



Center Director Named to New Headquarters Post

Last month, Administrator Charles Bolden named Glenn Center Director Dr. Woodrow Whitlow Jr., the associate administrator for Mission Support at NASA Headquarters in Washington, DC. On March 1, the Administrator named Glenn's Deputy Director Ray Lugo, the acting center director.

In this new position, Whitlow will be responsible for most NASA management operations, including human capital, budget and systems support as well as a variety of other vital cross agency business, institutional and contract support functions.

"Woodrow is a dedicated and valued member of my senior leadership team, and I am pleased he agreed to accept this new challenge," Bolden said. "As the agency moves forward, we need to streamline the way we do business with a fresh approach and an eye for strategic management and investments. I know the people of Glenn will miss Woodrow, but the entire agency will again have the opportunity to benefit from his insight and experience."

Whitlow had served as director since Dec. 25, 2005.



FY 2011 Budget Request Reflects Innovation, Exploration

On Feb. 1, NASA Administrator Charles Bolden presented President Obama's fiscal year (FY) 2011 budget request that adds \$6 billion to NASA's programs and investments over 5 years.

"With this budget, and the steps it lays out, the United States and its partners in other nations, in industry, and in academia will pursue a more sustainable and affordable approach to spaceflight through the development of transformative technologies and systems," Bolden explained.

Some of the investments under this budget would include:

- Transformative technology development and flagship technology demonstrations to pursue new approaches to space exploration; Robotic precursor missions to multiple destinations in the solar system

- Research and development on heavy-lift and propulsion technologies
- U.S. commercial spaceflight capabilities
- Future launch capabilities, including work on modernizing Kennedy Space Center after the retirement of the shuttle
- Extension and increased utilization of the International Space Station
- Cross-cutting technology development aimed at improving NASA, other government and commercial space capabilities
- Accelerating the next wave of climate change research and observations spacecraft
- NextGen and green aviation
- Education, including focus on STEM

The budget includes cancellation of the Constellation program, and \$600 million in FY 2011 to ensure the safe retirement

of the space shuttle upon completion of the current manifest.

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2011 Budget Request

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“Stepping up to create this 21st century space program will require us to embrace some significant changes in our current plans and how we conduct business,” Bolden said. “The President has directed NASA to cancel the Constellation program and instead invest in the building blocks of a more capable, forward-looking approach to space exploration.”

Under the budget request, NASA will receive \$2.5 billion over 2 years for related facility and closeout costs associated with the Constellation program.

For a more comprehensive look at the budget, visit <http://www.nasa.gov/budget>.

How Does Glenn Fit In?

On Feb. 2 and 3, Center Director Dr. Woodrow Whitlow Jr. held employee and media briefings to reiterate budget request highlights and affirm the importance of the ambitious new space initiative.

He asked employees to be patient as the budget makes its way through the halls of Congress and programs become better defined, but assured them that the center’s core technological competencies could apply to many of the areas outlined in the budget.

During a media briefing on Feb. 3, Whitlow gave examples of where Glenn’s expertise could be applied. He cited new cross-cutting technology under in-space propulsion, advanced systems for energy generation and storage, communications, research on International Space Station and aeronautics as areas where the center could potentially apply its competencies.

He stated his respect and pride in the work Glenn performed under the Constellation program, saying it further “proved” our competency and ability to transition where needed.

“We work for the President,” Whitlow explained. “We will implement the mission he has given us. No matter what we’re asked to do, we’re prepared to accept the challenges.”

Lewis Field Street Signs Take Historical Path

What’s in a name? The street names at Lewis Field were chosen to pay tribute to respected researchers and technologies that have embodied the National Advisory Committee for Aeronautics (NACA)—NASA since its establishment. Lets take a drive and a history lesson.

Keep driving straight after entering the main gate, and you’ll be traveling down Taylor Road, named after David W. Taylor. He was director of the Navy’s Bureau of Construction during WWI and constructed the first U.S. experimental towing tank at the Washington Navy Yard. Taylor applied the principles of hydrodynamics to the problem of aerodynamics, and became one of the foremost authorities in aerodynamics. He was one of the principals involved in the formation of NACA. Taylor served as chairman of NACA’s Subcommittee on Aeronautical Inventions and Designs after the subcommittee was organized in 1927. Taylor died at age 76 in 1940.

