



Visitor Center Relocates, Center Outreach Still Vibrant

NASA Glenn's Visitor Center (VC) will soon have a new home! In late January, Glenn signed a 10-year Space Act Agreement naming the Great Lakes Science Center (GLSC) as the official site for Glenn's VC. Moving the VC to downtown Cleveland allows NASA to reach more people and expand its ability to educate and inspire youth in the areas of science, technology,

engineering and mathematics (STEM). The on-site VC's last day of operation was Feb. 6.

As a result of this agreement, many of the exhibits from Glenn's on-site VC will be transferred to GLSC. In March, the first phase of the move will include a collection of rocket models, a flight simulator and a solar array segment that

was tested in a Glenn vacuum chamber. Additional exhibits will be transferred in phases as the GLSC expands the NASA Glenn galleries. Glenn will retain ownership of the articles that make up the exhibits.

GLSC will serve as Glenn's new visitor center promoting and educating

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Alliance Addresses Crucial Aircraft Icing Issues

While the average flight passenger considers airport security, departure/arrival times and weather delays, there is rarely concern with aircraft ice buildup until they observe deicing trucks spraying down their aircraft prior to flight. Luckily for the average passenger, researchers at Glenn and fellow members of the Aircraft Icing Research Alliance (AIRA) think about this for them.

AIRA is an alliance of seven governmental agencies that have a shared interest in icing research and actively collaborate to improve the safety of aircraft operations. Key members include: NASA, National Research Council of Canada, Environment Canada, Transport Canada, National Defence-Canada, National Oceanic and Atmospheric Administration, Defence Science and Technology Laboratory-United Kingdom and the U.S. Federal Aviation Administration.



Photo courtesy of NASA

Left to right: IRT technicians Joe August, Craig Reiker and researcher Andy Broeren measure ice thickness on a NACA 23012 airfoil model.

"The alliance provides a platform for member organizations to pool their talents and resources to pursue icing research efforts that would not be possible by any one organization alone," said Dr. Renato (Ron) Colantonio, Glenn Icing Branch chief and current AIRA chairperson.

NASA has been a member of AIRA since its conception in 1999. Glenn, Goddard and Langley are working directly on alliance-focused research areas. Glenn is well equipped for this research because of its Icing Research Tunnel (IRT), one of the largest refrigerated wind tunnels in the world; unique research aircraft; and highly skilled researchers and technicians.

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Mary Lester Named Center Operations Deputy



Lester

Mary Lester has been selected deputy director of the Center Operations Directorate, effective January 17. Lester has been acting deputy director of the Directorate since February 2009. In this position, Lester helps guide institutional services in the areas of human capital, procurement, protective services, and logistics and technical information.

Lester previously served as chief of Glenn's Logistics and Technical

Information Division, managing a wide variety of institutional operations.

During her 29-year NASA career, Lester has served in a number of high-profile positions, including documentation manager for the International Space Station, project management specialist for Launch Vehicles and executive officer for the Space Directorate. She was credited with establishing the center's critical documentation management

function for Glenn's participation in the agency's space station activities.

Lester earned her bachelor's degree in diplomacy and foreign affairs from Miami University in Oxford, Ohio, and her master's degree in business administration from Baldwin Wallace College in Berea, Ohio. She has received the NASA Exceptional Service Medal and Outstanding Leadership Medal.

Alliance Focuses on Aircraft Safety

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The alliance met in December 2009 to discuss points of interests and to determine AIRA's new focus. One of the major points of interest is the global phenomenon of engine icing that occurs around certain types of storm clouds.

"Historically we've been investigating, modeling and addressing fixed wing airframe icing," Colantonio explained. "However, NASA's icing efforts are evolving in a different direction. Looking ahead, there will be an increased focus on the cause of an emerging safety issue created by a unique weather phenomenon that enables ice to buildup within the engine."

