



MARSHALL STAR

Serving the Marshall Space Flight Center Community

April 24, 2008

Marshall spends green dollars toward green purchasing

By Jessica Wallace

As the first man to set foot on the moon, Neil Armstrong, once said, "It suddenly struck me that that tiny pea, pretty and blue, was the Earth. I put up my thumb and shut one eye, and my thumb blotted out the planet Earth. I didn't feel like a giant. I felt very, very small."

The Marshall Center's Environmental Engineering & Occupational Health Office, part of the Office of Center Operations, is undertaking new initiatives to protect our "pretty and blue" Earth in response to a new Executive Order 13423, "Strengthening Federal Environmental, Energy and Transportation Management." Signed by President Bush in January 2007, the order requires the federal government to participate in green purchasing, which means buying products with recycled or biobased — a renewable product made from plant or animal material — content.

"This type of purchasing lessens or reduces the adverse effects on human health and the environment, keeping our Earth and its inhabitants happy," said Roger Bunnell, Marshall's recycling

See Green on page 4



Courtesy photo

Brian Roberson, cooperative education student in the Environmental Engineering & Occupational Health Office, prepares to make some copies with recycled paper.

Expedition 16 Soyuz lands safely in Kazakhstan



NASA

Expedition 16 Commander Peggy Whitson waves from the top of the airplane steps as she arrives at Chkalovsky airport in Star City, Russia, along with Flight Engineer and Soyuz Commander Yuri Malenchenko and South Korean So-yeon Yi.

NASA Headquarters

NASA astronaut Peggy Whitson, the first female commander of the International Space Station, returned to Earth at approximately 3:30 a.m. CDT April 19, ending a mission during which she conducted five spacewalks and set a new record in American spaceflight.

Whitson and Russian cosmonaut Yuri Malenchenko, members of the 16th crew to live and work on board the station, safely landed their Soyuz spacecraft in the steppes of Kazakhstan. Spaceflight participant So-yeon Yi also returned to Earth on board the Soyuz. The landing was approximately 295 miles from the expected landing site, delaying the recovery forces' arrival to the spacecraft by approximately 45 minutes.

Whitson, 48, has accumulated more time in space than any U.S.

See Expedition 16 on page 6

High school rocketeers to display, launch high-powered creations Friday and Saturday

The 2007-2008 Student Launch Initiative will conclude this weekend, as 16 student teams from middle schools and high schools in 10 states send their classroom creations soaring into the skies over North Alabama.

Marshall Center team members will have an early opportunity to see the fruits of the students' labor. The student teams will be at Marshall Friday, April 25, displaying their sophisticated rockets from 10:45 a.m. until 12:45 p.m. in the lobbies of Buildings 4200 and 4203.

The students will launch their rockets Saturday, April 26, from 9 a.m. to 5 p.m. at Bragg Farms in Toney, Ala. The launch, a free event, is open to the public.

To get to Bragg Farms from downtown Huntsville, take U.S. Highway 231/431 North to Grimwood Road, approximately 5 miles north of Bob Wade Lane. Turn left on Grimwood Road. Drive 2.5 miles to Bragg Farms on the left.

NASA's Student Launch Initiative challenges student teams to build their own rockets, complete with working science payloads, then launch them to an altitude of 1 mile and retrieve them intact. The annual event, managed by the Marshall Center's Academic



Emmett Given/MSFC

Enthusiastic student rocketeers from Vanderbilt University in Nashville haul their high-powered creation to the launch pad April 19 at the University Student Launch Initiative held at Bragg Farms in Toney, Ala. Eleven college and university teams competed in the event, sponsored by ATK Launch Systems and managed by the Marshall Center. A winner will be announced in May once all on-board science experiment results are calculated.

Affairs Office, gives students practical experience managing complex scientific research and conducting aerospace and engineering projects from drawing board to launch pad.

Middle and high school teams are eligible to participate if they placed among the top 25 finalists in the most recent Team America Rocketry Challenge, a nationwide, annual rocket competition sponsored by the Aerospace Industries Association and the National Association of Rocketry.

For launch day weather information, call 961-1337.

