



## Inside the Star

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## Pace and Waite, Inc. selected for Marshall configuration data management services contract

NASA has selected Pace and Waite Inc., of Huntsville, to provide centerwide document services at the Marshall Center.

Under the contract, Pace and Waite will provide services for managing data requirements, checking engineering drawings and operating the Center's documents release desk. Services to be provided are a continuation of an effort currently being provided by Pace and Waite under a five-year contract that ends this year.

The contract could have a potential value of approximately \$39 million over five years if all provisions are utilized. The cost-plus-incentive-fee performance-based contract

includes indefinite delivery/indefinite quantity provisions. This contract will become effective Sept. 1, 2001, and includes a one-year performance period plus four one-year priced options, which may be exercised at NASA's discretion.

Marshall is NASA's lead center for development of space transportation and propulsion systems. New technologies are being explored to make space more accessible by reducing the cost of launching space vehicles while improving flight safety. Marshall is also NASA's lead center for microgravity research — conducting unique scientific studies in the near-weightlessness of space.

## Women's Equality Day

# Marshall women named as outstanding achievers

Four Marshall employees will be honored at the annual Women's Equality Day program at 10 a.m., Monday, in the Bob Jones Auditorium at the Sparkman Center on Redstone Arsenal. Everyone is invited.

Melissa Van Dyke from the Space Transportation Directorate, Phyllis Olinger from the Office of Chief Counsel, and Jill Holland from the 2<sup>nd</sup> Generation Reusable Launch Vehicle Program Office will be recognized as outstanding women achievers. Jolene Martin of the Space Shuttle Projects Office

will be recognized as the Federal Women's Program Supervisor of the Year.

Nominations were solicited and received from across the Marshall Center. They were ranked on total accomplishments during their federal careers; success of job performance and increasing responsibilities; significant accomplishments in the public sector or community interests; awards; educational level;

See *Women* on page 4



Van Dyke



Olinger



Holland



Martin

# Our No. 1 concern is the safety, health of our people

**W**e talk a lot about the health and safety of our people because we care about our people, not because it is an agency priority. We have a safety goal of being No. 1 in the agency defined by having the lowest lost-time rate in the agency, again, because this friendly competition is a way to measure our success in caring for our people, not because we want to be No. 1 in the agency. I appreciate



Stephenson

the strides we have made and your efforts toward emphasizing safety at the Center.

For me, workplace safety is not a program or a project — it is about the health

and safety of our civil servants and contractors. We want to send people home at the end of the day whole and healthy without injury mentally or physically. I hope it is clear to everyone who comes to work at Marshall that anyone can call attention to an unsafe act or condition, and if need be, shut down an operation immediately to allow proper review of the situation before continuing.

Our People Value includes statements that “We create a safe and healthy environment” and “We encourage a balance between personal and professional life.”

In our process of promoting safety at work, we need to change our attitudes as much as anything. We need to alter our belief systems to the point that we really do believe deep down and have the attitude that “all accidents are preventable,” like our Safety Policy states. I think we will know our attitude shift has occurred when

## Director’s Corner

1) we see dramatic reductions in the number of lost-time accidents and 2) we see the impact of our safety and health emphasis in conversations and actions taken at home, as well as at work. I hear about our families more and more talking about safety and health — the children insisting on mom and dad putting on the seat belts, a girl or boy friend calling attention to the employee partner who forgot to hold onto a handrail on a stairway — this is where safety and health attitudes show up as changed.

Marshall’s leadership team needs to take a hard look at how we are addressing the “balance between personal and professional life” at Marshall. I am challenging our leadership.

If we are effective, we will balance the current workload and resources by:

- Prioritizing and scheduling work consistent with the resources to accomplish it;
- We will balance work demands on employees with appropriate time off;
- We will make working long hours and weekends exceptions rather than routine, and where not practical due to short term needs to meet our Customer and Excellence values, we will set allowable limits;
- We will build adequate time for training and self-development into employee workload;
- We will make better tools available that support a more balanced work life; and
- We will build effective collaborative partnerships with other NASA Centers, other agencies, academia and industry to distribute and take advantage of work done elsewhere.

