



MARSHALL STAR

Serving the Marshall Space Flight Center Community

Nov. 20, 2003

NASA named best federal agency for employee satisfaction

from combined reports

The Partnership for Public Service, and American University's Institute for the Study of Public Policy Implementation last week released results of a comprehensive survey of federal government employees on various aspects of job satisfaction.

NASA ranked first among all federal agencies in the survey.

"The results reflect the positive attitude of the NASA workforce and their involvement in the NASA mission," said NASA Administrator Sean O'Keefe.

This first-ever survey of more than 100,000 government employees graded all the federal agencies on several categories related to employee satisfaction. Survey questions were drawn from the Office of Personnel Management Federal Human

See NASA on page 2



Photo by Emmett Given, Marshall Center

Marshall kicks off SMS Week

Marshall Director David King, right, shakes hands with Dave Spacek, the Center's team lead for Safety and Mission Success Week during an All-Hands meeting Monday. NASA has set aside this week for all Agency team members to read the Columbia Accident Investigation Board report, meet together and offer input on addressing the report's recommendations. King emphasized that everyone is a part of the NASA team and has something to contribute in helping the Agency move forward.

Combined Federal Campaign extended to Wednesday

by Jonathan Baggs

The Combined Federal Campaign has been extended until Wednesday at the Marshall Center.

Marshall Center contributions through

the sixth week of the campaign ending Nov. 12 totaled \$544,379 with 64 percent participation. Marshall's goal this year was \$500,000, but officials would like a higher

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Liquid Space Propulsion Symposium draws international crowd

by Sheri Bechtel

An international gathering of propulsion experts recently met for the 5th International Symposium on Liquid Space Propulsion in Chattanooga, Tenn., on Oct. 27-30.

This year's symposium focused on long-life combustion devices and drew more than 150 scientists, researchers, engineers and educators from six countries, including the United States, Russia, Japan, Korea, France, and Germany.

The symposium allows experts in the field of liquid rocket propulsion to exchange fundamental, basic information through presentations and open discussion about research and trends in space transportation. The gathering also encourages international scientific collaboration among participants and members of the liquid rocket propulsion community.

"International cooperation is important because the cost of space exploration

See Symposium on page 4



D. Higginbotham, NASAM/MSFC

Skylab astronauts reunite

Eight of the original nine Skylab astronauts, along with Dr. George Mueller, far left, former NASA associate administrator for Manned Space Flight, reunite at the Marshall Center during a 30th anniversary celebration of the three missions aboard America's first space station. For more photos of the astronauts' visit to Huntsville last week, see pages 6-7.

NASA

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Capital Survey.

NASA scored near or at the top of the list in the following categories: effective leadership (top ranking); teamwork (top ranking); strategic management (second ranking); having a strong match between employee skills and their agency's mission (second ranking); strength of performance-based rewards and advancement (top ranking); training and development opportunities (top ranking); support for diversity (top ranking); work/life balance (top ranking); pay and benefits (third ranking); and family-friendly culture and benefits (top ranking).

According to the survey, the top five federal agencies to work for are: NASA, National Science Foundation, Office of Management and Budget, General Services Administration and Environmental Protection Agency.

Last week, O'Keefe and Al Diaz, director of Goddard Space Flight Center, participated in a roundtable discussion sponsored by the Partnership for Public Service and American University.

"I expressed my belief that NASA scored well on the survey due to a number of factors," O'Keefe said. "We are responsible for some very exciting work. We value our employees as our greatest asset and we have Agency policies and practices that reflect this belief. Our program to recognize and reward employee achievements is outstanding. We continually strive to make NASA the best possible place to work and communicate that commitment directly to the workforce.

"To be certain," O'Keefe continued, "NASA is far from a



Photo by Doug Stoffer, NASA/Marshall Center

NASA Inspector General Cobb tours Marshall Center

Melissa Vandyke, left, lead of Early Flight Fission Test Facilities in the Propulsion Research Lab at the Marshall Center, briefs NASA Inspector General Robert Cobb, second from left, during a tour last Friday. Joining the tour with Cobb are Executive Officer to the Inspector General Madeline Chulumovich, second from right, and Assistant Inspector General for Investigations Lance Carrington, right.

perfect organization. What is most heartening about the survey is that it demonstrates we have a very engaged workforce. I believe they all are strongly committed to our mission goals and to helping us work through our current challenges."

Max Stier, president of the Partnership for Public Service, said, "What we've seen at NASA is that they have one very important ingredient (to organizational success) right, but they have some other things that they need to work on to get their house in order."

O'Keefe said he was convinced that the Agency's unceasing efforts to enhance mission safety and develop an organizational culture that empowers open dialogue will help NASA become an even stronger Agency in the weeks and months ahead.

The survey also provided a breakdown of employee satisfaction at subagencies, or in NASA's case, the Agency's various field centers.