The first right off Taylor Road (in front of the Administration Building) is Stratton Road, named after Samuel Wesley Stratton. Stratton was the first director of the National Bureau of Standards (NBS) and served as President of MIT in the 1920s. He was an original framer of the NACA,

and pushed to set up the NACA as a scientific research center similar to the NBS. He died at age 70 in 1931.

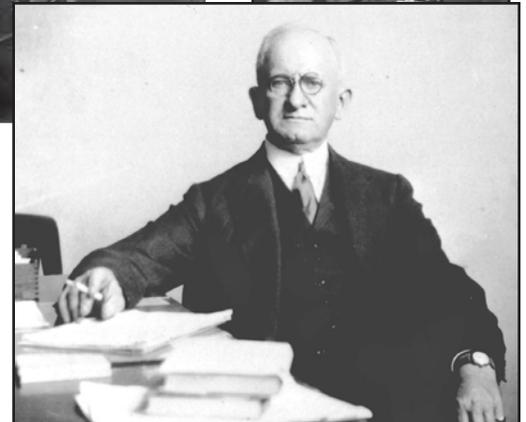
Ames Road, named after Joseph Ames, a founding member of NACA, is the second road off of Taylor. Ames oversaw the NACA’s patent cross-licensing plan that allowed manufacturers to share technologies and structured NACA to give young engineers on-the-job training. His work paid off when he became chairman of NACA’s Main Committee in 1927. He died in 1943, but his legacy is remembered by the Ames Research Center.

Drive down Ames Road and you’ll run into Moffett Road, named after William Moffett. This “Air Admiral” was known for his leadership of the Navy’s Bureau of Aeronautics. He oversaw the development of tactics for naval aircraft, the introduction of the aircraft carrier and relations with the civilian

aircraft industry. Moffett died in 1933, but his name lives on in the Ames Aeronautical Laboratory at Moffett Field.

Moffett Road connects to Durand Road, named after William Durand, the first civilian chair of NACA. In addition, he was the former chairman of NACA’s

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Three of Glenn’s street namesakes: pictured above, clockwise, Admiral Taylor; Westover and Dr. Ames.

Glenn Facility Prime for Methane Propellant Testing

Soaring prices at the gas pump and a growing concern for the environment have sparked an increase in the purchase of small or hybrid cars; but what is an alternative for NASA as it faces the high costs of launching spacecraft?

Determining a solution to this dilemma has motivated Glenn's leadership of NASA's methane lunar surface thermal control testing, which is devoted to using liquid methane as a propellant for in-space and planetary propulsion systems. Liquid methane offers better gas mileage and is considered more environmentally friendly than commonly used hypergolic propellants. However, in order to use liquid methane as a propellant, it must be kept cold (although not nearly as cold as liquid hydrogen) and protected from radiant heat associated with in-space and planetary environments.

Glenn and partners at three other NASA centers are focused on two possible approaches to keeping the methane



Helmut H. Bamberger

cold: 1) to use a low-density, thick Multi-Layer Insulation (MLI) system and 2) to load the propellant tanks with densified liquid methane.

"This center has a rich heritage in cryogenic propellant research that goes back to the early years of space flight and determining that liquid hydrogen was a pretty good propellant," explained



C-2010-2069

Photo by Marvin Smith

Above, left: The 4-foot diameter spherical liquid methane propellant tank covered with Multi-Layer Insulation; and right: the 4000-gallon liquid methane roadable dewar brought into place behind SMiRF

Street Signs Honor NASA Forefathers

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Special Committee on Jet Propulsion. He also taught Stanford University's first course in aeronautics and helped rebuild the school after the 1906 earthquake. This "Dean of American Engineering" died at age 99 in 1958.

Take a left on Durand Road, and you'll hit Westover Road, which honors Oscar Westover. Westover, former chief of Air Corps, headed the Special Committee on the Relations of NACA to National Defense in Time of War. Westover died shortly after the formation of the committee in 1939.

Finally, Walcott Road bears the name of Charles Walcott, another founding member of NACA. He was elected first chairman of the NACA Executive Committee in 1915. In addition, Walcott headed three of the most important scientific institutions in the United States: the U.S. Geological Survey, the Smithsonian Institution and the National Academy of Sciences. He died in 1927.

