



MARSHALL STAR

Serving the Marshall Space Flight Center Community

Oct. 16, 2008

Expedition 18 crew docks with International Space Station

From combined reports

A new crew that will live and work aboard the International Space Station rocketed into orbit early Oct. 12 aboard a Soyuz spacecraft. U.S. astronaut E. Michael Fincke, Russian cosmonaut Yuri Lonchakov and U.S. computer game developer Richard Garriott lifted off from the Baikonur Cosmodrome in Kazakhstan at 2:01 a.m. CDT. The crew docked their Soyuz TMA-13 to the Earth-facing port of the Zarya module at 3:26 a.m. Oct. 14.

Fincke, the only American to launch twice on a Soyuz, will serve as commander of the six-month Expedition 18 mission. The mission's main focus will be preparing the station to house six crew members on long-duration missions.

Expedition 17 Commander Sergey Volkov and spaceflight participant Garriott became the first children of previous space fliers to greet each other in orbit. Garriott is the son of former NASA astronaut Owen Garriott, who was a member of the Skylab-3 crew in 1973. Volkov is the son of veteran cosmonaut Alexander Volkov, who flew three Soyuz missions.

Garriott will spend nine days on the station under a commercial



The crew members of Expeditions 17 and 18 participate in an interview aboard the International Space Station.

agreement with the Russian Federal Space Agency. He will return to Earth on Oct. 23 with Volkov and Expedition 17 Flight Engineer Oleg Kononenko, who have worked aboard the station since April 10.

See Expedition 18 on page 6

Rallying to help others

Marshall to come together for CFC rally Oct. 23

By Jessica Wallace

Expect to hear loud cheers and snappy music Oct. 23 from Morris Auditorium in Building 4200 at the Marshall Space Flight Center.

Marshall will hold its Combined Federal Campaign rally beginning at 11 a.m., with the Madison County High School cheerleaders and the Lee High School marching band helping to jazz up the festivities. Lunch will follow in the 4200 lobby.

The CFC is an annual initiative by federal and military personnel

See CFC rally on page 2



NASA Administrator Michael Griffin to hold all hands Oct. 21 at Marshall

NASA Administrator Michael Griffin will hold an all-hands meeting from 10 to 11 a.m. Oct. 21 at the Marshall Space Flight Center in Building 4316. Marshall team members attending the meeting will have the opportunity to ask questions.

The event will be broadcast live on desktop and centerwide TV once the building has reached capacity. Buses will be available to bring Marshall team members to and from the meeting. Please see Inside Marshall for the bus schedule.



Michael Griffin

Tennessee School for the Blind students to visit Marshall

Twenty-one students from the Tennessee School for the Blind in Nashville will visit the Marshall Space Flight Center on Oct. 21.

Several activities are planned for the annual event, including a briefing about the space shuttle and Constellation programs, a tour of the Propulsion Research and Development Laboratory and a hot-gas firing in the test area. The students and their chaperones also will have a chance to explore the U.S. Space & Rocket Center and

the new Davidson Center for Space Exploration.

The Tennessee School for the Blind serves kindergarten through 12th-grade students and the blind and visually impaired community across the state. For more information, visit <http://www.tsb.k12tn.net>.

For more information about the visit, e-mail Allan Day, equal employment manager for disability programs in the Marshall Center's Office of Diversity and Equal Opportunity, at allan.v.day@nasa.gov.

CFC rally

Continued from page 1

to raise money for charities. The Marshall Center has set a goal of \$600,000 for its campaign this year, which began Oct. 6 and runs through Dec. 12. Marshall's campaign is part of the Tennessee Valley CFC campaign — a joint effort with the Army's Aviation and Missile Command and other federal agencies at Redstone Arsenal and in surrounding Alabama and Tennessee counties. The overall goal for the 2008 Tennessee Valley CFC is \$2 million.



Violet Parker Edwards

The keynote speaker for Marshall's rally will be Violet Parker Edwards, chief executive officer of Christmas Charities Year Round, a non-profit Madison County organization partially supported by CFC donations. Founded in 1949, the organization provides food, clothes, toys and toiletries to those in need in Madison County. Edwards will talk about the needs of families across the Tennessee Valley and how donations made to CFC can impact and improve lives.

