

Marshall's Open House Set for May 16

Take a Glimpse into the Future of Space Exploration

by Peter Cobun

Come see where dreams leap from drawing boards and rocket into space. Where space research is brought down to Earth to improve the health and quality of life of its people.

Visit the Marshall Center when it opens its doors to the public on Saturday, May 16, for a look inside. Admission is free.

Bring your family and your camera for a full day — 9 a.m. to 6 p.m. Look into the future. Glimpse a little of the past. And, see the role Marshall — one of NASA's pioneering space centers — plays in exploration and research for your space program.

It'll be fun. And educational, too.

You'll hold your seat — and your breath — in the "Morphis MovieRide Theater." Climb into this mobile simulator and "journey" to Mars. As a down-to-Earth bonus, experience the thrills of race-car driving, and feel the



The ride vehicle, Morphis MovieRide Theatre, will be one of the centerpiece attractions at this year's Open House. A new concept in the full motion entertainment market, the ride creates the Mars virtual reality experience.
Photo Courtesy of Camber Corporation

sensation while shooting down a ski slope.

Visit with NASA astronauts, ready to share their space adventures with you. Talk with former astronaut Owen Garriott, who'll sign autographs and recall highlights of the nearly 1,700 hours he's spent in space. Ask this Huntsville resident about his spacewalk, too.

For a real "rumble," and lots of billowing smoke, see a live test firing at

the Hot Gas Facility — a high-velocity wind tunnel where hot gasses, released at four times the speed of sound, test materials used on NASA's most advanced space vehicles. Or witness a blast of wind at five times the speed of sound at the Trisonic Wind Tunnel, where today's and tomorrow's launch vehicles undergo the most rigorous tests.

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Antonio Zarco (right), a Choco Indian elder from Panama, is shown the interior of the Space Station by Boeing's Debbie Springer (left). Zarco, who was instrumental in training the Apollo astronauts for jungle survival, visited the Center as part of a documentary being filmed on his life. Looking on is interpreter Alicia Beam of Marshall's Equal Opportunity Office.

Photo by Adeline Byford

Marshall News Release Leads Girl To Lifesaving Cancer Treatment

by Steve Roy

Emily Mau is a typical 11-year-old, fifth-grader from Beaver Dam, Wis.— typical except for the tangled, deadly tumor penetrating deeply into her brain stem. A tumor, doctors said, that was sure to take her life.

Hope came to Emily and her family when they read a news story about an innovative cancer treatment developed by doctors working with America's space agency, NASA.

Brain stem tumors in children are the focus of a highly specialized team of researchers at the Children's Hospital of Wisconsin in Milwaukee. Using NASA grants, the team is developing a special cancer treatment technique called Photodynamic Therapy. They use lasers and tiny pinhead-size Light Emitting Diodes (LEDs) developed originally for NASA

See Lifesaving Treatment on page 4

Marshall's Cole Mixes Engineering, Penchant for Speed

by Nancy Robinson

What's blue and white and goes very fast? Well, it's not your usual high-speed police car and it's definitely not the family Ford. If you see Mike Cole of the Systems Analysis and Integration Lab at the wheel, then you must be at one of several regional race tracks and Cole must be "relaxing" at his favorite sport.

Cole began a passion for the speed and skill involved in racing while at Georgia Tech in the 1980's getting an engineering degree. Racing has always been a difficult field to break into, much less succeed at, but Cole has managed to turn his fast-paced driving into several winning positions, both regionally and nationally. As a member of the Sports Cars Club of America, which divides itself into 23 classes and appeals to both amateur and pro series, Mike has found his niche in the "Spec" car series.

There are no greasy old garages and pit crews to speak of since each Spec car has the same sealed Ford Escort engine and the same Yokohama tires. With such equipment factors being equal, Cole feels the driving competition and how well you set up the car are the determining elements. That's where driving ability comes into play, he says.

Cole's skills as a systems test engineer currently working on the Space Station Material Science Research Facility come into very good use when setting up his car for particular raceways.

With hopes of racing on four or five totally different tracks, an engineer's attention to detail can make all the difference.

At a top speed of 135 mph, even a little mistake is amplified to the point where you won't have the power to make up for it

STS-90 Mission Set for April 16

The next Space Shuttle flight, STS-90, is scheduled to launch April 16 from the Kennedy Space Center. The 16-day mission, carrying the Neurolab payload, is dedicated to the study of the human nervous system, the most complex and least understood part of the body.

