



AeroSpace FRONTIERS

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Ogive Test Campaign by the Numbers

Our Orion team continues to perform well, rising to the occasion once again by successfully completing the Launch Abort System Hatch acoustic testing in the Reverberant Acoustic Test Facility at Plum Brook Station. Four Ogive panels were subjected to acoustic evaluation, achieving an impressive 161.4 dB under prelaunch, launch and abort conditions. The overall testing took 8 days with zero incidents! The test campaign was successful in part because of the high standards and commitment we place on our safety processes and reviews. The team worked cohesively with one another and with our partners throughout the rigorous schedule.

Thank you all for recognizing that safety is key to success.

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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Marveling on Our Solar Eclipse

On Aug. 21, a total solar eclipse crossed the United States from coast-to-coast for the first time in 99 years. Moving from west to east—from Oregon to South Carolina across a 70-mile-wide path—the moon's shadow shrouded 14 states in darkness for more than 2 minutes in the middle of the day.

GRC-2017-C-05591

Photo by Rami Daud



GRC-2017-C-05400

Photo by John Aylward

Employee event at the Lewis Field Picnic Grounds.



GRC-2017-C-05402

Photo by John Aylward

Employee event at the Lewis Field Picnic Grounds.



GRC-2017-C-05383

Photo by Marvin Smith

Dr. Pérez-Davis with Sen. Portman.



GRC-2017-C-05700

Photo by Rami Daud

Dr. Kavandi, right, at Capital Eclipse event in Missouri.

To celebrate this rare event, NASA Glenn supported multiple viewing events in the local community and at Lewis Field to share a seamless view of the eclipse, via NASA's live broadcasts from various locations along the path of totality.

Deputy Center Director Dr. Marla Pérez-Davis provided welcoming remarks to Glenn staff and their families gathered at the center's solar eclipse viewing event at the Lewis Field Picnic Grounds. Glenn's Dr. Rafat Ansari's presentation included engaging information on cultural taboos and traditions related to eclipses. Sen. Rob Portman also participated in the event during a scheduled visit to the center with his staff.

From 1 to 4 p.m. EDT, NASA provided live feeds from NASA aircraft, balloons and the International Space Station—as well as presentations from NASA experts along the path of totality. Live from the Capital Eclipse event in Jefferson City, Missouri, observers also heard Glenn's Center Director and Missouri native Dr. Janet Kavandi discuss the potential impact of the data accumulated by scientists beneficial to the health and safety of humans going to space.

In Northeast Ohio, Glenn staff participated in public viewing events at Edgewater Park and the Great Lakes Science Center in Cleveland, and the Geauga County Park District's Nassau Observatory in Montville Township.

By S. Jenise Veris



GRC-2017-C-05581

Photo by Quentin Schwinn

Cleveland Metropark's Edgewater Park event.

On the Cover: Center Director Dr. Janet Kavandi, right, views a complete solar eclipse in Jefferson City, Missouri. She joins University of Missouri's School of Natural Resources Meteorologist Eric Alderich, left, and renown space weather forecaster Dr. Tamitha Skov on stage.

GRC-2017-C-05679

Photo by Rami Daud



GRC-2017-C-05746

Photo by Bridget Caswell

Gauga County Park District event.



GRC-2017-C-05535

Photo by Andrew Dolph

Great Lakes Science Center event.

INDYCAR Driver Makes a Pit Stop at Lewis Field

INDYCAR driver Scott Dixon, right, and Zach Lucas, Office of Communications and External Relations, take a ride in Glenn's MOVE (Mobile Orion Vehicle Explorer) during Dixon's trip to Cleveland, July 27. Dixon requested a visit to the center to learn more about NASA Glenn's work in advancing aeronautics and space flight systems research. He toured several facilities, including the Simulated Lunar Operations Laboratory, where he examined prototype tires for lunar vehicles. His visit concluded with an autograph session for employees.



