National Aeronautics and Space Administration
Langley Research Center

News Researcher

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PHOTO BY JEFF CAPLAN

Frederick Gregory, Deputy Administrator (right), and other NASA leaders fielded questions during the morning session.

One NASA Road Show

Leader-Led Workshop Makes Stop at Langley

If there was any doubt about the Agency's commitment to One NASA and Langley's role in it, they were swept away Nov. 1 when an impressive cast of top Agency and Center leaders spent the day at Langley interactively discussing make-or-break Agency priorities. Topics ranged from Space Shuttle Return to Flight and the latest on the Vision for Space Exploration to the Agency transformation and the urgency for change at Langley.

Billed as the "One NASA Leader-Led Workshop," the event will be repeated at all NASA centers in the coming weeks. The Langley-hosted event was the second in this high-level road show series.

More than 500 Langley employees packed the Reid Conference Center for morning presentations and a panel discussion. Three breakout sessions were held in the afternoon.

Center Director Roy D. Bridges Jr. welcomed the Agency leaders noting that the workshop and their participation demonstrates the Agency's and Langley's commitment to One NASA.

Updates were given by three senior NASA leaders:

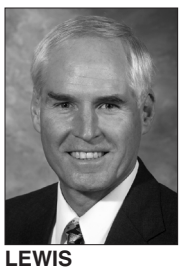
■ Frederick Gregory, Deputy Administrator, spoke on Agency Transformation and implementation strategies. He reviewed recent Agency milestones and attributed these accomplishments to NASA's technical, organizational and people excellence. Gregory also emphasized the imperatives that the Agency is focusing on in the Transformation: Return to Flight, improving the Agency, and transforming the Space Program. He discussed One NASA progress in areas such as streamlining the funds transfer process, Agency-wide vacancy

See **ONE NASA** on **Page 5**

Lewis To Lead Flight Research

By MARNY SKORA
Langley Research Center

A former Air Force test wing vice commander has been chosen Director of the Flight Research Services Directorate. Howard J. "Howie" Lewis Jr., will plan, direct and coordinate flight and simulation research and development activities within a broad range of space, aeronautical and laboratory research objectives. He had been serving as acting director since the Center reorganization took effect Oct. 3.



LEWIS

In this position, Lewis also serves as Langley's aviation manager with authority over the maintenance, quality assurance, flight operations, simulation operations, engineering modifications, airworthiness as well as all flight-related activities and projects.

"Langley flight research operations maintains a simulation-to-flight capability that provides the

See **LEWIS** on **Page 5**

Five Employees Receive Silver Snoopy Awards

By ELAINE GAUSE
Langley Research Center

Astronaut Robert Curbeam Jr., a veteran of two Space Shuttle flights, visited Langley Research Center on Nov. 10 to honor five employees with Silver Snoopy awards for significant contributions to the space program.

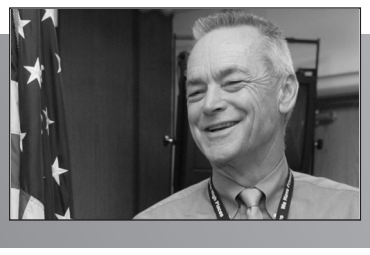
Silver Snoopys recognize outstanding performance contributing to flight safety and mission success. Fewer than one percent of the space program workforce receive the award annually. Each awardee is presented a sterling silver Snoopy lapel pin that has flown on a Space Shuttle mission, plus a certificate of appreciation and commendation letter, both signed by the astronaut.

■ **Karen L. Bibb**, aerospace engineer in the Research & Technology Directorate, along with fellow aerothermodynamicists, planned, implemented, and performed comprehensive, unique, ultra fast-paced experimental/computational studies to provide critical path hypersonic aerodynamic/aeroheating information essential for determination of the causes of failure immediately following the loss of Columbia (STS-107).

■ **Edwin L. Fasanella**, aerospace engineer in the Research & Technology Directorate, led Langley's team conducting studies of foam impact into the Shuttle Orbiter wing as part of the Agency's Return to Flight Program. Fasanella used LS-DYNA to predict 0.2-lb. foam impact damage on various locations of the Shuttle wing leading edge, reinforced-carbon-carbon panel 9 and validated the performance of an improved foam, which is a candidate for retrofitting on the orbiter external tank.

