



# MARSHALL STAR

Serving the Marshall Space Flight Center Community

June 28, 2007

## Shuttle Atlantis crew returns home after successful mission

*NASA Headquarters Release*

Space Shuttle Atlantis and its crew are home after completing a 14-day journey of more than 5.8 million miles in space.

Atlantis' STS-117 mission successfully increased the power capability of the International Space Station, preparing for the future delivery of European and Japanese laboratories.

Commander Rick Sturckow, pilot Lee Archambault and mission specialists Jim Reilly, Patrick Forrester, Steven Swanson, John "Danny" Olivas and Sunita Williams landed at Edwards Air Force Base, Calif., on Friday, June 22, at 2:49 p.m. CDT.

Atlantis' crew attached the new S3/S4 solar array truss segment on the right side of the station's backbone, deployed a new set of solar arrays, and retracted the Port 6 starboard solar array. The station has a new look with two symmetrical solar panels mounted on each end of the station's truss.

Reilly, Olivas, Swanson and Forrester, with the help of crewmates, made four spacewalks to complete the construction tasks. They activated the truss segment and the solar alpha rotary joint, which allows the new arrays to track the sun, and helped fold the Port 6 array. During the third spacewalk, the crew repaired a 4-by-6-inch raised corner of a thermal blanket on the shuttle's port side orbital maneuvering system pod. Aerodynamic



Space Shuttle Atlantis touched down at Edwards Air Force Base, Calif., on Friday, June 22, at 2:49 p.m. CDT. Atlantis will be transported from California to the Kennedy Space Center, Fla., approximately 2,500 miles, on the back of a modified 747 jumbo jet.

forces during Atlantis' ascent lifted the blanket.

While the crew worked in space, ground teams were troubleshooting a problem with Russian computers that help control the station's attitude. Russian specialists worked closely with teams in the United States to recover the computer capabilities.

*See Atlantis on page 2*

### ***Marshall to hold 2007 Annual Honor Awards ceremonies***

The Marshall Center will hold its Annual Honor Awards ceremonies in Morris Auditorium on Thursday, June 28. Employees are invited to attend.

There will be two ceremonies, the NASA Honor Awards at 10 a.m. and the Marshall Center Honor Awards at 2 p.m., recognizing

employees who have made significant contributions to America's space program over the past 12 months or longer.

NASA Associate Deputy Administrator Charles Scales will present the awards with Marshall Director David King and Deputy Director Robert Lightfoot.

## Message from the administrator

Last year on March 30, 2006, I released an agencywide policy governing the release of public information and the role of public affairs in obtaining the widest practicable and appropriate dissemination of information concerning NASA activities. I appreciate the efforts by NASA employees during the past year to help improve our processes and procedures for distributing information to the media, and for promoting a culture that values the free exchange of ideas.



Michael Griffin

Although much progress has been made, our ability to meet agency goals and statutory requirements for the dissemination of public information requires a workforce that possesses a clear understanding of NASA's policy on the release of information to the media. Therefore, I invite you

today to take a few minutes to review our policy at [http://www.nasa.gov/communication\\_policy](http://www.nasa.gov/communication_policy).

While it is my hope that disputes over the dissemination of public information are rare, I recognize that sometimes opinions vary on issues such as newsworthiness or content. When such differences occur, it is useful to note the aspect of our policy dealing with dispute resolution.

To quote from the policy:

- Any dispute arising from a decision to proceed or not proceed with the issuance of a news release or other type of public information will be addressed and resolved by the assistant administrator for public affairs with the appropriate mission directorate associate administrator, mission support office head, center director, and others, such as center public affairs directors, as necessary.
- However, the appropriate mission directorate associate administrator shall be the arbiter of disputes about the accuracy or characterization of programmatic, technical or scientific information.
- Additional appeals may be made to the chief of strategic communications and to the Office of the Administrator.
- When requested by a center public affairs director, an explanation of the resolution will be provided in writing to all interested agency parties.

If you have any questions about the policy, please contact the public affairs officer you typically work with or Assistant Administrator for Public Affairs David Mould. He can be reached at 202-358-1898 or at [david.r.mould@nasa.gov](mailto:david.r.mould@nasa.gov). Thank you again for your cooperation in an effort that I trust will make NASA a model within the federal government for conducting well coordinated and open scientific and technical communication.

