

Employee Update Highlights NASA Budget, ISO 9000

ISO 9000 registration and NASA's budget were two major topics of focus at last week's Employee Update by Acting Center Director Carolyn Griner.

The update also featured briefings by Marshall employees Jerald Kerby and Frank Six, as well as length-of-service awards to employees. In addition, a special briefing was made by Jim Martin, athletic director at Alabama A & M University, on last fall's NASA/High School Senior Day that garnered much support from the Marshall Center. He thanked Griner and Marshall employees for their involvement and extended an invitation for the Center to play an active part again this year.

Kerby discussed the results of Marshall's new informal, Web-based suggestion program called IDEAS. The program, which was started on a pilot basis in June 1997, has been evaluated to determine if it should continue. The results, said Kerby, are that it has been successful and the program will continue on a permanent basis.

Six discussed how the Marshall Management Association is in the process of expanding its scope and changing its name. The association, said Six, is not restricted to managers nor to management issues. He further explained that membership is open to all current and former employees for a fee of \$25 per year and, among other things, the organization sponsors a scholarship fund for the sons and daughters of employees and retirees.

"Our bottom line is, our purpose is to make Marshall better," Six emphasized. "We need your help."

During her briefing, Griner shared comments made by the ISO 9000 registrars in their recent visit, which resulted in a decision that the Center will be recommended for registration.

The comments made by the registrars, according to Griner, were "Marshall is the best," and "of the aerospace companies they had seen, Marshall has shown excellence beyond other areas."

In announcing their recommendation on Feb. 27, the team of registrars did call

See Employee Update on page 4



STS-87 Astronaut Kevin Kregel compares mission patches with little Nevada Shelton during Kregel's visit to Marshall last week. Kregel, who was commander of the fourth Marshall-managed U.S. Microgravity Payload mission, presented highlights to Marshall employees. The STS-87 mission team also conducted the first flight of Marshall's Video Guidance Sensor experiment.

Photo by Emmett Given

Kilpatrick, Polites Appointed to Key Positions in Science and Engineering Directorate

John Kilpatrick has been appointed director of the Systems Analysis and Integration Laboratory and Dr. Michael Polites has been named deputy director of the Astrionics Laboratory in Marshall's Science and Engineering Directorate.

Kilpatrick formerly was chief of Operations Engineering Division, Mission Operations Laboratory. He joined the Marshall Center in 1968 as an aerospace engineer and also served as deputy chief of the Mission Systems Division and chief of the Operations Engineering Division. Kilpatrick's areas of expertise include design and analysis of spacecraft, payload development, and operations requirements



John Kilpatrick

for flight and ground systems for major programs such as Skylab, Spacelab, and the International Space Station, as well as payload development in multiple science disciplines.

Polites, who has served as Instrumentation and Control Division Chief for the Astrionics Laboratory since 1995, joined Marshall in 1967 as an aerospace engineer in the Guidance and Control Division of the Astrionics Laboratory. He was also assigned to the Systems Engineering Division, Systems Analysis and Integration Laboratory and served as chief of the Astrionics Laboratory's Instrumentation and Control Division.



Dr. Michael Polites

See Appointments on page 5

Women Continue Contributions at Marshall Center

Editor's note: The month of March observes National Women's History Month as well as the 150th Anniversary of the Women's Right Movement. The article which follows is the second of a three-part look at examples of key contributions made over the years by women at the Marshall Center.

**by Mike Wright
Marshall Center Historian**

In 1974, Marshall's **Mary Helen Johnston, Ann Whitaker, Doris Chandler and Carolyn Griner** served as an all-woman crew of scientific experimenters in a five-day, ground-based exercise in Marshall's General Purpose Laboratory, a cylindrical structure designed to approximate the size of the Spacelab module. The purpose of the exercise was to conduct 11 selected experiments in materials science to determine their practical application for future Spacelab missions. Griner, now Marshall's Acting Center Director, then was an astronautical engineer and principal investigator for five of the experiments and was co-investigator with Johnston on one other. Chandler, another Marshall Center

engineer, served as the communication contact between the crew and the "ground station." Later she would serve as a team leader for integrating experiments in the first three Spacelab missions.

Griner and Johnston, engineers assigned to Marshall's Materials and Processes Lab in 1975, were also involved in designing scientific payloads for a series of Marshall Space Processing and Applications Rockets (SPAR) that were launched in the late 1970s and early 1980s.

