SPECIAL EDITION

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9- by 15-Foot Wind Tunnel Modification Underway

We’re making an investment to upgrade the most utilized low-speed propulsion acoustic facility in the world. The 9- by 15-Foot Low-Speed Wind Tunnel is under construction to increase its capability by reducing the background noise levels in the test section. The upgrades will be completed at the end of next summer. The newly renovated tunnel will keep Glenn in the forefront of addressing long-term aircraft noise reduction challenges. Our test and construction staff are committed to employing sound safety practices to ensure successful completion of this complex project. Please observe the restricted access inside and outside the tunnel, as forklifts and cranes will be used for hardware delivery and assembly.

Your attentiveness to safety is appreciated!

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

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On the Cover: Dr. Aaron Weaver discusses how the Space Launch System will enable future exploration of deep space destinations during An Evening With the Stars event.
Glenn’s EWTS: Shaping the World of Tomorrow

The lamps of knowledge shone brightly throughout the Louis Stokes Wing of the Cleveland Public Library during “An Evening With the Stars (EWTS), NASA Glenn Shaping the World of Tomorrow” program, Sept. 12. The event featured presentations by Glenn researchers and a networking reception for more than 300 guests.

Glenn presented EWTS to increase awareness of the center and its unique contributions to research and technology that is shaping the world of tomorrow. For the fourth year in a row, the Ohio Aerospace Institute (OAI) coordinated sponsorship for the event that attracted more than 25 companies, universities and organizations.

Center Director Dr. Janet Kavandi recognized several key people for their support of this year’s event, including OAI’s new President and CEO Jeff Rolf and Executive Vice President Ann Heyward; the Ohio Aerospace and Aviation Council Chairman Dr. Carlos Grodsinsky, who is also ZIN Technologies’ CEO and Senior Vice President of Technology; and the Cleveland Public Library Executive Director and CEO Felton Thomas Jr. and his staff as gracious hosts for the event.

Kavandi reflected on the decades of expertise at NASA Glenn responsible for the research and game-changing technology that has enabled exploration of the universe and revolutionized air travel. “The men and women of NASA Glenn possess the imagination to create a vision and the expertise and skill to transform that vision into technologies that will allow aircraft to fly faster and quieter, and allow our spacecraft to carry astronauts to new worlds while communicating over the vast distances of space,” she said.

Kavandi then introduced three of Glenn’s “rising stars” who captivated the audience with presentations on the center’s Facilities and Capabilities, Journey to Mars and Cognitive Communications work.

**Mary Lobo**, chief of Glenn’s Test Facility Management Branch, spoke about “Bringing the Atmosphere and Space Down to Earth” using Glenn’s unique testing facility capabilities to help reduce risks by simulating the harshest environment of flight and space.

**Dr. Aaron Weaver**, Glenn’s contracting officer’s representative for NASA’s Space Launch System Program Universal Stage Adapter, shared Glenn’s portfolio of testing and other activities for the Orion spacecraft and Space Launch System rocket, to usher in a new era of exploration—the “Threshold to the Next Space Age.”

**Dr. Janette Briones**, computer engineer and technical lead for NASA Glenn’s Cognitive Communications Project for artificial intelligence and machine learning algorithm development, addressed “Next-Gen Communications,” critical to our ability to collaborate with other NASA centers and government agencies on land and/or in space.

By S. Jenise Veris

EWTS Project Manager Zachary Lucas and Champion Deputy Director Dr. Marla Pérez-Davis thank team members across the center, who helped make the event a success.
2017 NASA Agency Honor and Center Awards

HONOR AWARDS

DISTINGUISHED PUBLIC SERVICE MEDAL
Forman A. Williams*

OUTSTANDING LEADERSHIP MEDAL
Marivell Baez*
David T. Frate
Cleve Horn
Sandra T. Reehorst
Dennis W. Rohn
Gary A. Ruff*
Gerard E. Welch

EQUAL EMPLOYMENT OPPORTUNITY MEDAL
Cynthia C. Calhoun

EXCEPTIONAL SERVICE MEDAL
Maria Babula
Penni J. Dalton
Guillermo Del Carmen
Richard L. Del Roso
Joan V. Haug*

*Not in attendance
More than 100 NASA Glenn employees earned awards for their exemplary accomplishments in science, engineering, technology, leadership and administrative services during the 2017 NASA Agency Honor and Center Awards Ceremony, Aug. 23. Retired astronaut Michael T. Good assisted Center Director Dr. Janet Kavandi in awarding medals and certificates.

