



AEROSPACE Frontiers

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Glenn Hardware Delivered to International Space Station

When the Space Shuttle Endeavour lifted off on Nov. 14, it carried two major pieces of Glenn-developed hardware: the Combustion Integrated Rack (CIR) and the Multiuser Droplet Combustion Apparatus (MDCA), as well as four Glenn experiments. The hardware was designed, fabricated and tested over the last 10 years at NASA Glenn.

The CIR can be used in different scenarios and experiments focused on combustion research to aid more efficient energy

Continued on page 2



Photo by Marvin Smith

C-2006-413

The MDCA at NASA Glenn prior to shipment to the ISS.

Dr. Whitlow Presents State of the Center Address

How has the center progressed in meeting its goals in 2008?

During his State of the Center Address on Nov. 12, Center Director Dr. Woodrow Whitlow Jr. highlighted some of the activities the center has undertaken over the past 14 months to meet these commitments.



Photo by Marvin Smith

C-2008-3548

"I am proud of our accomplishments," Whitlow said. "They are significant and will allow the agency to meet its strategic goals."

His presentation focused on:

- Reshaping the center leadership team and workforce to allow us to make significant contributions to NASA's mission
- Past year accomplishments that are critical to the agency achieving its strategic goals
- Infrastructure improvements
- Major role assignments in future agency programs
- Cohesive, vibrant team that is on track for much more.

For details on these areas, employees can view a PDF of the presentation at <http://www.grc.nasa.gov/WWW/director/>.

—BY DOREEN B. ZUDELL

Inside

DIRECTORATE NEWS 2
Plum Brook Management Office offers holiday stress-reduction tips

TECHNOLOGY BRIEFS 3
New technologies, licensing

ARMED SIX-MONTH REVIEW..... 3
Aeronautics Research Mission Directorate AA addresses Glenn

CATARACT RESEARCH 5
Technology validated in clinical study

HSPD-12 Updates 8
Important subcomponents reside under HSPD-12 umbrella

PLUS...Promotions, Awards, Obituaries and more

Happy Holidays



Flight Hardware Leaves Center

Continued from page 1

production on Earth, reduce combustion-generated pollution and address the fire hazards associated with space travel. The MDCA is the first multiuser insert for the CIR designed to accommodate different droplet combustion science experiments, the first of which will be the Flame Extinguishment Experiment to assess the effectiveness of fire suppressants in microgravity. Together, they allow for cost-effective, extended access to the microgravity environment.

The four Glenn experiments that were part of STS-126's mission cargo include:

The Smoke Point In Co-flow Experiment (SPICE) that determines the point at which gas-jet flames, similar to a butane-lighter flame, begin to emit soot. Studying a soot-emitting flame is important in understanding the ability of fires to spread and in the control of soot in combustors ranging from jet engines to coal-burning power plants.

The Shear History Extensional Rheology Experiment (SHERE) is designed to investigate the effect of preshearing (rotation) on the stress and strain response of a polymeric liquid (a fluid consisting of many molecular chains) being stretched in microgravity. SHERE is important for understanding containerless process-



Glenn's Jim Birchenough (ZINT), left, and John Graziani (NGIT) made final adjustments on CIR before shipment.



Thanks to your hard work and dedication, 2008 has been a dynamic and rewarding year for all of us at NASA Glenn Research Center. I hope during this holiday season that you relax and enjoy time with family, friends and coworkers. On behalf of the Center Leadership Team, we wish you all the best in the coming year.

—Dr. Woodrow Whitlow Jr., Center Director



Dr. Whitlow

ing, an important operation fabricating parts (such as adhesives or fillers) using elastomeric materials on future exploration missions.

Space Acceleration Measurements System-II (SAMS-II) sensors, called Triaxial Sensor Head Ethernet Standalone, operate within the CIR and the Microgravity Science Glovebox facilities. These two SAMS sensors will provide acceleration data for fluid physics, material science and combustion experiments performed on the station where the effects of gravity are important to the results of the research and affect the outcome of the research.