While the street names on Lewis Field's main campus were named after respected forefathers, streets off of West Area Road—such as Cryogenics and Duck Bank roads—were chosen for access to maintenance and research facilities. The exception is Guerin Road. This road was the driveway to the Guerin family estate. The majority of the land in the West Area was privately owned until 1958, the year NASA was founded.

NASA acquired the West Area land in 1960.

As you discover on your drive around the center, the street names at NASA Glenn are much more than words on signs. Named after early figures in NASA's history, they remind passersby to honor those who paved the path to the great agency that it is today.

—BY EMILY KENNARD, LERCIP INTERN
& DOREEN B. ZUDELL



Michael Doherty, Glenn's task lead for the Exploration Systems Mission Directorate's (ESMD) Cryogenic Fluid Management Project funded under the Exploration Technology Development Program. "We conducted research in the 1940s and 1950s that was important to launch vehicle configuration and propellant decisions made on the Apollo/Saturn V vehicles. Now, once again, Glenn is at the center of technology development for a new cryogenic propellant."

Testing the effectiveness of the insulation and benefits of the densified liquid methane is expected to begin in May in Glenn's Small Multi-Purpose Research Facility (SMiRF), which was recently modified for the testing. Glenn secured a contract for bulk quantities of propellant grade liquid methane, purchased a unique 4,000-gallon roadable dewar, a vessel designed to transport as well as hold the liquid methane, and upgraded SMiRF to enable methane conditioning and venting. SMiRF's vacuum chamber and cryoshroud simulate the desired space environment for testing a 4-foot diameter spherical propellant tank covered with 3-inch thick, 60-layer double aluminized mylar insulation. Loading the methane in a densified condition provides a larger margin for the liquid to heat up before boiling, allowing the methane to remain longer in a liquid form.

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News and Events

STS-129 Astronauts Link Space and Sports

A post-flight briefing to NASA Glenn employees was one of several highlights on a full schedule of outreach events coordinated for the STS-129 Atlantis shuttle mission crew. Local astronauts, Commander Charlie Hobaugh (North Ridgeville) and Mission Specialist Mike Foreman (Wadsworth) joined Pilot Barry Wilmore and Mission Specialists Leland Melvin, Randy Bresnik and Bobby Satcher in visiting Northeast Ohio Jan. 27-28. Crew members also toured facilities and met with researchers directly involved with the mission.



C-2010-457

In addition to their visit to NASA Glenn, the crew made public appearances, including the Pro Football Hall of Fame in Canton to return a souvenir football, two jerseys, and the coin

At the Glenn briefing, seated, left to right: Hobaugh, Wilmore, Bresnik, Foreman, Melvin and Satcher.



C-2010-435

Photos by Marvin Smith

Melvin presents a Dallas Cowboys jersey for the Hall of Fame archive.

that was used for the official coin toss at Super Bowl XLIV on Feb. 7. They also appeared at a Cleveland Cavaliers basketball game, where they returned an NBA All-Star jersey that was showcased along with a new package of educational activities developed to imagine playing basketball on orbit, the moon or Mars.

Energizing Economic Empowerment



C-2010-777

Photo by Bridget Caswell

Jeff Johnson, journalist and political commentator (pictured) highlighted an exciting cultural experience at Glenn's Black History Month Program, Feb. 23. Johnson presented compelling facts on the history of black economic empowerment and challenged all employees to become an activist for the welfare of their community: identify areas of concern; invest time/money; and be a mentor. The African Heritage Advisory Group sponsored the event.

Spotlight on Innovation

Glenn's Technology Transfer and Partnership Office recently recognized the center's 2009 honorees of innovation. Center Director Dr. Woodrow Whitlow Jr. and Paul Livingstone, editor of *R&D 100 Magazine*, were the featured speakers for the event that included award recipients of patent applications and Space Act Awards from the Inventions & Contributions Board, Software Releases, Tech Briefs, R&D 100, NEOSA, NorTech, Federal Laboratory Consortium and the *Wall Street Journal*.



Photo by Amy Hiltabidel

Pictured, left to right, Laurel Stauber; Glenn's award liaison, Livingstone and Dr. Rainee Simons, a 2009 R&D 100 winner.

Dr. King Remembered



Photo by S. Jenise Veris

Former Glenn Center Director Donald J. Campbell (pictured) gave the keynote address for the 10th annual Dr. Martin Luther King Equality Recognition Program on Jan. 29. Campbell shared how King's examples of activism and dignified confidence affected Campbell's own life experiences, and how King's efforts changed legislation so that all people could have the opportunity to step up and step forward.