Also speaking will be Lindsey Jones, the 12-year-old daughter of Terry Jones, a Marshall management support assistant in the Engineering Directorate's Solid Propulsion Systems Division. One month before her fourth birthday, Lindsey was diagnosed with rhabdomyosarcoma, a rare form of cancer. It is a fast-growing, highly malignant tumor that occurs mainly in teenage boys. After receiving chemotherapy for a year and six months of radiation, Lindsey has been in complete remission for seven years. Throughout this experience, she has been a beneficiary of the assistance and work of CFC agencies, including the Make-A-Wish Foundation and Give Kids the World. Both organizations grant wishes to children with life-threatening medical conditions.

Rally competition

Each rally attendee will receive a ticket for door prizes. Marshall team members wearing a yellow CFC shirt will receive a second ticket. Marshall organizations will be divided into five teams, and the team with the most employees wearing CFC shirts will be announced and recognized in the Oct. 30 Marshall Star. Teams will be divided by colors:

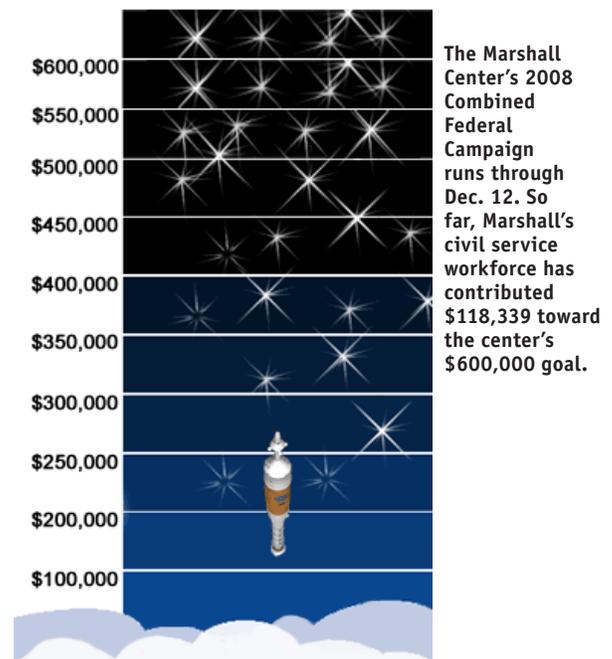
- Green team- DE, ER, IS, MP
- Red team- ED01, ED02, ED03, ET, JP, RS, VP
- Blue team- EE, OS, ES, QD
- Orange team- AS, EM, EO, PS
- Yellow team- CS, DA, DD, DM, EV, HS, LS

To volunteer time or other assistance to Christmas Charities or other organizations supported by CFC, visit <http://cfc.msfc.nasa.gov/csd.html> and click Community Service Days. Employees can spend a day putting their special skills to work at these local non-profit agencies, helping people in the community. Marshall team members also can take bus tours to selected charitable organizations to understand how they aid those in need. To sign up for a tour, visit the Web site above and select Bus Tour.

Buses will be available to bring Marshall team members to and from the rally. Please see Inside Marshall for the schedule.

For more information or to make a donation, visit <http://cfc.msfc.nasa.gov>.

Wallace, an AI Signal Research Inc. employee and the Marshall Star editor, supports the Office of Strategic Analysis & Communications.



Ares V scale-model wind tunnel test gives first look at ascent conditions

By Amie Cotton

Engineers at the Marshall Space Flight Center are taking the first steps in developing the Ares V heavy cargo launch vehicle — the heavy lifter of America's next-generation space fleet for the Constellation Program. Though the first test flight for Ares V is slated for 2018, aerodynamic testing already is under way at the Marshall Center.

Marshall's Spacecraft and Vehicle Systems Department engineers have designed a 0.331-percent scale model of the Ares V — approximately 15.2 inches long — to conduct wind tunnel tests in Building 4732. Put in perspective, the Ares V vehicle will be approximately 381 feet — taller than a 38-story building.

The stainless steel and aluminum model will be tested under simulated flight conditions to provide the Ares V team with critical aerodynamic data. The goal of the test is to evaluate the aerodynamics of the vehicle in order to characterize the ascent trajectory of Ares V and help the Ares V team determine basic requirements for guidance, navigation and control.