EXCEPTIONAL PUBLIC SERVICE MEDAL
Paul R. Butterfield
Carlos M. Grodsinsky
Stephen J. Guzik
Lesha P. Zvosec

EXCEPTIONAL ACHIEVEMENT MEDAL
Shanton V. Bland
Carol A. Ginty
Christine B. Greenwalt
Maria A. Havenhill
Leahmarie Koury
Isaac Lopez
Mark W. Manthey
Charles E. Niederhaus
Benjamin S. Van Lear
Christopher J. Williams
Gilbert A. Winter
Jan M. Wittry

EXCEPTIONAL PUBLIC ACHIEVEMENT MEDAL
Helmut H. Bamberger

*Not in attendance
EXCEPTIONAL ENGINEERING ACHIEVEMENT MEDAL
Kevin J. Melcher

EXCEPTIONAL SCIENTIFIC ACHIEVEMENT MEDAL
Beth E. Lewandowski

EXCEPTIONAL TECHNOLOGY ACHIEVEMENT MEDAL
Milind A. Bakhle
Robert M. Manning
Santo A. Padula
Roy M. Sullivan
Gregory A. Zimmerli

EARLY CAREER ACHIEVEMENT MEDAL
Lori A. Arnett
Rochelle L. Gallagher
Jason W. Hartwig
Melissa R. Holodnak
Mary J. Lobo
Antoine D. Moss
Kathryn Oriti
Nicholas A. Schifer
Elliot A. Schmidt
Cory A. Smith
Mary A. Sours
Aaron J. Swank

SILVER ACHIEVEMENT MEDAL (INDIVIDUAL)
Cheryl L. Bowman
Jeffryes W. Chapman
Sandra Cook
Mark A. George*
Jason M. Hanna
Katherine A. Harcula
Christopher A. Hartenstine
Dallas R. Jenkins

*Not in attendance
SILVER ACHIEVEMENT MEDAL (GROUP)
Advanced Electric Propulsion SEB Team
Advanced Exploration Systems Modular Power Systems (AMPS) Modular Fuel Cells Team
Glenn Research Center AS9100C Recertification Team
Journey to Tomorrow Upgrade Team
NASA Glenn 75th Anniversary Book Team
Small Acquisition Transition (SAT) Team

SENIOR EXECUTIVE SERVICE APPOINTMENT
Ruben Del Rosario
Laura A. Henry

PRESIDENTIAL RANK AWARD
Alan H. Phillips

GROUP ACHIEVEMENT AWARD
75th Anniversary Open House Planning and Execution Team
Aeroscience Ground Test Facilities Funding Model Team
Altitude Combustion Stand Reactivation Team
BLI2DTF Technology Development and Test Team
CAS Collaboration Rooms Team

European Service Module (ESM) Structural Test Article Team
Glenn Extreme Environments Rig Team
Glenn Technology Transfer Office Licensing Team
Mechanical Vibration Facility Commissioning Team
NASA’s STEP Level 2 Cohort Team
The Agreement Business Process Design and Documentation (BPDD) Team
The Orbital Maneuvering System Engine/Thrust Vector Control (OMS–E/TVC) Project Team

FORTY-YEAR SERVICE AWARD
Cynthia S. Acquaviva
James A. Blankschaen
Alan N. Downey
Henry F. Kacher*
Randall R. Kwasny*
Anderson K. Marlow, Jr.*
Susan E. Nolan
Monica M. Palivoda
Thomas H. St. Onge*
Dale K. Stalnaker*

FORTY-FIVE-YEAR SERVICE AWARD
Jimmy Simek*
Donald Swedinovich, Jr.*

FIFTY-YEAR SERVICE AWARD
Marvin E. Goldstein*
Lawrence J. Schroeder, Jr.