The principal objectives of STS-90 are to expand understanding of how the nervous system develops and functions in space, but the research also will provide unique contributions to the study and treatment of neurological disorders on Earth.

The launch window opens at 1:19 p.m. CDT on April 16, and lasts 2 hours. Following a nominal flight duration of 15 days, 21 hours, 50 minutes, Space Shuttle Columbia is scheduled to land at the Kennedy Space Center on May 2 at 11:09 p.m. CDT.

STS-90 will be Columbia's 25th mission into space and the 90th Shuttle flight in the program's history.



Michael Cole of the Systems Analysis and Integration Lab sits behind the wheel of the Spec racer that won him fourth place in Memphis at the first race of the season. Photo by Adeline Byford

with the gas pedal. As owner, crew chief and driver, Mike has only himself to answer to when one of these little mistakes occurs.

Well, actually he may answer to his wife. That's because he lets her be the "owner," since she has yet to take him up on an offer to be the "driver" in this partnership. But it is definitely still a family affair and they go out and have fun, according to Cole.

Surprisingly, there are only about 750 cars nationwide currently being raced in this series and the Marshall Center has three individuals who compete from the Tennessee Valley division. Cole admits there is some good-natured rivalry when they race on the same tracks. Cole also admits that he's into the sport because he not only likes to win—he loves going VERY fast.



A modified solid rocket motor was tested at the Marshall Center last Tuesday. The test is designed to provide a better understanding of nozzle performance on the Space Shuttle's reusable solid rocket motors. Photo by Terry Leibold

1998 Annual Retiree Banquet Caper Chase is Fun, Fun, Fun!



Marshall's Acting Center Director Carolyn Griner and Judy Arnold share laughs with the past as they pose with former Marshall Center directors. Pictured from left are Jack Lee, Griner, Arnold, Bill Lucas and Wayne Littles.



Sheila Cloud and Sid Saucier shows why "Mama Sang Bass."



The Grand Finale!!



"Soul Man" Charles Scales is one cool "Blues Brother."



Why does "Miss" Dennis Keim think that "Jack's the Man?"

Message from Retirement Dinner Chairperson Edwina Bressette...

A special "Thank You" to each of the following for contributions of time and effort which made the Twelfth Annual Retirement Dinner a big success:

Janice Robinson and Associates of SCSC;
Carol Wasserman of the NASA Exchange;
The Twelfth Annual Retirement Dinner Planning Committee;
The Facilities Office and Contractors;
The Information Systems Services Office and Contractors;
The Cast and Crew of "Caper Chase '98";
Tom Rost;
Emmett Given and the Photo Lab of CSC and Wang/I-Net for photographic support; Sherry Stigletts, Tommy Armstrong, and Staff of the Von Braun Center.

Thank you all for a job well done!

Marshall's Earth Day '98 Celebration Set for April 22

Marshall will celebrate Earth Day '98 on April 22. The theme is "Clean Water for Future Generations" in recognition of the Clean Water Act.

Earth Day events planned at Marshall include the Earth Day logo contest that was won by Maureen Hunt of DP Associates; a recycling display in Building 4200 from April 20 to April 24 with recycling information, literature, recycled sculptures and artwork by pre-school children who attend the Marshall Child Development Center; a "Spot an Environmentalist" contest for Center employees and on-site contractors; and an Earth Day tree planting ceremony on April 22.

Jones Named Deputy in Facilities Services Office

Edwin Jones has been appointed deputy director of Marshall's Facilities Services Office in the Center Operations Directorate.



Edwin Jones

Jones was formerly chief of the Project Management Division of the Facilities Services Office. He joined the Marshall Center in 1975 as a cooperative education student in the Engineering Division of the Facilities Office. Jones has been involved in nearly every facility project since, including the construction of or modifications to ground test facilities, laboratories, utility systems, and office buildings. In recognition of his ability to develop successful strategies to accommodate the Center's facilities needs, Jones received the NASA Exceptional Service Medal in 1995.

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Lifesaving Treatment

Continued from page 1

Space Shuttle plant growth experiments to activate light-sensitive, tumor-treating drugs.

Last November NASA's Marshall Space Flight Center's Media Relations Office mounted a television and print media campaign to tell the nation about

Computer Monitoring part of Security Study

The General Accounting Office (GAO) has initiated a penetration study of NASA computer systems, according to Charles Houston, director of Marshall's Information Systems Services Office. GAO intends to use the National Security Agency (NSA) to conduct penetration tests over the next couple of months.