Alliance members are partnering with the Australia government and The Boeing Company to conduct a crucial first step in this research. A flight campaign is tentatively scheduled in Darwin, Australia in 2012 to characterize the weather that can lead to engine icing, using Australia's comprehensive ground-based weather sensors. Prior to this testing, an evaluation of aircraft instrumentation and test operations is also being considered in Puerto Rico in 2011.

C-2009-483

Photo by Quentin Schwinn



An IRT technician traces ice shapes on an IRT wing model to create digital models for validation.

In addition to the flight campaign in Australia, Glenn is in the design phase of an effort directed towards modifying the Propulsion Systems Laboratory (PSL) to create ice particles that can form ice inside a full-scale engine at simulated flight conditions. Modifications are expected to be complete by 2011. The PSL has the ability to simulate altitude conditions at which aircraft normally operate, allowing researchers to create the conditions required to properly reproduce engine ice buildup.

"Participating members of AIRA will share the results of engine icing research with their partners and industry with the goal of enhancing the design and development of safer aircraft," said Colantonio. "Glenn is proud of its role to again demonstrate NASA's tradition of excellence."

—BY CASSIE BARNES,
LERCIP INTERN



APPLAUSE!

Making a Difference

Debbie Goodenow, an electrical engineer in the Diagnostics and Data Systems Branch, helped students at Artemus Ward Elementary School in Cleveland with an engineering project coordinated through the Society of Automotive Engineers (SAE). With Goodenow's help, fifth grade students constructed, tested and modified small balloon-powered jet carts made from card stock and masking tape over 4 days. One of the team's carts even won an SAE regional district award for going the farthest distance! Goodenow's willingness to share her time and talent helped these area students learn a little more about what it's like to be an engineer.



Goodenow and Artemus Ward students.

Retiree Spotlight

Merrill Aides Task Force to Haitian Cities

Since the devastating earthquake ravaged Port-au-Prince, Haiti, Jan. 12, many people have been compelled to offer their assistance. Glenn retiree Walt Merrill, however, realized the importance of helping this impoverished country prior to the recent disaster.

Merrill is a member of the North Coast District (NDC) Haiti Mission of Cleveland, a task force sponsored by the United Methodist Church. NDC focuses on supporting education in Haiti by funding tuition, providing school supplies and hot lunches, training faculty and improving facilities.

In November, Merrill and two other team members spent a week making repairs to a primary school in the small rural village of Dondon. They also helped renovate a building now used as a sewing and cooking trade school in Cap-Haitien, the second largest city in Haiti. NDC also purchased an initial five sewing machines with the necessary sewing materials and supplies. Dondon borders Cap-Haitien, which is located about 80 miles north of Port-au-Prince. This was his second visit to the Haitian cities. Fortunately, the earthquake affected neither location.

“During my visits to Haiti, I have been impressed by the generosity, faith and good humor of the Haitians I have met. Their joy for life in a land of crushing poverty should be an example to us all. I pray that this latest and cruelest of tragedies will not change that,” Merrill said.

Merrill, who retired in 2006 as chief of Glenn’s Instrumentations and Controls Division following a 30-year NASA career, became a member of the NDC Leadership Team in 2008. He helps assemble U.S. teams to travel to Haiti, selects projects, raises money to support the various projects and has his own solar lighting project. (There is no electricity in Dondon.)



In addition to volunteering with the NDC, Merrill works part time for Scientific Monitoring, Inc. (Scottsdale, AZ) developing high temperature electronics and advanced engine controls for NASA and the Air Force.

“I expected to return to Haiti, but now it will be much sooner than I had originally planned, Merrill said. “I’ve been greatly blessed and they need our help. How could I refuse?”

—BY S. JENISE VERIS



Above, left, students at Dondon’s primary school. Above: Merrill introduces the frisbee to some students and workers.