In the survey, the top three federal subagencies to work for are the Marshall Center, Johnson Space Center and Goddard Space Flight Center, with the Langley Research Center listed as ninth in the rankings.

The Marshall Center was listed first in teamwork, effective leadership, and training and development. Marshall was second in support for diversity and third in performance-based rewards and achievement and employee skills-to-mission match. The Center ranked fifth in strategic management.

"Our work is exciting, and our future is as bright and challenging as it has ever been," said Marshall Center Director David King. "The diverse opportunities NASA offers provide a great work environment and excellent career development."

To see the survey, go to <http://www.bestplacetowork.org>.



Photo by David Higginbotham, Marshall Center

Alabama Lt. Gov. Baxley visits Marshall

Alabama Lt. Gov. Lucy Baxley, left, listens as Marshall team member Ken Cooper tells her about the Rapid Prototyping Area at Marshall's National Center for Advanced Manufacturing. Baxley visited Marshall on Monday.

Rudolphi named manager of Marshall Space Shuttle Propulsion Office

NASA Headquarters release

NASA's Space Shuttle Program Manager William Parsons has announced the appointment of Michael Rudolphi as manager of the Space Shuttle Propulsion Office at the Marshall Center effective Dec. 1.

Rudolphi succeeds Alex McCool, who is serving as a special advisor to Marshall Center Director David King.

"Overseeing the Space Shuttle's propulsion system is a critical and challenging responsibility, and 'Rudi' has the experience and leadership skills to be very successful at it," Parsons said. "His selection will enhance the long-standing collaboration between the Stennis Center and the Marshall Center. It also promotes senior executive mobility within the agency and exemplifies the One NASA principle."

Rudolphi has served as the Interim Director at the Stennis Space Center in Mississippi since July, managing NASA's rocket propulsion test capabilities and Earth Science applications.

"I am delighted to welcome Rudi back to the Marshall Center," King said. "He is



Marshall Imaging Services

Rudolphi

an outstanding manager whose contribution will be invaluable as we work to safely return the Space Shuttle to flight."

In his new position, Rudolphi assumes responsibility for the manufacture, assembly and operation of the primary Space Shuttle propulsion elements — the Space Shuttle Main Engines, External Tank, Solid Rocket Boosters and Reusable Solid Rocket Motors.

"It has been a pleasure serving NASA at Stennis Space Center," Rudolphi said. "I am deeply honored and proud to respond to the Agency's needs and return to Marshall Space Flight Center to take on this challenging position."

Rudolphi began his career with NASA at the Marshall Center in 1988 as facility manager for the Advanced Solid Rocket Motor Project in Iuka, Miss. He managed the design, construction and operation of an ultra-modern rocket manufacturing facility. In 1995, he took a special assignment in the Marshall Center's Resident Office at the Kennedy Space Center in Florida. He returned to Marshall in 1996 as chief engineer of the Solid Rocket Booster Project. He later served as Solid Rocket Booster Project manager and as manager of the Reusable Solid Rocket Motor Project prior to becoming the interim director at the Stennis Space Center.

Rudolphi earned a bachelor's of science degree in civil engineering in 1971, and a master's of science degree in civil and structural engineering in 1975 from the University of Tennessee. He is a registered professional engineer in Tennessee, Alabama and Mississippi.

Throckmorton named Stennis Center deputy director

NASA Headquarters release

NASA's Assistant Administrator for the Office of Space Flight William Readdy has announced David Throckmorton as the new deputy director of the Stennis Space Center in Mississippi effective December 1.

Throckmorton was deputy director of the Marshall Center's Engineering Directorate. At Marshall, he led a large, multidisciplinary workforce engaged in engineering design, analyses, development, and test in support of the broad array of NASA space flight programs. He began a one-year rotational assignment in August as assistant director at Stennis as part of NASA's Corporate Executive Development Program for members of the Senior Executive Service.

"David has a wealth of engineering and multi-discipline experience," Readdy said. "Coupled with his extensive knowl-



Photo by Dennis Olive, NASA/Marshall Center

Throckmorton

edge of the Space Shuttle and other NASA programs and his leadership skills, he will be an invaluable member of NASA's return to flight team."

Throckmorton joined the Marshall Center in December 2000 as deputy manager of the Structures, Mechanics and Thermal Department. Previously, he was manager of the Space Transportation Programs Office at Langley Research Center in Hampton, Va. From 1986 to 1994, Throckmorton was assistant head of Langley's Aerothermodynamics Branch. In 1988-89, he was director of Base

Technology for the National Aero-Space Plane Program (NASP) in the NASP Joint Program Office at Wright-Patterson Air

Force Base in Ohio.