Component Repair Experiment 1 (CRE 1) is designed to develop better methods of on-orbit electronics repair. This experiment examines how to manually repair faulty circuit boards in low gravity aboard a spacecraft.

Glenn's contributions were a significant portion of nearly 32,000 pounds of equipment stowed inside Leonardo, the Multipurpose Logistics Module (MPLM), that Endeavor delivered to the station to optimize the amount of research performed and expand accommodations from three to six members by spring 2009. The MPLM provides additional sleeping quarters, a second toilet, a water reclamation system and a resistance exercise device.

In addition to remodeling, the 15-day mission focused on four spacewalks to service the station's two Solar Alpha Rotary Joints (SARJ), which allow the outpost's solar arrays to track the sun. The starboard SARJ has had limited use since Sept. 2007.

For more information on STS-126, visit <http://www.nasa.gov/shuttle>.

—BY KATHERINE MARTIN & JEANNETTE OWENS

DIRECTORATE NEWS

Plum Brook Management Office

Don't Stress—Rejoice and Be Glad!

The *Federal Register* marks December as the Christmas holiday. It's also the end of fall schooling and the completion of the tax year for most of us. There's also lots of travel as weather conditions worsen and the winter solstice marks the start of a three-month cool down (make that a deep freeze for us on the North Coast). All this is to say that these are times that can stress us. The purpose of this column is to suggest ways to avoid it.



David Stringer,
Plum Brook
Management Office
Director

Continued on page 3

Technology Briefs

Technology Licensed for Medical Monitoring

NASA Glenn has licensed technology to Endotronix, Inc. of Peoria, Ill., that may help thousands avoid the potentially life-threatening complications of hypertension, abdominal aortic aneurysms and congestive heart failure. Space communications technology enabled the creation of extremely small antennas for Bio-microelectro-mechanical systems (BioMEMS). Sensors can be implanted in the body and wirelessly transmit findings to a hand-held device that will power the implanted sensor, telemetrically retrieve the data and transmit it wirelessly to a computer for further assessment and analysis. For more details, visit http://www.nasa.gov/centers/glenn/news/pressrel/2008/08-043_licensed.html.



Photo by Marvin Smith

Dr. Harry Rowland, Endotronix, Inc., left, discussing, with Glenn's Dr. Felix Miranda, center, and Dr. Rainee Simons (right), details of antenna components for Telemetry Systems for Embedded BioMEMS Sensors. The concept is based on two patents by Simons and Miranda.

ARMD Scores High in Six-Month Review

How does the Aeronautics Research Mission Directorate (ARMD) score in addressing tough ARMD issues, listening to concerns of researchers/project teams and increasing efficiency while reducing the reporting/review burden for researchers?

"We're not perfect, but we're well on our way," said ARMD Associate Administrator Dr. Jaiwon Shin during a visit to Glenn on Oct. 30.



Photo by Marvin Smith

C-2008-4074

His "Six-Month Score Card" presentation focused on how the directorate team has been working to deliver results in fundamental research. Equally important, he stressed ARMD's progress in cementing partnerships and garnering support with agencies such as the Office of Management and Budget, NASA Advisory Board and private industry.

"I'm receiving positive comments internally and externally that we are on track," he reported.

With the goal to "build back the credibility of this agency," Shin cited the importance of maintaining the fundamental research that was established over 2 years ago when adding integrated system-level research aimed at reducing fuel dependence, emissions and noise and increasing the capacity.

"When we build up our credibility, the money will come," he said. "We've done it before. We have a lot of tools, we're smarter and we can do it."

—BY DOREEN B. ZUDELL

Left: Dr. Shin shares ARMD highlights.

Stress-Free Season

Continued from page 2

The first way is to remember that the season ought to be about caring for each other. You have permission to send your love with a smile or note (whether in person, voiced, e-mailed, snailed or texted). Don't let guilt or envy drive you to spend what you don't have.

