



Astronaut Cady Coleman Reaches Out to Clevelanders

Shares Experiences with Glenn Employees

During a 2-day visit to Cleveland, astronaut Catherine “Cady” Coleman, a veteran of two shuttle missions and a 6-month expedition aboard the International Space Station (Expedition 26 and 27), painted a vivid picture of life as an astronaut through personal anecdotes and colorful detail of her experiences.

On Jan. 3 and 4, Coleman educated and inspired audiences of all ages during appearances at NASA Glenn, the International Women’s Air & Space Museum, Glenn’s Visitor Center at the Great Lakes Science Center (GLSC), and the Rock and Roll Hall of Fame.

At the GLSC visit, Coleman reunited with Greg Johnson, Glenn’s new associate director for External Programs. Johnson piloted Space Shuttle Endeavour’s final flight (STS-134) to the space station during Coleman’s stay. Together they spoke to a capacity audience on living and working in space.

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C-2012-0157

Photo by Michelle M. Murphy

Coleman, left, and Johnson enjoy a lively question and answer session with the audience in Glenn’s Visitor Center at GLSC.

Open House Showcases Property Management Facility



C-2012-0127

Employees were invited to look inside the new Logistics and Maintenance Building, 351, at Lewis Field, during an open house on Jan. 9. The event kicked off with a ribbon cutting ceremony that included remarks by center leaders, followed by cake and punch. Employees could then browse through the new facility to better understand the important role the staff and building play in processing property for excess through Glenn’s Property Disposal Office. The building boasts 18,000 square feet, which includes an area with a high bay and office space. The building is another step forward in implementing Glenn’s Facility Master Plan. Employees are reminded that property is processed for excess through N-Prop, which replaces the obsolete NASA C-260. For more details on the new facility, refer back to the *AeroSpace Frontiers* Nov. 2011 issue, page 8.



C-2012-0129

Photos by Marvin Smith

Pictured above: Employees enjoy the ribbon cutting ceremony and speakers in the warehouse section of the building. Left: The ribbon cutting, left to right, Center Director Ray Lugo; Director of Facilities and Test Directorate Dr. Rickey Shyne; Project Manager Tim Wardlow, Facilities Division; and Director of Center Operations Robyn Gordon.

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Center Director Lugo

Happy Anniversary John Glenn

Later this month and next, we will be celebrating the 50th anniversary of John Glenn's historic flight. It's incredible to believe that it has been 50 years since this historic event. It seems like only yesterday when I was 5 years old, living in Syracuse, N.Y., and at home sick with the mumps. I can remember my mom letting me sit in front of the television the whole day while I took in the mystery of spaceflight, the excitement of the launch and the uncertainty associated with the return.

I think it is important to commemorate these events, especially because of the fact that we are NASA, and because the center bears the name of this American hero. I also feel blessed to have been given the opportunity to meet Sen. Glenn and his wife Annie. During this meeting, I was surprised how these

incredibly famous people are so down to Earth. It is likely that had I passed on the decision to come to Glenn in 2007, I would not have met Sen. Glenn.

One of the things I personally took away from Sen. Glenn's flight was the sense that at a very young age, anything is possible. Sen. Glenn's life epitomizes the American Dream: a young man from rural Ohio joins the Marine Corps; distinguishes himself in his service; and becomes the first American to orbit the Earth. Obviously this all occurred during a different time, but I hold the American Dream is still possible today.

While it's important to commemorate historic events, it also is important to look forward, as NASA is making

history today. I am very proud to be a part of an agencywide program that will take humans beyond low Earth orbit, but I am even more proud of what we are doing to get NASA Glenn technology and capabilities in the hands of the private sector. We are making an impact in our community. The recently announced "Adopt-a-City" initiative connects us with our community in a new and different way. I am excited about how this relationship with the City of Cleveland, Cuyahoga County and MAGNET (Manufacturing Advocacy & Growth Network) will evolve.

So, let's make our John Glenn 50th Anniversary Celebration, on March 2, an event to remember. It is an opportunity to connect NASA and our center with the community where we live and work in a new, and hopefully very different, way.

See page 6 for details on John Glenn's 50th Anniversary Celebration!

Glenn Librarians Make Finding Reference Material Easy

If you are looking for a catalog, newsletter, magazine, report, database, proposal support or competitive intelligence on a topic, do you know where to look? NASA Glenn's Science and Engineering Library staff specializes in finding patrons the reference information they need—hassle free.