Jaiwon Shin to speak at Asian Pacific American program



Jaiwon Shin

Dr. Jaiwon Shin, associate administrator of NASA's Aeronautics Research Mission Directorate, will be the keynote speaker at the Marshall Center's annual Asian Pacific American Heritage Month program at 10:30 a.m. on May 13 in Morris Auditorium, Building 4200.

The theme of the 2008 celebration is "Leadership, Diversity and Harmony — Gateway to Success."

All Marshall employees and onsite contractors are invited. A reception will immediately follow the program event.

Additional program activities will be announced at a later date. Contact Dr. Alan Chow, chairman of Marshall's Asian Pacific American Advisory Group, at 544-7107 or alan.chow@nasa.gov for details.

This month in history ...

NASA marks its 50th anniversary this year. The new agency was created on Oct. 1, 1958. Two years later, NASA created the Marshall Center in Huntsville. On April 27, 1961, 47 years ago this week, the center launched an S-15 Astronomy Satellite from Cape Canaveral, Fla., that studied astronomy. To learn more about the mission go to http://inside.msfc.nasa.gov/announcements/S-15_Astronomy_Satellite2.pdf.



Marshall Television Services garners two 'Telly Awards'

Vying with video production professionals from 50 states and five continents, the Marshall Center's in-house video production team, Marshall Television Services, has been awarded two trophies in the 28th annual "Telly Awards" competition.

Founded in 1978, the Telly Awards honor excellence in local, regional and cable TV commercials and non-broadcast video and TV programs.

Marshall Television Services won Bronze Tellys for two video productions seen on NASA TV and the NASA Portal online.

"Chandra's Universe" is a 24-minute documentary profiling the work of the orbiting Chandra X-ray Observatory, managed by the Marshall Center and launched to space in 1999 to peer into the depths of the cosmos and shed new light on our place in the universe. The production team for the video included Marshall Television Services team members Mick Speer, James Bilbrey, Sarah Milligan, Tyson Eason and Dusty Hood, all Honeywell Technical Solutions contractors supporting the UNITEs contract at Marshall.

Also honored was a video spotlighting the work at the Marshall

Center's International Space Station Payload Operations Center — the science and communications hub for the orbiting research station. The video offers a behind-the-scenes tour of the command post, which is operational 24 hours a day, seven days a week, linking scientists around the world with their experiments on the station. The video production team included Honeywell contractors Bilbrey, Milligan, Eason, Hood, Bill Hubscher and Lee Erickson, supporting Marshall Television Services. The Payload Operation Center video was hosted by Lori Meggs, a media specialist with AI Signal Research Inc., supporting Marshall's Public and Employee Communications Office.

"The 28th annual Telly Awards received more than 14,000 entries from some of the very best in our business," said George Baker of Honeywell, manager of Marshall Television Services. "The products produced by our UNITEs team in support of our NASA customer are truly exceptional."

Each year, the Tellys are judged by top advertising and video production professionals from around the country who are past recipients of a Telly Award.

For more information about Marshall Television Services, visit <http://marshalltv.msfc.nasa.gov>.



Marshall team invited to engineering conference in Huntsville May 12-14

Marshall Center team members are invited to sign up to attend the 6th annual Southeastern Software and Systems Engineering Conference and Exhibition, to be held May 12-14 at the Von Braun Center in Huntsville.

The theme of the conference is "Next Generation Technologies: Opportunities and Challenges." The \$395 attendee registration fee is non-refundable after May 2.

Dr. John Horack, manager of the Science & Mission Systems Office at Marshall, will be the luncheon keynote speaker May 13. His address is titled "50 Cents, 50 Years:

Finding the Value of the Space Program on the Backs of Your Quarters."

The conference will spotlight new technologies that have evolved with unprecedented advances in research, methods, materials and design. Local, national and international subject matter experts from government, industry and academia will participate as speakers, panelists and workshop leaders.

Marshall employees can go through SATERN to register. They should fill out an external training request, form 1735. NASA contractors should consult their management for guidance on registration and leave.

For more information about the conference, visit <http://www.se3conference.com>.