At about the same time, Griner, Johnston and Whitaker completed pressure suit training to help them understand problems associated with doing experiments in space.

The three also completed a training course using scuba gear in Marshall's Neutral Buoyancy Simulator, a huge water tank designed for engineers and others to simulate the near-weightless environment of space.

Alberta King, employed by Marshall

in 1961, studied how a space tug might rendezvous with the Shuttle. King had earned a bachelor's degree in mathematics and a master's degree in industrial engineering from the University of Alabama in Huntsville. King also served as a member of the team involved in controlling Skylab during its reentry into the atmosphere in the late 1970s.

During the late 1970s and early 1980s, Marshall launched three High Energy Astronomy Observatories (HEAO) designed to study the new field of high energy astrophysics. Part of the management team for that project included Marshall's **Joyce Neighbors**, who served as a senior systems engineer for HEAO, responsible for the thermal, structural and dynamic design of the three observatories.

Neighbors, who later earned a doctorate in engineering mechanics from the University of Alabama, Tuscaloosa, held a bachelor's degree in mathematics from Auburn, and a master's degree in engineering mechanics from the University of Alabama.

In 1977, as plans for the Space Shuttle moved closer to reality, **Mary Boulton**, who originally joined the Center in April 1964, was using digital and differential analyzer computers to perform studies on how the solid rocket boosters and external tank might perform after they were released from the Space Shuttle.

Earlier in her career, Boulton, who earned a bachelor's degree in math and physical science from Bethal College in McKenzie, Tenn., had worked at Marshall on lunar orbit studies and performed control systems analysis for the Saturn IB and Saturn V launch vehicles as well as the Lunar Roving Vehicle and Skylab.

In the mid-1970s, **Miriam S. Hopkins**, who had come to Marshall in the 1960s, was also working on plans for the Space Shuttle. As an aerospace engineer, she studied the reentry dynamics for the Space Shuttle external tank.

Hopkins had earned a bachelor's degree in physics and math from the University of Southern Mississippi at Hattiesburg.

(To be continued next week)



Acting Center Director Carolyn Griner (second from left) is shown with guests during the annual Community Leaders Breakfast held at Marshall last week. From left are Ronald Boles, Huntsville-Madison County Chamber of Commerce; Griner; C. Wallace Terry, Decatur Chamber of Commerce; and Linda Green, Huntsville-Madison Chamber of Commerce. The breakfast was held to familiarize area community leaders with Marshall and Marshall's economic impact in the community.

Photo by Jack Ray

Assembly of NASA's Most Powerful X-ray Telescope Completed

by John P. Bryk

Assembly of the world's most powerful X-ray telescope, NASA's Advanced X-ray Astrophysics Facility, has been completed with the installation of its power-generating twin solar panels. The observatory is scheduled for launch aboard Space Shuttle mission STS-93 in December 1998.

The last major components of the observatory were bolted and pinned into place March 4 at TRW Space & Electronics Group in Redondo Beach, Calif., and pre-launch testing of the fully assembled observatory began March 7.

"Completion of the observatory's assembly process is a big step forward toward launch scheduled for the end of this year," said Fred Wojtalik, manager of the Observatory Projects Office at NASA's Marshall Space Flight Center in Huntsville, Ala. "With all the major components in place, we are now concentrating on a thorough pre-launch checkout of the observatory."

"We're delighted to reach this major milestone for the program," said Craig Staresinich, TRW's Advanced X-ray Astrophysics Facility program manager. "The entire observatory team has worked hard to get to this point and will continue an exhaustive test program to ensure mission success. We're looking forward to delivering a truly magnificent new space capability to NASA later this summer."

The first pre-launch test of the Advanced X-ray Astrophysics Facility was an acoustic test, which simulated the sound pressure environment inside the Space Shuttle cargo bay during launch. A thorough electrical checkout before and after the acoustic test verifies that the observatory and its science instruments can withstand the extreme sound levels and vibrations that accompany launch.

"With 10 times the resolution and 50-100 times the sensitivity of any previous X-ray telescope, this observatory will provide us with a new perspective of our universe," said the project's chief scientist, Dr. Martin Weisskopf of

Marshall Center. "We'll be able to study sources of X-rays throughout the universe, like colliding galaxies and black holes, many of which are invisible to us now. We may even see the processes that create the elements found here on Earth."