Library Manager Don Reams, WYLE/Logistics and Technical Information Division, explained that when an employee/patron submits a question to a staff member, he or she initially performs a preliminary search to provide the researcher with about 25 results. If additional information is needed, they will conduct a more in-depth hunt.

"We have videos, professional development courses, and access to hundreds of thousands of materials, including over 350,000 microfiches—4-by-5-inch pieces of photographic film with printed information too small to be seen by the naked eye," Reams said.

"If it isn't at our library, we can get information from other NASA centers, colleges, and depending on the need, sometimes pull information from other countries."

Additionally, the new Mobile Librarian Program places reference librarians near researchers by operating a mobile reference desk, on a rotating basis, in buildings throughout Lewis Field. The mobile librarian can answer reference requests as if patrons are in the library, without having to leave their buildings!

"We're not your stereotypical librarians," said Reams. "We specialize in delivering information specific to Glenn's research mission and providing a variety of other services for both civil servants and contractor employees."

Need reference materials? Stop by the library in building 142 or walk down the hallway of your building to see the mobile librarian, when it makes a stop near you. To find the schedule, visit



C-2011-5059

Photo by Bridget Caswell

Reference librarian Jaime Scibelli answers questions from Dave Stevenson, Facilities Division, in building 21.

<http://gsel.grc.nasa.gov> and discover how they can make your job a little easier.

—By Libby Hancock, LERCIP Intern

Coleman Shares Space Station Experiences

Continued from page 1

The GLSC presentation included a video of Coleman's duet with musician Ian Anderson. In April 2011, Coleman made history joining Anderson, founder of the rock band Jethro Tull, with her flute in the first-ever space-to-Earth duet, while circling the Earth aboard the space station. Coleman presented a framed photo of her performance during her visit to the Rock and Roll Hall of Fame.

Coleman and many other astronauts use down time while in space to play their instruments. Studies show people who play music are often confident and inspired to explore new horizons. Although Coleman's performance may not have inspired 11-year-old Karissa Huang to explore a career in science or engineering, the Cleveland Institute of Music student was moved to perform the national anthem on her flute as a tribute to Coleman during NASA Glenn's employee mission briefing.

Prior to the employee briefing, Coleman met with Glenn researchers who developed experiments and facilities

that she operated on the space station. The Glenn-developed experiments and facilities included Capillary Flow Experiment-2 (CFE-2), Binary Colloidal Alloy Test-5 (BCAT-5), Combustion Integrated Rack (CIR), Fluids Integrated Rack (FIR) and Space Acceleration Measurement System (SAMS). She and the team members discussed results, lessons learned and tips on how to develop more effective procedures and communications protocols.

In addition to performing science experiments and space station system maintenance operations, Coleman acted as the lead robotics and science officer and welcomed NASA's Robonaut 2 as the newest member of the Expedition 27 crew. Robonaut 2 is the first humanoid robot, a collaboration of NASA and General Motors, to assist humans in complex tasks in space or on Earth.

Right: Coleman plays her flute at the Rock Hall of Fame. Below: Coleman, left, in a discussion with Glenn researchers.



Photo by David DeFelic



C-2012-0158

Photo by Michelle Murphy

"We are very grateful and honored that Cady Coleman took time out of her busy schedule to visit Cleveland," Johnson said. "She touched the lives of many people at Glenn and throughout the Cleveland community with her candor and enthusiasm."

—By S. Jenise Veris

Glenn Announces Patents Awarded Through 3rd Quarter, 2011

NASA believes its inventions best serve the interests of the United States when the technology is available to the public. The following is a list of patents granted to Glenn researchers from May 2011 through December 2011:

1) U.S. Patent 7,935,601, entitled "Method for Providing Semiconductors Having Self-Aligned Ion Implant," was issued to Philip G. Neudeck. The patent discloses a key part of the process for fabricating silicon carbide transistors that successfully function for prolonged duration (over 10,000 hours) at temperatures up to 500 °C.

2) U.S. Patent 7,990,327, entitled "Cellular Reflectarray Antenna and Method of Making Same," was issued to Dr. Robert R. Romanofsky. The patent discloses a method of manufacturing a cellular reflectarray antenna arranged in a matrix of radiating elements for communication with a satellite.