He earned a bachelor of science degree in aerospace engineering from Virginia Polytechnic Institute, and a master of science

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Symposium

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and utilization is very high, and I believe the United States can no longer afford to be the only leader in space travel," said Robert Sackheim, the Marshall Center's assistant director and chief engineer for space propulsion and executive chair of the symposium. "At a fundamental level, we're all trying to solve the same problems. Everything we do is all based on the same precepts of physics, chemistry and mathematics. It's important that we work together and pool our resources, training and talent for the good of the entire rocket propulsion community."

Sackheim provides technical leadership and expertise for all NASA propulsion and space transportation activities. He gave an overview of NASA's current and future space transportation plans at the symposium.

"NASA is looking at Earth-to-orbit technologies for missions involving small robotic satellites, human spacecraft and the International Space Station, and we're looking at how we're going to get there — either with a reusable system like the Space Shuttle or with a new system," Sackheim said. "NASA also is researching and developing in-space transportation to



Robert Sackheim delivers opening remarks at the 5th International Symposium on Liquid Space Propulsion in Chattanooga, Tenn., in October.

go beyond a fixed orbit, for orbit-to-orbit transfers and even to someday land on some of our solar system's most distant planets."

Other symposium topics included sessions on system-level effects, component-level processes, material considerations, design environments and injector design technology. The agenda also included an overview of the European space propulsion program, achievements in developing long-life thrust chambers and other liquid rocket engines, and life-span issues for in-space propulsion systems.

Photo by Doug Stoffer, NASA/Marshall Center

Dr. John Rogacki, director of Space Transportation Technology at NASA Headquarters in Washington, D.C., delivered the keynote address. Rogacki directs NASA's Orbital Space Plane and Next Generation Launch Technology programs.

Astronaut Lee Morin, a mission specialist who conducted two spacewalks on STS-110 in 2002, was the symposium's guest speaker. The STS-110 crew delivered and installed the S-Zero Truss — a key "backbone" component for the International Space Station. They also used the Station's robotic arm for the first time to maneuver spacewalkers around the exterior of the Station and were responsible for preparing the orbiting science facility for future spacewalks.

The 5th International Symposium on Liquid Space Propulsion was sponsored by the Marshall Center's Space Transportation Directorate and was supported by the Customer and Employee Relations Directorate. The symposium is held every few years. The next conclave is scheduled in Russia in 2006.

The writer, employed by ASRI, supports the Media Relations Department and the Space Transportation Directorate.

CFC

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percentage of participation. This year's campaign theme is "You Are Not Alone."

Marshall team members who have not yet had an opportunity to participate may do so by giving a one-time contribution by cash or check, or through payroll deductions. For payroll deductions, go to "Inside Marshall" and click on the CFC tab.

This year's CFC chairwoman, Carolyn McMillan, said a "special thanks" goes to those individuals who have already participated.

"The charitable organizations and the individuals they serve really need our help and are sincerely appreciative of what we give," McMillan said.

McMillan encourages Marshall team members to share stories with each other about what CFC means to them. "We are trying

to get people to understand the importance of giving to these charities and the work they do," she said.

One Marshall employee told McMillan that he realized the importance of giving to the Combined Federal Campaign when the Fisher House Foundation offered him support. The Foundation supports military personnel and veterans by offering a home-like environment for families of military personnel who are hospitalized at major military or veterans hospitals. "Fisher Houses" accommodate families faced with the financial hardship of paying for hotels near their hospitalized loved ones.

"My son had an extended stay at Bethesda Naval Hospital and Fisher House was there for me and my family," the Marshall team member said. "During the Iraq War, many families of combat-wounded soldiers are witnessing the incredible hospitality and support found at Fisher Houses."

The writer, an employee of ASRI, is the Marshall Star editor.

Throckmorton

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degree in aerospace engineering from George Washington University in Wash-

ington. He has authored or co-authored more than 50 technical publications on the subjects of aerothermodynamics testing

techniques and entry vehicle aerothermodynamics environment definition.

He has received numerous NASA group and individual awards.

Donaldson appointed Stennis Space Center director

NASA Headquarters release

NASA Administrator Sean O'Keefe has announced U.S. Navy Rear Adm. Thomas Q. Donaldson V as the director of the John C. Stennis Space Center in Mississippi effective Jan. 5, 2004.

"Admiral Donaldson is an experienced leader and manager," O'Keefe said. "He comes to us with a great background in communications, propulsion, Earth observation sciences and remote sensing. Combined with his leadership and management abilities, honed in the naval service, and his record in safety and quality assurance, Tom is a great addition to the One NASA team."

Donaldson was commander of the Naval Meteorology and Oceanography Command, one of the 30 agencies onsite as part of the "federal city" at Stennis. He was selected for rear admiral lower half in February 2000 and took command of the Naval Meteorology and Oceanography Command in November 2000. In April 2001, he was designated Hydrographer of the Navy by the Chief of Naval Operations, representing U.S. naval interests internationally.

