



"We bring people to space — We bring space to people"

'Care Enough to Share Enough'

Combined Federal Campaign kicks off Monday

by Sherrie Super

Huntsville television news anchor Liz Hurley will be the keynote speaker Monday at the Combined Federal Campaign Kickoff at Marshall.

The kickoff event will be from 9-10 a.m. in Morris Auditorium, followed by a "fair" featuring the campaign's recipient agencies from 10:30-11 a.m. at the Sparkman Center on Redstone Arsenal.

Federal employees, current and retired, and on-site contractors participate in the Combined Federal Campaign, conducted each fall. The fund-raising campaign benefits thousands of non-profit charities in hometown communities nationally and throughout the world. This year,

Marshall's goal is to raise \$416,000.

Special guest speaker at the kickoff event will be Terry Morris, an electrical engineer at NASA's Langley Research Center in Hampton, Va. He will share his personal story of triumph over adversity — a story of rising above poverty that he's told to audiences throughout the country, including at the White House.

Entertainment includes the Lee High Trouveres, an award-winning choir of 26 singers and dancers; and Renee Olstead, a 10-year-old actress and singer beginning a career in feature films. Attendees will be eligible for door prizes.

"This year's theme is 'Care Enough to
See CFC on page 2



Liz Hurley

Chandra Observatory discovers brilliant ring around cosmic powerhouse in Crab Nebula

After barely two months in space, the Marshall-managed Chandra X-ray Observatory has taken a stunning image of the Crab Nebula, the spectacular remains of a stellar explosion, and has revealed something never seen before: a brilliant ring around the nebula's heart.

Combined with observations from the Hubble Space Telescope, the image provides important clues to the puzzle of how the cosmic "generator," a pulsing neutron star, energizes the nebula, which still glows brightly almost 1,000 years after the explosion.

"The inner ring is unique," said Professor Jeff Hester of Arizona State University in Tempe, Ariz. "It has never been seen before, and it should tell us a lot about how the energy from the pulsar gets into the nebula. It's like finding the transmission lines between the power plant and the light bulb."

Professor Mal Ruderman of Columbia University in New York City, agreed. "The X-rays Chandra sees are the best tracer of where the energy is. With images such as these, we can directly diagnose what is going on."

What is going on, according to Dr. Martin Weisskopf, Chandra project scientist from Marshall, is awesome. "The Crab pulsar is accelerating particles up to the speed of light and flinging them out into interstellar space at an incredible rate."

The image shows tilted rings or waves of high-energy particles that appear to have been flung outward over the distance of a light year from the central star, and high-energy jets of particles blasting away from the neutron star in a direction perpendicular to the spiral.

Hubble Space Telescope images have shown moving knots and wisps around the neutron star, and previous X-ray images have shown the outer parts of the jet and hinted at the ring structure. With Chandra's exceptional resolution, the jet can be traced all the way in to the neutron star, and the ring pattern clearly appears. The image was made with Chandra's Advanced Charge-Coupled Device Imaging Spectrometer and High Energy Transmission Grating.

The Crab Nebula, easily the most intensively studied object beyond our solar system, is the remnant of a star that was observed to explode in 1054 A.D. Chinese astronomers in that year reported a "guest star" that appeared suddenly and remained visible for weeks, even during daytime. From gamma-ray

See Ring on page 3

"Use Safety to Survive"