3) U.S. Patent 8,052,854, entitled "Carbon Dioxide Gas Sensors and Method of Manufacturing and Using the Same," was issued to Dr. Gary W. Hunter, Jennifer C. Xu, Chung Chiun Liu and Benjamin J. Ward. The patent describes the invention of an amperometric solid electrolyte carbon dioxide (CO₂) microsensor and method for its microfabrication. This design allows selective detection of CO₂ over a wide concentration range, and features greater response and efficiency at a reduced cost due to lower mass absent liquid electrolytes and the ability to batch fabricate.

4) U.S. Patent 8,067,478, entitled "Process for Preparing Polymer Reinforced Silica Aerogels," was issued to Dr. Mary Ann B. Meador and Dr. Lynn A. Capadona. The patent discloses a more streamlined process for preparing polymer-reinforced silica

aerogels. The process is more efficient over existing ones eliminating about half the steps by including polymer precursors in the initial silica solution rather than adding them to the silica gel after gelation. The resulting aerogels are also more uniform since diffusion into the gel is not necessary.

5) U.S. Patent 8,077,103, entitled "Cup Waveguide Antenna with Integrated Polarizer and OMT," was issued to Dr. Robert J. Acosta, Dr. Carol L. Kory and Dr. Kevin M. Lambert. The patent discloses an improved cup waveguide antenna designed as a possible replacement to the flight Tracking and Data Relay Satellite System/S-Band multiple access element antenna. The shaped cup increases antenna efficiency while the integrated polarizer and orthomode transducer (OMT) enable dual, circular polarization and reduced mass compared to commercially available systems.



Native American Journeys >

Richard Heller, a former NASA scholar who is now an engineer at Sandia National Laboratories, and Brian Hammill, an Army veteran ranked among the top 10 hoop dancers in the world, offered a diverse bill of fare at the annual Native American Observance themed, "Food for Thought." Heller (inset photo), a member of the Chickasaw Nation, shared highlights of his career inspired by culture, educational opportunities and lasting relationships at NASA. Hammill (pictured with hoops), a member of the Ho-Chunk Nation, demonstrated intricate hoop maneuvers, while sharing the symbolism and relevance in Native American culture. His flute playing was an added treat.



C-2011-4908



C-2011-4946

Photos by Bridget Caswell

Senior Leader Retirement Celebrations



C-2012-210



C-2011-5012

C-2011-5035



C-2012-198

NASA Glenn employees expressed best wishes to senior leaders Vernon "Bill" Wessel, associate director, and Olga Gonzalez-Sanabria, director of engineering, during recent retirement receptions. Colleagues, family and friends shared personal and professional anecdotes and thanked the leaders for their significant contributions. Pictured are Wessel and Gonzalez-Sanabria with framed collages. Above: Gonzalez-Sanabria and husband, Rafael Sanabria, NASA Safety Center deputy director, with granddaughter, Dahlia. Left: Wessel and his wife Cynthia cut his retirement cake.

Photos by Michelle Murphy and Marvin Smith

Toys For Tots Contributions >

The Veterans Awareness Committee (VAC) extends a huge "thank you" to all who supported the 2011 Toys for Tots Campaign. Donation boxes were deployed around the center, including at OAI and building 500. With your support, the VAC gave Marine Sgt. Bostic 10 boxes full of toys and more than \$500. Pictured, left to right (standing): VAC members Rick Reames, Jim Fleet, Johnny Napier, Mark Hyatt, Sgt. Bostick, Linda McMullen, Tom Hartline and (kneeling) David Stringer.



Photo by Lee Monai

Agency Historians Unite >

Glenn hosted historians and archivists from across the agency for the NASA History Program's annual meeting last November. Part of the 3-day event included presentations by local historians/archivists from the International Women's Air & Space Museum, Air Race Historians, the John Glenn Archives at The Ohio State University, the T. Keith Glennan collection at the Case Western Reserve University's Archive of Contemporary Science and Technology, as well as Auburn University history professor and Neil Armstrong biographer, James Hansen. The group also toured several facilities at Lewis Field and Plum Brook Station.



C-2011-4306

Photo by Bridget Caswell

Plum Brook Bunkers Provide Safe Deposit for Records

Records Management Made Easy

Ninety-nine bunkers previously used by the Plum Brook Ordnance Works to secure munitions produced at the plant during World War II, now preserve inactive NASA records. These concrete shelters, buried partially underground, were part of the real estate in a deal struck by NASA's processor, the National Advisory Committee for Aeronautics (NACA), who purchased the land in 1956.