John Horack

A special thanks from Office of Human Capital and Academic Affairs Office

The Academic Affairs Office would like to express our sincere thanks and gratitude to all the Marshall Center employees who

willingly volunteered service and time for the 15th NASA Great Moonbuggy Race held April 4-5.

The manager and staff appreciate the dedication, determination and exemplary support. Thanks again for helping to make this year's race a success.

Continued from page 1

and green purchasing coordinator. "In respect of this executive order, our office is working to help the center enhance its sound environmental program to decrease the use of chemicals and toxic materials to prevent pollution."

To make sure Marshall is on the "green" path to meet current federal, state and local environmental laws and regulations, the Environmental Engineering & Occupational Health Office is conducting activities to bring attention to this ordinance. "This

year's April 22 Earth Day theme was green purchasing," said Bunnell. "We had an environmental expo featuring local vendors who spoke about new environmental practices and products that will help toward a healthier planet. To go along with this subject,

this month's Safety, Health and Environmental focus topic was on recycling and green purchasing. Without recycling, green purchasing wouldn't be possible."

Other activities being conducted by the Environmental Engineering & Occupational Health Office include:

- Revising the Marshall Work Instruction 8540.2 "Affirmative Procurement Program for Environmentally Preferable Products" to include new biobased requirements and the new Executive Order 13423 requirements
- Conducting recycling and green purchasing inspections throughout the center
- Auditing center organizations to ensure participation of green purchasing
- Working with the Marshall custodial contractor to set up a new recycling program for magazines and catalogs
- Working with the Facilities Management Office in the Office of Center Operations to determine ways to update construction specifications with the requirements of Executive Order 13423
- Updating the recycling Web page on "Inside Marshall" to provide more information to employees — http://co.msfc.nasa.gov/ad10/about_recycling.html

"Enable the Marshall mission by providing environmental compliance and stewardship and a safe and healthful workplace."
— *Marshall Environmental Policy*

"In addition to these activities, we're responsible for making sure the center is purchasing materials from the recycled and biobased products lists," said Malene McElroy, environmental engineer in the Environmental Engineering & Occupational Health Office.

The list includes such recycled products as for parks and recreation, transportation, vehicular construction landscaping, nonpaper office supplies and paper. Biobased products may include bedding and towels, diesel fuel additives, mobile equipment hydraulic fluids, penetrating lubricants and roof or water tank coatings.

"If you're unable to purchase from these required lists, you must submit a waiver to our office for approval," added McElroy. Justifications for waivers include inadequate competition, unreasonable price, lack of quality/performance specification or standard, and unavailable within a reasonable time frame.

Contributing in small ways helps in long run

What can Marshall employees do to contribute to a healthier environment? After finishing that bottled water or can of soda, drop it in the appropriate labeled recycling container in various locations around the center. Empty toner cartridge? Don't just toss it in the trash. Look for a container made specifically for proper disposal so it can be recycled and used again. And common white office paper? Place it in a recycling bin and help save a tree.

"Believe it or not, doing this as often as you can really helps the Earth — our home," said McElroy. "We are on a mission to go to other planets. If we take care of ours first, we can carry these habits when we come face to face with the outside world."

For more information about green purchasing, go to <http://inside.msfc.nasa.gov/mtm/2008/030308-3.pdf>. For more information about the services provided by the Environmental Engineering & Occupational Health Office for a healthier planet, go to <http://co.msfc.nasa.gov/ad10/>.

Wallace, an ASRI employee and Marshall Star editor, supports the Office of Strategic Analysis & Communications.

Obituaries

John W. Hill, 80, of St. Louis, Mo., died Feb. 19. He retired from the Marshall Center in 1989 as an aerospace engineer. He is survived by his wife, Eleanor Hill.

Julian Sullivan Hamilton Sr., 80, of Huntsville died April 13. He retired from the Marshall Center in 1983 as an aerospace engineer. He is survived by his wife, Edna Fay Standefer Hamilton.