The next way is to plan your activities to use your time wisely. There are many personal claims on all of us, like exams, shopping or attending events. It's helpful to talk as families about the upcoming demands before these activities overwhelm us. For those of us by ourselves, make an effort to reach out to others. If you aren't part of someone else's plans, find a way to help someone else. It's gratifying to make even a small difference.

Finally, be the rocket scientist your mother thinks you are by preparing your car, your house and yourself for winter. Whether it's antifreeze, wiper blades, calcium carbonate (better than salt) or snow boots, get yourself ready. Even with our first blast under our belts, you know the foot-deep snows and single-digit nights are coming. Your bank balance and those around you will admire your foresight and your diligence.

The people of Plum Brook Station are proud to be part of the superb Glenn Research Center team as well as a vital part of NASA's team—who boldly go where no one has gone before. So we send our greetings and best wishes to our colleagues and their families at Lewis Field and across NASA, the nation and the world. See you after the bowl games!

It's a Fact

NASA Glenn's Speakers Bureau has had an exceptional beginning to the 2009 fiscal year. Since October, Speakers Bureau members have presented at 76 events reaching over 18,000 people. This is a 54 percent increase over last year at this time!

Let Us Never Forget



Photo by Michelle Murphy

C-2008-4201

Employees gathered at Glenn on Nov. 6 to acknowledge the sacrifices of war veterans and those currently serving in the military. Glenn's Veterans Awareness Committee offered a poignant presentation that centered on military sacrifice and contributions. Through slides and candid recollections, keynote speaker Air Force pilot Major General Edward J. Mechenbier shared his experiences as a prisoner of war for nearly 6 years in North Vietnam. The Lorain Southview High School ROTC, *Pretty Good Quartet*, Culburn Robinson (KPSI/Security Management & Safeguards Office) on bagpipes, Puritas Elementary School principal and students, a wreath ceremony and recognition of U.S. armed forces rounded out the event. Pictured, left, participants and audience members accompany singer Jim Mazullo as he sang "Proud to be an American."

Next Generation of Astronauts

More than 325 students from 28 different schools (grades 1 - 12) had the chance to "be like Mike" — astronaut Mike Foreman that is — during exercises developed for the 6th Annual Young Astronaut Day held at Glenn, Nov. 8. Following Foreman's keynote address, the students competed in a variety of engineering problem-solving activities such as a wind power challenge, staged propulsion, rover races, space shuttle repair competition, space shuttle tile design competition and an airplane computer-aided design competition. The event, cosponsored by Glenn and the Northern Ohio Section of American Institute of Aeronautics and Astronautics (AIAA), was made possible with the aid of over 50 volunteers representing NASA, industry and academia. Pictured, right, are Bay Village Middle School students simulating a shuttle tile repair exercise during the event.



Photo by Karen Edwards



Photo by S. Jenise Veris

What Do You Do at NASA?

While the public may think only rocket scientists work at NASA, Take Our Children to Work Day showed young people the variety of career opportunities—many held by their own family members—available at NASA Glenn. On Oct. 30, over 200 children shadowed family members and later attended a presentation by motivational speaker, Gary Broadbent, aka "Boomerang Man." Pictured, left, Jesus Lopez, a mechanical engineering technician, demonstrates one of the many high-tech precision tools used to fabricate and machine aerospace flight hardware for vehicles, payloads and experiments for his granddaughter Sophia Demarco, far left, and niece, Olivia Diaz.

Caring for Glenn's Most Valuable Assets

What is the leading disease that disables Americans and forces them to discontinue working? The answer is arthritis. Glenn's Disability Awareness Advisory Group (DAAG) and the Office of Equal Opportunity Programs invited a panel of experts to discuss arthritis and other degenerative diseases, such as diabetes and glaucoma, on Oct. 28. The panel included Kelly Donahue, the Arthritis Foundation; Tammy Randall, Diabetes Association of Greater Cleveland; and Dr. Anthony Cirino, Cirino Eye Center, Brunswick. Each panelist identified symptoms and factors for coping with these diseases, including advances in technology that will help people lead longer and more productive lives. An additional highlight was DAAG's presentation of the 2008 Disability Awareness Award to Dallas Lauderdale, chief of the Facilities Division (see *Awards*).