— Safety slogan submitted by
Bob Keener, Sverdrup



CFC Speaker Series

			SEPTEMBER	OCTOBER
			30	1
			American Red Cross, Barry Porter, 9 a.m., Bldg. 4201, room 118 <hr/> CASA, Kyle Davis, 9 a.m., Bldg. 4200, room 600 <hr/> American Cancer Society, Laura Richardson, 1 p.m., Bldg. 4200, room 915	Habitat for Humanity, Madison County, Camille Solley, 9 a.m., Bldg. 4200, room 329 <hr/> Friends of the Family, Marie Dunbar, 1 p.m., Bldg. 4200, room 915 <hr/> St. Jude Children's Research Hospital, Lori Reed, 2 p.m., Bldg. 4200, room P110
4	5	6	7	8
Combined Federal Campaign kickoff, 9 a.m. Morris Auditorium with Liz Hurley, WAFF TV-48 as speaker	Salvation Army, Capt. Glenn Riggs, 10 a.m., Bldg. 4200, room 600 <hr/> Habitat for Humanity, Madison County, Camille Solley, 1 p.m., Bldg. 4203, room 2002	American Red Cross, Barry Porter, 9 a.m., Bldg. 4202, room 326A <hr/> CASA, Ann Anderson, 10 a.m., Bldg. 4203, room 6002	American Red Cross, Barry Porter, 9 a.m., Bldg. 4610, room 5025 <hr/> Am. Heart Association, Kim Jimmerson, 1 p.m., Bldg. 4200, room 600	

Graphic by Kevin Woods

*Speakers, dates subject to change without notice.

CFC

Continued from page 1

Share Enough,' and Marshall employees have a longstanding tradition of sharing with those less fortunate," said Bruce Askins, the campaign's executive chairman and a senior mechanical engineer at Marshall. "Funds raised through this year's campaign will benefit children and adults right here in our community."



Terry Morris

The six-week-long campaign includes a speaker series that is bringing representatives from various charities to the Marshall Center to make 30-minute presentations about their organizations. Special bus tours are providing Marshall employ-

ees the opportunity to visit organizations so they can see first-hand the results of their past and future donations.

"A goal of this campaign is to help our employees become informed givers," Askins said. "That's one reason Liz Hurley is an ideal keynote speaker. Her hands-on involvement with local charities, combined with her own battle with cancer, has been inspiring to many."

Hurley is an award-winning broadcast journalist who has covered events in the Tennessee Valley since 1983. She anchors the evening news for WAFF-TV in Huntsville. After she was diagnosed with breast cancer, Hurley kept viewers apprised of her progress, recording on videotape her treatment and surgery. On and off the air, she continues to promote early detection of the disease, stressing the importance of monthly self-exams and yearly mammograms starting at age 40. October is National Breast Cancer Awareness Month.

The fair that follows the kickoff will give the Marshall community another opportunity to learn about organizations supported by the campaign. This year's fair is being organized by the Tennessee Valley Combined Federal Campaign Organizing Committee. More than 20 agencies will participate.

The writer, a contractor employed by ASRI, supports the Media Relations Department.

Ring

Continued from page 1

telescopes to radio telescopes, the Crab has been observed using virtually every astronomical instrument that could see that part of the sky.

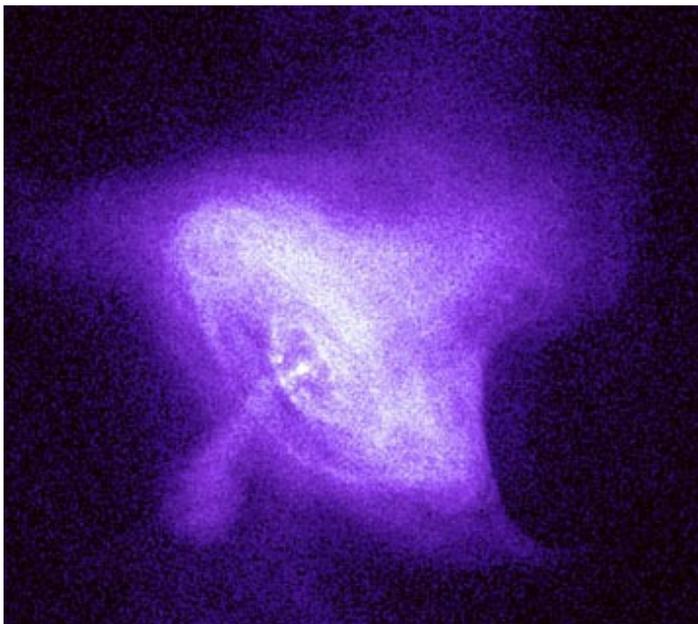
Unraveling the mysteries of the Crab has proven to be the door to insight after insight into the workings of the universe. The Crab convincingly tied the origin of enigmatic "pulsars" to the stellar cataclysms known as supernovae. Observations of the expanding cloud of filaments in the Crab were instrumental in confirming the cosmic origin of the chemical elements from which planets (and people) are made.