Assembly of the observatory began in 1997 with the arrival of the high resolution mirror assembly at TRW Space and Electronics Group. In August 1997, the telescope's optical bench was mated with the mirrors, followed by integration of the telescope with the spacecraft in October.

In February 1998, the observatory's science instrument module was mated to the top of the telescope. The complete observatory is 45 feet long, has a solar array wing span 64 feet wide, and weighs more than 5 tons.

Using glass purchased from Schott Glaswerke, Mainz, Germany, the telescope's mirrors were built by Raytheon Optical Systems Inc., Danbury, Conn. The mirrors were coated by Optical Coating Laboratory Inc., Santa Rosa, Calif.; and assembled by Eastman-Kodak Co., Rochester, N.Y.

The observatory's charge coupled device imaging spectrometer was developed by Pennsylvania State University at University Park, and the



The completed Advanced X-ray Astrophysics Facility is moved from its assembly area at TRW in Redondo Beach, Calif., to the acoustic testing area.

Photo courtesy of TRW

Massachusetts Institute of Technology (MIT), at Cambridge. One diffraction grating was developed by MIT, the other by the Space Research Organization Netherlands, Utrecht, in collaboration with the Max Planck Institute, Garching, Germany. The high resolution camera instrument was built by the Smithsonian Astrophysical Observatory. Ball Aerospace & Technologies Corporation of Boulder, Colo., developed the science instrument module.

The Advanced X-ray Astrophysics Facility program is managed by the Marshall Center for the Office of Space Science, NASA Headquarters, Washington, D.C. The Smithsonian Astrophysical Observatory in Cambridge, Mass., will operate the observatory for NASA.

Employee Update

Continued from page 1

attention to 13 minor nonconformances and seven "observations." Griner said that they will return to the Center May 6-8 to verify that the minor nonconformances have been corrected.

ISO 9000, said Griner, requires a "continual job of staying registered and keeping our excellence where it needs to be." She thanked employees for their effort, saying "You have excelled and met our goal in the grand tradition."

Turning to budget matters, Griner highlighted the following:

- The total fiscal year '99 NASA budget is \$13.465 billion with Marshall's part being \$2.279 billion, slightly down from 2.34 billion in '98.
- Marshall has about 17 percent of the Agency's budget to do our assigned work.
- We will continue to downsize to the target of 2,725 civil service employees at the end of fiscal year '99 and the fiscal '98 number of 2,837 will be met this year. The target for fiscal year '00 is 2,515.
- We will continue to reach this target through buyouts and attrition.
- Institutional funding continues to decline and there is a need to continue to improve how we do business and reduce our cost of operating the Center.
- Full cost accounting will be in force in fiscal year '00, and in fact, the current budget process is using a full cost approach.

Griner also emphasized that some challenges are presented by the budget, requiring that Marshall "be a little more clever about how we do business," and that "we be able to do what we say we're going to do."

"We need to focus on our own mission areas and assigned areas of work, and be successful in delivery of current products to achieve assignments in the future. If we are not successful," she added, "work will not continue to come."

Discussing the Agency's and Marshall's ongoing process of strategic planning, Griner stressed that it is an "essential element of preparing for the future, and not just reacting to the problems of the present."

In addition, Griner answered questions that had been submitted by employees and discussed the impact of full cost accounting, improvements in communications and the pilot initiative for electronic commuting, known as Flexiplace. The next "Employee Update" will be known as the "Marshall All-Hands Meeting" to encourage greater employee participation.

The event concluded with the presentation of 14 length of service awards to employees who have completed either 40, 35 or 30 years of service.

Obituaries

Ackerman, Grace, 88, Huntsville, died Dec. 18. She retired from Marshall in 1974 where she worked as an employee development specialist.

George, James, 70, Guntersville, died Feb. 23. He retired from Marshall in 1981 where he worked as a program analyst. He is survived by his wife Almeeda George.



Bill Brewster (sitting) rehearses with the cast of "Virgil and the Moonshot" in preparation for the annual Retiree Dinner set for March 24.