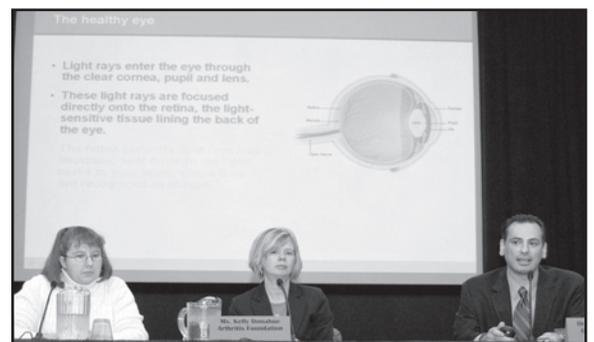


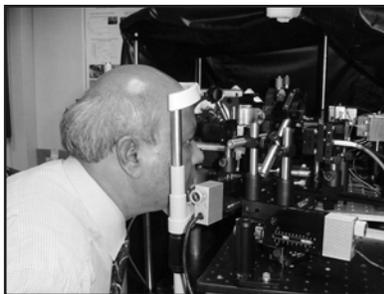
Photo by Michelle Murphy

C-2008-4217

Panelists, pictured left to right, are Randall, Donahue and Dr. Cirino.

NASA Technology Helping Cure Cataracts

Every year about 400,000 Americans are diagnosed with cataracts. They are the leading cause of blindness worldwide and the most common cause of vision loss in the United States. Today, the only cure is surgery. But thanks to Dr. Rafat Ansari, Bio Science & Technology Branch, other treatments may be on the way. Ansari began designing a new method to diagnose cataracts 14 years ago when the disease affected his own family. A clinical study recently validated his technology, which could lead to a medical cure for cataracts. To learn more about Ansari's research, visit NASA Glenn's Web site at <http://www.nasa.gov/centers/glenn/multimedia/index.html> to view a video or download the vodcast of an interview with Ansari.



Dr. Ansari incorporated NASA technology into this portable probe.

Calendar

DECEMBER THIRD SATURDAY EVENT: Get a unique view of exploration during the "Space in 3D" Third Saturday Program. This special holiday event will be held on Tuesday, Dec. 30. Contact the Visitor Center at 216-433-9653 or log on to <http://www.nasa.gov/centers/glenn/events/vcevents.html>.

SLIMATHON 2009: It's time to get your team together for the Jan. 12 registration deadline! Let the Fitness Center staff and your team help keep you accountable for lowering OR maintaining your body fat percentage during the upcoming year. Don't miss out on the prizes, fun and satisfaction of doing something for your health! Questions? Call 216-433-6313 or visit the Web site at <http://smad-ext.grc.nasa.gov/shed/gov/fitness/>.

AFGE MEETING: AFGE Local 2182 will hold its next monthly membership meeting on Wednesday, Jan. 7 at 5 p.m. at Denny's Restaurant, 25912 Lorain Road, North Olmsted.

LESA/IPFTE MEETING: Local 28, will hold its next monthly membership meeting on Wednesday, Jan. 14, at noon in the Employee Center.

That's a Good Question...

Q: I'm glad to see *AeroSpace Frontiers* is back in hard copy. However, the online format was nice because of its easy access on the Web. Is there any chance a PDF version will be posted on Glenn's Web site in the future?

A: Thank you for your question. Although creating a PDF file is relatively simple, the "behind the scenes" coding work needed to ensure each newsletter is compliant with Section 508 of the Rehabilitation Act is not, and requires IT support. We've heard you—and are working toward posting PDFs online very soon. Look for the online version to appear in early 2009.

Have a question or comment about AeroSpace Frontiers? Send it to: Doreen Zudell, editor, NASA Glenn Research Center, Mail Stop 3-11, 21000 Brookpark Road, Cleveland, OH, 44135. Submissions will be printed as space allows.