*Not in attendance
STEVEN V. SZABO
ENGINEERING EXCELLENCE AWARD
BLI2DTF Inlet Rakes Engineering Design
Development Team
David J. Arend
John Z. Gyekenyesi
Thomas G. Gyekenyesi
Charles A. Herrmann
Quynhgiao N. Nguyen

CRAFTSMANSHIP AWARD
Assembly and Build-up
Propulsion Drive Electronics (PDE)
Connectors—Orion European Service Module (ESM) at White Sands Test Facility Team
Andrew S. Fausnaugh
Robert A. Paulin

Manufacturing Technologies
Boundary Layer Ingestion Inlet Distortion Tolerant Fan (BLI2DTF) Instrumentation Team
Timothy A. Dunlap
Derrick L. Espenschied
Christopher R. Metro

2016 DISTINGUISHED PUBLICATION AWARD
Prolonged Silicon Carbide Integrated Circuit Operations in Venus Surface Atmospheric Conditions
Philip G. Neudeck
Roger D. Meredith
Liangyu Chen

DIVERSITY LEADERSHIP AWARD
Joseph W. Connolly
Vincent E. Satterwhite

SAFETY AWARD (CIVIL SERVANT)
Calogero Dirienzo*

SAFETY AWARD (CONTRACTOR)
Scott D. Mahnke

*Not in attendance
SUPervisor Award
Timothy J. Ruffner
Luz Y. Jeziorowski

Support Assistant/Clerical Award
Wendy A. Berndt
Denise A. Kelly
Kathryn M. Roser
Mary A. Salvo

Federal Acquisition Certification for Program and Project Managers
Michael J. Barrett
Trudy F. Kortes

GRC Large Business Prime Contractor of the Year
Aerojet Rocketdyne

GRC Small Business Prime Contractor of the Year
Summit Technologies and Solutions, Incorporated

GRC Small Business Technical Person of the Year
Debra Millard

GRC Small Business Procurement Person of the Year
Ronald Matthews

NASA Small Business Prime Socioeconomic Goal Achievement
Glenn Research Center

To view the 2017 Honor and Center Awards Ceremony booklet with award citations and team members, visit https://events.grc.nasa.gov/honorawards/
During his Town Hall presentation, “A New Era of Aviation,” Shin talked about the concept of a convergence of disparate technologies. This involves taking different existing technologies and combining them into something new. Two innovative examples of this concept are drones and smartphones. “We need to look at what’s happening in other industrial sectors and relate that back to aviation,” Shin said.

Deputy Center Director Dr. Marla Pérez-Davis and Director of Aeronautics Dr. Rubén Del Rosario assisted Shin in presenting the ARMD awards to Glenn employees. These prestigious awards recognize accomplishments that had a profound positive impact and benefit to ARMD, its partners and/or stakeholders.

Shin presented trophies and certificates to two individual winners and a group honorable mention:

**Leadership and Management Excellence Award: Issac Lopez**
For leadership in team and resource management for the Convergent Aeronautics Solutions Project under the Transformative Aeronautics Concepts program.

**High Potentials: Dr. Valerie Wiesner**
For her leadership, insight and research into the effects of environmental factors on high-temperature engine materials.

**Technology and Innovation Honorable Mention:**
Commercial Supersonics Low Noise Propulsion Technical Challenge Team led by Jim Bridges.

Del Rosario also recognized two project teams for their contributions, dedication and professionalism in support of Aeronautics at Glenn:

**Quiet Supersonic Technology (QueSST) team:**
For outstanding contributions and customer service during the aerodynamic and propulsion testing of the QueSST model in the 8- by 6-foot wind tunnel.

**Boundary Layer Ingesting Inlet/Destortion Tolerant Fan (BLI2DTF) team:**
For outstanding contributions and success in completing, in a compressed test schedule, an extremely complicated test that included an elegant and sophisticated model design, integration into the 8- by 6-foot wind tunnel.

Additionally, Doug Rohn, recent retiree with 40 years of NASA service, was recognized for his accomplishments, leadership and faithful service to NASA and Glenn in the area of Aeronautics.

By Doreen B. Zudell
**PROMOTIONS**

**Kristen Bury** has been selected Integration Manager in the European Service Module Integration Office (EIO), Space Flight Systems Directorate. She will be responsible for supporting vehicle integration, the Joint Safety and Engineering Review Panel, European Service Module (ESM) reviews, and reporting and issues coordination for the Orion vehicle.

**Concha Reid** has been selected Bilateral Exchange Manager in the European Service Module (ESM) Integration Office, Space Flight Systems Directorate. Reid previously served as a battery and energy storage specialist, prior to a detail last year managing NASA ESM–2 deliverable agreements for the Orion program.

**Lawrence C. Zoloty** has been selected Deputy Chief of the Human Capital Management and Consulting Division. Zoloty has served as the lead of the Employee and Labor Relations Team, and the past 5 years as Labor Relations Officer, a position he will retain.