See **SNOOPY** on **Page 5**

News Researcher HIGHLIGHTS



Asteroid Honors *Page 2*

CFC Chili Cookoff *Page 3*

NASA Vision: To improve life here, To extend life to there, To find life beyond
NASA Mission: To understand and protect our home planet ● To explore the Universe and search for life
To inspire the next generation of explorers … as only NASA can

Briefs

AROUND THE AGENCY

NEW SHUTTLE LAUNCH PLANNING WINDOW SET

After an extensive review, NASA is planning its Return to Flight Space Shuttle mission, designated STS-114, for a launch window that opens in May 2005.

The Agency was working toward a launch planning window in March 2005, before a series of hurricanes affected operations at multiple facilities. NASA's Kennedy Space Center, Fla., Marshall Space Flight Center, Ala., Stennis Space Center, Miss., and Michoud Assembly Facility, La., all experienced shutdowns in preparation for one or more of the four hurricanes in August and September, resulting in delays on Return to Flight work.

NASA's Space Flight Leadership Council is co-chaired by William Readdy, associate administrator for Space Operations, and Walt Cantrell, deputy chief engineer for the Agency's Independent Technical Authority. The council includes the directors for NASA's four Space Operations centers, Chief Officer for Safety and Mission Assurance Bryan O'Connor, and Deputy Associate Administrator for International Space Station and Space Shuttle Programs Michael Kostelnik. For more information about NASA's Return to Flight efforts, visit:<www.nasa.gov/returntoflight>. RELEASE: 04-363

■ **Return to Flight Rehearsals Begin:** Simulating a first-of-its-kind somersault that will expose the underside of the Space Shuttle for tile inspection, NASA has begun rehearsing its Return To Flight.

The rehearsals were the first of 10 to 15 full-scale dry runs that will continue until just before launch. They will allow the team to practice not only the new nose-over-tail flip of the Shuttle but also docking, launch, spacewalk and landing events.

A web of computer and voice communication joins dozens of flight controllers, the astronauts who will fly the Shuttle, support engineers and training instructors to simulate key portions of the next mission.

About 200 hours of the complex simulations are planned. For more information, visit: <www.nasa.gov>.

NEW WORLDWIDE CORAL REEF LIBRARY CREATED

A NASA-funded project has created an archive of approximately 1,500 images of worldwide coral reefs. The archive is a tool international researchers will use, as they track reef health.

The collection of coral reef images is the basis for a new Internet-based library for the Millennium Coral Reef Project. It was created in a partnership between NASA and the University of South Florida, Tampa, Fla. Additional contributors, including the National Oceanic and Atmospheric Administration, international agencies and other universities, shared data, so natural resource managers could have a comprehensive world data resource on coral reefs and adjacent land areas.

NASA contributed funding and satellite data to the project to develop global reef maps as a base for future research. The project will also serve as a library for coral reef remote sensing data. A distribution network has been developed to make the data available to organizations around the world. For more information and images about this release, visit: <http://www.nasa.gov/vision/earth/lookingatearth/coralreef_image.html>. RELEASE: 04-355

Researcher News

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The privilege of listing announcements in this publication is restricted to the employees, contractors and retirees of the Langley Research Center. Articles must be offered without regard to race, color, religion, sex or national origin. All materials are subject to editing.

Read the Researcher News online at <http://researchernews.larc.nasa.gov>.

Saunders Honored with Asteroid

By MARNY SKORA
Langley Research Center

Rarely on one's list of ambitions would appear an honor bestowed to a Langley employee this month. Mark Saunders, director of the Exploration Systems and Space Operations Technology Directorate now has an unusual heir – an asteroid.

Dubbed (16105) Marksaunders, the "main belt" asteroid has a stable orbit between the orbits of Mars and Jupiter, about three times farther from the sun than the orbit of Earth. Also known by its discovery designation 1999 VL211, the asteroid was named for Saunders who was instrumental in the founding of NASA's Discovery Program.

Saunders is welcomed to the "club" by Wayne Richie, Mars Program Acquisition manager in the Science Support Office, and Jay Bergstralh, senior scientist for space in the Science Directorate. (14596) Bergstralh and (14597) Waynerichie were awarded earlier for the duo's contributions to the development of the Discovery Program. Established in April 1992, this program provides frequent access to space for a wide range of planetary scientific investigations.

NASA's Discovery Program gives scientists opportunities now to not only participate in, but to propose missions to investigate the planets and small bodies in the solar system. Saunders is credited with critical involvement in starting the first three missions: the Near Earth Asteroid Rendezvous (NEAR) mission, the Lunar Prospector mission and Mars Pathfinder.