**Michael D. Griffin**  
Administrator

## Atlantis

*Continued from page 1*

NASA astronaut and station flight engineer Clayton Anderson, who launched with the crew on board Atlantis, remained on the station. He is scheduled to return home on the Space Shuttle Discovery on a mission targeted for launch in October. Anderson replaced Williams, who set a new record for a single, long-duration spaceflight by a woman with 195 days. She arrived at the station in December 2006 on board Space Shuttle Discovery.

STS-117 was the 118th space shuttle flight, the 21st flight to the station, the 28th flight for Atlantis and the first of four missions planned for 2007.

Several inspections in orbit revealed no critical damage, and Atlantis' thermal protection system was declared safe for re-entry on flight day 13. Weather concerns prevented the crew from returning to NASA's Kennedy Space Center, Fla., the primary end-of-mission landing site. In seven to 10 days, Atlantis will be transported approximately 2,500 miles from California to Florida on the back of a modified 747 jumbo jet. Once at Kennedy, Atlantis will be separated from the aircraft to begin immediate processing for its next flight, targeted for December 2007.

With Atlantis and its crew safely home, the stage is set for the next phase of International Space Station assembly. Preparations continue for Space Shuttle Endeavour's launch, targeted for August, on the STS-118 mission to deliver the S5 truss segment to the station.

*For more on the STS-117 mission and the upcoming STS-118 mission, visit <http://www.nasa.gov/shuttle>.*



In the firing room at NASA's Kennedy Space Center, from right, Angie Brewer, NASA Space Shuttle Atlantis flow manager; Doug Lyons, assistant launch director; and Michael Leinbach, shuttle launch director, watch Space Shuttle Atlantis landing at Edwards Air Force Base.

## John McDougle named Chief Information Officer



John McDougle

John B. McDougle has been selected to a one-year limited term Senior Executive Service position as Chief Information Officer in Marshall's Office of the Chief Information Officer. He succeeds Jonathan Pettus who was recently selected to serve as the agency's Chief Information Officer at NASA Headquarters.

The Senior Executive Service is the personnel system covering top managerial positions in approximately 75 federal agencies.

McDougle will be responsible for creating and managing Marshall's information technology vision and direction. Other responsibilities include technical leadership in the design, development, integration, and operation of the Marshall Center and NASA

information systems and services, including security, planning, policy development, architecture, governance, and compliance with Marshall, NASA, and federal government policies and directives.

McDougle has served as the center's deputy Chief Information Officer since December 2004. He joined Marshall in 2002 as a NASA-excepted appointee in the Office of the Chief Information Officer where he was responsible for strategic planning, policy development and financial planning.

Prior to his NASA career, McDougle served in a variety of leadership positions at Computer Sciences Corporation in Huntsville and with the U.S. Army.

McDougle earned his bachelor's degree in 1970 from the University of Georgia in Athens, and earned a master's degree in public administration in 1990 from Shippensburg University in Shippensburg, Pa. He is a 1981 graduate of the Armed Forces Staff College in Norfolk, Va., and a 1990 graduate of the U.S. Army War College in Carlisle Barracks, Pa.

McDougle and his wife, the former Sarah McDaniel of Brunswick, Ga., live in Gurley, and have two daughters and one son.

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## Jerry R. Cook named Aerospace Engineer of the Year by AIAA

By Sanda Martel

Jerry R. Cook, manager of the Space Shuttle Main Engine Project office at the Marshall Center, has been named Aerospace Engineer of the Year for 2006-2007 by the American Institute of Aeronautics and Astronautics.

Cook received his award June 5 during the Alabama-Mississippi Section's 55th annual installation and awards dinner in Huntsville. The award is presented annually to an individual who has demonstrated extraordinary technical skill and leadership in the practice of the aerospace engineering profession.

Cook received the award for his work in his previous position as deputy manager of NASA's Ares I Upper Stage Office, where he served until assuming his current position in May. He was responsible for planning, procurement, design, development, testing, production and operational aspects of the Upper Stage Project.

