



AeroSpace FRONTIERS

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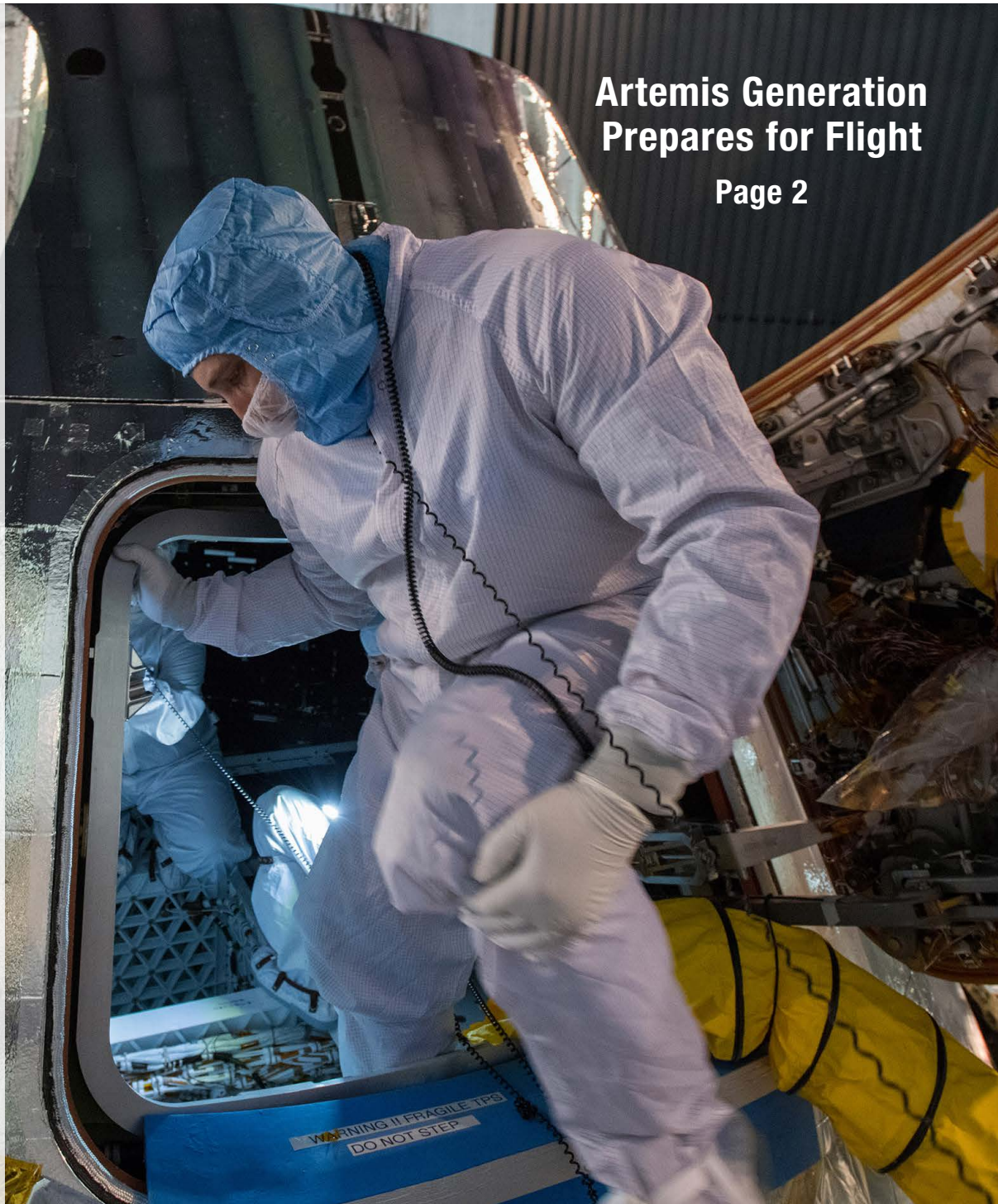
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Safety and Health Awareness Day

Sept. 20 is this year's Safety and Health Awareness Day. This year's theme is Safety Belongs to Us! Being safe, both on- and off-site, truly is our responsibility. I encourage you to attend the hybrid program featuring a distinguished guest speaker, a special topic, vendor booths, and the annual Golden Shoe Health Walk.