NASA's NEAR mission made many close-up investigations of the asteroid Eros. Lunar Prospector found evidence of potential water ice near the poles of the moon. The most famous of the three, Mars Pathfinder, introduced the rover Sojourner, the first "thinking" robot that accomplished revolutionary feats on the surface of Mars.

Asteroids, also known as minor planets, are named by the International Astronomical Union (IAU). IAU rules require asteroids to be observed during four separate cycles around the Earth and sun before they become eligible for numbering and naming. Once its orbit has been determined, the discoverers can suggest a name. After a review by a committee, the IAU makes the name official, with a number in parentheses before the name.

(16105) Marksaunders was discovered Nov. 14, 1999, by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station. Visit <http://cfa-www.harvard.edu/iau/lists/MPNames.html> for the IAU list of names.

PHOTO BY JEFF CAPLAN

Center Director Roy Bridges Jr. presents Mark Saunders with the plaque announcing the newly named asteroid.

Marny Skora is head of the News Media Office at Langley Research Center.

IN MEMORIAM

Rupert Raymond "Monty" Monahan

Rupert Raymond "Monty" Monahan, 78, died Oct. 30. Before moving to Sebring, Fla., in 1980, Monahan worked as an electrician on the Meteoroid and Impact Simulator (MIMS) project and was a POW veteran of WWII (U.S. Army).

Edward George Smith

Edward George Smith, 46, died Oct. 27. Born in Hampton, Smith worked at Newport News Shipbuilding, EG&G Contractors, and NASA before starting his business, Beacon Electrical Support.

Scott Atkins Spencer

Scott Atkins Spencer, 35, died Nov. 7. A native of Newport News, he was employed at Langley Research Center for 16 years, most recently as an Information Technology Specialist. Spencer was also a 1993 graduate of the NASA Apprentice Program.

"Scott was, without a doubt, the most dependable person in my organization," said Michael Chapman, head of the Data Acquisition and Data Quality Team. "You could ask Scott to do anything, and rest assured that it would be done right the first time. Scott was well liked by everyone, and he was a model employee. And he was just as passionate about our Data Acquisition Systems (DAS) Development Lab as he was about his cycling. Thanks to his efforts, the DAS Lab is a LaRC showcase for new product development and customer demonstrations. If you knew Scott, you knew that he had a big heart and a kind spirit. He was a strong contributor to our mission, and his presence will be profoundly missed."

James Robert "Bob" Williams Sr.

James Robert "Bob" Williams Sr., 52, died Oct. 28. Williams came to Langley Research Center in 1985 and worked as a communications specialist in ODIN for the past 19 years. He was employed by Lockheed Martin Government Services.

"Bob's many years of dedication to Langley will be greatly missed by all," said Harvey Murray, ODIN telecommunications manager.

LETTERS

Freedom to Work

Let's concentrate not on family and safety, but on executing the mission with excellence and integrity.

Instead of seeing safety statistics at every gate and the director's picture headlining @LaRC every day, let's see the number of days without a space shuttle or the number of invention disclosures this month.

Instead of Freedom to Manage, let's have Freedom to Work.

Bil Kleb and Bill Wood
Aerothermodynamics Branch

The Researcher News accepts signed letters to the editor from Langley Research Center employees, on-site contractors and retirees. Letters are limited to 250 words and will be edited only for grammar. When necessary, letters may be edited for space, but only with the author's approval. Letter-writers are limited to one submission on a topic every six months. Questions regarding this policy should be directed to Keith Henry, managing editor, at 864-6120 or <h.k.henry@nasa.gov>.

News Researcher

Nov. 19, 2004

cfc2004

PHOTO BY JEFF CAPLAN

Monica Schrum, Center Operations Directorate, serves her team's chili. Teams used different recipes, team names and costumes to persuade attendees to vote for their team.

PHOTO BY JEFF CAPLAN

Thomas Jordan, Systems Engineering Directorate, tastes one of the many chili samples offered during the CFC's Chili Cookoff.

Fruits of Our Labor

By CLIFFORD OBARA
Langley Research Center

We're all aware of how our lives differ from days gone by.

We lead more hectic schedules than ever before and it seems that, even if we give up one activity, our days still seem shorter. There is never enough time to get it all done.