The nebula is located 6,000 light years from Earth in the constellation Taurus. The Crab pulsar, which was discovered by radio astronomers in 1968, is a neutron star rotating 30 times per second. Neutron stars are formed in the seconds before a supernova explosion when gravity crushes the central core of the star to densities 50 trillion times that of lead and a diameter of only 12 miles.

Another consequence of the dramatic collapse is that neutron stars are rapidly rotating and highly magnetized. Like a gigantic cosmic generator, the rotating magnet generates 10 quadrillion volts of electricity, 30 million times that of a typical lightning bolt.

"It is an incredibly efficient generator," Ruderman explained. "More than 95 percent efficient. There's nothing like it on Earth."

Chandra images are posted to the Internet at:
<http://chandra.nasa.gov>
and <http://chandra.harvard.edu>



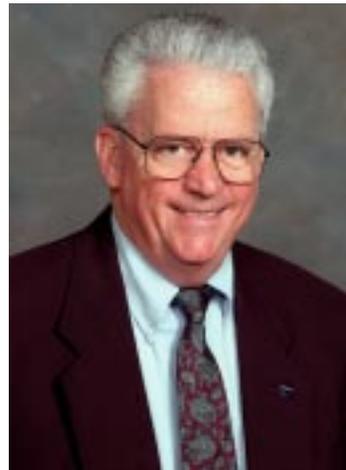
NASA/CXC/SAO

This Chandra image shows the central pulsar of the Crab Nebula surrounded by tilted rings of high-energy particles that appear to have been flung outward over a distance of more than a light year from the pulsar. Perpendicular to the rings, jet-like structures produced by high-energy particles blast away from the pulsar.

Key Personnel Announcement

Robert O. McBrayer has been named director of Marshall's Systems Management Office. He currently serves as deputy director in the Safety and Mission Assurance Office.

McBrayer began his federal career with NASA in 1963 at Johnson Space Center. In 1966, he transferred to Marshall as Skylab crew interface coordinator where he



Robert McBrayer

received a NASA invention award for improving the quality of astronaut survival equipment and reducing spacecraft weight for launch. He has more than 25 years of project management experience.

Prior to his assignment as deputy director of the Safety and Mission Assurance Office, he held positions as deputy manager in the Microgravity Science and Applications Projects Office; manager of the Tethered Satellite System Project; manager of the Lunar Ultraviolet Telescope Experiment Task Team; and mission manager of the First International Microgravity Laboratory Spacelab Mission.

ISO 9001

All NASA Centers, Headquarters meet registration requirements

As of Sept. 17, all NASA Centers, NASA Headquarters, the Jet Propulsion Laboratory and all of NASA's government operated facilities have achieved ISO 9001 registration or been recommended for registration.

The Marshall Center received its recommendation for ISO 9001 registration in February 1998.

With this accomplishment, NASA became the world's first federal or state agency with multiple sites to have all its sites under ISO 9001 registration. NASA Headquarters is among the first corporate headquarters offices in the world to achieve its ISO 9001 registration.

NASA Administrator Daniel S. Goldin challenged NASA in November 1996 to have all the Agency's facilities certified by September 1999. "We are leaders in the world of science and technology. We must also be leaders in the world of quality. This commitment applies to all Centers and Headquarters."

Community Service Day

Marshall employees, contractors pitch in to help Combined Federal Campaign agencies

More than 70 Marshall employees and contractors “gave back” to local non-profit agencies during the fifth annual Community Service Day Sept. 25. Agencies benefiting from the extra help were Technology Assistance for Special Consumers, Christmas Charities Year Round, Habitat for Humanity, Salvation Army, and Care Assurance System for the Aging and Homebound. “Thanks to event coordinator Rachel Kamenetzky and the volunteers for making this experience possible,” said Center Deputy Director Carolyn Griner.