Donaldson graduated in 1975 from the U.S. Naval Academy in Annapolis, Md. He earned a bachelor's and a master's degree in physical oceanography and meteorology from the Naval Academy and a master of science degree in National Strategic Studies from the National War College in Washington.



Emmett Given, NASA/Marshall Center

SLEP Safety Panel meets at Marshall

Marshall Center Deputy Director Rex Geveden, left, addresses the Safety Panel for the Space Shuttle Service Life Extension Program (SLEP) last week. NASA Deputy Associate Administrator for Space Shuttle and International Space Station Maj. Gen. Mike Kostelnik chartered the program to assure the long-term safe operation of the Space Shuttle. The program supports NASA's Integrated Space Transportation Plan, which requires use of the Shuttle through at least the middle of the next decade. There are eight panels of NASA team members working with the program that come together for a yearly summit. Geveden is chairman of the Safety Panel, which will present recommendations on improving Shuttle safety to the Space Flight Leadership Council at SLEP Summit II early next year.

His personal awards include two Legions of Merit, three Meritorious Service Medals and three Navy Commendation Medals. He also received four Meritorious Unit Commendations, which represent exceptional teamwork and effort at two shore commands and two ship commands. He is married, and he and his wife, Debbie, have three children.



Photo by Dennis Olive, NASA/Marshall Center

Marshall team helps celebrate Veterans Day

Marshall team members Willie Love, left, and David Guy, right, hold the Marshall banner during last week's Veterans Day Parade in downtown Huntsville. Marching just behind the banner are Lewie Bates of the Space Transportation Directorate and his daughter Cassidy. Several Marshall team members participated in the parade, which included a mockup of the Space Shuttle Discovery and other exhibits.

NASA SES Candidate Development Program open until Friday

The NASA Senior Executive Service Candidate Development Program is accepting applications until Friday.

The program is for GS-14 and GS-15 federal employees who have potential for assuming executive responsibilities. The program can be completed on a part-time basis during a 12-18 month period.

Applicants must apply on "NASA Stars." If a resume is already on file, apply through "Quick Apply." Required supplemental information can be provided in the "Other Information" section of Resume Builder. For information, call Deidra Williams at 544-5721.

Skylab 30th anniversary events bring

by Jonathan Baggs

In 1973 and 1974, three, three-man crews lived and worked aboard America's first space station called Skylab.

Skylab proved that humans could live and work in space for extended periods of time and expanded the knowledge of solar astronomy.

On Nov. 10, eight of the nine Skylab astronauts participated in 30th anniversary events at the Marshall Center, University of Alabama in Huntsville and the U.S. Space & Rocket Center.

On hand for the anniversary events was Dr. George Mueller, former NASA associate administrator for Manned Space Flight. From 1963-1969, he headed NASA's manned space program and led the Apollo moon landing and Skylab projects. He is known as the "Father of the Space Shuttle."

Anniversary events included a program with Marshall team members in Morris Auditorium and the 2003 Von Braun Forum at the University of Alabama in Huntsville, where the astronauts helped dedicate the M. Louis Salmon Library and



The Skylab astronauts, with event moderator Ed Buckbee at far left, participate in a panel discussion at the U.S. Space & Rocket Center.

Photo by Emmett Given, NASA/Marshall Center

its collection of Skylab artifacts. The astronauts also participated in education outreach sessions with area school students and talked to the current crew on the International Space Station. A reception and special IMAX theater event were held in the evening at the U.S. Space & Rocket Center.

Astronauts attending the events included the crew of Skylab 1 -- Paul Weitz and Joe Kerwin (Charles "Pete" Conrad Jr. died in 1999); the crew of Skylab II -- Alan Bean, Jack Lousma and Owen Garriott; and the crew of Skylab III -- Gerald Carr, William Pogue and Edward Gibson.

A surprise guest who traveled across the country to the events was Judy Miles-Inmon. It was her idea, as a high school student, to fly a pair of spiders aboard Skylab to see if they could spin webs in microgravity. The experiment

became one of the most famous conducted aboard Skylab. The writer, an employee of ASRI, is the Marshall Star editor.



Photo by David Higginbotham, NASA/Marshall Center

Dr. George Mueller, left, former NASA associate administrator for Manned Space Flight, is introduced in the U.S. Space & Rocket Center's IMAX theater during an event honoring the Skylab astronauts.



Photo by David Higginbotham, NASA/Marshall Center

Skylab astronauts Alan Bean, left, and Jack Lousma share a light-hearted moment in Morris Auditorium while addressing Marshall team members. Before Skylab, Bean was the lunar module pilot for Apollo 12 and became the fourth man to walk on the Moon.

past, present and future together



Photo by David Higginbotham, NASA/Marshall Center

Dr. George Mueller, left, Alan Bean, center, and William Pogue talk to the current crew of the International Space Station in Marshall's Payload Operations Center.