Communications security monitoring will occur as part of this test. It will affect computers that are government-owned or government-funded. There is no expectation of privacy in using the systems. Users consent to their keystrokes and data content being monitored.

For additional information, contact Marshall Information Technology Security Coordinator Bob Keasling at 4-1223.

the Children's Hospital cancer research project. An article based on the news release appeared in the Milwaukee Journal/Sentinel.

Emily's mother, Sherry Mau, saw in it a chance to save her daughter's life.

"We had already tried three different kinds of chemotherapy for Emily," said her mother. "Emily underwent surgery and six weeks of radiation. Yet after all this the tumor continued to grow," she said. "We knew we had to find something different. Then we read the article in the newspaper."

She immediately contacted Dr. Harry Whelan, pediatric neurologist of the Medical College of Wisconsin and director of the Children's Hospital project. "It was the miracle we had been praying for," said Mau.

"Emily's surgery occurred in mid-January," Dr. Whelan explained. "This surgery was our most challenging case to date, because of how deeply entangled the tumor was with the normal brain stem."

"Emily was discharged from the Children's Hospital without any side effects, only three days after surgery and Photodynamic Therapy," said Whelan. "I recently had lunch with Emily and her mother, and Emily is doing fine. We are very hopeful about her future."

"If not for NASA's research support,

and the NASA news media campaign that connected Emily and Children's Hospital, Emily would not have received this treatment," Whelan said.

Emily, a dedicated "Star Wars" fan and an honor-roll student, is home-schooling for a few more weeks. Her teachers say she will move up to the sixth grade next fall.

"Newspapers and magazines around the country ran this story and so did television stations," said Steve Roy, Marshall Center public affairs specialist. "So far we've received a dozen calls from families seeking information about this cancer research project, including a recent call from a NASA scientist diagnosed with an inoperable brain tumor."

The LED plant growth and the cancer research projects are sponsored by NASA's Space Product Development Program managed at the Marshall Center by Rose Allen of the Microgravity Research Program, and the Small Business Initiative Research Program managed by Helen Stinson of Marshall's Technology Transfer Office.

The LEDs were developed for Marshall Center by Quantum Devices, Inc. of Barneveld, Wis.

Bob Thompson of ASRI penned the news release on the LEDs.

Open House

Continued from page 1

Get a peek at the real International Space Station — the permanent laboratory to be launched this year — that's being assembled at a sprawling Marshall facility. Then walk through a full-scale mock-up of the Space Station. And see how today's wastewater becomes tomorrow's drinking water for astronauts.

You may have heard the voices from Earth talking to astronauts in space, starting the greeting, "Spacelab, this is Huntsville." Now see the actual Spacelab Mission Operations Control Center where those Space Shuttle science missions were managed. Sit at an actual Spacelab console and listen to "air-to-ground" communications. Glimpse the operations center where future science missions aboard the Space Station will be controlled.

Surf a thousand Web pages for the latest space news and spectacular images from NASA space missions. Participate in live, hands-on science activities, and explore the stars in a portable planetarium.

Return to Earth to explore the world of

research in the Space Sciences Laboratory, where Marshall scientists unlock mysteries of the universe. See "frozen smoke" — the world's lightest solid material, and learn how it could insulate you from winter's harshest blast. Hear the shocking story of lightning, and how NASA scientists are working to reduce the consequences of severe weather on Earth. Find out why zero gravity is such a great tool for understanding how your body works, or for designing better drugs and computers.

Level your eye at the world's flattest floor, where remote-controlled robots are tested for space missions. See a simulated rendezvous and docking of two spacecraft — just like America's Shuttle linking with the Russian Mir. See the one-of-a-kind vacuum chamber test facility, where X-rays are shot through a tube stretching a third of a mile to test and calibrate telescopes for space observatories.

Take a scenic drive among Marshall's mammoth structures that tested the rockets that made space history. And see history in the making: Marshall's advanced engine test facility where, this spring — for the first time in history — a Russian-built rocket engine will be tested at a U.S. government facility.

Drop by Marshall's TV studio for a live demonstration of how a NASA television production center really works. Become an "instant star" when you're captured on video — "on the Moon" with an astronaut.

Kids can even hop a plane. A dozen miniature pedal-planes with life-like cockpits can be booked for a "flight."