Irene Taylor, left, Cathy Miller, center, and Jean Payne paint a deck for CASA.



From left, Carolyn Griner, Nancy Guire, Lauren Christian and Dawn Christian get the paint ready.



Workers measure wood for a window.



A youngster selecting clothing from the Christmas Charities store shows his preference.



Bruce Askins, Marshall's Combined Federal Campaign chairman, helps Christmas Charities Year Round.



Marianne Higgins and Jim Kennedy paint a house for Habitat for Humanity.



Ann Whitaker, left, and Cindy Upton serve meals at the Salvation Army.



Hauling rocks in a wheelbarrow is heavy work.



Marshall volunteers play Santa's helpers to fix toys for children.

Photos by Marshall's Imaging Services photographers

Upcoming Events

Windmills Training — The Equal Opportunity Office is sponsoring the “Windmills” Attitudinal training Program on Oct. 14, in Morris Auditorium. There will be three sessions: 8-10 a.m., 10:30 a.m.-12:30 p.m., and 1:30-3:30 p.m. A training form 59 is not required; however, a training roster will be available at the auditorium entrance. The training is recommended for all supervisors and managers and will be beneficial for all employees. The training focuses on attitudes and human factor but also addresses issues including legal requirements and accommodations.

Flu Shots — The Medical Center is offering flu shots to on-site civil service and contractor personnel at the following dates and locations: Oct. 5, noon-3 p.m., Bldg. 4200, room G13; Oct. 13, 9 a.m.-noon, Bldg 4610, room 1054; and Oct. 20, 1:30-3:30 p.m., Bldg 4249. Employees are reminded to wear short sleeves.

Marshall Center Safety Awareness Day — The Marshall Center Safety Awareness Day kickoff will be held at 8:30 a.m. Oct. 20 in Morris Auditorium. Astronauts will spend time with employees at Marshall during a picnic lunch being held from 11 a.m.-1 p.m. at the Picnic Pavilion. Tickets cost \$2 each and are available through admin officers. Deadline is Oct. 8. Transportation will be arranged and bus routes announced. Complete information is available on the Web at:

<http://SafetyDay.msfc.nasa.gov:1999/index.html>

National Depression Screening Day — The Ninth Annual National Depression Screening Day is Oct. 7. A screening hotline at 1-800-449-8605 has been established for use by all NASA employees and their families. The screening is confidential. For more information or to learn more about how depression can impact your life, call Dr. Bruce Mather with the Employee Assistance Program at 544-7549.

Hispanic Food Tasting — An Hispanic Food Tasting Fair will be held Oct. 7, from 1-2 p.m. at the outdoor food court next to Charlie's Grill in Bldg. 4200. The fair features Hispanic music, Cuban sandwiches, Puerto Rican pork roast, Mexican flautas, rice and chips. Attendees are asked to bring a beverage and eat a light lunch beforehand.

Safety Training — A Mishap Investigation Refresher Course will be held Oct. 6-7 from 8 a.m.-4:30 p.m. in Bldg. 4200, room G-21. This course will update the student's knowledge of NASA mishap investigation policies, procedures and requirements. Safety professionals, engineering and technical personnel, and supervisors or managers who may be selected to participate in NASA mishap investigations should attend. Anyone interested in enrolling for the course must send an e-mail to Laura Groce by close of business Thursday. Seating is limited.

EOC organizes volunteer storm spotter network

by Joyce Davis

The Emergency Operations Center (EOC) has organized a group of 11 civil service volunteers to serve as Marshall storm spotters during severe weather.

These volunteers have been trained by the National Weather Service Office at Birmingham and will attend additional training, as it becomes available in this area. Some volunteers already serve as spotters for surrounding communities.

Spotters will be positioned in various buildings throughout the Center and will enable the Operations Center to acquire critical information on approaching severe local storms. This information, coupled with radar and other data, will greatly assist the Operations Center staff in determining when to evacuate employees to protective areas.