GRC-2017-C-05206

Photo by Rami Daud

NEWS AND EVENTS



GRC-2017-CN-00056

Photo by Jason Melvin, ASRC Analytical

NASA Showcased to County Governments

Glenn's Deputy Director Dr. Marla Pérez-Davis, right, joined Marshall Space Flight Center (MSFC) Director Todd May, center, in a panel discussion moderated by Mobile County, Alabama, Commissioner Merceria Ludgood, at the 82nd Annual Conference of the National Association of Counties hosted in Columbus, July 22. They highlighted each center's capabilities in support of NASA missions and explained how their center fosters next-generation development in STEM-related careers, creates good paying jobs, and pushes economies forward through NASA solutions that advance innovation. The conference draws a cross section of elected officials and county staff from across the country with the goal of improving residents' lives and efficiency in county government.



GRC-2017-CN-00055

Photo by Angela Bennett, Cleveland Police Foundation

Encouraging Law Enforcement Careers at NASA

Glenn's Office of Protective Services (OPS) hosted the Cleveland Police Foundation Law Enforcement Career Pipeline Program for an event held on July 11. OPS Chief Christi Tomaro moderated a NASA panel featuring, left to right: George Crawford, special agent, Office of Counterintelligence/Counterterrorism; John Hild, Kevin Hogan and Lt. Darrell Williams, NASA special agents; and Mark Zielinski, resident agent-in-charge, Office of Inspector General. The panelists engaged in a discussion on the unique aspects of law enforcement at NASA. Students participated in tours and demonstrations of the Glenn emergency management equipment and use of force training equipment. The Career Pipeline Program is aimed at increasing the number of qualified minorities and women in law enforcement who are committed to making a difference in their community.

Glenn Helps Scouts Reach New Heights at Jamboree



GRC-2017-C-05235

Photo by Rami Daud

Dennis Stocker, right, challenged youth with a NASA-related electronic trivia game in NASA's Reaching New Heights' tent at the 2017 National Scout Jamboree, July 19–28, in Mount Hope, West Virginia. The Boy Scouts of America (BSA), with help from a NASA team organized by Glenn, engaged 40,000 Scouts in a 14,000-acre, STEM-focused classroom. Glenn staff also prepared Scouts for the Aug. 21 total solar eclipse, and showcased its Journey to Tomorrow traveling exhibit during the event. Former astronauts Mike E. Fossum and Gregory H. Johnson participated in the event. Johnson received BSA's Distinguished Eagle Scout Award.



2017 Center Picnic

NASA Glenn held its 2017 Center Picnic, July 19, at the Lewis Field Picnic Grounds. More than 1,200 civil servants, contractors and retirees enjoyed music, games, food, sunshine and much-deserved downtime.



GRC-2017-C-05045

Photos by Marvin Smith



GRC-2017-C-05073



GRC-2017-C-05038



GRC-2017-C-04998

Thanks to everyone who supported this year's Center Picnic!



GRC-2017-C-05092



GRC-2017-C-05038



GRC-2017-C-05119



GRC-2017-C-05146



GRC-2017-C-05070



GRC-2017-C-04043

Photo by Marvin Smith

Helping Kids Discover Their Passions

Daniel Sutliff, Acoustics Branch, briefs Aimee Bogner, Avionics Branch, right, and her niece, Abigail Rochford, about a new turbofan engine to be tested in Glenn's Aero-Acoustic Propulsion Laboratory. Rochford was one of 262 children who attended Glenn's Take Our Children to Work Day, July 26. The day included presentations, demonstrations, facility tours and hands-on activities. Center Director Dr. Janet Kavandi highlighted what it is like to live and work in space and later signed autographs. Glenn's Office of Diversity and Equal Opportunity organized the event with assistance from employees throughout the center.

NEWS AND EVENTS

NASA Front and Center at AirVenture



GRC-2017-CN-00047

Photo by Jimi Russell

Center Director Dr. Janet Kavandi (second from right), along with other aeronautics research center directors, participated in a NASA New Aviation Horizons panel discussion, July 29, at the Experimental Aircraft Association's 2017 AirVenture in Oshkosh, Wisconsin. The panel discussed the future of NASA X-planes, new aero technologies and unmanned aircraft systems. During the weeklong air show, more than 30,000 people visited the NASA exhibit to learn about aeronautics, space flight, Solar Eclipse 2017 and more.