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**RETIREMENTS**

**Arlene Haeberle**, Planning and Integration Office, Facilities, Test & Manufacturing Directorate, retired Sept. 30, 2017, with 36 ½ years of service.

**Vincent Satterwhite**, Aviation Environments Technical Branch, Testing Division, retired August 31, 2017, with 33 years of service.

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

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**MORE THAN A MEMORY**

**Robert A. Signorelli**, 89, a 1985 retiree with 35 years of service, died Aug. 17. Signorelli was a materials research scientist. He was a member of NASA Lewis’s advanced composites development team that earned national recognition for developing and testing materials for improved performance and costs applied to aircraft turbine blades, engines and fans, space vehicles and advanced power and propulsion generating systems. Signorelli’s expertise was in metal matrix composites, one of the three major advanced composites.

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**NATIONAL DISABILITY EMPLOYMENT AWARENESS MONTH**

Glenn’s annual observance is Tuesday, Oct. 31, from 2 to 3:30 p.m. in the Ad Building Auditorium. This year’s theme is “Inclusion Drives Innovation.”

POC: Angela Pierce, 3–2813

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**NOVEMBER OUTDOOR SIREN TESTING**

The Emergency Management Office staff will conduct an outdoor “voice” test at Building 87 on Wednesday, Nov. 1, at Lewis Field. An audible siren test focusing on the “all clear” tone will be conducted on Saturday, Nov. 4.

POC: Allen Turner, 3–6826

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**IFPTE LOCAL 28, LESA MEETING**

LESA will hold its next membership meeting, Wednesday, Nov. 8, noon, in the Glenn Employee Center’s Small Dining Room.

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**NATIVE AMERICAN OBSERVANCE MONTH**

Glenn’s annual observance is Thursday, Nov. 9, from 9 to 11 a.m. in the MIC Auditorium. The speaker will be Mark Abotossaway. This year’s theme is “Traditional Knowledge. New Ideas. A Better World.”

POC: Dimeta Hughes, 3–3616

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**FEHB OPEN SEASON**

Federal Employee Health Benefits (FEHB) Open Season runs Nov. 12 through Dec. 11, 2017. Glenn’s FEHB Open Season Fair will be held Tuesday, Nov. 14, from 10 a.m. to 2 p.m. in the Upper Level of the Main Cafeteria, Bldg. 15.

POC: Rhonda Billick, 3–6286

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**NASA RETIRED WOMEN’S LUNCHEON**

The next luncheon is Thursday, Nov. 16, at 1 p.m. at Old Vienna Restaurant, 30111 Lorain Rd, North Olmsted. Please reserve your place with Gerry Ziembra at goto64gerry@yahoo.com or 330–273–4850.

Deadline for next calendar section is Oct. 20, noon. News and feature stories require additional time.
Two Employees Presented SFA Honoree Awards

Glenn’s Michael Belair and Carrie Green received the prestigious Space Flight Awareness (SFA) Honoree Award, Aug. 16. The VIP event, held at the Hyatt Regency Grand Cypress Hotel in Orlando, included viewing the Tracking Data and Relay Satellite (TDRS)–M mission launch, Aug. 18, at Kennedy Space Center in Cape Canaveral, Florida.

The SFA awards program is a NASA-managed motivational and recognition program for NASA and contractor employees who have major responsibilities for human spaceflight mission success.

**Belair** received the award for outstanding leadership and contributions to the development of the Orion European Service Module (ESM). As the NASA component engineer responsible for oversight of the ESM Auxiliary Engine, Belair is the NASA technical representative in numerous major project boards. His actions have led to prevention of potential flight failure and timely delivery of the EM–1 flight engines.

**Green** received the award for excellence in her commitment to safety and technical leadership for the European Service Module (ESM) Propulsion Subsystem Project (PSS) at Glenn. As the Safety and Mission Assurance Lead on ESM PSS, Green provides oversight to the European Space Agency (ESA)/Airbus by breaking boundaries between organizations and working cooperatively with multiple NASA centers and ESA/Airbus to resolve safety concerns with the current design.

Anita Liang, director of Glenn’s Safety and Mission Assurance Directorate, joined astronauts Steve Bowen and Nicole Mann and NASA Deputy Associate Administrator for Policy and Plans, Human Exploration and Operations Mission Directorate, Greg Williams in presenting the awards.

By S. Jenise Veris