Previously, the Protective Services Department has provided two guards to act as spotters on the 7th and 10th floors of Bldg. 4200. Two spotters will take over those posts, freeing the security guards for other duties.

The writer is Marshall's emergency preparedness officer.



Photo by Terry Leibold, NASA/Marshall Space Flight Center

Volunteer storm spotters, front row from left: Rick Wallace, Engineering Directorate; David Martin, Center Operations Directorate; Mark Henderson, Center Operations; Joyce Davis, emergency preparedness officer; Betty Fowler, Center Operations; and Marvin Nowlin, Safety and Mission Assurance Office. Back row from left are: Gary McGriff, Engineering Directorate; Scott Moore, Office of the Chief Financial Officer; Dan Crock, EG&G's Emergency Operations Center support contractor; and Ralph Heusinger, Engineering Directorate. Spotters not shown are NanceJo Ogozalek, Engineering Directorate, and Jeff Jackson, Procurement Office.

Marshall celebrates
Chandra's success
Oct. 15

Telling the Marshall story

Microbiologist enjoys working with area schools

by Debra Valine

With three school-age boys of her own, Monsi Roman knows how important it is to stay involved with the schools and with her sons' education. She also knows the importance of public awareness of projects under development at the Marshall Center.

The Marshall microbiologist combines her knowledge of International Space Station life support systems with her desire to stay involved in local schools by volunteering to speak with area teachers about her work. Roman is one of a pool of volunteers who routinely visits schools or attends workshops to promote work on the Space Station and other Marshall projects.

Her three children, Jose A., 10, Alex, 7, and Diego, 5, are her reasons for becoming involved with the LASER program — a Marshall teacher outreach effort.

Science in Motion Workshop

Last Saturday Roman spoke to 30 area high school teachers about living in space at the Science In Motion Workshop held at the Educator Resource Center at the U.S. Space & Rocket Center. The workshop was co-sponsored by the Educator Resource Center, the Huntsville Botanical Garden and Alabama A&M University.

Roman, who works in the Environmental Control and Life Support Group of the Flight Projects Directorate, is one of a team that designs and tests hardware for water and air that will be used on the Space Station. She said the systems being developed at Marshall are a big improvement over what was used on the Russian space station Mir.

"For the new International Space Station, the life support systems will be separate for the Russians and Americans," Roman said. "The water systems will never interact, but the air will have a little interaction as the inhabitants of the Space Station move from module to module. While the Station is being finished, we are using the Russian life support system, but when the Space Station is fully operational in 2004, the U.S. systems will be in place and working."

Three exciting projects

Roman said she is particularly excited about three projects she is working on.

One of them is a portable fan for the Space Station that the crew can use whenever they need it — perhaps when they are exercising or during rack rotation. "We took it from concept to design to buildup," Roman said. "We are currently building it, then we will test it. It should be flying soon."

Another project is an interactive exhibit of the Space Station's life support systems being built for use as part of the Space & Rocket Center tour to Marshall. "We are building a mock-up of



Photo by Emmett Given, NASA/Marshall Space Flight Center

Monsi Roman, a microbiologist with the Environmental Control and Life Support Group, shows special utensils, designed by Oneida for astronaut use, to teachers attending the Science in Motion Workshop at the Educator Resource Center Sept. 18.

the Environmental Control and Life Support Systems, with three racks to demonstrate how oxygen and water are collected and purified for subsequent use. A video will explain what we do and will recognize Marshall as the only NASA Center that is making it happen. The exhibit has been requested for use at Disney World's Epcot Center in Orlando, Fla., at a science exhibit in March 2001."

"The Marshall Educator Resource Center uses many scientists and engineers from Marshall as volunteer presenters for teacher workshops. Monsi is one of our favorite volunteers because she has an upbeat enthusiasm that lights up the resource center. Her knowledge of her subject matter is sprinkled with great explanations."

— Alease Sims, a contractor employed by Ai Signal Research Inc., is the Educator Resource Center coordinator.