Photo by Emmett Given, NASA/Marshall Center

Will Bradford, left, an eighth-grade student studying aerospace science at Ed White Middle School in Huntsville, chats with Skylab astronaut Edward Gibson, right, after an education outreach session with area school students. Doreen Forsythe, center, is the aerospace coordinator at Bradford's school.



Photo by Emmett Given, NASA/Marshall Center

Joe Kerwin, left, a member of the Skylab I crew, addresses the audience at the University of Alabama in Huntsville. Marshall team member Jack Stokes, center, and Bob Schwingamer, right, also participated in the discussion.



Photo by Emmett Given, NASA/Marshall Center

Judy Miles-Inmon, center, and her husband Mike Inmon, right, visit with Skylab astronaut Owen Garriott during the anniversary events. Garriott worked with the famous spider experiment that Miles-Inmon, then a high school student, had proposed as a space station experiment.



Photo by David Higginbotham, NASA/Marshall Center

Dr. Leland Belew, retired Skylab program manager at the Marshall Center, cuts the ribbon to open the Skylab collection at the University of Alabama in Huntsville's M. Louis Salmon Library.



Photo by Emmett Given, Marshall Center

Sakeya Hobbs, standing, an eighth-grade aerospace science student at Ed White Middle School in Huntsville, asks a question during an education outreach session with Skylab astronauts broadcast to area school students.

Marshall celebrates American Indian

by Jonathan Baggs

A series of events at the Marshall Center celebrated American Indian Heritage Month.

Marshall Deputy Director Rex Geveden spoke during a Nov. 12 reception in the lobby of Bldg. 4200 on his Cherokee and Chickasaw heritage -- which he became aware of only a few years ago. He said the discovery has compelled him to find out more.

Geveden also spoke of the "Trail of Tears" traveled during the 1830s when the federal government enacted the Indian Removal Act, displacing American Indians from their homes in the Southeast to present-day Oklahoma. Thousands of men, women and children died along the route, part of which parallels highway U.S. 72 West today from Chattanooga, Tenn., to Waterloo.

Marshall team member Jerry Davis, one of the founders of the Alabama-Tennessee Trail of Tears Corridor Association,



Marshall Center Director David King, second from right, and Marshall Deputy Director Rex Geveden, third from right, pose with American Indian dancers during a Nov. 12 celebration in the Bldg. 4200 lobby. The dancers are, from left, Sandi Long, Kevin McElyea, Leah Long and Lynn Long.

successfully lobbied to have the route taken by the Indians marked. In 1996, this overland route was recognized as an Official Historic Route by the National Park Service. The annual Trail of Tears Commemorative Motorcycle Ride, which Davis also helped found, has become one of the biggest annual events in Alabama and attracts more than 90,000 riders.

At a Nov. 17 event at Marshall, NASA

astronaut John Herrington visited the Center to talk about his heritage. He is the first American Indian astronaut and flew on STS-113 in 2002 to the International Space Station.

Herrington joined Davis in presenting a \$15,000 check to Michael Gilbert, director of the Alabama Indian Affairs Commission. The money will be used for scholarships for American Indian students in Alabama, and was raised from donations during the annual Trail of Tears Commemorative Motorcycle Ride.

During the ceremonies, Davis said, "We here at Marshall were the first to explore space and our American Indian ancestors were the first to explore America."

Both events at the Marshall Center featured American Indians performing traditional dances and music.

The writer, an employee of ASRI, is the Marshall Star editor.



Photo by Doug Stoffer, NASA/Marshall Center

Michael Gilbert, left, director of the Alabama Indian Affairs Commission, accepts a \$15,000 check from astronaut John Herrington, center, and Marshall team member Jerry Davis, right. The money will be used to fund scholarships for American Indian students in Alabama. Donations from the Trail of Tears Commemorative Motorcycle Ride raised the scholarship money.



Photo by Emmett Given, NASA/Marshall Center

Sabrina Baker, "Many Feathers," performs during American Indian Heritage Month ceremonies.

Heritage Month with series of events



Photo by Emmett Given, NASA/Marshall Center

Alaura Gilliland of Huntsville, sings "Amazing Grace" in Cherokee. Her father, Jim Gilliland, carved the flute that was carried aboard STS-113 by astronaut John Herrington in 2002. The flute is now in the Smithsonian Institution.



Photo by Emmett Given, NASA/Marshall Center

Leah Long and Kevin, perform an interpretive dance. They are part of an Olympic talent team called the "Young Bloods."



Photo by Emmett Given, NASA/Marshall Center

Kevin Mcelyea performs the men's traditional "sneak up" dance.



Photo by Emmett Given, NASA/Marshall Center

Marshall team members join in the ladies traditional dance.



Photo by Emmett Given, NASA/Marshall Center

Lynn Long, left, performs the men's traditional dance.