Propelling Glenn Forward: Our Center Directors

Stofan's Management Skills Raise Glenn's Profile

This is the fifth in a series of articles spotlighting NASA Glenn's center directors.

Andrew Stofan, Center Director from 1982-1986, helped Glenn gain greater visibility and respect within NASA. An internationally recognized researcher and manager, Stofan transitioned Lewis into mainstream NASA and brought in many new projects for the center.

Throughout his 30 years at NASA, Stofan held numerous managerial and administrative positions. His technical expertise was bolstered by a healthy dose of “charisma and confidence” that gained him the admiration of the rank and file within the agency and contracting organizations.

Stofan began his career as a research engineer at Lewis Research Center in 1958 and later joined the Propellant Systems Section of the original Centaur Project Office, where he began a steady climb through the tiers of management to become Director of Launch Vehicles in 1974. Much of the Titan-Centaur vehicle's success can be attributed to Stofan's leadership of NASA, the Air Force and aerospace industry teams. By 1978, Stofan was called to Headquarters to serve first as the Deputy Associate Administrator for the Office of Space Science, and then as Associate Administrator.

Stofan returned to Cleveland in 1982 as Lewis' fifth Center Director

charged with the task of implementing Lewis' first strategic plan. The center had never had major roles in Manned Space Flight projects, but Stofan saw these big programs as an opportunity to make Lewis more visible within NASA. Stofan aimed for five major projects for the Center: the power system for the space station, the Advanced Turboprop Program, renovations of the Altitude Wind Tunnel (AWT) for expanded icing research, the Advanced Communications Technology Satellite Program and the Shuttle/Centaur Program. Amazingly, he secured funding for all but the AWT renovations. Most of the programs in the first strategic plan are still thriving.

In addition to implementing the center's strategic plan, Stofan instituted a new management style. He advocated participative management over the autocratic management style of the 1970s. His outstanding work managing advanced research and technology programs for NASA earned him the 1985 Presidential Rank Award for Distinguished Executives.

Following the Challenger tragedy in January 1986, NASA asked Stofan to return to Headquarters as the Associate Administrator for the Space Station Office where he led the negotiations of the international technical agreements and the U.S. contract to build the station until



Above: Former Center Director Stofan in 1998.

Left: present day at his home on the slopes of Steamboat Springs, Colo.

his retirement on April 1, 1988. He continued to work in the aerospace industry for the next 10 years.

Today, Stofan compares the potential transition with the Constellation program as similar to the period when he became Center Director. “It's a good time to do a bottom to top review and reassess the center's strengths and weaknesses to develop a strategic plan for positioning Glenn favorably into the future,” he said. “It's important to be fully participatory in this process—management's role is to organize and guide, but staff does the work.”

Stofan and his wife, Barbara have settled into a new lifestyle and home 7200 feet up into the mountains of Steamboat Springs, Colo., where he can daily enjoy one of his favorite past times—downhill skiing. He also enjoys golfing and building furniture. The couple travel extensively, including a recent trip to Maui to celebrate their 75th birthdays; to Ohio three times a year to Hiram College for Board Meetings where he has served as a trustee for the past 25 years; and to Virginia and New York to visit their daughters and five grandchildren. His daughter, Dr. Ellen Stofan, is a planetary geologist known for her work on Venus and Titan. His other daughter, Lynn, is an attorney.

Facilities Used to Explore Methane Capabilities

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In addition to the methane thermal control testing in SMiRE, Glenn's Altitude Combustion Stand is the site of extensive testing of an Aerojet built, 100-pound/force liquid oxygen/liquid methane reaction control engine, currently being conducted by the Propulsion and Cryogenic Advanced Development (PCAD) project, also funded under ESMD's Exploration Technology Development Program.

“Glenn's unique testing facilities and current test activities are demonstrating technologies expected to reduce the cost and expand the capabilities of future exploration missions,” Doherty said. “All proof of our center's viability within the agency—and to the future of our nation's space program.”