Roman also is involved with a three-year experiment to test the lines carrying wastewater aboard the Space Station. The experiment will assess the amount of microbiological material buildup and how long it could take before the lines become blocked.

Originally from Guaynabo, Puerto Rico, where she lived most of her life, Roman has resided in Huntsville 15 years and has worked at Marshall for a decade. She completed a bachelor's degree in biology at the University of Puerto Rico at Rio Piedras before accompanying her husband, Jose M. Roman, to Huntsville. He is an aerospace engineer in the Structures, Mechanics and Thermal Department in Marshall's Engineering Directorate.

Soon after coming to Huntsville, she began attending the University of Alabama in Huntsville (UAH), started her family, began working at Marshall, and then completed her master's degree in microbiology. She is considering returning to school if UAH offers a doctorate program next year.

The writer, a contractor employed by ASRI, is the Marshall Star editor.

Y2K Awareness Day

Several NASA and contractor organizations as well as Huntsville community businesses offered Marshall employees information and helpful hints in addressing Y2K concerns during the recent Year 2000 (Y2K) Awareness Day. Representatives from the American Red Cross, Huntsville Utilities, Huntsville Hospital, City of Huntsville, cellular phone providers, Kroger, local banks and Redstone Federal Credit Union were on hand to answer attendees' questions and provide literature on Y2K compliancy of their organizations. Watch the Marshall Star each week for tips on the Countdown to Y2K, provided by the Information Services Department.



"Yes, NASA paychecks will be delivered!" was the advertisement at the Chief Financial Office's booth at the recent Y2K Awareness Day at Marshall.

Photos by Terry Leibold, NASA/Marshall Space Flight Center



Marshall's Information Services Department hosted the event.

Marshall Fitness Center offers new service, equipment

by Debra Valine

Some employees who work with computers all day experience the nagging pain of a stiff neck and shoulder caused by stress. Maybe deadlines are piling up or personal problems are adding stress.

The Marshall Fitness Center, located at the NASA Exchange, Bldg. 4752, offers two new effective ways to combat daily stress and improve overall health and well being. Fitness services are available free to Marshall civil service employees, and for a nominal fee to their family members and to retirees.

The newest service being offered is neuromuscular massage therapy. Licensed

therapist Bill Carter, who works by appointment only, can help employees with sports-related injuries or upper or lower back pain. Besides being a great way to release stress, massage therapy also provides head, neck and shoulder tension relief, enhances circulation and balances the nervous system.

"We work at computers all day and stress builds up," Carter said. "People have deadlines and expectations of what needs to be done and when, and that can affect performance. Massage and neuromuscular therapy have been proven to improve production, relax muscles and increase mental ability. It is probably one of the oldest healing practices, yet one of the least known."

Appointments are available between 5 a.m. and 5 p.m. Fees are \$15 for a 15-minute chair massage, \$25 for a half-hour treatment and \$45 for a one-hour, full body treatment. To schedule an appointment, call 544-9350 or 683-1124.

Another effective stress reducer is exercise.

The fitness center hosts a wide variety of new cardio and strength training equipment. The new equipment, added in mid-September includes new elliptical trainers and state-of-the-art strength machines such as a glute trainer, chest and bench press, pec deck and rear deltoid, abdominal crunch, and overhead shoulder press.

Fitness staff members Mike Clark and Pat Mirandy can help clients adapt their current programs to the new equipment through the "Program Adjustments" class. "Orientation to the Fitness Center" classes are available for novice exercisers, providing information on the center's services and programs.

"The new equipment and our neuromuscular therapist are part of a continuing process to anticipate customer needs and deliver," said Michele Miller, the NASA Exchange manager.

Hours of operation are 5 a.m.-7 p.m. Monday-Saturday. Beginning Oct. 1, the center will be closed Sundays. "The change in hours — closing the facility on Sundays — and our "program adjustment" and orientation classes, are all part of our commitment to customer safety," Miller said. For more information, call 544-3337 or 544-7570.