Message from Marshall's Chief Information Officer

Information technology systems/devices (computers, networks, communications infrastructure, FAX, and other electronic information transfer devices) have become increasingly important tools for communication, research, and other work at Marshall. Employees and contractors are encouraged to continue to learn about and use these valuable assets to help accomplish their work. It is important to remember that, like all other forms of government property, Marshall information technology resources are provided for official business only. Keeping this in mind, the following information will help assure proper use of government-furnished information technology:

- * Use common sense and good judgment when using the Internet. This resource is provided for official business only. When you use the Internet, you leave an electronic "footprint" (your e-mail address includes the suffix "msfc.nasa.gov"). Additionally, any message you send is unavoidably electronically signed by you and placed in an "electronic envelope" with NASA's name on it. On the Internet, you are NASA.
- * Never use your computer to receive, store, display or transmit sexually explicit images, messages, or cartoons, messages that contain ethnic slurs, racial epithets, or anything that may be construed as a threat, harassment, or disparagement of others.
- * Beware of chain letters. Do not forward them via e-mail.
- * Protect Marshall computer resources. It is mandatory to change your password every 30-days on networked computers. There is an automatic virus check implemented in Distributed Desktop Services (DDS) which prevents the spread of computer viruses. Avoid any action that could compromise the security of Marshall computer systems and sensitive computer-based information.
- * Although Marshall information technology resources are to be

See Information Technology on page 5

Upcoming Events

Earth Day T-shirts Available From NASA Exchange

Earth Day T-shirts can now be ordered from the NASA Exchange in Building 4752. Order forms are also available on-line via Marshall Center's Earth Day website at http://www.recycle.msfc.nasa.gov/earth_day/earth_day.html. The Marshall Recycling Committee congratulates Maureen Hunt of DP Associates for this year's T-shirt logo! She will receive \$50 for her winning entry. The deadline for T-shirt orders is Tuesday, March 31. The annual celebration of Earth Day culminates on April 22.

Marshall Center's Open House '98 Set for May 16

The Marshall Center Open House is scheduled for 9 a.m. to 6 p.m. May 16. Visitors will be able to see a host of exciting activities.

The official homepage for Marshall's Open House is up and running. Visitors to the site can volunteer for the event. Retirees interested in volunteering should call Billie Swinford at 4-0087.

The web address is: <http://www.msfc.nasa.gov/openhouse/> or for more information on the Open House, visitors may call 1-888-901-NASA.

Appointments

Continued from page 1

Polites has made significant contributions to research in the areas of Skylab attitude control systems, the Hubble Space Telescope pointing control systems, the pointing system that flew on the ATLAS Space Shuttle mission, the Gravity Probe B spacecraft system, and the guidance, navigation and control subsystem for the U.S. Control Module of the International Space Station. He was designated 1995 Marshall Space Flight Center Co-Inventor of the Year.

EDTeC Targets Improved Job Performance

Training requirements and skills enhancement can be met quickly and with cost effectiveness at Marshall's Employee Development Technology Center (EDTeC).

The EDTeC offers diverse training to develop and complement the skills and knowledge needed for professional development. The EDTeC is an integrated set of self-paced training products, hardware, software, and people — all targeted to improving job performance.

Approximately 350 self-paced courses in various media, including interactive, multimedia CD-ROM, computer-based training, video, and text are available to Marshall employees and on-site contractors.

More information and a complete course list is available at the EDTeC in Bldg. 4203, Room B-303, Monday through Friday, 8 a.m.-4:30 p.m. Call 4-8291 or visit the EDTeC website at <http://inside/EDTeC>.

Marshall Hosts NASA Advisory Council Meeting

Marshall Center will host the NASA Advisory Council Meeting today and Thursday in Bldg. 4200, Room P-110.

Also visiting will be NASA Acting Deputy Administrator Jack Dailey. Acting Center Director Carolyn Griner will speak

to the council on 'challenges and changes at Marshall.'

The group will also hear briefings from Garry Lyles on next-generation launch systems and Steve Cook on space transportation strategy.

Painting of 4200 Area Parking Lots Continue

Parking lots in the 4200 complex are being repainted to clearly identify reserved parking. The south parking lot in front of 4200 will be designated only for "Visitors." All transient vehicle parking will be moved from that parking lot to the south parking lot of 4200. There have been some questions asked about the number of service vehicles and transient vehicles allocated. These spaces are being monitored and will be changed if deemed

appropriate. Also, there will be additional changes made on the front rows of 4200S and 4201S parking lots to accommodate handicapped personnel.

This work is being done in phases on the weekend, as weather permits. Personnel who have been assigned reserved parking spaces will be notified, in advance, of their new assigned parking space number. Questions should be addressed to May Wales, 4-5552.