—BY CASSIE BARNES, LERCIP INTERN
& S. JENISE VERIS

—BY CASSIE BARNES, LERCIP
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People

Glenn Center Director **Dr. Woodrow Whitlow Jr.** is among a distinguished group of the American Institute of Aeronautics and Astronautics (AIAA) members who have been selected for the rank of Fellow. The AIAA and its Board of Directors will present their 2010 Fellows and Honorary Fellows at the AIAA Aerospace Spotlight Awards Gala on May 12 in Washington, DC. The distinction of Fellow is conferred upon outstanding members of the Institute who have made notable and valuable contributions to the arts, sciences or technology of aeronautics or astronautics.



Dr. Whitlow



Liang



Tschen

Glenn managers won top honors at the Asian American Engineers of the Year Conference during the 2010 National Engineers Week festivities last month. The Chinese Institute of Engineers (CIE) USA selected Anita Liang, Glenn's deputy director of the Facilities and Test Directorate, Asian American Executive of the Year; and Peter Tschen, chief of the Manufacturing, Engineering and Processes Branch, Asian American Engineer of the Year,

for their personal achievements as well as significant contributions in academia, public service and corporate entities.

Dr. Bilal Bomani, Bio Science and Technology Branch, received the Outstanding Technical Achievement in Government Award at the 24th annual Black Engineer of the Year Awards (BEYA) STEM Global Competitiveness Conference in February. The BEYA program recognizes educators, executives, military, professionals and students who demonstrate outstanding performance in their chosen field with emphasis on those who are helping to shape future opportunities in STEM (science, technology, engineering, mathematics) related careers.



Dr. Bomani

The American Institute of Aeronautics and Astronautics (AIAA) presented a Distinguished Service Award to **Dr. Robert Bruckner**, Tribology and Mechanical Components Branch, at the 48th Aerospace Sciences Meeting "for dedication and service to the national aerospace community as AIAA Technical Committee Chair." Bruckner has led the expansion of the airbreathing propulsion technical committees in addition to establishing and chairing the first Gas Turbine Engines technical committee for the past 3 years.



Dr. Bruckner

The National Society of Black Engineers (NSBE) honored **Dr. Dexter Johnson**, chief, Structural Systems Dynamics Branch, as Aerospace Pioneer of the Year at the 1st Annual NSBE Aerospace Systems Conference, Feb. 9. Johnson was recognized for distinguished contributions to the aerospace profession through his contributions to innovative technology and product development. The award is one of six NSBE Celestial Torch Awards symbolizing recipients' desire to achieve success in a competitive society and affect positive change in the quality of life for all people.



Dr. Johnson

Suggestion Award



Fekete with the alignment-clamping fixture by steel hardware.

Welding Clamp Alignment

Welding together 10-foot-wide and 23-foot long steel sections of the Ares I upper-stage simulator was an awesome task for Glenn's Machining Branch. It was crucial that the pieces bond together flat and level. To meet the challenge, technician Ralph Fekete designed and fabricated a portable alignment-clamping fixture, which enabled the massive hardware to be lined up and welded to perfection. The tool was used to weld all 11 sections of the upper-stage simulator, and is being used on other applications as well.

If you have an idea to improve the efficiency, economy and/or effectiveness of government operations, visit <http://www.grc.nasa.gov/WWW/OHR/Suggestion/>.

Emergency and Inclement Weather Lines

Lewis Field: 216-433-9328

Plum Brook Station: 419-621-3333

In Memory

Ronald J. Blaha, 76, who retired in 1990 with 35 years of NASA service, died Jan. 31. Prior to retiring, Blaha served in the Electronics Systems Branch. He received several Special Act and Service Awards over his career for sustained superior job performance as a member of the Aeronautics Directorate, including the widely referenced "Completed Schedules of NASA Lewis Wind Tunnels, Facilities and Aircraft Testing."

Calendar

FIRST ROBOTICS BUCKEYE REGIONAL: Come see 60 different robots designed, built and programmed to play soccer at this annual competition that partners high school students with professional mentors from industry and the community. The fun takes place March 25-27, 9 a.m. to 4 p.m., Cleveland State University Wolstein Center. Admission is free.



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

YURI'S NIGHT EVENT: Glenn's Developing Professionals Club will host Yuri's Night on April 10, from 8 p.m. to 2 a.m. at the Great Lakes Science Center (GLSC). The event is a global celebration of humanity's achievements in space that is held annually near the anniversary of the first spaceflight by Yuri Gagarin (April 12, 1961) and the first shuttle flight 20 years later. Admission (\$10) includes viewing all the GLSC and NASA exhibits, and NASA IMAX films on Mars and the Hubble Space Telescope, as well as a DJ and live music. For more information, contact Stacey Bagg, 216-433-3792.