The writer, a contractor employed by ASRI, is the Marshall Star editor.



Photo by Doug Stoffer, NASA/Marshall Space Flight Center

Marshall retirees Alan Dunkin, left, and Bob Weir work out on the new strength training equipment installed at the Fitness Center.

Employee Ads

Miscellaneous

- ★ 12" Delta wood planer, \$175; Olympus IS1 camera, \$125. 461-7678 after 3 p.m.
- ★ Treadmill, Weslo, electric, excellent condition, \$200. 509-6424
- ★ Electronic Neuromuscular Stimulator (E-Stem) used for physical therapy of wrist/hand, \$400. 430-4312
- ★ Bedliner, 97-00 Ford F150, short bed, new \$100; Uniden in-car cell phone w/hands-off microphone, \$25. 656-8676
- ★ Macintosh 6100/60 w/17" monitor, keyboard, various software, easy upgrade to G3, \$500. 837-0656/bwalls@pobox.com
- ★ Orange and yellow female canary, \$35. 534-5653
- ★ Field fence, one roll, 47", Red Top, 12-1/2 gauge, new, two 165' pieces, \$55. 864-8042
- ★ Larson 1-1/4" thick, 36" full-view, brown storm door, solid brass handle w/keylock, new in-box. 883-8257
- ★ Oriental rug, handmade, 100% wool, 9x12, beige w/floral border and center, \$500. 931-427-2966
- ★ Cement mixer, electric, \$150; Roto-Tiller needs 5HP engine, accessories: plow, cultivator, wheels, tires, \$75. 753-6230
- ★ Brambach upright piano w/bench, recently tuned, excellent condition, \$700. 971-9710
- ★ Excellence dorm fridge, \$50. 895-6640
- ★ Walnut veneer twin bed set, (circa 1928): two poster beds, dresser w/mirror, matching chair. 830-9331
- ★ Discount SeaWorld tickets, unused due to hurricane Floyd, expire 3/2000. 858-0700
- ★ White toddler bed with side rails, includes mattress, \$25. 772-3800
- ★ Two men's 10-speed bikes Raleigh Super Course and Schwinn Volare, \$150 each. 539-0263
- ★ Pink satin comforter, curtains, shams, tablecloth, princess chair, from Spiegel, \$175 firm. 971-0048

Vehicles

- ★ 1994 Nissan Sentra-XE, 90K miles, white, auto, a/c, am/fm cassette, \$4,000 obo. 772-9930
- ★ 1987 VW Quantum SW, Syncro model, one-owner, 162K miles, excellent condition, \$3,900. 771-7590
- ★ 1989 GMC S-15, 4-cylinder, no a/c, 215K miles, good work/school vehicle, \$1,500 firm. 498-3229

- ★ 1990 Lincoln Towncar, leather, all extras, excellent condition, 73K miles, \$6,500. 931-433-4276
- ★ 1986 Honda Accord, LX/i hatchback, 5-speed, a/c, 190K miles, new tires, muffler, tune-up, \$2,900 negotiable. 837-0656
- ★ 1992 Nissan pickup, automatic, a/c, cassette, white/maroon, two new tires, \$3,900. 880-9025
- ★ 1997 Mitsubishi Galant ES, 4-door, power windows/locks, keyless entry, a/c, CD, cruise, \$12,000. 859-6574
- ★ 1996 F250 4x4 Powerstroke, 80K miles, gooseneck & 5th wheel hookup, excellent condition, \$16,500. 828-0060
- ★ 1985 Honda wagon, extra clean, one-owner, \$2,000 obo. 883-7851
- ★ 1991 Nissan Sentra GXE, red, 5-speed, power windows, mirrors, locks, moonroof, \$3,000 obo. 859-9914/horvath@hiwaay.net
- ★ 1996 Acura Integra LS, auto, loaded, 33K miles, moonroof, spoiler, alloy wheels, CD/cassette, one-owner, \$14,995. 337-1444
- ★ 1992 Acura Integra GS-R, red, two-door hatchback, 5-speed, sunroof, a/c, am/fm stereo cassette, cruise, \$6,400 obo. 764-2492
- ★ 1993 Dodge Caravan LE, loaded, all power, alloy wheels, trip computer, well maintained, \$5,300. 721-9005