At the special Grand Finale capping the day's events, visiting astronauts will gather to sign their autographs for you. You'll hear a bit of a roar and see a bit of smoke as a model rocket ignites and is launched from its pad. Plus you'll hear one of Marshall's very own talents perform two of her inspiring, space-themed songs, and lead the crowds in "The Star-Spangled Banner."

There'll be plenty of giveaways — especially for the kids: space-related coloring books, a four-pack of crayons, balloons, trading cards commemorating the first Apollo Moon landing, space posters, full-color photographs and brochures of the latest space hardware.

Souvenirs available for purchase throughout the Center include special "bean buddies" of astronauts and Space Shuttles; miniature playsets depicting space missions; T-shirts and caps with the NASA insignia; space "rub-ons;" authentic figurines representing the Mercury, Gemini, Apollo and Space Shuttle programs; and Shuttle pencil sharpeners and erasers.

For more information call 1-888-901-NASA (6272) or (256) 544-5552. Or visit the Open House Website at: <http://www.msfc.nasa.gov/openhouse/>

Food and refreshments also can be purchased. And there'll be plenty of it: The cafeteria in Building 4203 of the Von Braun Complex will serve inside, and on 12 service lines outside on the tree-shaded patio. The menu: chicken fingers, hot dogs, potato salad, chips, cookies and soft drinks. Plus, three roving food service trucks will appear throughout the day at tour stops, with snack foods, soft drinks and water for the famished and thirsty.

Visitors can enter Redstone Arsenal for the Marshall Open House through three gates on May 16: Gate 9, at the Rideout Road exit of Interstate 565; Gate 8, at Drake Avenue and Jordan Lane; and Gate 7, at Zierdt Road near the Huntsville International Airport.

A large, 17-by-28-inch color map of Marshall Center, as well as the information-packed Marshall booklet, will be distributed to visitors as they enter the arsenal. Every tour stop is accessible to the handicapped.

For further information on the Open House, call toll free, seven days a week, 24-hours a day, 1-888-901-NASA (6272); or May Wales at (256) 544-5552. Or visit the Open House Website at: <http://www.msfc.nasa.gov/openhouse/>

Upcoming

Moon Buggy Race Nears

Teams representing colleges and high schools from across the country are preparing to demonstrate their engineering and racing skills by competing in the Fifth Annual Moon Buggy Race April 18 at the U.S. Space and Rocket Center. Questions should be directed to Marshall's Public Inquiries Office at 4-9492, or to Jim Dowdy at 4-7604.

Laundry, Dry Cleaning In 4200 Closes April 8

The laundry, dry cleaning and shoe repair drop-off service located in Bldg. 4200, Room G-37, will close April 8.

All claims should be settled with the concessionaire prior to April 8. The NASA Exchange regrets any inconvenience to the Marshall employees caused by this action.

Employee Ads

Miscellaneous

- ★ Complete computer set, Tandy CPU and Epson color monitor, with all documentation, \$200. 534-4968
- ★ Panasonic cell phones, alphanumeric storage, home charger, car adapter, leather case, \$25. ea. 851-2929
- ★ 1988 Dynatrak fish and ski boat, 17.5ft., \$5,100. Pager 340-6088 or home 306-1094
- ★ Dual bag dust collector, new, never used, 2HP 1200 CFM, three inlet ports, \$225. 852-7180
- ★ Cardioglide exercise rider, \$45; Wagner 100W paint sprayer, \$35. 971-9710
- ★ Discontinued Denium Days, \$75 ea.; Discontinued Circle of Friend, \$50 each. 232-4305
- ★ Golf clubs, Dunlop men's set with bag, never used, \$85. 882-1780
- ★ Steel cross bed truck tool box, chrome lids, locks, \$60. 881-9094
- ★ Tow dolly, heavy duty, two wheel drive-on, \$550. 461-8721
- ★ Duracell DR-12 rechargeable battery for Canon camcorders, no memory effect, 3.5 hour, used twice, \$45. 895-9520
- ★ Longaberger basket, Christmas collection, 1988 edition, "Poinsettia basket", \$90. 232-4168
- ★ Juice Maverick 350 watts, built-in bowl, large pulp container, used once, \$25. 837-5035 after 6:30 p.m.
- ★ Child's bicycle, 12 inch, new, \$30; toddler Graco play yard, \$25; remote control cars/toys, \$25. 772-4153
- ★ 6 oak chairs, cane bottom, 4 good, 2 need help, all for \$200 o.b.o. 232-4168
- ★ Solar hot water panels & tanks, 931-0351 after 5 p.m.
- ★ Pair 150 Watt, 3-way A/V monitor; removable grill cloth, cab, size 27"x15"x11.25", 12" PP woofer, 4" mid-range, 3" tweeter, still in box, \$180. 778-7867