This year's program again promises to be an informative and exciting event! Please check Inside Glenn for further information. See you there!

AeroSpace Frontiers

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

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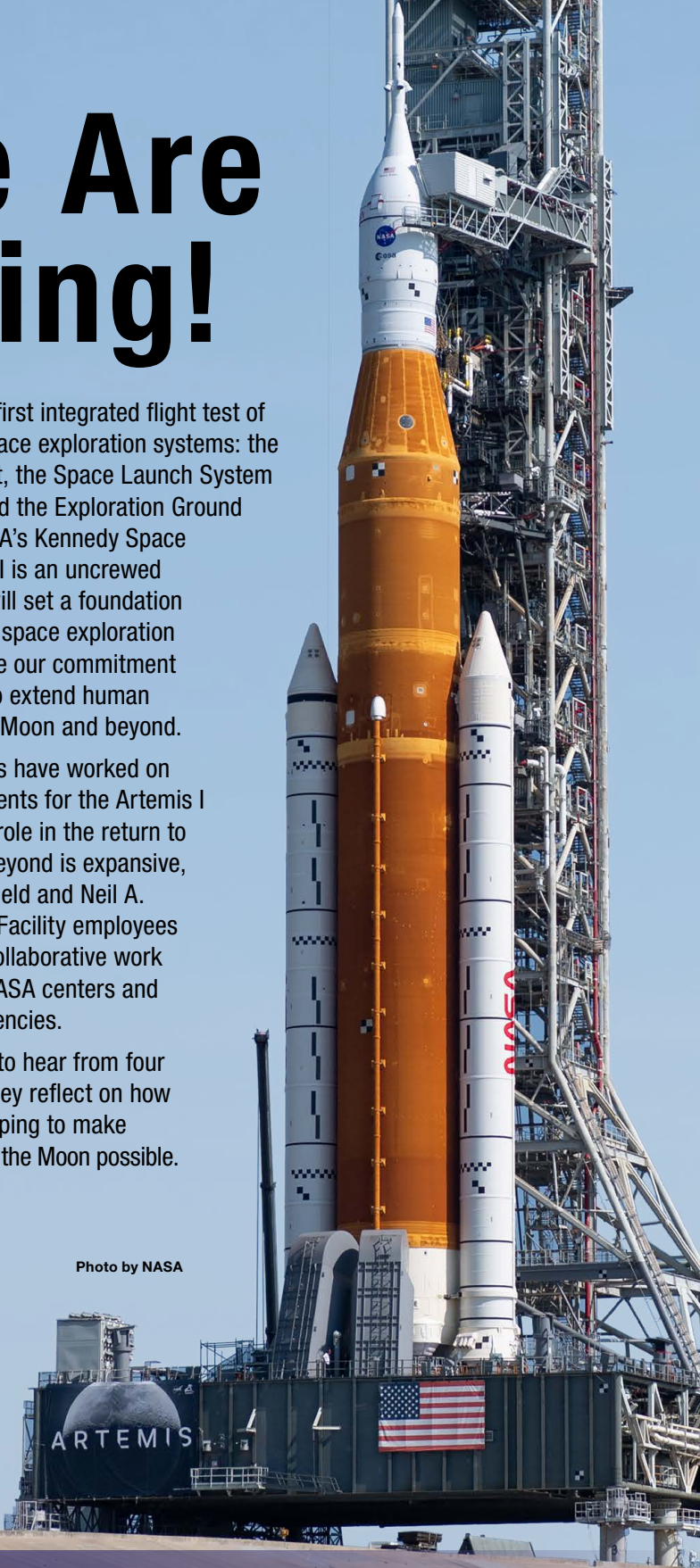
We Are Going!

Artemis I is the first integrated flight test of NASA's deep space exploration systems: the Orion spacecraft, the Space Launch System (SLS) rocket, and the Exploration Ground Systems at NASA's Kennedy Space Center. Artemis I is an uncrewed flight test that will set a foundation for human deep space exploration and demonstrate our commitment and capability to extend human presence to the Moon and beyond.