Lost

- ★ Pyrex baking dish, 9"x13"; Pyrex loaf dish, 4.5"x8.5"; 12"x18" plastic pan w/lid; Bldg. 4203, first floor. 881-6040

Found

- ★ Coin purse/wallet, south lot @ Bldg. 4200 on 9/23 around 5:30 p.m. Call 544-1799 to identify

Wanted

- ★ Slate pool table. 747-1281
- ★ Used bunk beds w/springs. 881-5397
- ★ Browning shotgun at reasonable price. 883-7851
- ★ Two Auburn/Miss. State tickets. Call 539-3166

Center Announcements

- ☛ **Black History Month Volunteers** — Volunteers are being accepted to chair or serve on various committees for the Year 2000 Black History Month activities in February. To volunteer, call Dawn Cross at 544-1835 or James Bailey at 544-

2523 by Thursday.

☛ **Photo Lab Retirees Meet** — Photo Lab retirees will meet at 9:30 a.m. Oct. 5 at Shoney's at Memorial Parkway and University Drive. For more information, call Charles Allen at 852-0917.

☛ **Procurement Office Retirees Meet** — Procurement Office retirees will meet for breakfast at 9 a.m. Oct. 5 at Shoney's at Memorial Parkway and University Drive. For more information, call Carl Melton at 837-5604.

☛ **Osteoporosis** — A "Lunch and Learn" featuring an update on osteoporosis will be presented in Morris Auditorium on Thursday from 11-11:45 a.m. Jane C. Odle, the director of the Comprehensive Osteoporosis Center and executive director of Rheumatology Associates of North Alabama, will speak on the issues surrounding osteoporosis prevention and treatment.

☛ **Breast Cancer Awareness** — The "Lunch and Learn" series will present a breast cancer awareness workshop Oct. 7 and 28, from 11 a.m.-noon in Bldg. 4200, room P110. Call Rita Evans-McCoy at 544-7507.

☛ **Veterans Day Parade** — Marshall Center employees and contractors who are veterans may volunteer to participate in this year's Veterans Day parade on Nov. 11 in Huntsville. Volunteers are needed to help build a float representing the Marshall Center and also to march in the parade. To volunteer, call Shelvie Miller of the Equal Opportunity Office at 544-0090 by Oct. 29.

Job Opportunities

Senior Executive Service Candidate Development Program, Announcement Number SESCDP-99. Closes Oct. 29. Open to all Federal employees.

CPP 99-126-CV, Management Support Assistant (OA), GS-303-7, Customer and Employee Relations Directorate, Media Relations Department. Closes Oct. 4.

Reassignment Bulletin: 99-19-JB, AST, Technical Management, GS-801-13, Center Operations Directorate, Logistics Services Department, Transportation & Logistics Engineering Group. Closes Oct. 5.

CPP 99-124-JB, Contract Specialist, GS-1102-9/11, Procurement Office. Closes Oct. 6.

CPP 99-125-JB, Contract Specialist, GS-1102-5/7, Procurement Office. Closes Oct. 6.

MARSHALL STAR

Vol. 40/No. 5

Marshall Space Flight Center, Alabama 35812
(256) 544-0030
<http://www1.msfc.nasa.gov>

The Marshall Star is published every Thursday by the Internal Relations and Communications Department at the George C. Marshall Space Flight Center, National Aeronautics and Space Administration. Contributions should be submitted no later than Monday noon to the Marshall Internal Relations and Communications Department (CD40), Bldg. 4200, room 101. Submissions should be written legibly and include the originator's name. Send electronic mail submissions to: intercom@msfc.nasa.gov The Marshall Star does not publish commercial advertising of any kind.

Director of Internal Relations
and Communications — Norman Brown
Editor — Debra Valine

U.S. Government Printing Office 1999-733-111-80080

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