Sports Roundup

ACES Take Softball League Tournament

The ACES made team history this fall by beating their worthy opponents, the Sidewinders, twice, 13-5 and 15-7, to win their third straight NASA Softball League Tournament, and fifth in the last 6 years. Despite finishing third in the regular season, the ACES were 6-1 in the post-season tournament, out scoring their opponents by a 102-32 margin. The ACES were a combined 1-8 this year against the first place Darkside and the second place Sidewinders until the playoff semifinals. But in the final three games of the tournament, the ACES beat these two best regular-season teams in the league by an average margin of 11 runs, allowing only 5 multiple-run innings out of 19 played in the three games.

In the 2008 regular season, the Darkside captured the season championship with a fine 18-2 record. The Darkside earned their first regular-season championship in many years by winning their final 11 regular-season games to take the title.

Glenn's Softball League plays 20 regular season games from mid-May through August, when they have a post-season, double-elimination tournament in which all teams participate. The league had six teams this year but is looking to increase the number of players and teams next season. Interested in joining the league next season? Contact Softball League Commissioner John Zuzek, 216-433-3469. Civil servants, retirees and onsite support service contractors are eligible.



Photo by Doreen B. Zudell

The ACES, standing, left to right, John Caruso, Kurt Straub, Mark Mantbey, Ed Braunscheidel, Paul Karla, Ron Matthews, Rob Reginelli, and Mike Sasala. Seated, left to right, Dennis Robn, Jimmy Pennline, Ernie Mensurati and Dave Hoffman. Not Pictured: Andy Lukcso, Mike Hovanic, Mike Matthews, Joe Sasala, Bruce Shuman and Ron Everett.

People



Dr. Colantonio

Colantonio Named Icing Chief

Dr. Renato Colantonio has been named chief of the Icing Branch, Aeropropulsion Division. He joins the organization following an assignment as the National Aviation Operations Monitoring Service (NAOMS) Project manager (2008), who coordinated the release of pilot survey data to the public for the agency. Colantonio began his NASA career in 1987 as a project engineer coordinating combustion and high-temperature engine component testing for several NASA and Department of Defense programs.

Since then, he has amassed a wealth of technical and leadership experience, such as lead for NASA's 5-year Weather Accident Prevention Project and selection to the Senior Executive Service Class of 2002, which makes him an asset in the center's strategy for aerospace technology into the 21st century.

Glenn LDP Graduates

Glenn employees Dovie Lacey, Terri Rodgers and David Wilt were among 12 members of the 2007-2008 NASA Leadership Development Program (LDP) honored during the July graduation ceremony held at NASA Headquarters. In his keynote address, Bill Parsons, former center director of NASA's Kennedy Space Center, noted the value of LDP in developing leadership bench strength to meet NASA goals and the centers' commitment to the same as evidenced by the high quality of nominees competing agencywide. LDP involves a year's commitment from the home center and nominee to participate in developmental assignments, a class project, individual coaching, training and briefings by NASA and outside leaders to broaden participant understanding and strengthen leadership skills. Rodgers had the honor of giving the graduation speech on behalf of the LDP class.



Pictured, left to right, Lacey, Parsons, Rodgers and Wilt.

NWOC Technology Awards



Dr. Perez-Davis



Dr. Chuang



Pham



Smith

Glenn's Dr. Marla Perez-Davis, Dr. Kathy Chuang, Kimlan Pham and Lizalyn Smith were among the "superstars" honored at the 12th Annual National Women of Color (NWOC) in Technology Awards Conference held Oct. 25 to 28 in Dallas. The event recognized talented women in technology and their ability to mentor or inspire future talent. Glenn recipients earned awards in the following categories: Career Achievement in Government—Perez-Davis, chief, Project Liaison & Integration Office; Technical Innovation—Chuang, chemical engineer, Structures and Materials Division; Technology All Star—Kimlan Pham, manager, Subsonic Fixed Wing Project; and Technology Rising Star—Lizalyn Smith, aerospace engineer, Applied Structural Mechanics Branch. NASA women agencywide proudly earned 11 of the 2008 NWOC awards.