For those of us who have settled into this way of life, we generally enjoy it! The enjoyment can be attributed to the fact that, as successful middle-class Americans, we now have the capability to enjoy the fruits of our labor. As such, we also have the right to select our own fruits. That is to say, we can pick and choose what activities we want to participate in and how we want to spend our hard-earned dollars.

That isn't always the case for everyone. Ever since the events of 9/11 and the arrival of Hurricane Isabel, our comfortable lives have been disrupted to one degree or another. We have been affected either directly or indirectly by the terrorist attacks and the subsequent war in Iraq. In addition, there have been enough natural disasters within the last couple of years to affect all of us in some way. It could be a family member, co-worker or friend who has needed assistance. Then there are those people with no direct relationship who have to live life from one day to the next not knowing if they will make it. Their fruit baskets are empty and they will not get filled unless help is provided.

As government employees and contractors, we have the ability to assist others that do not have as full a basket as we do. Through the Combined Federal Campaign (CFC) we can provide shelter for the homeless, share a meal with the hungry, give a ride to the doctor's office for the elderly, counsel the abused, and rehabilitate the abusers.

More than 1,400 agencies fall under the CFC umbrella, including many local agencies that could have a large impact on our lives and the lives of those around us. The best part is that we can do this today from the comfort of our desk. You can make your CFC pledge while enjoying that morning or afternoon fruit snack by logging onto the CFC Web site at <https://cfc.larc.nasa.gov/>.

Won't you join me and share the fruits of our labor?

Clifford Obara works in the Center Operations Directorate and is the 2004 CFC Loaned Executive.

Times Change...Needs Don't

campaign notes

EVENT DATES

Nov. 24:
Campaign ends

WEB SITE
http://cfc.larc.nasa.gov

2004 GOALS
Funds: $380,000
Increase '03 Participation

EMPLOYEE SPOTLIGHT

CFC Helps Employees Donate Money, Time

By PAM VERNIEL
Langley Research Center

Playing music is Don Ruth's pastime and passion.

When he is not working as a logistics specialist in the Office of Logistics Management at Langley Research Center, he is a disk jockey who likes to play Carolina shag music. For the past six years, he has donated a portion of his time annually as a DJ for fundraising events such as Help and Emergency Response (HER).

HER is a member organization of the United Way of the South Hampton Roads Federation. The mission of HER is to provide shelter for abused women and children, crisis intervention, counseling, children's programs, workshops, support groups, teen dating violence seminars and a 24-hour hotline. Located in Portsmouth and Chesapeake, HER has been dedicated to the elimination of domestic violence for the past 20 years. It currently provides a temporary home for 42 women and children.

HER has developed a comprehensive educational plan to increase public awareness about domestic violence and options for intervention by actively collaborating with community agencies to provide these services. It also offers continuing support services for women and children when they leave the shelter.

Domestic violence occurs among all sectors of society. It happens to people of all racial, economic and religious groups. Domestic violence is believed to be the most common, but least reported, crime in America. Each year approximately three to four million American women are beaten, and 1,000 are killed, by their husbands or partners.

Women stay in violent situations for complex reasons. Some women affected by violence feel isolated, lack emotional and financial support, lack information about alternatives and fear greater physical danger to them and their children if they leave. Seventy-five percent of women who leave are at risk of being killed. HER works to prevent tragedies by offering alternatives.

Help and Emergency Response
CFC No. 5029

HER needs funds, food, diapers, baby goods, toiletries, cleaning supplies, towels and bedding. The CFC code for HER is 5029.

Other local domestic abuse prevention services that can be helped through the CFC are:

- Samaritan House in Virginia Beach – CFC code 5020
- Transitions in Hampton and Newport News – CFC code 7036
- Genieve Shelter in Suffolk – CFC code 5009

Pam Verniel, an employee in Langley's Public Outreach Office, is in charge of publicity for Langley's 2004 CFC Committee.

CFC MISSION
"...to support and to promote philanthropy through a voluntary program that is employee focused, cost-efficient and effective in providing all Federal employees the opportunity to improve the quality of life for all."

'Hallmarks of Success'

Lassos in Space

Giant Slings Seek to Capture, Launch Spacecraft

Editor's note: *This is the sixth in a series of articles about small, high-tech, high-risk companies that have partnered with NASA through the Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs. Each one is different — different sizes, different locations, different technologies — yet all have become successful and are considered to be "Hallmarks of Success."*

By SHERI BEAM
Langley Research Center

PHOTO BY JEFF CAPLAN

According to Eddie Adcock of the Advanced Sensors and Optical Measuring Branch, "This technology would improve the capability of NASA to achieve...the Agency's vision to explore the universe and to search for life."