Glenn Space Flight Awareness Honorees

Five Glenn employees were recently named Space Flight Awareness (SFA) honorees. The SFA is one of the most prestigious awards available to employees of NASA, the Department of Defense, and industry in recognition of their dedication to quality work and flight safety. Part of the recognition included a reception at Kennedy Space Center, tours and viewing the STS-129 launch. Honorees include:

Salvatore Anzalone, ARCO/Program and Project Assurance Directorate, for dedicated service to the Ares I-X Upper Stage Simulator flight test vehicle program at Glenn.

Kenneth Monai, HTSI/Center Operations Directorate, for dedication and technical excellence providing metrology support to the STS-119 impact testing.

Gail Perusek, ISS and Human Research Project Office, for contributions to NASA’s Human Research Program efforts to improve the quality and effectiveness of the crew exercise regime on the International Space Station.

Albert (Jack) Weigand, SGTI/Center Operations Directorate, for dedication and technical excellence in support to the STS-119 impact testing.

Dr. James Sutter, Polymers Branch, for leadership and technical contributions to enhancing the safety of composite overwrap pressure vessels for human space flight applications and support of NESC materials activities.

Editor’s Note: Previous launch honorees Kim de Groh and George Saad also attended.



Glenn SFA honorees and guests at the STS-129 launch at NASA Kennedy.

New Visitor Center Location Brings NASA Closer to the Public

Continued from page 1

regional and national audiences about the importance of aeronautics, science and space exploration through NASA exhibits, educational tours, special events and outreach activities. Plans call for the new NASA Glenn VC to be housed in 7,300 square feet of interior exhibit space at the GLSC, along with additional space that includes the OMNIMAX Theatre and auditorium for special programs and events. Additionally, a major exhibition redevelopment at GLSC, estimated at \$3 million, will enable NASA to showcase even more artifacts and exhibits. It is expected to open in 2011.

Great Lakes Science Center hosts over 300,000 visitors each year.

“Glenn’s goal is to share NASA’s mission with as many people as possible,” explained Associate Director for Planning and Evaluation Dr. Howard Ross, who is also acting director of External Programs. “About 60,000 people came through our onsite visitor center each year. The Great Lakes Science Center, one of the nation’s leading technology and science centers, hosts over 300,000 each year. This move will allow us to reach hundreds of thousands more people each year.”

Focus on Students

The move enables students and adults to see all GLSC and NASA science, space and aeronautics exhibits in a single stop. Under the agreement, on Tuesdays, GLSC will provide free admission to the NASA Glenn VC, along with free admission to GLSC exhibits, to all youth (visitors 18 and under or any student up through 12th grade) accompanied by an adult.

In addition, all Ohio Title I schools and schools that came to the Glenn VC in the past three years will be admitted free to the newly located VC any day of the week for school field trips. Special

programming days are being planned each month by GLSC to deliver a rich experience for these schools and their students.

Free admission for students will begin once exhibits from Glenn have been transferred to GLSC.

Glenn Outreach Initiatives

As the GLSC takes on the role as NASA Glenn’s official VC, Glenn is stepping up its own public outreach activities and taking information out into the community about NASA, science and the benefits of careers in math, science and engineering that will inform and inspire the public.

“Glenn will continue to operate a robust Speakers Bureau Program, traveling exhibits, public inquiry services and public tours of select research facilities, all of which have benefited the region for years,” said Center Director Dr. Woodrow Whitlow Jr.

Glenn’s Speakers Bureau, made up of engineers, scientists, other professionals and retirees, delivers approximately 700 presentations to more than 60,000 people each year. Audiences include preschool to college classes, library and museum groups, scout troops, and professional, technical, civic and social organizations. Obtaining a NASA speaker is a free service.

The excitement of NASA’s aeronautics and space programs is also available to



Exhibits such as the Apollo-Skylab Command Module, used during the 1973 Skylab mission, will be relocated to the Great Lakes Science Center.

organizations and institutions through Glenn’s traveling exhibits program. Exhibits such as scale rocket models, spaceflight accessories and moon rocks, as well as floor displays and multimedia exhibits, can bring NASA’s pioneering research and exploration efforts closer to home. Items can be borrowed for a variety of events, such as fairs, festivals and air shows.