Information Technology Guidelines

Continued from page 4

used for official NASA business, there is an exception for infrequent personal use. Specifically, when it is not practical to communicate during non-business hours, employees may send and receive brief messages with a spouse or dependent (or those responsible for their care). The same applies to communications with local government agencies, physicians or dentists; or for emergency situations such as critical repairs to a residence or vehicle. * Since Marshall information technology resources are provided only to support the work of the Center, there should be no personal expectation of privacy.

Information in Marshall computers may be reviewed by managers, supervisors, and other authorized individuals at any time. Additionally, Internet activity at Marshall is recorded and periodically examined for security and policy compliance purposes.

* Like other forms of misconduct, misuse of Marshall information technology resources is grounds for disciplinary action.

A set of questions and answers concerning these guidelines will follow next week. For additional information, contact your supervisor or the Chief Information Officer at 4-5697.

Employee Ads

Miscellaneous

- ★ AKC Lhasa Apso puppies, 4 weeks old, deposits being accepted. 830-9453
- ★ Almond Maytag electric washer/dryer, \$250; GE washer/gas dryer 7 months old, \$600. 757-8143
- ★ Garden tractor, 18 HP, 3 cyl. diesel, 48" belly mower, 3-PT hitch, PTO, \$3,100. 379-3606
- ★ Motorized treadmill, Weslo Cadence 875, \$200. 971-1437
- ★ Sears Dual Track 20 exerciser, \$100. 883-8664 after 5 p.m.
- ★ "Winnie The Pooh" theme bassinet, \$110; wind-up baby swing, \$20; other baby items. 881-8674
- ★ Pfaltzgraff Trousseau pattern dishes, 12 place settings with glasses, etc., \$350. 776-3040
- ★ Light blue formal dress, size 10-12, shoes 6 1/2 medium; snack bar 2 each 5'x26"Wx36"H & 4'x28"Wx34"H; refrigerator. 828-4251
- ★ Wooden microwave/VCR/TV cart on wheels, \$40; German chandelier wooden with three globes, \$35. 882-6832
- ★ Dinette set; butcher block top, white chairs; small credenza; king size comforter set; china. 837-6123
- ★ Off-white 5 piece sectional sofa including chaise and matching table, \$350. 461-8689
- ★ New Delta single handle kitchen faucet with sprayer and soap dispenser, model 400 OWF, \$49. 883-8257
- ★ Longaberger basket "1995 family traditions collection", \$225. 464-6664

Vehicles

- ★ 1993 Ford Ranger Splash, 56K miles, 4 cyl., 5-speed, with side-step, \$7,500 o.b.o. 586-7297
- ★ 1971 Chevrolet Impala, 4-door, 2nd owner, 50K original miles, \$1,600. 878-0809
- ★ 1981 F150 Ford custom, auto, A/C, P/S, long bed, V-8, \$2,350. 837-0085
- ★ 1992 Stanza XE, 96K miles, AT/AC, cruise, AM/FM cassette, new tires, \$5,395. 539-6932
- ★ 1996 Pontiac Trans Sport van, 7/8 passenger, cruise, PW/PL, \$12,500. 830-8339
- ★ 1996 Ford Ranger XLT Xcab, 5-speed, 20K miles, \$9,300. 882-1382
- ★ 1984 Ford E350, 1 ton van, new engine, generator, \$7,500. 883-5750
- ★ 1986 Lincoln Towncar, Signature series, 130K miles, some body damage, \$1,600. 878-0809
- ★ 1989 Dodge Grand Caravan LE, one owner, 73K miles, \$4,195. 883-2757

Wanted

- ★ Small scraper blade or landscaping box to fit garden tractor with sleeve hitch. 233-3773
- ★ Treadmill. 776-3040
- ★ Rear grass bagger for 28 inch Snapper rear engine mower. 851-2929
- ★ Good used car seat for over 20 lbs., leave message. 464-0660

