring Tire Program, where he built the tires and provided test support. He also contributed to the design and operation of many new tire test facilities.

Manco's co-workers said he was always one step ahead of everyone. Sometimes they didn't even need to ask him to fix or build something—he just did it. He was the glue that held them all together.

Manco earned a Space Flight Awareness Silver Snoopy award and was a two-time recipient of Glenn's Steven V. Szabo Engineering Excellence Award.



Manco

Carl F. Lorenzo, 88, a 1999 retiree with 42 years of NASA service, died June 20.

Lorenzo started as a co-op student and he was an accomplished engineer who worked in a variety of areas. He was the center lead on the agency's Pogo Interface Working Group for the Space Shuttle and project engineer for the hot firing Centaur rocket in the B-2 facility. Lorenzo later headed the Analysis Section in the Aerodynamics and Engine Systems Division and the Advanced Control Technology Branch. He co-authored papers and earned numerous awards, including NASA's Exceptional Service Medal.



Lorenzo

Carl F. Monnin, 86, a 1994 retiree with 32 years of NASA service, died June 23. He began his career in the Electromagnetic Propulsion Division and authored several technical reports related to flows in magnetic fields and atomic hydrogen. He then worked in and later headed the Software Engineering Office in the Engineering Support Division. He helped advance NASA's missions on projects that included Atlas-Centaur Launch, Voyager, and the Space Shuttle. He earned two NASA Special Achievement Awards, an Exceptional Engineering Award, and an Exceptional Service Award.



Monnin

George M. Prok, 92, a 1988 retiree with 36 years of NASA service, died July 31. Prok served as a technical manager of the NASA/DOE Alternative Fuels Utilization Project and project engineer in the Automotive Gas Turbine and Diesel Project Office. He later joined the Technology Assessment Office as a technical manager in fuels and combustion research and space power research for isotope heat source and Brayton system radiator. He also managed the Small Business Innovation Research Program. Prok received several NASA awards and published 30 technical reports and articles.



Prok

Retirements

Michael J. Lichter, Avionics Branch, retired Aug. 12, 2023, with 34 years of NASA service.

Priscilla A. Mobley, Office of STEM Engagement, retired July 29, 2023, with 35 years of NASA service.



Mobley

Safety and Health Awareness Event



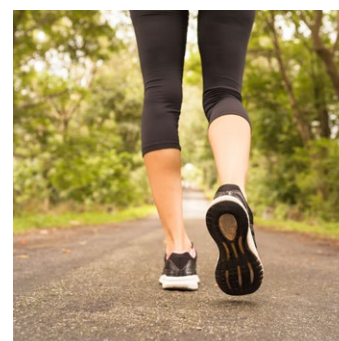
Keynote Speaker

Former Astronaut Mike Massimino

Thursday, Sept. 21

Theme: Go Above and Beyond for Safety!

Speakers, events, prizes and the Center Health Walk



See Inside Glenn for details.

Fiscal Year 2023 Small Business Awards

Nominations open through Nov. 15

Small Business Advocates Awards

Small Business Industry Awards

For information, visit

<https://osbp.nasa.gov/award.html>.



Students Earn Close Encounter Visit to Glenn



GRC-2023-C-06381

Photo by NASA/Jordan Salkin

Francesca Esma, Rainelle Yasa, Luca Pollack, and Audrielle Paige Esma interact with a NASA plane in virtual reality at Glenn's Graphics and Visualization Lab.

Three STEM student winners of NASA's Power to Explore Challenge explored behind the scenes at NASA Glenn and Great Lakes Science Center (GLSC) in Cleveland after drafting the top papers in the national essay contest.

The competition for kindergarten through 12th grade students focuses on the enabling power of radioisotopes. Students were challenged to learn how NASA has powered some of its most famous science missions and to dream up how their personal "superpower" would energize their own radioisotope-powered science mission.

Judges narrowed down over a thousand creative essays to 45 semi-finalists, who received prize packs, nine finalists, who participated in a videoconference with NASA experts, and three winners, who were awarded with a visit to NASA Glenn.

To read more about the tour and links to the essays, visit <https://go.nasa.gov/3YLLVcv>.



GRC-2023-CN-00016

Photo by Tanya Silva

Front row, left to right, student winners, Rainelle Yasa, Audrielle Paige Esma, and Luca Pollack, connect with back row, left to right, Glenn's Kristin Jansen, Carl Sandifer, Josh Freeh, and Dr. Michael J. Barrett, during the tour.

National Aeronautics and Space Administration



John H. Glenn Research Center

Lewis Field

21000 Brookpark Road
Cleveland, Ohio 44135

www.nasa.gov

Neil A. Armstrong Test Facility

3597 E. Scheid Road
Sandusky, Ohio 44870

Emergency and Inclement Weather Lines

Lewis Field: 216-433-9328 (WEAT)

Neil A. Armstrong Test Facility: 419-621-3333

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