Two vying for election to Marshall Exchange Council

from the NASA Marshall Exchange

Two Marshall employees, Teresa Danne, RS40, and George S. Mitchell, QS40, are vying to fill a vacant position on the NASA Marshall Exchange Council.

Danne has worked in the Office of the Chief Financial Officer for the past three years as the audit liaison representative for the Marshall Center. Previously, she worked for nine years as an auditor with the NASA Office of Inspector General.

Mitchell has worked three years as a senior quality assurance specialist in Marshall's Safety and Mission Assurance Office.

The election, to be held electronically, begins Thursday and ends Dec. 12. All civil servants are encouraged to vote.

Ballots will be sent by e-mail or employees may go to <http://ntf->



Photo by David Higginbotham, NASA/Marshall Center

Mitchell

2.msfc.nasa.gov/exchange.nsf. To ensure a fair election, employee badge numbers and UserID numbers are linked to ballots. The candidate with the most votes will win.

The NASA Marshall Exchange Council



Photo by Dennis Olive, NASA/Marshall Center

Danne

develops an annual budget to support various morale and welfare activities on behalf of Marshall team members.

NASA Online Registration System to allow easier employee access to training

from the Human Resources Department

In January, the Marshall Center's training registration is upgrading to the Internet. The upgrade, called NASA On-line Registration System

(NORS), will include a new Single Sign-On page which eliminates the use of Social Security numbers and allows employees to set up one account and password to access both the NORS and SOLAR training sites.

NORS will become the "one stop" registration site for all employee training. As a Web-based system, employees and supervisors will be able to sign up, monitor, approve or deny all training registration and requests from any Internet-ready computer -- 24-hours-a-day and seven-days-a-week.

Watch for more details and upcoming supervisory and employee training sessions on the NORS system. For more information, call 544-7834.

Job Announcements

MS04D0052, Management Support Assistant (Steno/OA). GS-0303-07, Space Shuttle Propulsion Office, Solid Rocket Booster Project. Closes Nov. 21. Contact: Edwina Bressette at 544-8115.

MS04N0053, AST, Aerospace Flight Systems. GS-0861-13, Space Transportation Directorate, Integration Office. Closes Nov. 26. Contact: Jim Bramblett at 544-3398.



Photo by David Higginbotham, NASA/Marshall Center

Making paper airplanes

Derek Adkins, 8, makes a variety of paper airplanes for the 10th annual Great Paper Airplane Contest held earlier this month at the University of Alabama in Huntsville. The contest, open to all age groups, is sponsored by the American Institute of Aeronautics and Astronautics to boost interest in science and math. Contestants competed in categories including aerobatics, time of flight, distance, accuracy and artistic.

Announcements

Tree lighting, Holiday Reception set at the Marshall Center

The Marshall Center's annual tree lighting ceremony will be at 4:30 p.m. Dec. 1 in front of Bldg. 4200. The Holiday Reception will be from 9:30-11:30 a.m. Dec. 3 in the Center Activities Bldg. 4316. This year's theme is "Skies Filled with Wonder" to commemorate 100 years of powered flight and beyond. The reception will feature music, food and door prizes. To be eligible for door prizes, team members are urged to make donations of non-perishable food items for the North Alabama Food Bank and they must be present to win. For more information, call Angela Storey at 544-0632.

'Use or lose' annual leave must be scheduled before Nov. 30

Marshall team members with "use or lose" annual leave must be scheduled before Nov. 30, since the leave year ends Jan. 10. Leave should be submitted through WebTads, by e-mail or by other means but it must be in writing. For more information, see "Inside Marshall" or call Mack Blackman or Amy Rape.

NASA Day set for Saturday at Alabama A&M University

All Marshall employees are invited to the Alabama A&M vs. Arkansas-Pine Bluff football game at 1:30 p.m. Saturday for High School/NASA Day. Free admittance with a Marshall badge is through the pass gate only. For more information, call Rosa Kilpatrick at 544-0042.

Full Cost in Practice course available for Marshall team

Full Cost in Practice course for Marshall team members will be offered throughout November and December. The course focuses on working and managing in a full cost environment. Participants should bring a calculator. Registration is through AdminSTAR. For more information and course schedules, see "Inside Marshall." For questions on registration, call Tina Smith at 544-7834.

Shuttle Buddies to meet Monday

The Shuttle Buddies will meet at 8:30 a.m. Monday at Shoney's Restaurant on University Drive at Memorial Parkway in Huntsville. For more information, call Deemer Self at 881-7757.

'I Think Safe Because ...' badges available Dec. 8

The Marshall Safety and health Action Team will be making free "I Think Safe Because ..." badges from 11 a.m.-1 p.m. Dec. 8 in the lobby of Bldg. 4203. Marshall team members should bring a small photo to be laminated onto the card.

NASA Exchange book fair set Dec. 2-5 at Marshall

The NASA Exchange will sponsor a book fair from 9 a.m.-4 p.m. Dec. 2-5 in the lobby of Bldg. 4203. A variety of hardback books will be offered at discount. For more information, call Candy Kelley at 544-7565.