MARSHALL STAR

Marshall Space Flight Center, Alabama 35812

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Center Announcements

- ☛ **NARFE** — The National Association of Retired Federal Employees - Decatur Chapter 736 will meet March 25 (4th Wednesday of each month) at 11 a.m. for lunch and 12 noon for the program and business meeting at Morrison's Cafeteria located at River Oaks Center. For further information call 773-4826 or 355-2874.
- ☛ **MOO** — The Management Operations Office retirees will meet for breakfast/lunch on March 26 (4th Thursday each month) at the Cracker Barrel in Madison at 10 a.m. Retirees and all present or former MOO employees are welcome. Call 539-0042 if you have any questions.
- ☛ **MESA** — The Marshall Engineers and Scientists Association, IFPTE Local 27, will meet March 19 at 11:30 a.m. in the MESA Office, room C-105, northeast end of building 4471. Refreshments will be served and all members are invited.
- ☛ **Fire Protection Sprinkler** — The Facilities Services Office recently awarded a contract to install a fire protection sprinkler system in the basement of building 4200. As part of this contract some existing asbestos fireproofing located above the ceiling will be removed. Plans are to begin removing asbestos March 18 through early May. Removal will be performed after normal work hours and during weekends. Temporary containment structures installed around the areas being worked will obstruct portions of the corridor from the east entrance to the elevator lobby. Signs will be posted to mark routes around these obstructions. Every effort is being made to minimize inconveniences associated with this work. If there are any questions contact Randy Felder at 4-2754.
- ☛ **MARS Dance Club** — The MARS Ballroom Dance Club will offer Rumba and Single Swing lessons (\$10 per person) from 7 to 8 p.m. March 23 and 30. The classes will be held in the Parish Hall of Saint Stephen's Episcopal Church at 8020 Whitesburg Drive. For more information call Pat Sage at 544-5427; for a membership application, call Linda Kinney at 544-0563.
- ☛ **Shuttle Buddies** — The Shuttle Buddies will meet for breakfast March 30 (last Monday of each month) at 9:15 a.m. at Shoneys, University West. For questions call Deemer Self at 881-7757.
- ☛ **EAP Lunch & Learn** — MSFC's Employee Assistance Program will offer a Lunch & Learn Seminar, April 1, 12 noon to 12:45 p.m. in Morris Auditorium on the topic "Decreasing One's Risk of Skin Cancer." Dr. John K. Sowell, a Huntsville dermatologist, will be the speaker. All Marshall employees, on-site contractors, and family members are invited to attend.
- ☛ **MARS Fishing Club** — The Fishing Club had its first tournament for this year March 7 on Lake Guntersville (Waterfront). Charlie Cothran and Ross Evans won first place with 16.51 lbs., Mike Vanhooser and Larry Gagliano came in second with 14.11 lbs., big fish honors went to Ross

Evans with a 3.54 lbs. largemouth. The next tournament will be April 4 at Decatur Boat Harbor. All MSFC employees, dependents, and contractors are invited to participate. Call John Pea at 4-8437 or Charlie Nola at 4-6367 for additional information.

- ☛ **Bloodmobile Visit** — The American Red Cross will be at Bldg. 4752 on March 20 from 8 a.m. to 1:30 p.m. for the monthly Marshall Blood Drive. The following schedule should eliminate long waiting periods: A-B, 11 a.m.; C-E, 10:30 a.m.; F-H, 10 a.m.; I-L, 9:30 a.m.; M-P, 9 a.m.; Q-S, 8:30 a.m.; and T-Z, 8 a.m. Marshall employees who serve as blood donors without compensation will be authorized 4 hours of excused absence for this purpose. Contractor personnel must comply with the policy of their respective companies. The blood bank is currently at very low levels. Blood donations from anyone with O+ and O- blood is strongly needed. If unable to make your assigned appointment time, the Red Cross will be available until 1:30 p.m.
- ☛ **Public Inquiries** — Please visit the Public Inquiries Office located in Bldg. 4200, room 101. Among new items is a wonderful, colorful and informative brochure on how to access information from the Space Science Laboratory on the web. Other publications and handouts related to Marshall and NASA are available.
- ☛ **Annual Easter Egg Hunt** — Volunteers are needed to help with the annual NASA Exchange-sponsored Easter Egg Hunt 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.

Thank You

A special thanks to employees and customers who showed support during my recent medical problems. I appreciate your kindness and generosity.

Billy Ray Matthews
Charlie's Grill

Job Opportunities

CPP 98-20-JB, Program Analyst, GS-343-13, Space Shuttle Projects Ofc., Systems Management & Integration Office. Closes March 24.
CPP 98-32-CP, Budget Analyst, GS-560-12/13, Office of Chief Financial Officer, Resources Management Office, Institutional Operations Office. Closes March 24.
Reassignment Bulletin: 98-11-CV, AST, Aerospace Flight Systems, GS-861-13 (multiple vacancies), Microgravity Research Program Office, MSFC Microgravity Science and Applications Projects Office. Closes March 20.

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