Glenn’s public inquiry services help keep the public informed of NASA’s accomplishments by responding to questions from students and adults asking for publications, lithographs, decals and other items that reflect NASA’s vision and mission. The general public can submit questions by mail, e-mail, fax or telephone.

Glenn will continue to offer public tours of select research facilities. The tours are designed to show the public where NASA develops and tests cutting-edge air and space technology. Beginning in April, the center will offer two Saturday tours each month through August.

Continued on next page



Left: Glenn’s Community Relations Team will continue to organize exhibits such as this at festivals, air shows and other public events to highlight NASA’s mission.

Public Outreach Going Strong

Continued from page 4

For the larger public events, which include air shows and festivals, Glenn can bring the excitement of exploration with its largest traveling exhibit, Journey to Tomorrow. This 53-foot trailer has been transformed into an interactive environment packed with hands-on activities and digital learning stations. Also available, is the popular digital photo booth where visitors of all ages can take home a free souvenir photo of themselves as an astronaut in space.



C-2007-708 Photo by Quentin Schwinn



Center outreach activities, pictured, clockwise: Journey to Tomorrow Trailer; public tour at Plum Brook Station, Speakers Bureau member supports outreach.

Beginning in April, Glenn will host two Saturday public tours each month.

For many events, members of Glenn's Speakers Bureau and other Glenn employees may be available to staff the exhibits and interact with guests.

Some of the space previously occupied by the on-site VC will transition to a smaller-scale briefing center that will continue to host small groups of guests as needed. Over time, it will be reconfigured according to the center's needs.

Inclement Weather Lines
 216-433-9328
 Lewis Field
 419-621-3333
 Plum Brook Station

News and Events

New CSU President Visits

Center Director Dr. Woodrow Whitlow Jr. and Glenn's Cleveland State University (CSU) alumni welcomed CSU's new President Dr. Ronald Berkman and staff during a visit on Jan. 4. Berkman received an overview of the center's research capabilities, toured facilities and attended an alumni gathering. He was accompanied by Dr. Julian Earls, former Glenn center director and current executive in residence at CSU's Nance College of Business Administration, and Peter Anagnostos, vice president of University Advancement and executive director of the CSU Foundation.



C-2010-114 Photo by Bridget Caswell

Glenn CSU alumni and friends greet CSU President Dr. Berkman (right). Pictured, left to right, Nuba Nuwash, Brenda Ellis, Fran Lawas-Grodek, Dr. Al Jubasz and Dr. John P. Gyekenyesi.



Photo by David DeFelicis

Star Wars With a Twist

Glenn's Community Relations Team showcased NASA's vision for the future at the national Star Wars® Concert at Quicken Loans Arena in December. Over 800 people explored a series of pop up exhibits on space technology, including space suit displays. They also viewed the NASA Robonaut video, and a presentation on science fiction movies with a NASA perspective. Eva, the Inflatable Astronaut, also made an appearance.

Pictured: Dr. Jonathan VanNoord, Propulsion and Propellants Branch, left, explains ion thruster technology to concert guests.

QASAR Award Presented to DellaCorte



Dr. DellaCorte

NASA's Office of Safety and Mission Assurance presented Dr. Christopher DellaCorte, Tribology and Mechanical Components Branch, with a 2009 NASA Quality and Safety Achievement Recognition (QASAR) Award at the NASA Project Management (PM) Challenge on Feb. 10. The award spotlights government and contractor employees who have demonstrated exemplary performance contributing to the quality and safety of products, services, processes, or management programs and activities. DellaCorte is recognized for his leadership and dedication in determining the root causes and mitigation for the International Space Station's Starboard Solar Array Alpha Rotary Joint (SARJ) raceway failure.