TETHERS UNLIMITED INC.

Roping cattle takes skill and finesse, but imagine trying to lasso a satellite in space. Now, imagine flinging the satellite up to a higher orbit to actually launch it!

That's what a small business in Bothell, Wash., is planning to do.

The researchers and engineers at Tethers Unlimited Inc.—TUI—are not cowboys, but they are developing unique lassos. Their "lassos" are new systems that will be used to capture and launch spacecraft.

The TUI tether is a long string or wire deployed in space from a spacecraft. These tethers can be used in different ways to move satellites or spacecraft in space.

The "lasso" concept is similar to a giant sling that would rotate as it orbits the Earth. The craft, ballast and tether increase orbital momentum and energy for boosting the payload to a higher orbit.

"It could swing down, pick up a spacecraft in low orbit and carry it up and toss it into a higher orbit," said Rob Hoyt, TUI president.

Hoyt's interest in space tethers began while he was in graduate school. Not long after graduating, he formed TUI with another tethers researcher. Very early on, the firm worked on a NASA project through a Small Business Innovation Research (SBIR) contract from Marshall Space Flight Center.

During that time, the company developed the "Hoytether," named for Hoyt. With its multiple, interconnected lines, the Hoytether resembles a huge fishnet stocking. Its special netlike design actually provides the long-duration strength that's needed while in orbit. Today, TUI is collaborating with the Air Force Research Laboratory to refine the Hoytether.

A few years after developing the Hoytether, Marshall funded TUI to continue its work on developing other tethers. The company then created the "Terminator Tether," a cost-effective method for removing space debris after missions have been completed.

The Terminator Tether would be attached to a satellite before it is launched. When the mission is completed, the tether would deploy below the spacecraft. As the tether drags against the Earth's magnetic field, it would lower the orbit of the craft, until it hits the upper atmosphere and burns up.

Using the Terminator Tether would have advantages over other methods for removing orbital debris. "It can deorbit the spacecraft with a much lower mass requirement than a rocket, and the system is basically self-powered," Hoyt said.

Through another SBIR contract, TUI is partnering with Langley Research Center on a technology known as "SensorLine, which will enable spacecraft to deploy distributed arrays of microsensors on planet surfaces.

"This small business uses a truly innovative approach in solving a classical sensor deployment dilemma [by] providing a method to position a large array of sensors in hostile environments, with minimal impact on the weight and volume budget," said Eddie Adcock of Langley's Advanced Sensors and Optical Measuring Branch.

The microsensors would be able to perform a variety of experiments, such as taking measurements of temperatures, chemicals and other important data, usually done by more-expensive robots.

Sensorline could enable hazardous materials response teams to remotely place chemical sensors in contaminated areas, or provide troops with a safe and secure way to set up an array of sensors to warn of chemical weapons or other threats.

Adcock thinks the technology could undoubtedly have a major impact on various programs at NASA. "This technology would improve the capability of NASA to achieve many aspect of the Agency's mission; specifically, the Agency's vision to explore the universe and to search for life," Adcock said. "The pending successes of this project ... could improve the current state of deployable sensors for a variety of applications."

Through the In-Space Propulsion Technology Program, NASA is funding TUI to produce key technologies for a Momentum-Exchange/Electrodynamic Reboost tether system, called MXER ("mixer"). MXER will deploy a 100-kilometer cable in orbit around the Earth.

Hoyt says MXER will be like a railroad in space. The concept uses a high-strength, rotating, momentum-exchange tether that catchs payload and tosses it to a higher orbit, resulting in additional orbital energy for the payload.

"Essentially, it serves as a reusable, in-space, upper-stage and could handle missions to different destinations," Hoyt said."It's a way of boosting multiple payloads from low-Earth orbit up to geo-stationery orbit, or to the Moon, or possibly even to Mars without using any propellant."

TUI's greatest obstacle to tether development is flight testing.

Most all of TUI's potential customers want to see the tethers tested in a space environment. They were scheduled to test an experiment abroad a NASA shuttle mission, which has been postponed.

In the near term, TUI is using microgravity test environments to prove that its systems are reliable and can be operated successfully.