Testing includes 100 blows, or runs, of the model at various angles to get approximately 600 discrete conditions, or specific aerodynamic data points, of the air flow around the vehicle. Results from the testing will be entered into a database to help the Ares V team better understand how the vehicle will respond to various flight conditions during ascent, stresses on the vehicle, drag loss and other aerodynamic factors.

"This is the first of many model tests to provide the aerodynamic data necessary to build a new vehicle that will deliver large-scale

hardware to space safely and reliably," said John Blevins, aerodynamics team lead in the Spacecraft and Vehicle Systems Department.

The 0.331-percent Ares V model scale used for the wind tunnel tests is approximately the same scale used in the space shuttle and Saturn V development efforts. Both sets of wind tunnel tests on small-scale models for those spacecraft provided preliminary data similar to that of large-scale testing. In the 1950s, America's German rocket team designed the wind tunnel test facility at Marshall to determine aerodynamic factors of slender body vehicles, including missiles and space access vehicles.

Combining proven technology from NASA's first 50 years in space with innovative, modern science and technology, Blevins believes these tests will provide the Ares V team with a first look at how the vehicle will perform during ascent and set the trajectory profile for payload to orbit.

Cotton, an AI Signal Research employee, supports the Office of Strategic Analysis & Communications.



David Higginbotham/MSFC

Henry Brewster, left, and Victor Pritchett from the Spacecraft and Vehicle Systems Department prepare the Ares V model for wind tunnel testing.

'Focus on Marshall' highlights new external tank design and International Space Station Backup Control Center

By Lori Meggs

What makes the space shuttle's external tank new and improved? Viewers of the October episode of Marshall Space Flight Center's monthly video program "Focus on Marshall" will find out.

"Focus on Marshall" goes on location to the Michoud Assembly Facility near New Orleans for a first-hand look at the changes made to the new tanks. External Tank Project Manager John Chapman explains how the modifications will improve performance and flight safety.

Also in this episode, viewers will go inside Marshall's Backup

Control Center for the International Space Station. The Backup Control Center was activated for the first time last month when Hurricane Ike forced the evacuation of the Johnson Space Center in Houston. The new facility at Marshall allows flight controllers to come to Huntsville to perform the same functions for the space station as if they were in Houston.

"Focus on Marshall" is broadcast on Marshall TV and will air Oct. 21 and 23 at 11 a.m., noon and 1 p.m. It also is available on NASA TV, Inside Marshall and on the NASA Portal.

Meggs, an AI Signal Research Inc. employee, supports the Office of Strategic Analysis & Communications.

NASA Exchange nut sale pre-orders under way

The NASA Exchange is offering Marshall team members and retirees the opportunity to purchase nuts through pre-orders. Orders will be accepted through Oct. 24. The expected delivery date is Nov. 17.

The order form should be completed and mailed or delivered, along with payment, to the NASA Exchange Space Shop, Attn: Sherry, HS01XX, Bldg. 4203, Huntsville, AL 35812.



Marshall Exchange

“NASA EXCHANGE ANNUAL NUT SALE”

Order Form

NAME: _____ Office Symbol: _____

Office Phone: _____ Email Address: _____

SPECIFY QUANTITY AND TOTAL PRICE

Product (16 oz. Unless noted):	QUANTITY	TOTAL PRICE
Pecan Halves @ \$7.00.....	_____	\$ _____
Raw Peanuts @ \$2.00.....	_____	\$ _____
Chocolate Covered Pecans @ \$7.50.....	_____	\$ _____
White Chocolate Pecans @ \$7.50.....	_____	\$ _____
Roasted & Salted Pecans @ \$7.50.....	_____	\$ _____
Crunchy Praline Pecans @ \$7.50.....	_____	\$ _____
Natural Almonds (12 oz.) @ \$3.50.....	_____	\$ _____
Slivered Almonds (11 oz.) @ \$3.50.....	_____	\$ _____
Pistachios @ \$7.25.....	_____	\$ _____
Cashews @ \$7.25.....	_____	\$ _____
English Walnuts @ \$7.00.....	_____	\$ _____
Totals		\$ _____

****PAYMENT MUST ACCOMPANY ORDER****

Make Checks Payable to: NASA Exchange - MSFC

DEADLINE FOR ORDERING IS: October 24, 2008 to ensure delivery before Thanksgiving.