Earp: New Patent Attorney



Earp

Robert Earp, III has been selected to the position of patent attorney in Glenn's Office of the Chief Counsel. Earp is the former head of the Intellectual Property Group at McDonald Hopkins, LLC, Cleveland-based law firm of over 200 attorneys. Earp has supported Glenn since 2007 as one of several outside counsels contracted to support the Office of the Chief Counsel. He brings significant experience in patents, trademarks, copyrights, trade secrets and licensing to the center.

FIRST Leadership Program

Glenn's 2009 FIRST (Foundations of Influence Relationships Success and Teamwork) class graduated from the leadership program during a ceremony at Kennedy Space Center in December. NASA FIRST is the agency's 1-year leadership development program for GS-11 and GS-12 engineers, scientists and administrative professionals. It focuses on developing leadership capabilities and intra-agency collaboration.

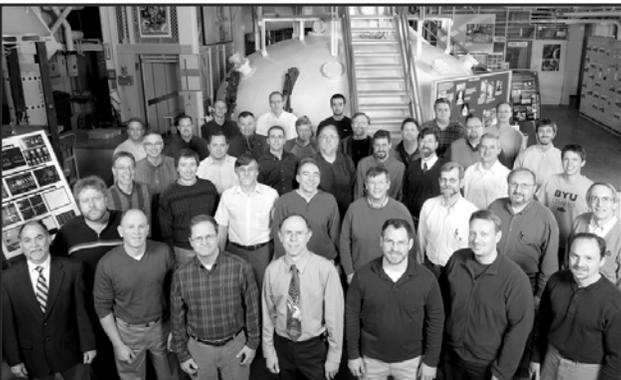


Photo courtesy of NASA Kennedy

Pictured, left to right: Jennifer Nappier; Raquel Redhouse; Plum Brook Station Director David Stringer; 2009 advisor; Robert Overy; Steven Sinacore and Lindsey Flash.

Scout Pride

In support of the Boy Scouts of America 100th anniversary in February, 37 Eagle Scouts among the NASA Glenn workforce met for a group picture in the Zero Gravity Research Facility. The photo will be used for outreach to Boy Scouts throughout the year, including



C-2010-307

Photo by Michelle Murphy

the NASA exhibit at the Greater Cleveland Council's Centennial Camporee on May 21-23, and the National Scout Jamboree that will be held in Virginia this summer. For more information, visit <http://scouting.org/100years/100years> or contact Eagle Scout Dennis Stocker, at Dennis.P.Stocker@nasa.gov.

Sadler Named PM



Sadler

Gerald Sadler was selected Ares V Shroud project manager in the Launch Systems Project Office. Sadler previously served as Vehicle Integration Manager for Ares I and Ares V while also serving the past year on the Ares V source evaluation board and leading Glenn's Ares V work capture initiatives and planning for the past 2 years.

Retirements



DeCore



Henninger



Poulsen



Ramos

Marilyn "Marty" DeCore, Space Operations Project Office, retired on Jan. 30, 2010, with 20 years of NASA service.

Linda Henninger, Space Operations Project Office, retired on Feb. 3, 2010, with 35 years of NASA service.

Rita Poulsen, Procurement Division, retired on Feb. 3, 2010, with 36 ½ years of NASA service.

Ruben Ramos, Space Combustion, Microgravity, Materials and Structures Technical Branch, retired on Jan. 30, 2010, with 12 years of NASA service.

Henry Wroblewski, Facilities Division, retired on Feb. 3, 2010, with 40 years of federal service, including 36 with NASA.

In Memory

Kalynchuk was Expert on Environmental Issues



Kalynchuk

Richard S. Kalynchuk, 59, an environmental engineer with Science Application International Corporation supporting NASA Glenn's Safety, Health and Environmental Division (SHED), died suddenly on Dec. 21.