In the 1960s, Plum Brook reopened some of these structures to serve as storage units. The bunkers are dry, clean and airtight. Measuring approximately 27 feet wide by 65 feet deep, the bunkers, also called igloos, can each hold between 1,400 and 2,300 boxes of records, depending on how shelving is arranged. There are currently around 10,000 boxes in eight of the units, with the capacity to hold 5,000 more.

Records Manager Anne Mills, Logistics and Technical Information Division, explained that records are defined as all books, papers, maps, photographs, machine readable materials or other documentary materials, regardless of physical form or characteristics, made or received by an agency of the United States government and needed to document agency activities or actions. These records are maintained under the guidance of the NASA Records Retention Schedules (NRRS), a series of schedules approved by the Archivist of the United States. The NRRS furnishes instructions for the retention, destruction or retirement of records held by NASA center offices.

Glenn's Records Management Program staff, consisting of Mills, Deborah Demaline and Suzanne Kelley (WYLE), take the guesswork out of determining which records should be retained or destroyed. That knowledge, along with an updated tracking system, makes it easy to keep your records complete, organized, streamlined and efficient—resulting in a lot neater, less cluttered office. Plus, the service is free!

"Every person who works at Glenn is responsible for preserving agency records," Mills explained. "Good records management makes sense by keeping the Glenn legacy alive and by not having to re-

create research. You may think your records have no value once you are gone, but the Records Management staff can attest to countless times a request was made for work done 30 to 40 years ago. Your work does matter!"

For information on records management, visit <http://ltid.grc.nasa.gov/LTIDHome/MediaServices/tabid/406/Default.aspx> or contact Mills at 3-8715.

—By Doreen B. Zudell



C-2009-1185



C-2009-1181

Photos by Marvin Smith

Pictured are exterior and interior photos of a bunker.

Calling All Subject Matter Experts!

NASA Glenn's innovative fusion of National Engineers Week and National Lab Day—STEMsation!—is calling for all Subject Matter Experts (SMEs) to reach out to the education community.

STEMsation! includes three varied, but connected projects that allow the SME to consider and choose their level of involvement. Project Components include:

- **Career Exploration (Formerly National Engineers Week):** February 20–24 Students receive engineering-focused information in a classroom or at the Great Lakes Science Center (career panel, hands-on demonstration) by a SME.
- **Engagement:** February–March Students engage in research projects inviting SME(s) to review the project outcomes in the classroom.
- **Research (Formerly National Lab Day):** March 1–May 18 Teacher and students work with a mentor (SME) as they design, research and present a response(s) to a real-world problem.

Won't you consider sharing your time to inspire Cleveland-area students to Dream Big?

For more information, contact Monica Boyd, 216-433-2004, Monica.L.Boyd@nasa.gov or visit <http://www.nasa.gov/centers/glenn/education/STEMsation.html>.

Celebrating John Glenn's Legacy: 50 Years of Americans in Orbit

Mark Your Calendar!
Friday, March 2, 2012, 1 p.m.
Cleveland State University's
Wolstein Center

All NASA Glenn employees, retirees and members of the general public are invited to attend a very special event to celebrate the Honorable Senator John Glenn and the 50th anniversary of his historic flight aboard Friendship 7 on February 20, 1962.

Visit <http://glennevents.grc.nasa.gov> for details about this exciting event!



Graphic by Gayle DiBiasio



Awards, Honors and Promotions



Brown



Havenhill



Lacy

Niki Brown, Maria Havenhill and Dovie Lacy were recognized at the Woman of Color STEM Conference, held from Nov. 3 to 5. Brown, a contract specialist in the Procurement Division, was cited among the Rising Stars

of Technology for contributions making a huge impact in their communities. Havenhill, a senior aerospace engineer in the Program and Project Assurance Division, was cited among the 2011 Technology All-stars for energy and talent helping to keep the United States a leader in technology and innovation. Lacy, chief of NASA Glenn's Educational Programs Office, was honored for "Corporate Promotion of Education" managing NASA's Science, Engineering, Mathematics and Aerospace Academy (2000-2008), and presently, the Summer of Innovation project. The Northrup Grumman Corporation and the *Woman of Color* magazine hosted the event.