He also was responsible for managing both the technical design and acquisition strategy for the Ares I upper stage. The upper stage production request for proposal was released in February, and the projected contract award date is September.

During his career, Cook has received several NASA awards, including the Silver Snoopy award from the Astronaut Corps in 2000 for contributions to the success of human space flight missions, and the NASA Exceptional Achievement Medal in 2004 for significant contributions to the NASA mission.

A native of Greensboro, Ala., Cook received a bachelor's degree in mechanical engineering in 1984 from the University



Photo courtesy

Terry Abel, left, chairman of the American Institute of Aeronautics and Astronautics, Alabama-Mississippi Section, presents a plaque to Jerry R. Cook, Space Shuttle Main Engine Project manager, during an awards ceremony June 5 in Huntsville.

of Alabama in Tuscaloosa. He has authored and co-authored numerous technical papers and books on aerospace and propulsion, including American Institute of Aeronautics and Astronautics papers, and has been published in "Aerospace America" and the "McGraw-Hill Yearbook of Science and Technology."

The writer, an ASRI employee, supports the Office of Strategic Analysis and Communications.

## From work-related injuries to physicals, Marshall's Medical Center clinic helps the workforce stay in tip-top shape

By Jessica Wallace

Dr. Taurin Lee, director of Marshall's Medical Center, thought becoming a priest was his calling — until he witnessed a haunting shooting death and the devastating impact of poor healthcare in Korea during the Korean War.

A native of Pyongyang, North Korea, Lee vividly remembers how that war, and migrating to South Korea with his family, steered his direction from priesthood to medicine.

"When I was 15 years old, my friends and I were hiding from North Korean soldiers when a friend's sister was shot," Lee said. "There was nothing I could do to help, and she died right beside us. I realized then if I became a doctor, I could save lives."

After migrating to South Korea in 1950, Lee attended a Catholic college where he began his study of medicine. "The more medical classes I took, the more I realized that a doctor's life was a calling for me," he said.

Lee came to the United States in 1963 to enroll in Johns Hopkins University in Baltimore, Md., to study occupational and tropical medicine. After graduation in 1965 with master of public health and doctor of public health degrees, Lee returned to South Korea where he joined the Korean navy and began his practice of medicine.

In 1972, he returned to the United States, joined the U.S. Navy and was commissioned as a lieutenant. He continued his medical career.

"While I was in the U.S. Navy, I was able to save a navy diver who had surfaced too quickly following an underwater explosion," Lee said. "He was in serious condition, and the only way to save him was to put him in the hyperbaric chamber, a sealed area that supplies a high-pressure atmosphere for medical therapy. It typically is used for treatment of a diving-related decompression illness.

"I spent the night with him there and was able to nurse him back to good health," Lee said. "Being able to help save a man's life was the very reason I decided to become a doctor. It made me feel good. So a couple of years later, when I heard Marshall had this chamber and needed a specialist, I was eager to come work at the center."

At the end of active naval duty, Lee joined the Marshall Center in 1977 as a diving medical officer. He worked with astronauts in the Neutral Buoyancy Simulator laboratory in Building 4705, which included its own hyperbaric chamber. Marshall trained astronauts for shuttle missions in the 1.3-million-gallon buoyancy lab from 1968 to 1996. The lab provided the next-best thing to the weightlessness of space to astronauts training for spaceflight or NASA scientists

conducting research.

In his 30 years at Marshall, Lee has seen the overall health profile of the center workforce change significantly. "Employees today seem to be more involved with and interested in their health," he said. "People are more aware of nutrition and the benefits of exercise than when I first came on board. They monitor their blood pressure and understand the poor results of being hypertensive. Employees are also more knowledgeable about becoming diabetic and what to do to prevent the sickness."

As medical director, Lee is responsible for the overall operation of the Marshall Medical Center, including directing and guiding the Occupational Medicine and Environmental Health Services staff in providing services to Marshall. His staff includes a physician, three nurses and one nurse practitioner, who see approximately 11,000 patients each year. The Medical Center offers clinic services, but patients requiring advanced or extensive medical care are transferred to a local hospital. It also provides voluntary physical exams to civil service employees and designated on-site contractors. On average, the clinic performs 4,400 physical exams each year.