Security Day 2017

Developing Good Decision Making Versus Relying on “Good Luck”

NASA Glenn’s Office of Protective Services hosted Security Day 2017 at Lewis Field, Aug. 1. Forty-seven external agency representatives joined Glenn employees and summer interns for speakers, breakout sessions and vendor demonstrations that addressed a variety of timely security-related issues.

During the opening session, keynote speakers—retired fire chief and noted author Dr. Richard Gasaway and Navy SEAL Adam Newbold—shared their perspectives on the importance of situational awareness and how it applies to everyone.

“Situational awareness is the foundation for good decision making, especially for high-risk/high-consequence decisions,” Gasaway explained. “It’s about developing and maintaining your ability to perceive and understand your surroundings so you can predict and prevent a potentially bad situation.”

Newbold emphasized the critical importance of developing situational awareness in high-stress situations. He presented video highlights of the training Navy SEALs undergo to develop skills and heighten senses to anticipate, prevent or affect change in a potentially dangerous situation.

Following a question and answer session, attendees chose from several breakout sessions: Flawed Situational Awareness: Lightning Round; Accepting Responsibility, Mindset, and Reflexive Reaction; Identity Theft: What You Should Know; or Game of Pawns: Do Spies Really Exist?

By S. Jenise Veris



GRC-2017-C-05313

Photos by Marvin Smith

Dr. Gasaway



GRC-2017-C-05322

Navy SEAL Newbold



GRC 2017-C-05337

OPS Special Agent Darrell Williams discusses tactics of espionage.



Straub Leads Procurement Division



Straub

Kurt A. Straub was appointed to the Senior Executive Service position of Procurement Officer in NASA Glenn's Procurement Division, effective July 23. Prior to this appointment, Straub served as chief of Research and Space Operations in the Procurement Division.

Straub has more than 30 years of NASA experience in contracting, leadership and management, including several contracting officer positions of increasing visibility and responsibility. He served as NASA's Contracting Officer for NASA's Contract Management Software and as a functional expert for NASA's Contract Management Module software implementation. He was an advisor to the Small Business Innovation Research Program, a Source Evaluation Committee chairperson, and a primary interface to the Integrated Enterprise Management Program Competency Center.

Code F Directorate Reinforces Its Managerial Ranks



Ahmed



Arnett



DeGreen



Demers



Dr. Hakimzadeh



Lobo

The following management selections were made within the Facilities, Test and Manufacturing Directorate as a result of recent attrition. These new leaders will help ensure successful management of the institutional and test facilities, systems and infrastructure for NASA Glenn.

Salah Ahmed, chief, Program Management and Planning Office

Lori Arnett, chief, Space Combustion and Materials Branch

John DeGreen, chief, Systems Management and Operations Branch

James Demers, chief, Aircraft Operations Office

James (Tony) Doglio, chief, Project Management Branch

Ransook Evanina, chief, Environmental Office

Sue Gaudreau, deputy chief, Facilities Division

Dr. Roshanak Hakimzadeh, deputy chief, Planning and Integration Office

John Leone, deputy chief, Testing Division

Mary Lobo, chief, Facility Management and Planning Office

Renee Palyo, chief, Facilities Division

Jared Reed, chief, Engineering Management Branch

Gary (Scott) Williamson, chief, Wind Tunnels Test Branch

RETIREMENTS



Marinaro

John Marinaro, NASA Safety Center, retired Aug. 31, 2017, with 25 years of service.

Attention Retirees! To electronically subscribe to *AeroSpace Frontiers*, email grc-aerospacefrontiers-subscribe@lists.nasa.gov.

MORE THAN A MEMORY

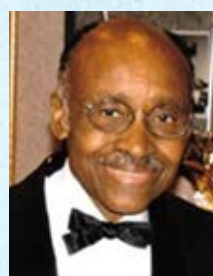
Johnson Maintained Machines for Mission Success

Andrew "Andy" Johnson, 37, an HX5 Sierra employee who worked in NASA Glenn's Manufacturing Division as a journeyman machine tool repairman, lost his life in a motorcycle accident on July 14. Johnson supported the division, under the TFOME contract, in the layout, installation, repair and maintenance of major machine tooling equipment.