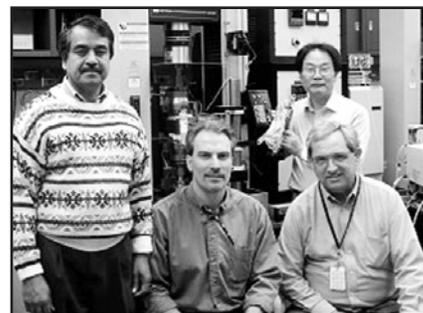
New Medical Director

Singleton Health Services has named Dr. John Kocka as medical director of NASA Glenn's Medical Services. Kocka is board certified in both family and regenerative medicine with special training in sports medicine. He has worked as the medical director of the Twinsburg Urgent Care and in private family practice. Kocka completed his residency at The Cleveland Clinic/Fairview Hospital. He also serves on the Ohio State Athletic Commission fight doctor. Kocka replaces Dr. Susan Gifford.



Dr. Kocka

Patent Issued



Pictured, left to right, Drs. Bhatt, Morscher, DiCarlo and Yun.

Four inventors in Glenn's Structures and Materials Division—Dr. James DiCarlo, Dr. Ram Bhatt (Army), Dr. Gregory Morscher (OAI) and Dr. Hee-Man Yun received a U.S. Patent for "Interphase for Ceramic Matrix Composites Reinforced by Non-Oxide Ceramic Fibers." The patent is for development of an improved interphase of fiber coating for ceramic matrix composite materials having non-oxide ceramic fibers that are formed in complex fiber architecture by conventional textile processes. This invention is an important element in the development of tough, high-temperature composite systems for a variety of aerospace and non-aerospace applications where intermediate temperature stressed-oxidation degradation is a major concern.

Have an accomplishment to share in the *AeroSpace Frontiers*? Contact S. Jenise Veris at 216-433-2888.

AIAA Elects Eight Glenn Associate Fellows

The American Institute of Aeronautics and Astronautics (AIAA) will honor eight Glenn engineers with the grade of Associate Fellow. AIAA Associate Fellows are individuals of distinction elected based on notable and valuable con-



Pictured, left to right, Arend, Smith, Ponchak, Kambawi, Long-Davis, Linne, Yoder and Tsao.

tributions to the arts, sciences or technology of aeronautics or astronautics. They include David Arend, Mary Jo Long-Davis, Jen Ching Tsao (OAI) and Dennis Yoder, Aeropropulsion Division; Dr. Hani Kambawi and Diane Linne, Power and In-Space Propulsion Division; Denise Ponchak, Communications, Instrumentation and Controls Division; and Lynn Nicole Smith, Service Module Project Office.



Dr. Ellis

Ellis Elected ASM Fellow

ASM International, the Materials Information Society, has selected Dr. David Ellis, Structures and Materials Division, to the rank of Fellow. Ellis was chosen for his sustained outstanding contributions to development of high conductivity materials, primarily copper-based alloys and composites, such as GRCop-84, the first new alloy to be developed for rocket engine main combustion chambers in 40 years.

Disability Awareness



Lauderdale

Dallas Lauderdale, chief of the Facilities Division, received the 2008 Disability Awareness Advisory Group Disability Awareness Award. He was cited for

"his attitude of initiative rather than compliance demonstrated by careful and thoughtful leadership to ensure Glenn's most valuable assets are considered in the planning, construction, maintenance and operations of the center."

Travis Honored

Retiree James Travis received the African Heritage Advisory Council (AHAC) Appreciation Award for 40 years of NASA service and AHAC leadership in determining strategic planning and by-laws.



Travis

In Memory



Becker

Carl F. Becker, 54, an employee of Stinger Ghaffarian Technologies, Inc. (SGTI) died suddenly on Nov. 4. Becker was a supervisor of Transportation supporting NASA Glenn's Logistics and Technical Information Division, where he oversaw the workflow and performance of personnel assigned to the Mail Room, General Delivery, Transportation and Receiving, and the Riggers/Movers.