Lastly, regarding balance, I hope our leadership team knows that I fully support our employees having time for families as a norm throughout the year while working, but also taking annual leave to be with families and friends or to go to a desert island if they wish and have some

time to be alone. I will end this calendar year like I have for each of the last two years: with a zero balance in my annual leave. To each employee I say this is important — take time off. You will be safer on the job and healthier overall if you do. Our culture no longer makes heroes of those who have the highest annual leave balance.

You may have heard of something we are calling “Balancing Marshall Workforce” or BMW (by the way, I think Jim Kennedy had just gotten off his motorcycle when he picked this acronym). This activity is in process with Marshall leadership wrestling with the matter of how to “balance our workload” in the spirit mentioned earlier. We are in a situation where we have more work than we have civil servants to adequately address the entire workload. We are looking at what we can stop doing and how to better distribute our civil servant workforce to address the situation. We decided to take this on internally after realizing that we were not going to be able to hire the additional civil servants we felt we needed due to agency limitations and limits put on the Marshall Center by headquarters. I believe there is great opportunity through this activity to open up some possibilities of new and exciting work for some of our employees — opportunities that may not otherwise have surfaced. We expect to be talking more about this “balancing” effort in mid-September at an All-Hands meeting I am planning to conduct.

The bottom line is we are taking the health and safety of our workforce seriously. We are doing that by continuing to work on communicating and encouraging safe and healthy practices and attitudes at work and also trying our best to balance the workload with our civil servant workforce.

Thank you for joining with me to make Marshall a safe place to work and one that values balance between personal and professional life.

— Art Stephenson  
Marshall Center Director



Video image

**'Today' host interviews  
Marshall scientist**

Matt Lauer, left, of NBC's "Today" program, based in New York, interviews CAMEX Lead Scientist Robbie Hood of the Global Hydrology and Climate Center. The Aug. 17 interview focused on the goals and objectives of the CAMEX research mission. Hood was on the program live from the Jacksonville Naval Air Station, Fla.

# NASA hurricane researchers explore tropical storm

*Marshall release*

High-flying researchers from NASA's Convection and Moisture Experiment (CAMEX) looked inside Tropical Storm Chantal Monday. The storm continued to follow the track of forecast models, but had not intensified as previously predicted.

Robbie Hood, of Marshall's Global Hydrology and Climate Center, is the CAMEX lead scientist.

Two specially equipped NASA research aircraft, an ER-2 and a DC-8, took off from Naval Air Station Jacksonville, Fla., at 1:05 p.m. CDT Monday on an eight-hour mission to collect high-altitude information on Tropical Storm Chantal.

"Chantal provides us a great example of why we need to continue research of severe storms," said CAMEX researcher Dr. Ed Zipser of the University of Utah, Salt Lake. "Chantal's behavior is providing us with an opportunity to learn more about the dynamics of severe tropical storms and hurricanes."

The DC-8 research aircraft, a converted commercial jetliner, flew an inverted figure four at 35,000 to 40,000 feet, while the ER-2 flew a similar pattern above the storm at 65,000 feet. The overlapping patterns, or "stacked forma-

tion," over Chantal samples the storm at various altitudes permitting scientist to study the storm from top to bottom.

On Sunday the NASA team flew the first flights of the Aerosonde Unpiloted Aerial Vehicle, a small aircraft that will fly into the boundary area of hurricanes. No problems were found during the first flight.

The CAMEX mission unites researchers from 10 universities, five NASA centers and the National Oceanic and Atmospheric Administration (NOAA). The study is part of NASA's Earth Science enterprise to better understand the total Earth system and the effects of natural and human-induced changes on the global environment.



Photo by Dr. Richard Blakeslee, Global Hydrology and Climate Center/NSSTC

**Based in Jacksonville, Fla., CAMEX scientists completed their first airborne research missions Aug. 18, flying around thunderstorm conditions aboard the NASA DC-8. Less than two hours after they landed, a small tornado formed behind the aircraft.**

## Women

Continued from page 1

evidence of initiative; sound judgment; leadership; mentoring; self-development; and ability to work well with others. This is a highly coveted award since a panel of their peers individually ranked the award winners.