Vehicles

- ★ 1996 Acura RL, premium package, leather interior, white, sunroof, \$30,000. 890-0297
- ★ 1991 Ranger XLT supercab, V-6, 5-speed, A/C, bedliner, sport wheel, 90K miles, \$5,600. 880-9025
- ★ 1983 Honda Accord LX, 233K miles, \$1,000. 828-7803
- ★ 1991 Buick Regal custom, 4-door, PW/PD/PL, cruise, tilt steering. 533-5039
- ★ 1991 Honda Accord DX, 5-speed, A/C, PS, one owner, 114K miles, \$5,200. 729-8089
- ★ 1982 Ford F150, auto., air, PS/PB, rebuilt motor, rebuilt transmission, \$2,500. 353-6358
- ★ 1996 Nissan 240SX-SE, sunroof, CD, new tires, extended warranty, 5-speed, sport package, \$16,000 negotiable. 772-3800
- ★ 1991 Nissan Stanza XE, 82K miles, AT/AC, cruise, AM/FM cassette, \$4,800. 534-7577
- ★ 1991 Ford Taurus GL, V-6, 4-door, AC/PW/PL, AM/FM cassette, 119K miles, leave message. 830-8354
- ★ 1986 Astro van, high mileage, \$1,850 o.b.o. 852-8910
- ★ 1994 Honda Passport low mileage, rebuild, title below wholesale, \$10,800 o.b.o. 852-8910
- ★ 1997 Mercury Tracer LS, 20K miles, auto, warranty, 4-door, \$10,500. 883-0282
- ★ 1993 Eagle Talon, 3-dr.LBK DL, 61K miles, one owner, PS/AC, cassette, tilt steering, \$5,900 o.b.o.

- 837-9794 or 536-0763
- ★ 1990 Ford Ranger V-6, 4.0L, automatic transmission, high mileage, \$3,200. 883-5823
- ★ 1985 K5 Blazer, 2WD, 125K miles, \$3,300. 883-7695
- ★ 1990 Cadillac Seville, 84K miles, \$7,900 or best offer. 883-5900
- ★ 1991 Jeep Laredo 4x4, 4.0L, PW/PL, 112K miles, hunter green, \$7,500. 230-0503
- ★ 1990 Ford Ranger V-6, 4.0L, automatic transmission, high mileage, \$3,200. 883-5823
- ★ 1967 Mercury Cougar 6.5 liter, auto, PS/PB, bench seat hard top, 50% restored. 778-7867
- ★ 1989 Toyota Camry, 4-cyl., 5-speed, A/C, one owner, \$3,000. 880-9400 after 5 p.m.

Lost

- ★ Keys found in bldg. 4612 parking lot, call 4-2698 to identify.
- ★ Ladder found on Rideout Road at bldg. 4619, call 4-4758 to identify.

Center Announcements

- ✦ **EWS Test** — The monthly test of the Emergency Warning System has been scheduled for April 2 at 3 p.m. This is an audio test only. Do not evacuate to protective areas. If severe weather is occurring at this time, the test will be rescheduled to a later date. Safety coordinators/monitors should send reports of malfunctioning speakers to AB11/Emergency Preparedness Officer, 4-5187, as soon as possible.
- ✦ **AFGE** — The next monthly meeting for the AFGE-Local 3434 Union will be held on April 14, 11:30 to 12 noon in Bldg. 4200, room P106.
- ✦ **Facilities** — The Facilities retirement breakfast will meet at Shoney's at the corner of University and Parkway on April 14 at 8 a.m.
- ✦ **STOP ABUSE** — Aware of waste, fraud or abuse? Phone the MSFC Office of Inspector General at 544-9188 or send complaints to mail stop M-DI. Confidentiality will be maintained.
- ✦ **Procurement** — The Procurement Office Retirees will meet for breakfast at 9 a.m. April 7 at Shoney's, Haysland Square. For additional information call Carl Melton at 837-5604
- ✦ **EAP Lunch & Learn** — MSFC will offer a Lunch and Learn Seminar, April 1, 12 noon to 12:45 p.m. in the Morris Auditorium on the topic "Decreasing One's Risk of Skin Cancer." Dr. John K. Sowell, a Huntsville dermatologist, will speak. All Marshall employees, on-site contractor and family members are invited to attend.
- ✦ **MARS Flying Club** — NASA is now more involved in supporting general aviation. We have an IFR certified Cessna 172 aircraft and if you are a pilot or interested in becoming a pilot we invite you to become a member of our club. Without future pilots and other interested personnel, general aviation will cease to exist. Contact Otha H. "Skeet" Vaughan at 922-5893 or 881-2566 or Lewis Moore at 4-2516 or 536-3231 for information or to become a member.
- ✦ **NASA Job Fair** — NASA's Ames, Stennis, Goddard, and Langley Centers will participate in an on-site job fair to be held in MSFC's CTAP Center, Bldg. 4200,