Kalynchuk was an outstanding professional dedicated to protecting the environment and supporting the mission of the center. He received a NASA 2008 Blue Marble Award for Environmental Quality Management presented to members of the cross-agency Constellation Programmatic Environmental Impact Statement Team, for exemplary effort to identify, assess, document and communicate potential environmental impacts of development, testing and operation of spacecraft and support systems associated with the Constellation Program through 2020.

"Richard's expertise in the National Environmental Policy Act (NEPA) and dedication to the protection of endangered species was well known. His passing is a great loss to the center and a personal loss to me," said Manuel Dominguez, SHED chief.

During his 17 years of service at Glenn, Kalynchuk also participated in several environmental outreach efforts, including the Adopt-the-Highway Team and the Earth Day Committee supporting events such as Earth Day and America Recycles Day.

Dr. Karl A. Faymon, 82, who retired in 1991, died on Jan. 13. Prior to his retirement, Faymon served as chief of the Planning, Analysis and Systems Office, Power Technology Division, where he focused on analyzing and planning the ideal power systems to ensure mission success under the agency's Lunar Orbiter Program. He won several awards for technical reports and group achievement.

George K. Fischer, 86, who retired from NASA in 1983, died in June 2009. Fischer was an internationally recognized authority in the fields of fluid film bearings and rotor dynamics. Fischer joined NASA in 1963, as a seasoned businessman, inventor and consultant. He invented the first turbine-driven dental drill. His early research efforts at NASA focused on gas bearings and materials that contributed to the success of the NASA Brayton Cycle 10 kW Space Power System in the bearing-rotor area. Fischer's talents led to assignments at NASA's Lewis Resident Office, Pratt & Whitney Florida in 1966, then NASA Kennedy Space Center in 1968. He returned to Lewis Field in 1979 to serve as deputy program manager of the Helicopter Transmission System Technology Program until his retirement.

In Appreciation

Heartfelt thanks to my NASA family for your generosity and sincere friendship expressed following our recent house fire. While we lost almost everything, you have made starting over easier.

—Denise Ryant and Family

I would like to thank the NASA Glenn family for all of your cards, flowers, prayers and kind words expressed during my mother's illness and her passing. Your kind and caring expressions of sympathy truly gave comfort to my family and me during a very difficult time. —Lynda Glover

Calendar

BLACK HISTORY MONTH: Glenn's African Heritage Advisory Group and the Diversity Management Committee will present award-winning journalist Jeff Johnson, as well as African-inspired art vendors and refreshments on Tuesday, Feb. 23, 10 a.m. -12 p.m., Bldg. 3 Auditorium.

AFGE MEETING: AFGE LOCAL 2182 will hold its next membership meeting on Wednesday, Mar. 3 at 5 p.m. at Denny's Restaurant, 25912 Lorain Road, North Olmsted.

NASA COLLEGE SCHOLARSHIPS: Applications are due for the annual scholarship by March 19. POC: Lynne Sammon, 216-433-3952.

IFPTE LOCAL 28, LESA MEETING: LESA will hold its next membership meeting on Wednesday, Mar. 10 at noon in the Small Dining Room of the Employee Center, building 15.

DEADLINES

News items and brief announcements for publication in the March issue is noon, Feb. 19. Larger articles require at least 1 month notice.

<http://aerospacefrontiers.grc.nasa.gov>



Hermes
Award



Imaging Technology Center Relocates

To better serve its customers, the Imaging Technology Center, formerly known as the photo lab, has relocated from building 5 to building 21. The move allows the Logistics and Technical Information Division and the TIALS contract to collocate the Imaging staff and operations with those of the Publishing, Duplicating and Electronic Forms portions of the Media Services team. The consolidated one-stop-shop location allows the Media Services team to more efficiently serve the needs of the Glenn community. The Imaging Technology Center is fully operational in building 21. Phone extensions for all Imaging Technology staff remain the same. The new mail-stop is 21-18.