Kortes



Mason

Trudy Kortes has been selected chief of the Space Technology Office within the Exploration Flight and Development Project Office. Kortes most recently served as the deputy project manager for the Cryogenic Propellant Storage and Transfer Technology Demonstration Project.

Lee Mason has been selected chief of the Thermal Energy Conversion Branch, Power and In-Space Propulsion Division. Mason previously served as principal investigator for NASA's Fission Power System Technology Project.

Renee Palvo (not pictured) has been named deputy chief of the Facilities Division, Facilities and Test Directorate. Palvo, who has worked in various organizations within the Facilities Division for over 22 years, most recently headed the Program Management Office.



Retirements

Cynthia Gutierrez Naiman, Technical Excellence Office, NASA Safety Center, retired on Jan. 28, 2012, with 32 years of NASA service.



Gutierrez-Naiman

Michelle Manzo, Electrochemistry Branch, Power and In-Space Propulsion Division, retired on Dec. 31, 2011, with 37 years of NASA service.



Manzo

Richard Reames, Management Integration Office, Engineering Directorate, retired on Feb. 3, 2012, with 32 years of federal service, including 29 ½ with NASA.



Reames



In Appreciation

The Tabar family would like to thank you for the many expressions of sympathy on the sudden, unexpected passing of my father, Walter Richard Tabar. Your kind words, thoughts and prayers are truly appreciated during this trying and difficult time. To all who donated to the Animal Protective League on Walter's behalf, thank you so very much.

—Rick E. Tabar

I would like to thank all who donated leave to me during my recent illness. I very much appreciate your generosity, and it made a difficult time much more endurable. Also so many in the NASA family were helpful to me in many ways and I truly appreciate your support. Thank you!

—Anne M. McNelis



Calendar

RETIRED WOMEN'S LUNCHEON:

The NASA Retired Women's Luncheon will be held at noon Thursday, Feb. 16, at Moosehead Hoof & Ladder, 7989 Columbia Road, Olmsted Falls. Place your reservation with Gerry Ziembra, 330-273-4850 or gto64gerry@yahoo.com. All are welcome.

IFPTE LOCAL 28, LESA MEETING: LESA will hold its next membership meeting on Wednesday, March 14, at noon in the Employee Center's Small Dining Room.

FIRST VOLUNTEERS NEEDED:

Volunteers are needed for the 2012 FIRST Buckeye Regional Robotics Competition in a variety of positions. Both rookie and veteran volunteers are welcome. Be part of this exciting competition on March 22-24. POC: Sally Harrington, 216-433-2037. For more details, go to http://www.oai.org/firstbuckeye/documents/FRCBuckeye_Call_for_Volunteers.pdf.

IMPROVE YOUR SPEAKING SKILLS: The Toastmasters International is a non-profit organization with clubs worldwide that help members develop communication and leadership skills in a supportive environment. Glenn's Toastmasters Club meetings are every Thursday at noon in building 54, room 101. POC: Gayle Roth, 3-5239.

Check out NASA Glenn's Exchange Online Gift Shop
www.nasagiftshop.com

FOLLOW NASA GLENN ONLINE



Article Deadlines

News items and brief announcements for publication in the March issue is noon, Feb. 17. Larger articles require at least one month notice.

READ US ON THE INTERNET:

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

Hermes Award
2010-2011




In Memory

NASA Glenn mourns the passing of two employees, who worked under the TIALS contract.



Abrams

Janet M. Abrams, 65, an SGT/Procurement Division as a procurement buyer, died Jan. 16. Abrams was respected as a valuable team member that could be depended on to help with any task, great or small. She supported the Procurement Division in a variety of positions throughout her 25-year career at the center.

"Janet was a wonderful, patient teacher and mentor, who was always eager to share her knowledge and expertise," said Business Services Supervisor Kathleen Wargo, SGT/Procurement Division.

"Her sense of humor during times of stress was encouraging, and her dignity while enduring frequent bouts of pain was inspiring."

Abrams was the sister of Dennis Pehotsky, a recent NASA retiree.



Knight

Joe H. Knight, 57, HTSI/Logistics and Technical Information Division, died Dec. 16, 2011. For the past 22 years, Knight worked as a metrology technician in the Calibration Laboratory performing calibrations in the main electrical and pressure sections for a variety of research projects.