room G-13, ending April 1. Each Center will recruit for a variety of vacancies, accept applications and interview interested NASA employees. Planned activities vary, contact the CTAP Center at 5-1354 (961-1354 if dialing off-site) for more information.

- ✦ **Spring Dinner Dance** — Tickets for the April 11 Dance are now on sale by the MARS Ballroom Dance Club. The semi-formal event will be held in the VBC West Hall and will feature ballroom music by the Barry Orth Orchestra. Social will begin at 6:30 p.m., and a buffet dinner will be served at 7 p.m., followed by dancing from 8 to 11:30 p.m. Tickets are \$18 per person. Paid-up members get a \$3 discount and a free ticket for each ticket purchased. They are available from Tamara Landers (4-6818), Pat Sage (4-5427), Ed Ogozalek (837-1486, Linda Kinney (4-0563, and Bob William (4-3998). Reservations for a table of 8 can be made by calling Woody Bombara (650-0200).
- ✦ **Training Opportunity** — The Program/Project Management Initiative announces that the third Project Management Shared Experiences Program course "Creative Approaches in Project Management" will be held April 20-24 at the Ramada Inn Hagerstown, MD. If interested contact Sherry Douglas at 202-554-8677 ext. 27 or e-mail at sdouglas@tadcorps.com.
- ✦ **MARS Tennis Club** — The MARS Tennis Club invites you to join us for an exciting year of tennis. The signup period starts now until April 12 for club membership, singles and doubles ladder competition. A two week challenge period is scheduled from April 12-26. Individual membership cost is \$18, whole family \$25 and persons to participate in a ladder \$10. Note to current members: First clean-up day is April 4 starting at 8:30 a.m. Contact Mike Moore at 4-7176, Bill Baker at 4-6686 or Tom Sutherland at 4-7704 for more information.
- ✦ **Public Inquiries** — Please visit the Public Inquiries Office located in Bldg. 4200, room 101. Imagine manufacturing medicine that is far superior to drugs made on Earth, a movie studio where out-of-this world effects won't be just "special effects" and booking your accommodations at a bed and breakfast in space—a place to rest and relax after a round of golf without the effects of gravity. Read about these and more in the Advanced Space Transportation Program brochure. Other publications and handouts related to Marshall and NASA are available.
- ✦ **Annual Easter Egg Hunt** — The annual NASA Exchange-sponsored Easter Egg Hunt is scheduled for April 5 at 2 p.m. In case of rain, the event will be held April 11. Children of Marshall employees and on-site contractors may participate. Contact Gena Marsh, 4-0128 or Donna Mahieux, 4-7511.

Job Opportunities

CPP 98-18-CP, Accounting Technician, GS-525-5/6/7 (2 vacancies), Office of Chief Financial Officer. Closes April 6.
Reassignment Bulletin: 98-12-CV, AST, Aerospace Flight Systems, GS-861-14 (Multiple Vacancies), Microgravity Research Program Office, MSFC Microgravity Science & Applications Projects Office. Closes April 3.

MARSHALL STAR

Marshall Space Flight Center, Alabama 35812

The Marshall Star is Published every Wednesday by the Public Affairs Office at the George C. Marshall Space Flight Center, National Aeronautics and Space Administration. Contributions should be submitted no later than Friday noon to the Marshall Public Affairs Office (CA10), Building 4200. Submissions should be written legibly and include the originator's name. The Marshall Star does not publish commercial advertising of any kind.

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U.S. Government Printing Office 1998-633-111- 80003

BULK RATE
Postage & Fees PAID
NASA
Permit No. G-27