Other Medical Center services include checking patients before international travel and examining Federal Aviation Administration

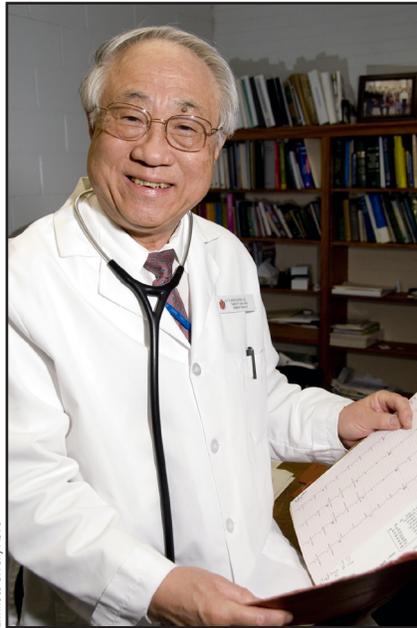
NASA pilots to ensure that they are healthy to fly. In addition, Lee provides medical evaluations for occupational and non-occupational injuries and illnesses, and serves as the medical review officer for receiving and evaluating drug screening results for Marshall employees.

"My staff and I work to protect the entire workforce from communicable diseases such as flu, tuberculosis, foodborne diseases and some job-related illnesses or injuries such as asbestosis or falls," said Lee. "We carefully monitor accidents and aim to detect early hypertension, diabetes or seizure. If we have an ill employee, we remove them from the job, not only to protect the patient, but also the co-workers and the entire center."

With all these responsibilities, just how many regular patients does Lee have? "I might say I have one patient a day, one patient a month and only one patient a year," Lee said. "The patient's name is Marshall Space Flight Center."

After 30 years and two days, Lee will retire from the Marshall Center on June 29.

*The writer, an ASRI employee and Marshall Star editor, supports the Office of Strategic Analysis and Communications.*



Dr. Taurin Lee

## Saturn/Apollo Reunion to be held July 13

The Fourth Annual Saturn/Apollo Reunion will be held Friday, July 13, at the U.S. Space & Rocket Center. Guests will include honorary chairman of the Saturn V Restoration Committee Dr. Buzz Aldrin, Apollo 11; and honorary committee members Walter Cunningham, Apollo 7; Dr. Owen Garriott, Skylab and Spacelab; Dr. George Mueller, deputy associate administrator for Manned Space Flight 1963-69; and Marshall's Steve Cook, director of the Exploration Launch Projects Office.

The reunion will begin at 5 p.m. Dinner will be served from 5:15 to 6:30 p.m., and a brief program will be held in Rocket Park at 6:45 p.m.

Advance tickets are available online at [www.savethesaturn.org](http://www.savethesaturn.org), the NASA Exchange in Building 4203, or the Space & Rocket Center. Ticket are \$10 for adults and \$5 for children 12 and under. Children under 3 are free. Tickets at the door will be \$25 for adults and \$15 for children.

## Obituaries

**William Gahan "Pete" Breithaupt**, 87, of Huntsville died June 17. He retired from the Marshall Center in 1974 as an industrial engineer. He is survived by his wife, Myrtle Downing Breithaupt.

**Nelis Dillon**, 83, of Huntsville died June 19. He retired from the Marshall Center in 1987. He is survived by his wife, Louidean Dillon.

**William Fink**, 87, of Huntsville died June 18. He retired from the Marshall Center in 1985 as an aerospace engineer technician.

**William Franklin "Bill" Schmidt**, 90, of Decatur died June 18. He retired from the Marshall Center in 1974 as an aerospace engineer technician. He is survived by his wife, Charleen Worrell Schmidt.