Marshall barbershop closed Nov. 27-28

Chatterbox Barber and Styling Salon in Bldg. 4203 will be closed Nov. 27-28. It will re-open Dec. 1. For more information, call 881-7932.

Arts, crafts fair will be Monday, Tuesday in Bldg. 4203

The NASA Exchange will sponsor an arts and crafts fair from 9 a.m.-4 p.m. Monday and Tuesday in the lobby of Bldg. 4203. A variety of Thailand crafts and art, including wood bowls and vases crafted from mango wood, plus silver jewelry, silk clothing, quilts, fabric pieces for home decor and other items will be offered at discount.

MARS Christmas Dance to be Dec. 6

The annual MARS Ballroom Dance Club's Christmas Dinner and Dance will be from 6:30-11 p.m. Dec. 6 at the Von Braun Center East Hall. Bands include "The Little Big Band" and the "Nite Owls." Dress will be semiformal

and tables seat eight people. Tickets are limited to 500 people and cost \$25 per person. Tickets are available until Dec. 2 from MARS dance club members Jerry Maxwell at 544-1954, Pat Sage at 544-5427, Bob Williams at 544-3998, Tamara Landers at 544-6818, Linda Kinney at 461-0230, Earl Herndon at 534-7408, Joyce Davis at 880-2270, Hugo Berry at 544-3525 and Woody Bombara at 650-0200. To reserve a table for eight, call Joyce Davis.

Ovation Arts tickets discounted for Marshall team members

The NASA Exchange is offering all Marshall team members and retirees a \$2 discount on all Ovation Arts concerts and musicals. To receive the discount, team members or retirees should present their badge at the time of ticket purchase. Tickets are available at Shaver's Books in Huntsville, "Mulberry Street" in Madison and by calling 468-1632 or 468-1633. Scheduled events include "Giuseppe Verdi's Requiem" at 7:30 p.m. Friday in the Von Braun Concert Hall and the "Annual Christmas Concert" on Dec. 12 and Dec. 13 at 7 p.m. at the Madison Municipal Complex. For more information, go to <http://ovationarts.net>.

HEDS course nomination forms due Monday

Nomination forms for the Human Exploration and Development of Space course are due Monday to Georgann Freeman in CD20. The event, to be held Jan. 12-16, will be at Wallops Flight Facility in Virginia. For more information, see "Inside Marshall."

Tactical Interceptor Design Symposium set for Jan. 16

Tactical Interceptor Design Symposium will be from 8 a.m.-4:30 p.m. Jan. 16 in the Tom Beville Center at the University of Alabama in Huntsville. The event is sponsored by the university and the American Institute of Aeronautics and Astronautics. For more information go to <http://www.eb.uah.edu/ipt/>.

Classified Ads

Miscellaneous

- ★ 2000 Suzuki VS1500LC motorcycle, windshield, saddlebags, engine guard and footrests, low miles, \$6,500. 837-6109
- ★ Lineville rod iron glass top tables, 4 pieces, \$250; Dorian black/gold lamps, \$100 set. 777-0419
- ★ Gateway P4D-66 computer, Intel 83MHz overdrive processor, 540MB memory, 17" monitor, speakers, Modem, \$50. 539-0094
- ★ Yamaha dirt bikes: 1988 XT125, \$400; 1986 TT225, \$450; three helmets, \$40 each. 603-4389
- ★ Okidata printer, Okipage 16n, \$150; HP 1600c color printer w/5 color ink cartridges, \$100. 256-734-7200
- ★ Sears chipper/shredder, 8HP, takes 3" limbs, \$350; Propane shop heater, 45K BTU, \$60. 837-6776
- ★ Gas log fireplace set, 24", Rasmussen Chill Buster 2, \$275. 852-2219
- ★ Infant car seat, \$29; gas furnace; Buck Stove fireplace insert. 256-723-4983
- ★ Little Tykes Victorian kitchen w/dishes, pots, play food items, \$45; Brio train table, \$40. 830-5039
- ★ Windows XP upgrade, unopened, \$50. 656-0546
- ★ Two Men's trench coats, beige, w/removable liners, size 40R & 40L, \$25 each. 890-0755
- ★ 1977 Avion travel trailer, 27', for hunting, camping, or lake lot, \$4,500. 931-427-2059
- ★ Treadmill, variable speed, incline w/ various gauges, mph, bp, etc., upper-body exercise w/tension handles, \$300. 533-2287
- ★ Firm full-size mattress set, \$100. 256-337-4476 lv. msg.
- ★ Registered Paint mare, 6-yrs. old, expecting, \$2,700; Appaloosa mare, 4-yrs. old, \$1,200. 233-4104
- ★ Christmas tree, 7.5', 3 yrs. old w/ Rubbermaid wheeled storage container, \$40. 890-1142
- ★ 1998 Mustang GT, 16x7 rims, 5-114.3mm lug pattern, 5-4.5", complete set,