The firm is also conducting some very low-cost nanosatellite experiments.

TUI has teamed with Stanford University on a Small Business Technology Transfer (STTR) award from Marshall. With this contract, the team is developing a flight experiment, called the Multi-Application Survivable Tether, or MAST. MAST will deploy three mini-cube satellites along a tether to study how well the tether propulsion technologies will hold up in space.

A significant challenge or TUI is developing a new, different and unconventional technology. Although it has a niche market, the company knows what it takes to survive and be successful. Besides finding multiple customers for its technologies, Hoyt says, "You need to look for other markets for your technology or your skills that may not be entirely obvious."

After realizing that it analyzes and simulates many strange and complex space objects, TUI formed a new division, called ScienceOps. Through ScienceOps, they provide scientific computing services to commercial companies.

Today, there aren't any hard and fast requirements for commercial organizations to dispose of their spacecraft at the end of a mission, but the space debris issue continues to worsen. With more than 8,000 satellites and other large objects orbiting the Earth, and with more being launched, TUI is positioning itself to be ready with timely, low-cost solutions for lassoing satellites.

Sheri Beam is in charge of marketing and media relations for Langley's Small Business Partnership Team.

Snoopy

Continued from Page 1

■ **Thomas J. Horvath**, aerospace engineer in the Research & Technology Directorate, planned, implemented and performed, in a comprehensive ultra fast-paced manner, all experimental ground-based hypersonic aeroheating studies for the Columbia accident investigation. The huge volumes of essential information he provided were paramount to the success of the investigation.

■ **Thomas R. Levin**, engineering technician in the Systems Engineering Directorate, played an exceptional role in the development and thermal-vacuum environmental qualification testing of numerous Langley spaceflight experiments, including: Halogen Occultation Experiment (HALOE); Lidar In-Space Technology Experiment (LITE); Mid-deck Active Control Experiment (MACE) system components, the Gas Permeable Polymer Materials (GPPM) C-RIM and related electronics; Measurement of Air Pollution from Satellites (MAPS-on-Mir) experiment and thermal control system; Evaluation of Space Environment and Effects on Materials (ESEM); and Materials International Space Station Experiment (MISSE).

■ **Karen H. Lyle**, aerospace engineer in the Research & Technology Directorate, provided technical guidance, results, and information about the response of the Shuttle wing leading edge to debris impacts directly impacting the Shuttle return-to-flight schedule.

Curbeam also visited the Virginia Air & Space Center on Nov. 10 to share stories about his journeys to space with students from Gloucester, Norfolk and Virginia Beach.

Elaine Gause works in the Public Outreach Office at Langley Research Center.

PHOTO BY JEFF CAPLAN

Silver Snoopy Awardees (left to right) Thomas Horvath, Research & Technology Directorate; Karen Lyle, Research & Technology Directorate; Thomas Levin, Systems Engineering Directorate; Karen Bibb, Research & Technology Directorate; and Edwin Fasanella, Research & Technology Directorate received their awards from Astronaut Robert Curbeam after a presentation on his two Space Shuttle flights.

Nine Langley Employees Earn Advanced Degrees

By GEORGE ALLISON
Langley Research Center

Nine Langley Research Center staff members earned advanced degrees during the past 18 months.

Langley's Advanced Study Program provides engineers, scientists and administrators opportunities to improve their proficiency in aeronautical and space research and earn graduate credit. Employees participating in the program receive tuition support for approved job-related programs of study. About 1,600 staff have earned masters or doctoral degrees since the program began in the 1940's.

Doctoral Degrees

William L. Kleb, Aerothermo-dynamics, aerospace engineering, Michigan; **Allan T. Morris**, Systems Integration, systems engineering, Virginia; **Lawrence J. Prinzel III**, Advanced Concepts Branch, engineering and systems psychology, Embry Riddle.

Master's Degrees

Melissa B. Carter, Configuration Aerodynamics, aerospace engineering, George Washington; **Kendall E. Freeman**, Network and Computer Services, computer engineering, Old Dominion; **James W. Godsey**, Network and Computer Services, information technology, Virginia Tech; **Mark A. Hutchinson**, Instrumentation Systems Development, systems engineering, Virginia Tech; **Craig D. Jones**, Mechanical Design, engineering management, George Washington; and **Richard A. Walker**, Electronic Systems, systems engineering, Virginia Tech.

For information on the Center's Advanced Study Program, please call 864-2594.