PLEASE MAIL CHECK & ORDER TO: NASA EXCHANGE SPACE SHOP, ATTN: Sherry, HS01XX BLDG. 4203, Huntsville, AL 35812. Payment may be made by Cash, VISA, MasterCard, Discover or American Express by taking your order form to the NASA Exchange Space Shop located in Building 4203.

Received by: _____ Date _____

MSFC One-Time Form ()



In celebration of NASA's 50th anniversary

Fifty years ago this week on Oct. 14, 1958, NASA requested the transfer of space activities from the Army's Redstone Arsenal in Huntsville to NASA. The process would culminate two years later in the creation of the Marshall Space Flight Center in July 1960.

Classified Ads

To submit a classified ad to the Marshall Star, go to Inside Marshall, to "Employee Resources," and click on "Marshall Star Ad Form." Ads are limited to 15 words, including contact numbers. No sales pitches. Deadline for the next issue, Oct. 23, is 4:30 p.m. Thursday, Oct. 16.

Miscellaneous

- Maytag Neptune front-load washer/dryer, white, \$500. 425-1762
- Black leather sofa, chair, \$1,300 obo. 520-6442
- Frigidaire deep freezer, \$100. 684-9151
- AKC English Bulldogs, 6 weeks old, white, fawn, brindle, first shots, \$1,500 each. 651-3802 or 423-6916
- Bearded Dragon pair, male, female, tank, all supplies, \$100. 656-4211
- 1950s collectable camera, 35mm Nikon A-2, price negotiable. 777-8229
- Mirage speakers, two OM-7 towers, two Omnisat satellite speakers, stands, \$1,500. 679-2165
- Bedside commode, free standing, can convert to use with toilet, \$50. 931-425-0163
- Lebaz ladies genuine black leather jacket, large, \$140. 734-1777
- Daniel Moore print, "The Tradition Continues," 5650/19920, \$185. 883-8257
- Yamaha WRB650 VXR Jet Ski, galvanized trailer, \$950. 325-2919
- Garbage compactor, residential, brown, \$300 obo. 852-5595
- Ceiling fan, \$15. 464-9408
- Panasonic home theater system, 5-disc DVD/CD, five speakers, subwoofer, \$150; CalSpa hot tub, \$2,800. 489-8031

- Garden/landscaping edger, 3.5HP engine, \$110 obo. 461-3625
- Collectable/special edition Barbies, never removed from boxes. 232-9143
- Nine golf irons, Ping Eye2 Greendot, 3-SW, right handed, steel stiff shafts, \$190. 683-3397
- Circular dinette table, four swivel chairs, \$50; Titleist "Scotty Cameron" Newport 2 putter, \$275. 881-1249
- Bichon Frise puppies, shots, wormed, \$500 male, \$600 female. 931-433-7674

Vehicles

- 2008 Ford Mustang, white, 18k miles. 338-9840
- 2007 Mazda 3, galaxy gray, sunroof, spoiler, 27k miles, \$15,000. 425-3727
- 2006 BMW 325i, white/tan, loaded, 38k miles, \$22,900. 883-6894 or 468-6894
- 2006 STS Cadillac-Luxury, pearl white, tan leather, loaded, factory warranty, 34k miles, \$26,500. 353-0933
- 2005 Ford Taurus Five Hundred, AWD, leather, moon roof, pueblo gold, 44k miles, \$14,500. 975-1667
- 2004 R-Vision Class-A motor home, slide, workhorse chassis, extended warranty, www.thewilletfamily.com/rv, \$56,000. 883-7021
- 2002 Fleetwood Expedition motor home, 300HP, Cummins diesel, Allison transmission, take up payments. 431-9898
- 2002 Dodge Grand Caravan ES minivan, DVD, leather, chrome wheels, electric sliding doors, \$5,200. 852-6952
- 2001 Dodge Ram 1500, quad cab, blue, 5.9L V8, auto, power, 76k miles, \$7,900. 476-0870
- 2001 Yamaha TTR-90 dirt bike, three-speed, automatic, kick start, \$750 obo. 351-6992
- 1997 Mercury Mountaineer, V8, loaded, 156k miles, \$3,200. 883-0795
- 1996 Corvette, black, auto, 25 MPG, 72k miles, \$12,250 obo. 723-8877