Becker joined the Glenn workforce in 1987 supporting the Logistics Division as an employee of Cortez III Service Corporation. He remained in Logistics throughout his career transitioning through several support service contracts. He previously served 4 years in the U.S. Air Force.

Outstanding customer service and dedication to employee safety earned Becker many service awards throughout his career. "Carl was such an important part of the success of Logistics. We will all miss him as a colleague and friend after his many years of loyal service," said Logistics Manager Jeanine Hanzel, SGTI/Logistics and Technical Information Division. "Carl's positive disposition, integrity and dedication will be remembered always."

Becker's wife, Maureen, a member of the Glenn family teaching at Lewis Little Folks, survives him along with their 3 children and 7 grandchildren.

Frank C. Kocsis, 87, who retired in 1976 with 30 years of NASA service, died on Oct. 10. Kocsis supervised the Central Control Room in the Facilities Operations Division. He also served 4 years in the Army Air Corps.

Thayne W. Reynolds, 89, who retired in 1977 with 35 years of NASA service, died on Sept. 24. Reynolds was a research chemist in the Air Breathing Engineering Division. He worked principally on rocket propulsion systems including those for the Gemini and Apollo space programs.

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DEADLINES: News items and brief announcements for publication in the January issue is noon, December 15. Larger articles require at least 1 month notice. Submit contributions to the editor via e-mail, doreen.b.zudell@nasa.gov, fax 216-433-8143, phone 216-433-5317 or 216-433-2888, or MS 3-11. Ideas for news stories are welcome but will be published as space allows.



Many Subcomponents Reside Under HSPD-12 Umbrella



The Homeland Security Presidential Directive 12 (HSPD-12)—aimed at improving physical access and information system security—involves more than issuing new badges. This governmentwide initiative houses many subcomponents under its umbrella. Here's a brief description of some of these subcomponents, along with information on how Glenn is progressing in these areas.

Badging

This agencywide new badging process began last year. Since May 2007, Glenn has reissued new badges to 98 percent of its civil servant and onsite support service contractors, exceeding the Oct. 27, 2008, agency goal of 95 percent.

Enterprise Physical Access Control System (EPACS)

This component involves replacing and upgrading door readers, networks and computer systems that provide after-hours and limited access to facilities and building entrances. The center has completed 90 percent of this effort.

NASA Accounting Management System (NAMS)

NAMS will bring added security and consistency to the process of obtaining user ID access to Information Technology systems. The system will consolidate approval of application user accounts into one system. Existing users will be grandfathered into the system. Glenn is ahead of schedule in completing the process, which has a due date of 2011.

eAuthentication

eAuthentication is used by Web applications owners to leverage a centralized authentication and authorization service, as well as participate in NASA's Single Sign-On service. This service allows a user to login only once to a centralized service and then grants access to all eAuthentication Web applications without having to login again. Web application owners should subscribe to Glenn's eAuthentication interest mailing list at <https://lists.nasa.gov/mailman/listinfo/grc-eauth-interest>.

NASA Consolidation of Active Directory (NCAD)

NCAD is a single, agencywide directory service that you automatically access when logging in to your desktop.

NCAD enables you to access servers; applications such as e-mail; and network resources, such as printers. Most employees with Windows workstations have already migrated to NCAD. Mac users will migrate next spring.

Desk Smartcard Integration (DSI)

Your computer will be outfitted with the hardware and software necessary to log on with the new badge. Most users have already received the readers (to be connected in the future). Software will be deployed centrally in May 2009.

NASA Enterprise Directory (NED)

NASA's current internal employee directory, X.500, will be replaced with a new and improved directory system. Organizations can begin migrating to the new system by contacting Les Farkas, 3-5235.

Need more information? Contact Glenn's HSPD-12 Implementation Manager Les Farkas, 3-5235.

—BY DOREEN B. ZUDELL

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