## 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 is 4:30 p.m. Thursday.*

### Miscellaneous

AKC-registered black Labrador puppies, 8 weeks old, \$125. 233-5620  
AKC-registered Labrador puppies, 5 weeks old, yellow, black, chocolate, \$250 and up. 426-9776  
72x42 whirlpool bathtub, almond color, six jets, working pump, \$150. 655-6701  
Treadmill, \$100. 430-6897  
Working push lawnmower, \$50. 830-8299  
Exercise equipment, abs lounger, will deliver to Marshall, \$60. 319-2907  
Fender flairs and running boards for '99-'03 Silverado/Sierra Extended Cab, victory red. 468-0854  
Legend 3 Pride Scooter electric wheelchair, \$1,500 obo. 759-3009  
Standard-size Croscill comforter set, purple/taupe/tan, four matching sheer curtain panels, \$150. 773-0194  
Solid wood entry door, 1-3/4-inch thick, 36 inches wide, \$40; wingback chair, \$40. 852-6952  
Two Broyhill chairs, \$185 each; foosball table, \$295; headboards, \$25/\$65. 683-7015  
Pair of MTX TP112 300w speakers, \$100; Sony MHC-GX450 shelf stereo, 400w, \$50. 698-1350  
Two oak kids twin beds, bookcase, headboards, storage, \$700. 880-3263

20-inch chrome spoke wheels, 8.5 inches wide, 5 lug, \$800. Terry Stevens, 931-308-1238  
Go Cart, single seater, 5hp, \$250. 656-4211  
Five-piece cherry bedroom set, \$725 obo. 603-0998  
\$100 gift certificate, White's Refrigeration and A/C Service, expires 10/1/07, \$80 firm. 895-6722  
Intex 18x48 frame pool, disassembled, \$285; 18-foot round leaf net, solar cover, \$35 each. 830-4846  
Samsung flatscreen CRT monitors, black, 17-inch, \$50; 19-inch, \$75. 489-6320  
Large pocket-style pool table, 1-inch slate top, all accessories, \$1,200. 652-2929  
Kenmore washer, \$95; Kenmore dryer, \$95. 837-6649  
Hotpoint heavy duty dryer, \$75. 837-0327  
Foosball table, \$75; full headboard, \$40. 772-1870  
Butcher block table, chairs, open hutch, \$350; oak entertainment center, 36-inch TV, \$600. Lori, 655-0312  
Natural-wicker patio set: love seat, oversized rocker, chair, cushions, \$200. 883-4735  
Kenmore heavy duty washer/dryer, \$350; maroon sofa/sleeper, chair, \$150. 828-2971  
Extra-large capacity Kenmore washer/dryer, white, \$250. 653-4790 / 650-0910  
Nine-piece bedroom suite, includes white four-poster twin bed, \$650. 828-5964  
Heavy duty HotPoint dryer, white, large capacity, 3 cycle, side load, \$60 firm. 890-0621  
B&S OHV I/C 14.5 hp engine, single cylinder, vertical shaft, electric start, \$75. 325-2919  
1800s china cabinet, \$1,100; server, \$650; two lamp tables, \$350/\$495; several modern lamps. 852-1726  
Custom subwoofer box, fits under rear seat, '88-'98 GMC, \$200. 341-8470  
ProForm Cross Trainer exercise machine, \$100. 586-7375  
Trumpet King 601, \$450 obo. 509-0256  
Browning BAR-270, Springfield Full Size 1911. 412-3406