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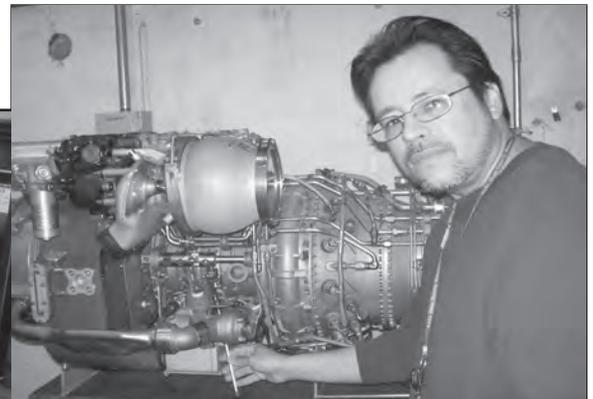
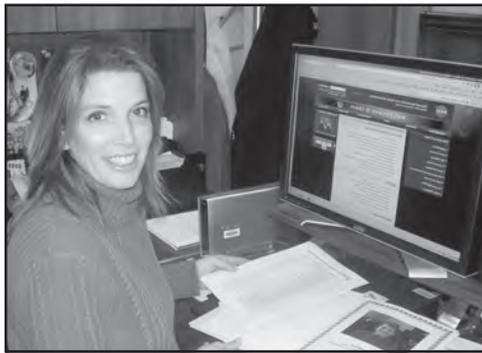
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Suggestions Welcomed Here!

Do you ever say to yourself: "There has to be a better way to do this!" Ricky Rivera, Aero Power & Propulsion Technical Branch, and Mary Mayda-Vincent, SGT/Constellation Office, did. They recently received recognition and monetary rewards for ideas aimed at improving work processes through the Employee Suggestion Award Program.



Photos by Doreen Zudell

While working on the T-700 Turboshift Engine Program in the Engine Components Research Laboratory, Rivera spent an entire workday making adjustments inside the engine. Frustrated with the tedious process, Rivera designed and crafted a tool that enables a technician to reach inside the engine to make the adjustment, rather than taking the engine apart. What originally took a day to accomplish is now done in about 10 minutes, and is more accurate because no hardware is removed. This assembly saved 20 days of cell occupancy, thus substantially saving time and money.

With 20 years as a clerical support assistant, Mayda-Vincent had spent a great deal of effort preparing retirement folders for distribution across the center. The process was time-consuming for the clerical staff and often resulted in late or lost folders. Mayda-Vincent felt it was time to take the process into the electronic age, and suggested developing an online

signature page where employees could express appreciation and well wishes to retiring employees in a more efficient manner. The Glenn Electronic Retirement Signature Page is now up and running and can be accessed through the WING Page by typing "retiree" in the transport box. In addition there will be a listing of the open retirement books on Today@Glenn with the link.

Rivera and Mayda-Vincent are just two of several employees—civil servants and support service contractors—whose ideas have been accepted under Glenn's Employee Suggestion Award Program. Since 1993, this program has acknowledged and rewarded employees for ideas aimed at improving productivity and customer satisfaction, reducing costs and eliminating duplication of efforts. In fiscal year 2009, the program awarded thousands of dollars to civil servants for money and timesaving suggestions. Many support service contractors participating

Pictured left: Mayda-Vincent replaces hard copy retirement folders with online process. Pictured above: Rivera designed and crafted a tool that reaches inside an engine to make adjustments.

in the program have received recognition through their prospective program offices as well.

Employee Suggestion Award Program Committee Chairman Harvey Schabes, Engineering Directorate, said the program is still vital to the center. He encourages employees to share their ideas for making the workplace more efficient and effective.

"Often it's the people who do the work on a daily basis that have the best ideas on how to improve it," Schabes said, "and sometimes a simple idea perfected through the suggestion review process is all that's needed to start the ball rolling toward positive change."

—BY DOREEN B. ZUDELL