George Allison works for the Employee and Organizational Development Branch as a Human Resource Specialist.

One NASA

Continued from Page 1

announcements, One NASA peer award, SES mobility and selection process.

■ Craig Steidle, Associate Administrator, Explorations Systems Mission Directorate, gave an update on achieving the Vision for Space Exploration. He highlighted the 18 key Presidential Direction goals; the top two are Return to Flight and completion of the International Space Station. Steidle gave a preview of the major milestones NASA will work towards in the next 10 years. He discussed the plan for balancing competition with collaboration among centers and the role of technology development.

■ Bridges discussed Langley Transformation and culture-change activities. He highlighted Langley's competencies that are critical to NASA's overall Vision. Bridges also reminded participants of the urgency for change—internally and externally—and the adaptations the Center must make. Five goals—embracing NASA Values; providing trusted and accountable leadership; communicating openly; becoming a learning organization; and ensuring processes are customer-focused—were suggested as steps towards the desired excellence.

The speakers explained that collaboration from each center is imperative for the future success of NASA. Uniting together; engaging in broader communities; forming a united front between NASA, industry, and academia; educating the public; and delivering on commitments are ways to sustain the program and ensure continued success.

"We have a great team," said Steidle. "This is another example where the outcome is greater than the sum of its parts… United support of the Vision will ensure stability."

Following the updates, a panel discussion was held for questions from the audience. Gregory moderated, while Steidle, Bridges, and Dr. Victor Lebacqz, the Aeronautics Research Mission Directorate's Associate Administrator, answered questions. Jim Jennings, Associate Deputy Administrator for Institutions and Asset Management and Vicki Novak, Assistant Administrator for Human Capital Management, also participated.

Three afternoon breakout sessions provided more detailed presentations and opportunities for discussion on the various topics:

■ Agency Transformation led by Gregory; Johnny Stephenson, One NASA Team Leader; and Toni Dawsey, Director, Personnel Division at NASA Headquarters.

■ Space Exploration and Role of Langley Research Center led by Mark Saunders, Director of the Exploration Systems and Space Operations Technology Directorate, Langley Research Center.

■ Strategy and Capability Road Mapping led by Bernie Seery , Director for Advanced Planning and Integration Office, and Terry Hertz, Deputy Associate Administrator for Technology, Aeronautics Research Mission Directorate.

Questions submitted from all centers during the workshops will be addressed Jan. 12 as part of the One NASA Leader-Led Workshop at Headquarters. Answers will be placed online.

Files of presentation charts used at the workshop are available for downloading from "Hot @LaRC" at <http://www.atlarc.larc.nasa.gov>. For more information about One NASA, visit <http://www.onenasa.nasa.gov>.

Lewis

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research community the opportunity to install new systems and avionics on actual testbed aircraft from general aviation craft to a Boeing 757," said Center Director Roy Bridges Jr. "We are fortunate to have someone with Howie's vast test and military flight experience lead this capability."

Lewis came to NASA in February 2004 as chief of flight research operations. In this position, he was responsible for the safe operation of Langley aircraft and for all aspects of training and proficiency of the aircrew.

"I see my role as setting a vector, providing direction for the directorate," said Lewis. "In the eight months that I have been with NASA, I have been impressed with the qualifications of the flight research personnel. Together we have already quadrupled the number of projects we are working."

Lewis retired from the Air Force after 30 years of service. As vice commander, 412th Test Wing at Edwards Air Force Base, Calif., he led the largest, most diverse test unit in the Air Force, a 4,500-person organization composed of military, government civilian and contractor personnel.

The unit conducted more than 200 test programs worldwide ranging from simple subsystem tests to the initial development of highly complex weapon systems, such as the F/A-22 fighter and Airborne Laser Boeing 747 aircraft.

Lewis earned a bachelor of science degree in physics from the U.S. Air Force Academy and completed undergraduate pilot training at Craig Air Force Base, Selma, Ala. His early assignments included instructor pilot for T-38s, operational F-4Cs and F-15s and he was qualified in all air-to-air and air-to-ground fighter missions. He graduated from the Air Force Test Pilot School at Edwards Air Force Base. Having served as a military staff assistant in the Office of the Secretary of Defense in the Pentagon and as Deputy Director for Test and Evaluation with responsibility for all Air Force developmental programs, he has extensive test and evaluation experience.

Marny Skora is head of the News Media Office at Langley Research Center.