- 1994 Honda CB 1000, 32k miles, \$3,800. 503-3105
- 1992 Jeep Wrangler 4x4, auto, six cylinder, 145k miles, \$4,100 obo. 520-1807
- 1991 Starcraft pop-up camper, sleeps six, air conditioning, refrigerator, stove, \$1,800 obo. 895-6459
- Tractor, power steering, 36HP, 6-foot front-end loader, 6-foot box blade, three cylinder diesel, \$6,000. 683-8409

Free

- Fire wood from already down trees, you cut/haul. 325-0085
- Two 7-year-old orange/white cats to good home. 348-0391

Wanted

- Houses/offices to clean, available evenings/weekends. 777-8595
- Carpool, Boaz/Albertville/Guntersville area, hours 7 a.m to 3:30 p.m. 593-9395 or 506-3248
- Canoe. 830-1374
- Queen-size sleigh bed, low or no footboard. 536-5132
- Used dryer, good condition. 651-2242

Found

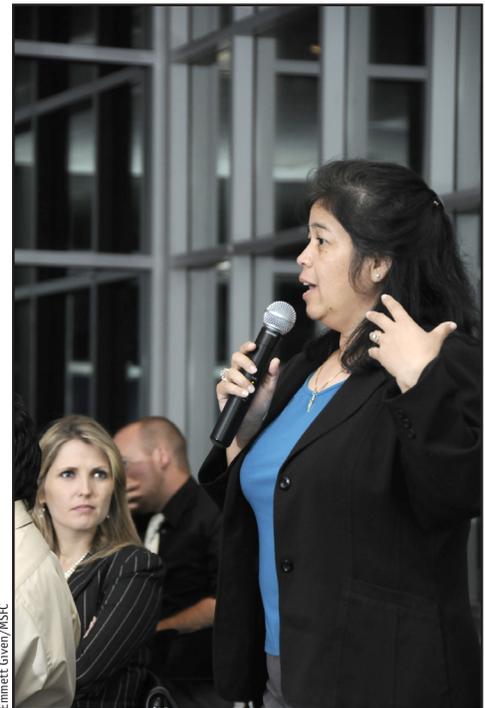
- Pair of black, metal-framed reading glasses, front lobby of Building 4200, Oct. 7. 544-4680

Shuttle Buddies to meet Oct. 27

The Shuttle Buddies will meet at 8:30 a.m. Oct. 27 at Mullins Restaurant on Andrew Jackson Way. For more information, call Deemer Self at 881-7757.

NASA hosts seventh annual Hispanic Youth Conference

Rafaela Schwan, right, director of programs and external affairs for the Society of Hispanic Professional Engineers, speaks at the seventh annual NASA Hispanic Youth Conference held Oct. 2-3 in Huntsville. Schwan helped to inspire the 120 Alabama high school students attending the workshop to seek strong educational opportunities. Seminars and activities, held at the U.S. Space & Rocket Center and the University of Alabama in Huntsville, were designed to inspire young people to finish high school and pursue college careers, primarily in math, science and engineering. The conference, whose theme was "Getting Involved: Our Families, Our Community, Our Nation," was sponsored by the Marshall Space Flight Center; the "Mi Futuro" (My Future) programs at Miles College in Birmingham and Stillman College in Tuscaloosa; and the North Central Alabama Boy Scouts of America.



Emmett Given/MSFC

Expedition 18

Continued from page 1

Expedition 17 Flight Engineer Greg Chamitoff, who arrived at the station in June, will be replaced in November by NASA astronaut Sandra Magnus. Space shuttle Endeavour will deliver Magnus and return Chamitoff to Earth.

Endeavour's November STS-126 mission also will deliver equipment to the station necessary for supporting a six-member crew, including a water recycling system developed by the Marshall

Space Flight Center, sleeping quarters, a new kitchen, a second toilet and an advanced exercise device.

Although they will be in space on Election Day, Chamitoff and Fincke have arranged for the chance to cast their ballots from the station.

For more information about the space station and how to view it from Earth, visit <http://www.nasa.gov/station>.

For more information about upcoming space shuttle missions and their crews, visit <http://www.nasa.gov/shuttle>.

MARSHALL STAR

Vol. 49/No. 6

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 2009-523-047-20171

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