Glenn employees have worked on various components for the Artemis I mission. Ohio's role in the return to the Moon and beyond is expansive, as both Lewis Field and Neil A. Armstrong Test Facility employees continue their collaborative work with different NASA centers and international agencies.

Turn to page 4 to hear from four employees as they reflect on how their work is helping to make NASA's return to the Moon possible.

Photo by NASA



On the Cover:

John Zang, who managed thermal vacuum acceptance testing for the Orion Crew Module on Artemis I, steps inside the crew module in Glenn's Space Environments Complex.

GRC-2020-C-02532
Photo by Bridget Caswell

Dr. Kenyon Tags Up With Employees

Acting Center Director Dr. Jimmy Kenyon and Acting Deputy Director Dawn Schaible hosted a hybrid town hall meeting to connect with employees on July 28. After Associate Director Larry Sivic provided an update on the on-site populations, current activities, mission highlights, and recent appointments, Dr. Kenyon recognized the outstanding work of employees who were nominated by their organizations. He and Schaible then thanked the workforce for their warm welcome to Glenn, outlined their personal and working philosophies, and concluded with a question-and-answer session.



GRC-2022-C-05315

Photo by Marvin Smith

At the town hall, left to right: Dr. Kenyon, Schaible, and Sivic answer employees' questions.

Hoteling Workspaces Gain Popularity

As a member of the NASA family, you work hard for mission success while embracing life. NASA's culture is evolving to give you more flexibility to do both. That is the Future of Work at NASA.

As the number of employees working on-site increases, hoteling workspace usage in the Research Support Building (RSB) at Lewis Field is expanding as well. Glenn Future of Work Project Lead Michael Moxley said there has been a continual uptick in hoteling reservations since May, with approximately 40 hoteling reservations per week.

A hoteling space is a nondedicated, nonpermanent workspace that may be reserved and used on an as-needed basis on the first floor of the RSB. The hoteling neighborhood contains 24 cubicles—12 hoteling kits (monitors and docks) along

with 4 private offices (also containing hotel kits). Collaborative workspaces are available throughout the RSB, and occupants are encouraged to use conference rooms and open spaces in the building for team gatherings.

Andre Hamoy, a Texas A&M University aerospace engineering student, took advantage of a hoteling neighborhood while interning for the Facilities Test Division this summer. He enjoyed the flexibility of the environment, accessibility

to employee services, and benefits of the inclusive meeting areas.

Employees are encouraged to try out the new hoteling space when they come on-site. Visit <https://nasa.sharepoint.com/sites/grcfutureofwork> for more information on hoteling. Then visit the agency's software system, Book-a-Space, to reserve your area. You will receive an Outlook notification confirming your reservation..

By Doreen B. Zudell



GRC-2022-CN-00036

Photo by Doreen B. Zudell

Hamoy works in one of the hoteling neighborhoods in RSB.

GLENN'S ARTEMIS GENERATION PREPARES FOR FLIGHT



Jenny Hayes

For 14 years, Hayes has worked on the Orion Structures team and currently serves as deputy manager for the Orion Structures and the Orion Structures/Thermal Protection System Functional Area. Hayes feels the Artemis I mission is the “highlight” of her career and a true testament to international cooperation for the benefit of humanity.

“Artemis I is a great example of what can be accomplished with a successful collaboration between NASA, industry, and the European Space Agency,” said Hayes. “I am proud to be a part of the Artemis program and a return to the Moon.”

After launch, Hayes will be leading the Crew Module Adapter Inner Wall Delta Structural Qualification and supporting the Orion/SLS joint requalification for Artemis IV.



GRC-2022-CN-00038

Hayes at the Vehicle Assembly Building at NASA's Kennedy Space Center.



GRC-2022-CN-00037

Bury in an Orion Crew Trainer Mockup at NASA Johnson.

Kristen Bury

Bury is the Program Integration Functional Area Manager in Orion's European Service Module (ESM) Integration Office, and has spent the past five years focused on integration between NASA and ESA (European Space Agency). Previously she spent ten years working modeling, simulation, and analysis of Orion's electrical power system.