"Joe was an excellent team player, who worked diligently to ensure the customer's needs were met," said Terrance Fleet (HTSD), Metrology Services manager. "His sense of humor and good nature was appreciated by staff and customers, alike."

An avid Cleveland sports fan, Knight was known for wearing his favorite team apparel and spreading some joy around the lab.

Rathuel L. "Mac" McCollum, 86, who retired from NASA in 1975 with 23 years of service, died Nov. 26, 2011. McCollum, who began his NASA Lewis career as a researcher in radiation physics, was a pioneering nuclear physicist turned lawyer. He coauthored and presented many findings as a member of the Nuclear Systems Division. While at NASA, McCollum earned a degree from the Cleveland-Marshall College of Law where he was selected editor of its Law Review. After earning his law degree, McCollum became the accountability officer for nuclear material, and subsequently the nuclear licensing coordinator, which was beneficial to the center's Nuclear Rocket Reactor Development and Test Program in securing permits to handle nuclear material from the Atomic Energy Commission and the Environmental Protection Agency. He eventually transferred to the Operations Planning Office. McCollum was a NASA recruiter, equal opportunity officer, Speaker's Bureau member and board member of several community organizations. He was a member of the Cleveland Physics Society and Beta Kappa Chi Honorary Scientific Society and earned numerous awards. McCollum retired to pursue his law career full time.



McCollum

CFC Basket Raffle Update

In the January 2012 *AeroSpace Frontiers*, the Combined Federal Campaign (CFC) reported that the 2011 basket raffle raised \$12,847. However, the correct amount is \$11,702. We apologize for the error.

—CFC Committee

Emergency and Inclement Weather Lines
Lewis Field: 216-433-9328 (WEAT)
Plum Brook Station: 419-621-3333

National Aeronautics and Space Administration

John H. Glenn Research Center at Lewis Field

21000 Brookpark Road
Cleveland, Ohio 44135

www.nasa.gov

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NASA Now: Online Educational Programming Telling NASA's Story Through Web Videos

Lights! Camera! Action! Each week, the Glenn-based *NASA Now* team produces a video program designed to give grades 4-12 students involved in the NASA Explorer Schools (NES) project a front-row seat to view NASA projects, facilities and some of its most dynamic people.

NASA Now videos are accessible by teachers on the NES Virtual Campus website at <http://www.explorerschools.nasa.gov> to reinforce key classroom topics in science, technology, engineering and mathematics (STEM), while stimulating student interest in STEM careers. However, anyone can log onto their YouTube channel to view *NASA Now Minutes* and enjoy program excerpts.

A core team of accomplished video producers leads the *NASA Now* project supported by eight educational specialists across the agency. The core team includes Coordinating Multimedia Producer, Frank Wilson; Associate Multimedia Producer, Terry Peterson; Production Assistant, Lisa Moyer; and Lead Education Specialist, Alicia Baturoni. All are Oklahoma State University contract staff supporting Glenn's Educational Program Office. Ron Petransky is a WYLE video production specialist and member of the Imaging Technology Center.

Pictured, left to right: Wilson, Moyer, Peterson and Petransky with the Remi award certificate and Telly trophy.

The team coordinates with NASA Headquarters and field centers to identify NASA topics that bring to life the math and science that students learn in the classroom every day. The team works with leading scientists and engineers from across the agency to tell NASA's story through web video to schools across the country.

"The videos are carefully designed for curriculum and production quality. Our goal is to provide lively and timely material that will educate and ignite student interest in NASA missions and research," Wilson explained. "We are honored to collaborate with NASA's brilliant researchers, and we work with them to simplify the technical subject matter to be accessible by a middle school audience."

NASA Now debuted in August, 2010. In less than a year, the program won a 2011 Bronze Telly, a national award,



C-2011-4834

Photo by Bridget Caswell

as well as a Bronze Remi from the Houston International Film Festival in the category of Online Educational Programming. The Distance Learning Network, the Imaging Technology Center and the NASA Explorer Schools all share in the awards for contributing in the creation of high-quality weekly programming.

"Our initial goal was to reach 250 schools in succeeding years," Wilson said, "but we've become part of an emerging technology serving over 1800 schools nationwide! We're already considering more interaction with students to show their work and dialog via the Web or i-Phone. It's truly a continuing improvement process in education on demand."

—By S. Jenise Veris