Classified Ads

To submit a classified ad to the Marshall Star, go to Inside Marshall, to "Employee Resources," and click on "Employee Ads — Submit Ad." Ads are limited to 15 words, including contact numbers. No sales pitches. Deadline for the next issue, May 1, is 4:30 p.m. Thursday, April 24.

Miscellaneous

Samsung 32-inch LCD HDTV, three HDMI inputs, remote, owner's manual, \$700. 503-9464

KitchenAid clothes dryer, \$75. 603-3055

Air hockey table, \$100; entertainment center, \$350; oak clawfoot table, \$350; four chairs, \$75. 651-9744

Sectional sofa with three recliners, two tables with drawers, \$600; dining table, four chairs, \$100. 773-5051

Twin bunk over twin trundle bed, desk, drawers, \$400; upholstered chairs, \$200. 536-9369

Maple Hill Cemetery, unrestricted, three spaces, \$1,800 each. 552-0998

Valhalla Masonic Garden, four plots, \$4,400 plus transfer. 881-9421

Iron fencing, 70 feet by 5 feet tall. 508-8269

Huntsville Memory Garden, Garden of Devotion, six adult spaces, \$2,195 each, negotiable. 859-4002

Rolling computer desk, \$15; Kenmore Elite washer, needs hose, leak repaired, \$35 obo. 325-2919

Two tickets, Rodney Carrington concert, May 1, Von Braun Center, \$100 for both tickets. 751-2188

Wedding dress, size 16/18, veil, beaded headpiece, bridal slip, can e-mail pics, \$200. 426-7862

1995 Ariens 32-inch riding lawnmower, mulch kit, \$350. 721-7351

CKC-registered Chihuahua puppies; two males, \$150; one female, \$200; one male, \$400. 778-8562

Maytag large capacity washer, dryer, \$400 for both. 426-4325

Broyhill kitchen hutch, glass sides, doors, shelves, \$525; wood kitchen table, four chairs, \$375. 975-1667

Microfiber three cushion sofa, reclines on each end, light beige, \$400. 883-1096

Craftsman lawn tractor, 42-inch deck, Kohler engine, \$475; Toro 6.5 HP self-propelled mower, \$75. 714-3742

Dining room table, chairs; kitchen table, chairs. 489-1673

Ten prom dresses, formals, sizes 3-6, 14, \$20-\$60. 722-9989

Vehicles

2007 Toyota Corolla CE, cruise, auto locks/windows, keyless entry, 16k miles, \$13,500. 497-4484

2006 Honda CRF230F dirt bike, \$2,150. 776-4741

2004 R-Vision Motorhome, 33-foot Class-A, workhorse chassis, www.thewillettfamily.com/rv, extended warranty, \$56,000. 883-7021

2004 Kawasaki Ninja 500R Galaxy, silver/black, all records, upgrading, \$3,000. 797-2668

2003 Jeep Cherokee Laredo, 2WD, 57k miles, \$11,500. 655-6701

2003 PT Cruiser, GT Turbo, black, extras, 43k miles, \$11,900. 353-2724

2002 5th Wheel camper, sleeps eight, A/C, heat, bath, refrigerator/freezer, microwave, stereo, \$14,995. 721-1260

2001 Ford Windstar SEL van, loaded, options, 82k miles, \$8,550. 658-1662

2001 Chevy Tahoe, V8, pewter, auto doors/windows, \$10,500. 497-4116

1999 Toyota 4-Runner Limited Edition, white, brown interior, sunroof, CD, A/C, \$7,000. 694-1260

1998 Ford F-150 XL, 4.6L V8, 2WD, automatic, 157k miles. 679-1440.

1997 Mastercraft Prostar 190 ski boat, 275 HP, purple/teal, gray interior, white hull. 426-9776

1991 34-foot Allegro Bay, all options, \$18,000. 509-9612

Wanted

RV rental for trip to Colorado, one week in July, must sleep four. 883-9744

20-30 gallon aquarium, cover, light, guaranteed not to leak. 859-9165

Heavy bag for boxing workout, 40-80 pounds. 885-2293

Double-seated side-by-side stroller. 479-4926

Chain-link gate, 4 feet high by 5 feet wide. 655-6348

Call for 2008 Software of Year Award under way

The annual call for the 15th Annual NASA Software of the Year Award is under way. This prestigious award is designed to give recognition to developers of exceptional software created for or by and owned by NASA. The deadline is May 15. Go to "Inside Marshall" under "Upcoming Events" for details. For questions, contact James McGroary at 544-0013 or Caroline Wang at 544-3887.