### Vehicles

2007 Honda TRX450R Sport ATV/quad, electric start, plastics black/flames, red frame, \$5,800. 345-9555

2006 Salem travel trailer, 29 feet, sleeps six, \$18,250 obo. 520-5222  
2006 Suzuki XL7, silver AT/AC/CD, cruise, 16k miles, \$17,000. 658-1715  
2006 dirt bike, 110cc, 4 speed, 4 stroke, semiautomatic, helmet, \$350. 858-5552  
2004 Class-A Motorhome, workhorse chassis, extended warranty, \$59,995. Online at [www.thewilletfamily.com/rv](http://www.thewilletfamily.com/rv). 883-7021  
2003 Cadillac Escalade, 72k miles, \$23,000; 1994 Cougar, 102k miles, \$2,750. 520-2802  
2003 Harley-Davidson Ultra Classic, Electraglide 100th anniversary edition, extended warranty, \$13,500. 683-1846  
2003 Chevy Tahoe, \$18,500. 468-0854  
2002 Kia Sedona LX minivan, new tires, white, CD Player, power windows/locks, non-smoker, \$4,500. 233-6197  
2002 Nissan Pathfinder SE, bronze, automatic, Bose system, new tires, 76k miles, \$13,500. 205-317-9723  
2001 BMW 330cic convertible, automatic transmission, light blue, hard top, 72k miles. 714-2555  
1999 Honda Accord LX, 4 door, 5 speed, tinted windows, keyless entry, 148k miles, \$6200. 464-9854  
1999 Chevrolet Z71 pickup, pewter color, leather, new tires, 175k miles, \$9,900. 347-5404  
1997 Toyota Avalon XLS, 153k miles, \$6,000. 653-2732  
1995 Chevy 3500 extended cab dually, new tires, diesel, 148k miles, \$9,100. 412-5143  
1990 Honda Buss Series Race Car, ready to race, \$ 1,000. 828-5142  
1976 Chevy C-10 pickup, 6 cylinder, straight shift, LWB, \$850. 881-6094  
Jayco popup camper, a/c, new tires, queen and double beds, \$1,500. 508-3257

### Wanted

Auto-wah and tremolo single-effect guitar pedals. 777-8229  
DVD, VHS and/or TV to use in classroom. 883-2757  
Suspended ceiling cross-tees, older 2-foot style needed to augment 25-plus year-old grid system. 233-0705

## William W. Vaughan, retired Marshall scientist, receives two AIAA recognitions

Dr. William Vaughan, a retired Marshall employee and research professor in atmospheric science at the University of Alabama in Huntsville, was elected a fellow in the American Institute of Aeronautics and Astronautics and received the Distinguished Service Award recently at the 2007 AIAA Aerospace Spotlight Awards Gala in Washington.

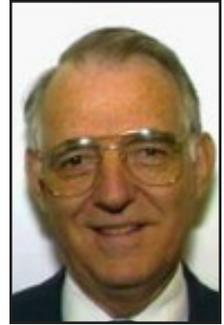
The AIAA Distinguished Service Award is the highest honor AIAA can present to a member who has distinguished himself or herself over a period of years by service to the organization. Vaughan was recognized for his active participation on technical and standing committees, region activities and technical excellence.

Vaughan was the inaugural chair of the AIAA Standards Technical

Council and has been active in technical standards development activities for more than 20 years. He also is the recipient of the AIAA's Robert M. Losey Atmospheric Sciences Award and a fellow in the American Meteorological Society.

Vaughan received his bachelor's degree in mathematics and physical science from the University of Florida in Gainesville in 1951, a graduate certificate in atmospheric science from the U.S. Air Force Institute of Technology at Florida State University in Tallahassee in 1952, and a doctorate in engineering science from the University of Tennessee in Knoxville in 1975.

Vaughn joined Marshall at its origin in 1960 and retired in 1986 after serving as chief of the Atmospheric Science and Aerospace Environment Divisions. He was a charter member of the Federal Senior Executive Service. Vaughan retired from UAH in 1995 as director of the Research Institute. He currently serves as a consultant and advisor in the NASA Technical Standards Program.



William Vaughan

## MARS Running Club wins first, second place in the 2007 Cotton Row Run



Courtesy photo

MARS Running Club members recently ran through downtown Huntsville in the 28th annual Mercedes-Benz Cotton Row Run. The Cotton Row Run was hosted by the Huntsville Track Club. This is the fourth year MARS has entered teams in the race's Corporate Cup Challenge. The club won first for the women's division and second in the men's division. Running club members, from left are, Joey Butler and Ryan Decker, both of the Engineering Directorate; Hank Miller of the Shuttle Propulsion Office; Charlie Meyers, Tom Smith, Christy Gattis, all of the Engineering Directorate; Mark Hill of the Shuttle Propulsion Office; Cynthia Vemmer of the Office of the Chief Financial Officer; and Jamie Burnum of the Exploration Launch Projects Office. Not pictured are Sara Masterson, Angie Jackman, Paul McConnaughey, Charlie Finnegan and Paul Thompson, all of the Engineering Directorate; Andrew Keys of the Science & Mission Systems Office; and Joe Pirani and Michael Nelson, both of the Engineering Directorate.

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