IFPTE LOCAL 28, LESA MEETING: LESA will hold its next membership meeting on Wednesday, April 14 at noon in the Small Dining Room of the Employee Center, building 15.

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FREE Employee Event at Science Center on March 18

Glenn civil servant and support service contractors are invited to attend "A Stellar Celebration," an afternoon filled with stars at the Great Lakes Science Center in downtown Cleveland on Thursday, March 18, 3 to 8 p.m. Employees can tour the newly relocated NASA Glenn Visitor Center exhibits, and be one of the first to catch the IMAX HUBBLE movie before it opens to the public—at no charge! The film is narrated by Leonardo DiCaprio and filled with images of the universe.



Retirements

Marilyn "Marty" DeCore, Center Operations Support Branch, Mission Support/Integration Division, retired on Jan. 30, 2010, with 20 years of NASA service.

Linda Henninger, Center Operations Support Branch, Mission Support/Integration Division, retired on Feb. 3, 2010, with 35 years of NASA service.



DeCore



Henninger

In Appreciation

I wish to thank my NASA friends and coworkers for their cards, donations, e-mails, prayers and condolences over the recent death of my mother. Your kindness is truly appreciated and will not be forgotten. —Terry Jansen

I would like to express my sincere thanks to all my friends and colleagues who donated leave for my recent surgery. Your generosity is truly appreciated. —Jean Boylan

I want to thank everyone for the wonderful cards, gifts and congratulations I received upon my retirement as well as those who were able to come to my party. NASA has been a big part of my life for the last 30 years. I will always be proud of the work we all accomplished here. I have so many great memories of so many people across NASA. I will cherish them always.

I also want to say thank you again for all the prayers, support and beautiful cards sent to my family and me last year upon the loss of my husband. It made a difference to know that I had all your support. —Linda Henninger

DEADLINES

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

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



Hermes Award



AWARDS FOR PUBLICATION EXCELLENCE



TWEET TWEET! FOLLOW ME ON TWITTER

Join Glenn's Social Networks

Want another way to get involved with what's going on at Glenn? Check out the Web Portal Team's new official Glenn Facebook and Glenn Twitter page. Be our fan at <http://www.facebook.com/nasaglenn> and follow us at http://www.twitter.com/nasa_glenn. There are also videos posted at Glenn's official YouTube page at <http://www.youtube.com/user/nasaglenn>.

There will be even more exciting ways to get involved with social networking and Glenn. More information will be coming soon!

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Pull up a Chair; Plop Down on a Couch

Updated Facilities Offer Flexible Meeting Space

Looking for a comfortable and convenient onsite meeting space? Two newly renovated areas in the Edward R. Sharp Employee Center, building 15, make it easy for employees to gather in both formal and informal settings.

It's easy and convenient to add refreshments to the event through the nearby Cafeteria.

"Glenn's Small Dining/Conference Room, used by employees for business meetings and dining events for years, was in need of a facelift and had been underutilized for some time," said Dennis Dubyk, project upgrade team member, Logistics and Technical Information Division. "Center management recognized the importance of the facility and provided the resources to renovate it. The updated facility is a great place to hold meetings, training classes and conferences."

The Small Dining/Conference Room now boasts a new ceiling, walls, carpeting, furniture, a sophisticated audio-visual system, two 65-inch plasma screens and wireless Internet. Framed photographs



C-2010-346

Photo by Bridget Caswell

The updated Small Dining/Conference Room can be configured to meet your needs and include meals and/or refreshments.

of past and current Glenn research are displayed on the walls. Various seating configurations help you personalize the event for up to 60 people. In addition, it is easy and convenient to add meals and refreshments to events through the nearby Cafeteria and Acorn Food Services' onsite catering.

Informal Gathering

Need to tag up with a small group in a relaxed setting? The new employee café, with soft, comfortable seating, has been

created adjacent to the Small Dining/Conference Room on the upper level of the Cafeteria. The café was developed to facilitate informal collaborative discussions. A coffee vending service is available after Cafeteria operating hours. Stop by anytime to grab a cup o' joe and touch base with your counterparts.

For more information and to reserve the Small Dining/Conference Room, visit the LTID's Web site at <http://ltid.grc.nasa.gov/>.