Shuttle Buddies to meet April 28

The Shuttle Buddies will meet at 9 a.m. April 28 at Mullins Restaurant on Andrew Jackson Way in Huntsville. For more information, call Deemer Self at 881-7757.

Expedition 16

Continued from page 1

astronaut in history. She and Malenchenko, who launched to the station on Oct. 10, 2007, spent 192 days in space. This was Whitson's second flight to the station. She served almost 185 days as a flight engineer on the Expedition 5 crew, which launched June 5, 2002, and returned to Earth Dec. 7, 2002. Whitson has totaled 377 days in space during two missions. On April 16, she surpassed the 374-day record set by astronaut Mike Foale during his six flights.

Malenchenko, 46, a Russian Air Force colonel, completed his third long-duration spaceflight. He spent 126 days on board the Russian space station Mir in 1994, and commanded Expedition 7, spending 185 days in space in 2006. He also was a member of the STS-106 crew of shuttle Atlantis on a 12-day mission to the station in 2000. He has accumulated 515 days in space during his four flights. That is the ninth highest total of cumulative time.

The Expedition 16 crew worked with experiments across a wide variety of fields, including human life sciences, physical sciences and Earth observation. Many of the experiments are designed to

gather information about the effects of long-duration spaceflight on the human body, which will help with planning future exploration missions to the moon and Mars.



Commander Sergei Alexandrovich Volkov and cosmonaut Oleg Dmitrievich Kononenko of the 17th International Space Station crew docked their Soyuz TMA-12 with the orbiting laboratory's Pirs Docking Compartment at 7:57 a.m. CDT April 10, marking the beginning of their six-month stay. At right, the Soyuz spacecraft approaches the space station, carrying Volkov, Kononenko and So-yeon Yi, a South Korean spaceflight participant. Volkov and Kononenko will spend six months on the station. Yi returned to Earth with Expedition 16 crew members Commander Peggy Whitson and Flight Engineer Yuri Malenchenko in their Soyuz on April 19.

The Expedition 16 crew members undocked their Soyuz spacecraft from the station at 12:06 a.m. The deorbit burn to slow the Soyuz and begin its descent toward the Earth began at 2:40 a.m.

Before undocking, Whitson and Malenchenko bid farewell to the new station crew, Expedition 17 Commander Sergei Volkov and flight engineers Oleg Kononenko and Garrett Reisman. Volkov and Kononenko launched to the station April 8. They were accompanied by Yi who flew under a commercial contract

with the Russian Federal Space Agency. Reisman came to the station on board shuttle Endeavour on the STS-123 mission, which launched March 11.

For information about the International Space Station, go to <http://www.nasa.gov/station>.

For more information about astronaut Peggy Whitson, go to <http://www.jsc.nasa.gov/Bios/htmlbios/whitson.html>.

MARSHALL STAR

Vol. 48/No. 30

Marshall Space Flight Center, Alabama 35812
(256) 544-0030
<http://www.nasa.gov/centers/marshall>

The Marshall Star is published every Thursday by the Public and Employee Communications Office at the George C. Marshall Space Flight Center, National Aeronautics and Space Administration. Classified ads must be submitted by 4:30 p.m. Thursday, and other submissions no later than 5 p.m. Friday to the Marshall Public and Employee Communications Office (CS20), Building 4200, Room 102. Submissions should be written legibly and include the originator's name. Send e-mail submissions to: intercom@msfc.nasa.gov. The Star does not publish commercial advertising of any kind.

Manager of Public and Employee
Communications — Dom Amatore
Editor — Jessica Wallace



U.S. Government Printing Office 2008-723-022-20146

PRSR STD
US POSTAGE PAID
HUNTSVILLE, AL
PERMIT NO. 298