Dr. Susan D. Parker, state auditor for Alabama, will speak. Elected in 1998, she is responsible for all property audits and inventory management for Alabama. She serves on several boards, and appoints registrars in 66 of 67 counties. Being fifth in line of succession to the governor's office makes Parker the highest ranking female officeholder in Alabama.

Women's Equality Day, Aug. 26, was established in 1971 to commemorate the 1920 passage of the 19<sup>th</sup> Amendment to the Constitution, granting women the right to vote. This was the culmination of a massive, peaceful civil rights movement by women that had its formal beginnings in 1848 at the world's first women's rights convention in Seneca Falls, N.Y. The observance of Women's Equality Day also calls attention to women's continuing efforts toward full equality.



Parker

### Discovery lands safely at Kennedy

Space Shuttle Discovery and the crews of STS-105 and Expedition Two to the International Space Station landed safely at 1:23 p.m. CDT Wednesday.

During the 11-day mission, Discovery delivered a fresh crew to the Space Station, science experiments and supplies.

Expedition Two crewmembers Jim Voss, Susan Helms and Yuri Usachev had spent almost six months aboard the orbiting outpost, the second longest in NASA history.



Photo by Doug Stoffer, NASA/Marshall Space Flight Center

### Rep. Cramer speaks with Space Station crew Tuesday

U.S. Rep. Bud Cramer of Alabama spoke Tuesday from the Payload Operations Center at Marshall with Expedition Three crewmembers onboard the International Space Station. During the 15-minute exchange with astronaut Frank Culbertson, commander of the Expedition, and Russian cosmonaut Mikhail Tyurin, Cramer emphasized the importance of the science experiments the crew is performing onboard the Space Station. Cramer called the Station a "remarkable opportunity for the world." The Payload Operations Center is the science command post for the Station.

## Safety Bowl 2001

This is the last set of questions prior to Safety Bowl competition which begins Sept. 12.

1. In a "Message from the Administrator" in May, NASA Administrator Dan Goldin reminded employees of the NASA established goal of zero mishaps in the workplace, and encouraged employees to do what?

2. Which of the following is not required information on the Safety Concerns Reporting System electronic form?

- A. Building
- B. Location
- C. Description
- D. Name and organization code

3. True or False: Marshall establishes cooperative plans to ensure the local community is aware of the nature and extent of potential hazards arising from Marshall operations and the measures taken to protect the community.

4. Name the food-borne illness that

results in approximately 73,000 cases of infection and 61 deaths each year and is associated with eating undercooked contaminated ground beef.

5. What is the single most preventable cause of death in our society?

6. For safety, to what internal temperature should ground beef be cooked?

7. If you are planning to purchase a used product, or have a problem with a product, where can you find information concerning manufacturers' recalls?

8. True or False: Striving to promote and maintain the physical well-being of its employees is part of the Marshall Safety, Health and Environmental Policy.

9. Name any three of the common warning signs of carbon monoxide poisoning.

10. Why is it important to have your blood pressure checked on a regular basis?

See *Answers* on page 10



***10 a.m.-3 p.m.  
Sat., Marshall  
picnic area***

### **Fun and games for all**

The midway games are designed to be won. Sparkling booths house these colorful games that are age-specific from toddlers to adults. Players win at least a consolation prize every time they play.

For children, there will be face painting; Katie the Caterpillar — kids enjoy winding their way through this massive adventure; Moonwalk — a giant bubble of air for children 12 and under to bounce around in; spin art; and treasure hunt.

To cap off the fun-filled day, all can enjoy a giant slide — and for the teens and adults — a bungee run, misting tents, and, of course, the ever-popular bingo. And, of course, there will be midway games for all: bank shot; bull's eye; can smash; colors; cup and ball; fry fishing; lucky dice; milk jug throw; Plinko; quack attack; ring toss; seven-eleven; tic-tac-toe; TKO; troll toss; duck pond; lollipop kite;

bowl-'em; toss-'em; and basketball toss.