The Artemis I mission is special for Bury as she feels it is a culmination of her 15-year career and will be her first vehicle to fly in space.

“This is my childhood dream of spaceflight and exploration fully realized,” Bury said. “I’m working on the test flight that will enable us to land the first woman and first person of color on the Moon! I’m so proud and humbled to be a part of this incredible team!”

After launch, Bury will shift towards working on the programmatic integration of ESMs for Artemis II through IV, which are all in varying stages of assembly, integration, and test.

Caleb Fisher

Fisher is an Orion subsystem manager who ensures the spacecraft is kept within strict limits for contamination, humidity, temperature, and hazardous gas accumulation during all preflight assembly, testing, transport, and launch pad operations. He also supports the planning and execution efforts of launching Artemis from NASA's Kennedy Space Center and coordinating the cross-country return of Orion after splashdown in the Pacific Ocean. Fisher believes working at NASA is more than an ordinary job. It is an opportunity to work on efforts that benefit humanity.

"I came to NASA because I wanted my job to be more than a paycheck. I wanted those 80,000 hours of my life to go toward something meaningful, something which—as NASA says—is for the benefit of all," said Fisher. "Like everyone on the Orion team, I have devoted years of my life to the Artemis mission, and a successful flight will be incredibly meaningful, and a dream come true."

After launch, Fisher will continue working on the assembly, testing, transporting, and launching of future Artemis spacecraft.



GRC-2022-CN-00039

Photo by Jeremiah Hall, Lockheed Martin

Fisher at launch pad 39B at NASA's Kennedy Space Center while preparing for Artemis I Wet Dress Rehearsal.

John Zang

As Space Environments Complex (SEC) manager, Zang managed thermal vacuum acceptance testing for the Orion spacecraft flying on Artemis I at the SEC; coordinated test operations; and supported staff during chamber preparation activities, vehicle testing, and post-test activities. Zang says the "promise" of humanity's return to the Moon and continued space exploration truly excites him.

"The Artemis mission is exciting because of the promise of the return of humans to the Moon, exploring it in a way that previous missions were unable," Zang said. "It is the promise that what will be learned on the Moon will help pave the way for the next steps of a human landing on another planet or Moon."

After launch, Zang will prepare the SEC for the planned Acoustic, Shock, Deployment and Lightning Orion Extended Testability Analysis (ETA) testing.



GRC-2020-C-02534

Photo by Bridget Caswell

Zang inside the Orion Crew Module during the testing at Neil Armstrong Test Facility.

Symposium Gathers Aerospace Leaders

The 4th Annual John Glenn Memorial Symposium was held July 18–20 at Case Western Reserve University in Cleveland. Sponsored by the American Astronautical Society, the event brought together leaders in government, industry, and academia. The theme, “An Electrifying Future: Earth and Space Sustainability,” welcomed a full range of topics including Air Mobility, Lunar Exploration, Future Space Communication, and Information Systems Asset Management. Agency representatives participated on multiple panels. NASA Associate Administrator for Space Technology Mission Directorate Jim Reuter and Acting Glenn Center Director Dr. Jimmy Kenyon closed the event with a fireside discussion.



GRC-2022-C-05281

Photo by Bridget Caswell

Reuter, left, and Dr. Kenyon close the event with a fireside discussion.

Glenn Experts Promote STEM Opportunities

Glenn’s Office of STEM Engagement recently hosted two events to inspire students’ interest in STEM education and careers. Both activities included a panel of NASA engineers, a virtual tour of the Simulated Lunar Operations Laboratory, and a hands-on engineering design challenge.



GRC-2022-C-03968

Photos by Bridget Caswell

Left to right: Lance Foster, Monica Guzik, and Tiffany Williams joined several Glenn technical experts who visited the 2022 Cleveland AeroSpace Careers Education Academy at Burke Lakefront Airport. They engaged students in middle and high school about NASA’s intern program and future career opportunities.



GRC-2022-C-05655

Jerasha Nixon, center, helped middle school students with a hands-on engineering design challenge during the 2022 Girls in STEM event. Glenn, in partnership with the Western Reserve Historical Society, hosted the hybrid event for students in fifth through eighth grade at the Crawford Auto-Aviation Museum. Several Glenn technical experts supported the event.