AdVentures

CLASSIFIED

FOR SALE: 1999 GMC Suburban SLT. Power everything, Leather, 3rd seat, Tow Package (never used), 2 A/C, Tilt/cruise, CD/cassette, 95,000 miles. $13,500. Call 464-3929.

FOR SALE: Very gently used Little Tikes, Fisher Price, and other quality toys. Little Tikes ride-on toy and police car ride-on, red tricycle, small duplo block table, and many more quality toys at very reasonable prices, All like new and would be perfect for those Santas out there on a budget. Call 838-1043.

EARLY DEADLINE

Due to the Thanksgiving holiday, story submissions, news briefs and classified advertisements are due by Nov. 22 for insertion in the Dec. 3 edition.

Send submissions to <researcher-news@larc.nasa.gov>

J-Lab Announces Fall Series

Jefferson Lab will host the following Fall Science Series event at 7 p.m. **Nov. 23** in Jefferson Lab's CEBAF Center auditorium:

■ Kristen Kulp, a cancer research scientist with the Biology and Biotechnology Research Program at Lawrence Livermore National Laboratory, will present "What's for Dinner? Avoiding Toxins Lurking in Your Food."

The presentation is free and open to the public. For security purposes, attendees are asked to enter at Jefferson Lab's main entrance on Onnes Drive.

For more information, call 269-5102 or visit: <http://education.jlab.org/science-series/currentseries.html>.

Blood Drive On Nov. 24

The American Red Cross will host its final LaRC blood drive of the year on **Nov. 24** in the H.J.E. Reid Conference Center. Langley employees, contractors and retirees are invited to participate. Civil servants should charge their time to "Excused Leave."

For more information, contact Connie Small at 864-2564 or <Connie.J.Small@nasa.gov>.

LAA Holiday Luncheon

The LAA Holiday Luncheon will be held **Dec. 14** at the Point Plaza Hotel & Suites (formerly the Ramada Inn) on J. Clyde Morris Blvd.

LFCU Offers $20,000 In Scholarships

Langley Federal Credit Union announced it will award four $5,000 scholarships in 2005. "Providing a scholarship opportunity to multiple graduating high school seniors was an easy decision for LFCU. It is important to recognize the hard work of our Constellation Club members who stand out both academically and within the community," stated Jean M. Yokum, LFCU President/CEO.

■ The Constellation Club is an award-winning program that provides hands-on financial experience for the youth of LFCU. Designed for young members through age 18, the club helps teach the importance of being financially responsible and the rewards of saving. The "Galaxy Graduate Scholarships" are just one example of the many valuable benefits available to young members.

■ Scholarship applications will be placed in all branch locations and available online in **January 2005**. Scholarships are awarded at LFCU's Annual Meeting in April. For more information on the Constellation Club and award criteria, visit: <www.langleyfcu.org> and click the "Just for Kids" tab.

VIRGINIA AIR & SPACE CENTER

All Aboard! for IMAX Film At VASC

The Polar Express: An IMAX 3D Experience is the first full-length feature ever converted into IMAX 3D DMR (digitally remastered). The Riverside 3D IMAX Theater at the Virginia Air & Space Center opened the film on Nov. 10, and will continue showing through December. Audiences will become totally immersed in the presentation...grasping at falling snowflakes, ducking as the train screeches into their lap and feeling the howl of the steam whistle via 12,000 watts of digital surround sound...on a screen towering five stories tall.

The Academy Award-winning team of Tom Hanks and director Robert Zemeckis reunite for this inspiring holiday adventure based on the classic Caldecott Medal-winning children's book by Chris Van Allsburg. When a doubting young boy takes an extraordinary train ride to the North Pole, he embarks on a journey of self-discovery that shows him that the wonder of life never fades for those who believe.

The Riverside 3D IMAX Theater at the Virginia Air & Space Center is located at 600 Settlers Landing Road in Hampton, Va. For information on tickets and showtimes, call 727-0900, ext. 703 or visit: <www.vasc.org>.

VASC is Langley Research Center's official visitor center.

Defibrillator Installation

PHOTO BY JEFF CAPLAN

Anthony Barry, Lord and Company, tests the operation of the Automatic External Defibrillator (AED) box installed in building 1268. Thirty AEDs have been installed to provide early assistance for cardiac emergencies. The Heart Safe Program has trained 130 civil sevants and contractors in the use of the AEDs. More classes will be offered in the coming months.

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