Johnson

"Andy's steadfast effort to keep the equipment fully operational to meet the demands of an assignment were remarkable to say the least," said Jeffrey Smith, TFOME manager. "He will be remembered by so many here at NASA as not only a dedicated employee with outstanding technical abilities, but also as a kind-hearted person who was always willing to give a helping hand. Andy will be sorely missed by all those he touched in so many different ways."



Dr. Antoine

Dr. Albert "Bert" C. Antoine, 92, a 1983 retiree with 42 years of NACA/NASA service, died Aug. 5. Antoine was a U.S. Army veteran of World War II, selected to study civil engineering during war time. He later earned a doctorate in chemistry at The Ohio State University prior to serving NASA 29 years as a research scientist, and 13 more years as a contracting senior research associate through NASA's partnership with Cleveland State University. Antoine's research focused on fuel efficiency for aircraft, alternate hydrocarbon fuels, alternative fuels and renewable energy sources.



Kascak

Thomas J. Kascak, 81, a 1994 retiree with 28 years of service, died Aug. 5. Kascak was an aerospace physicist with notable research on thermionic direct energy conversion devices; contract management of guidance equipment for the NASA Atlas/Centaur launch vehicle systems; and various aspects of microwave and millimeter wave solid-state devices and circuits. His work on a monolithic 20-GHz transmit module earned him a 1985 R&D Magazine IR-100 Award. Kascak retired from the Space Electronics Division. His nephews, Anthony Iannetti and Peter Kascak, work at Glenn. His brothers, Albert and Joseph Kascak are NASA retirees.

Upcoming Center Events

October is NASA Glenn Cyber Security Awareness Month

CYBER SECURITY DAY

Thursday, Oct. 19

Registration starts Sept. 25.

Visit <https://events.grc.nasa.gov/CSAME> to register.

VENDOR DAY

Thursday, Oct. 26



Sponsored by the Office of the Chief Information Officer

POC: Sherri Lippus, 3-6907



GRC CONNECTIONS

The next GRC CONNECTIONS is scheduled for Thursday, Sept. 21, 10 to 11 a.m. in the Briefing Center, Building 8. Check *Today@Glenn* for details on the speaker.

POC: Stephanie Black, 3-7097

WOMEN IN STEM GRADUATION

The Women in STEM Leadership Development Program will be hosting its graduation, Thursday, Sept. 21, 1:30 to 3:30 p.m., at the Guerin Management Center. All are invited to hear from the participants regarding their program experience and celebrate their graduation.

POC: Rochelle Gallagher, 3-2060

OCTOBER OUTDOOR SIREN TESTING

The Emergency Management Office staff will conduct an outdoor "voice" test at Building 39 on Wednesday, Oct. 4, at Lewis Field. An audible siren test focusing on the "severe thunderstorm" tone will be conducted on Saturday, Oct. 7.

POC: Allen Turner, 3-6826

IFPTE LOCAL 28, LESA MEETING

LESA will hold its next membership meeting, Wednesday, Oct. 11, noon, in the Glenn Employee Center's Small Dining Room.

Deadline for next calendar section is **Sept. 22, noon**. News and feature stories require additional time.

**National Aeronautics and
Space Administration**

John H. Glenn Research Center

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www.nasa.gov

Read AeroSpace Frontiers online at <http://www.nasa.gov/centers/glenn/news/AF/index.html>



GRC-2017-CN-00054

Plum Brook Employees Gather for Appreciation Picnic

Employees at Plum Brook Station gathered in the Engineering Building to enjoy great food and fellowship during their annual Station Appreciation Picnic, Aug. 10.



GRC-2017-CN-00049

Photos by Doreen B. Zudell



GRC-2017-CN-00052



GRC-2017-CN-00050



GRC-2017-CN-00053

Emergency and Inclement Weather Lines

Lewis Field: 216-433-9328 (WEAT)
Plum Brook Station: 419-621-3333

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