Tuesday, Sept. 20

Morning Program: 9–11 a.m., Lewis Field, Bldg. 3 Auditorium

Live broadcast via NASA Town Hall website

NASA Office of Safety and Mission Assurance Chief
Russ DeLoach, keynote speaker

Virtual Vendor Booths: 11:30 a.m. to 1 p.m.

Hybrid Health Walk: 9 a.m. to 4:30 p.m. (on- and off-site employees)

See Inside Glenn for details.

POC: steven.l.herron@nasa.gov

GLENN

HAPPENINGS

INFORMATION CAFÉ

The Information Café will focus on Managing Your Agency Records. Join the Library staff on Wednesday, Sept. 21, from 11–11:45 a.m., in building 142, room 188, or on Teams. Check Inside Glenn for the link.

POC: robin.n.pertz@nasa.gov

OUTDOOR SIREN TESTING

Emergency Management Office staff will conduct an audible siren test on the “severe thunderstorm” tone on Saturday, Oct. 1, at Lewis Field. A mass notification voice test will be conducted at building 39 on Wednesday, Oct. 5.

POC: allen.r.turner@nasa.gov

Deadline for the next calendar section is **Wednesday, Sept. 21, noon**. News and feature stories require additional time.

Get Your Morning Coffee

Local vendor Coffee Coffee Coffee is offering hot coffee, espresso, cold brew, tea, and more on-site from 7–10:30 a.m. in the Mission Integration Center’s LaGrange Café, building 162 lobby. Coffee service is available on Tuesdays, Wednesdays, and Thursdays.

POC: lori.a.manthey@nasa.gov

Chick-fil-A Lunch Delivery

Pre-order your Chick-fil-A lunch by using the Chick-fil-A app. Food is delivered on Tuesdays through Thursdays, from 10:45 a.m. to 12:30 p.m., to the Research Support Building (164) lobby. Refer to the July 5 email from the Glenn Exchange for details.

POC: lori.a.manthey@nasa.gov



For more information on upcoming events,
visit <https://nasa.sharepoint.com/sites/grc/SitePages/calendar.aspx>

National Aeronautics and
Space Administration

John H. Glenn Research Center

Lewis Field

21000 Brookpark Road
Cleveland, Ohio 44135

Neil A. Armstrong Test Facility

3597 E. Scheid Road
Sandusky, Ohio 44870

www.nasa.gov

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



★ Keeping the Center Moving *Forward*



GRC-2020-C-00575

Photo by Bridget Caswell

SHeD's Dr. Daniel Newfang, right, on-site in Glenn's Simulated Lunar Operations Laboratory, ensures safety equipment is securely in place for Jordan Duhe, NASA Johnson, before working on the Volatiles Investigating Polar Exploration Rover (VIPER) project in 2021.

While many employees transitioned to telework due to the pandemic, others remained on-site to ensure a safe and secure environment at the center. This column highlights these services.

When the pandemic hit in 2020, it felt like watching a science fiction movie. Members of Glenn's Safety and Health Division (SHeD), however, could not sit back and watch the plot unfold. They were the protagonists working to understand COVID-19 and implementing guidelines for safely Returning to On-Site Work (RTOW).

For two years, members of SHeD read, reviewed, assessed, and vetted information on COVID-19. They tracked statistics on infection rates, including hospital admissions for Erie and Cuyahoga counties and intensive care capacities, and kept up to date with agency guidance and requirements. They also reached out and benchmarked with other industry groups and government agencies regarding best practices. This was all achieved while juggling their own work-life balance.

Using this data, SHeD implemented safe and realistic RTOW guidelines, calling on input from the expertise of every directorate across the center. They also applied criteria to each package to access risk and determine specific personal protective equipment and protocols.

SHeD reported daily to Glenn's senior leadership, and shared information with employees during the weekly town hall meetings and on Glenn's RTOW COVID-19 website.

SHeD forged ahead during a difficult time in the agency's history to ensure the Glenn workforce stayed safe while keeping the agency's mission moving forward.

Emergency and Inclement Weather Lines

Lewis Field: 216-433-9328 (WEAT)

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

Connect With Glenn