- \$125. 721-3945
- ★ VOX Cambridge Twin guitar amplifier, chrome stand, dual footswitches, accessories, original box, paperwork. \$400. 306-0700
- ★ Light oak dining room table w/6 chairs, 2 w/arms, \$125. 256-828-6325.
- ★ Two sets 6.5" Pioneer speakers, TS-06196/TS-06096, 30W, stock from Honda CR-V, \$5/speaker. 765-532-4218
- ★ Stair climber exerciser, \$25. 837-8083
- ★ Finding Nemo VHS, bought last week, watched one time, \$12. 658-4893
- ★ Trailer, car hauler, 14', two-axle, ramps, brakes. hauls Isuzu Trooper or 1-ton pickup, \$1,750. 729-8020
- ★ American Bulldog pups, 5G/3B, ready Dec. 2, \$150 each. 1-205-559-3700
- ★ 1989 mobile home, 14x70, 2BR, 2B, well-maintained, upgrades, one-owner, \$9,200. 256-651-5087
- ★ Faux rabbit fur coat, size 2X, worn once, \$85. 256-498-6580
- ★ Bishon Frise, male, 1-year old, intact, AKC with all current shots. 852-2775 after 6 p.m.
- ★ Jazzy Pride electric chair w/extra batteries, \$900; wide wheel chair, \$90. 881-6086
- ★ Palm V accessories kit, Modem, charger, wireless Web, GSM upgrade, carrying cases, \$20. 772-8489
- ★ Lane square coffee and sofa tables, light gray, \$75 each, \$125 both. 772-0266 lv. msg.
- ★ Front row center ticket for 'Jesus Christ Superstar,' Nov. 30, 2 p.m. \$40. 256-498-2028

Vehicles

- ★ 2000 Mazda 626, 4-door, 41K miles, silver w/gray interior, PS/PB/PL, AM/FM/CD cassette, a/c, \$9,950. 256-230-0806
- ★ 1977 Chevrolet truck, V8, 113K miles, camper shell, good paint, \$1,899. 256-858-5552
- ★ 1995 Toyota Corolla, 4-door, aqua, automatic, a/c, AM/FM stereo, PL, 67K miles, \$5,390. 881-2027

- ★ 1986 Toyota, 4x4, \$3,150. 883-0758 after 5 p.m.
- ★ 2000 Dodge Durango SLT, 4x4, 62K miles, new tires and brakes, extended warranty 5/75,000. 828-1585
- ★ 2000 Ford Ranger Sport, extended cab, V6, PS/PB, A/C, AM/FM/CD player, 58K miles, \$10,500. 256-895-0462
- ★ 1999 Saturn, 4-door, 5-speed, A/C, 69K miles, \$3,500. 325-6000
- ★ 1992 Volkswagen GTI, 8V, 2-door hatchback, new tires, 116K miles, red, sunroof, \$2,800. 655-7215
- ★ 1992 Firebird, 305, automatic, green, T-tops, factory CD, 183K miles, one-owner, well maintained, \$4,000. 931-433-8542
- ★ 1982 Jeep CJ7 Laredo, hardtop/bikini top, new engine, warn winch, \$4,500. 883-0795
- ★ 1969 Chevy Caprice, 350/300HP, rebuilt engine, all-power, garage kept, \$6,000 firm. 256-586-5284
- ★ 1997 Geo Prizm, white, 66K miles, 36mpg, \$3,995. 256-653-4406
- ★ 1998 Yukon, 350 Vortec, 4-wheel drive, SLT pkg., rear heat/ac, trailer tow pkg., \$10,550. 476-3380
- ★ 2001 Chrysler Town & Country LXI, sterling blue, power doors/tail gate, 28K miles, \$16,500. 603-5279
- ★ 1991 Explorer XLT, 4-door, leather, 64K miles, new fuel pump, radiator, brakes, etc, \$5,500. 880-6498
- ★ 1986 Corvette, red on red, 4.3 manual transmission, Z51, 86K miles, \$8,800. 881-8446
- ★ 1976 Corvette Sting-Ray, red on red, factory 4-speed, \$6,000. 651-0694
- ★ 1998 Dodge Caravan SE, 3.3L, V6, front/rear a/c, dual doors, 117K miles, \$5,900. 256-536-6785
- ★ 2001 Silverado, PS/PB/AC, auto, tilt, low miles, AM/FM cassette, tow pkg., bed liner, \$13,000. 881-3661
- ★ 1989 Park Avenue Electra, \$1,200; 1983 Buick Skylark, \$500. 859-2686

Wanted

- ★ Fruit tree wood, (apple, peach, cherry), will cut and pick up. 656-2965

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