### **Good food**

Food available at the picnic includes hot dogs, soft drinks, Hawaiian crushed ice, cotton candy, popcorn and sno cones.

### **Entertainment**

On the Children's Stage will be Murphy the Magician and the Community Ballet. The main stage features the Latin Rhythms; jazz band, Abstract; and rock 'n' roll band, Gryphon.

**M**arshall civil servants, retirees and contractors and their families are invited to the Marshall Center's annual picnic — Family Fun Day — from 10 a.m.-3 p.m. Saturday at the picnic pavilion. This year's Family Fun Day is sure to be the best ever with more games, more prizes and great food.

Events include a kickoff children's parade. All children wanting to participate in the parade should be at the activities building — Bldg. 4752 — at 9:45 a.m. to receive balloons and goody bags. Winnie the Pooh and Scooby Doo costumed characters and Sparkles the Clown will all be participating in the parade that will start at the activities building and end at the Children's Stage. Parent participation is only necessary if a child is too young to parade on their own.



**N**ot everyone enjoys midway games and carnival rides, but they may enjoy browsing through exhibits.

Marshall's newest traveling exhibit — Starship 2040 — will show visitors what the future of spaceflight could be like. For guests with a more whimsical liking, there is a Botanical Butterfly exhibit. And there will be a car, motorcycle and airplane shows featuring vintage and specialty vehicles.

### Starship 2040

The Starship 2040 traveling exhibit will be on-hand to inform visitors of all ages about possible future technologies and commercial opportunities in space. Housed in a 48-foot trailer, the exhibit lets visitors walk through a mock-up of the spacecraft's control, passenger and engineering compartments, gaining insight into the technologies that eventually will make such an out-of-this world experience as routine as air travel. More information about Starship 2040 can be found on the Web at: <http://www.starship2040.com/>

### Like butterflies?

Check out Marshall's Botanical Butterfly. The Marshall Butterfly was designed by an artist

## *Exhibits make Family Fun Day a learning experience*

in the Information Services Department, and was created with the cooperative efforts of the Orbital Simulations Group—Flight Robotics Laboratory and the Power Electronics Team — Solar Array Laboratory. The butterfly is made mostly with recycled materials used and created here at the Marshall Center.

The butterfly will be on display in the Bldg. 4200 complex after Family Fun Day until next spring, when it will then be moved to the Huntsville Botanical Gardens for the opening of the 2002 Butterfly House.

### Fire and hazmat trucks

Redstone Arsenal Fire Department personnel and vehicles will be available at various times during the picnic for employees' children to have the opportunity to see the vehicles up close and enjoy meeting the firefighters. This visit is subject to cancellation if firefighters have a priority commitment on picnic day.

### Art exhibit

Family Fun Day participants can drop by the north end of Bldg. 4752 and view the talents of Marshall civil servants and contractors as they display their work in an art exhibit.

### Car and motorcycle show

Anyone who has a special interest, vintage or antique car, truck or motorcycle has a chance to show off his or her "baby."

Entries in the show will be accepted until 9 a.m. on the day of the show. Anyone who plans to enter should contact Lou Nosenzo by e-mail or call 544-7401 to pre-register. Nearly any kind of vehicle from Model T's to current day vehicles to racecars and/or carts can be entered.

A unique dash plaque logo has been designed especially for this year's show and all participants will receive one mounted on a wooden plaque with a picture of their car. Spectator voting will determine first- through third-place entries with special awards given in addition to the plaques.

### Airplane show

Private airplanes and military hardware will be on display at this year's Family Fun Day picnic. Come by and visit them at the north side of Bldg. 4752.

Airplanes will arrive at the Redstone Airfield prior to 7 a.m. Security and street sweeper escorts will take all the airplanes to the picnic area down Rideout Road to Martin Road.

# Dunking booth schedule

**F**rustrated with upper management? Now is your chance to get even. Just one pitch to the target will send the following people into the dunk tank.

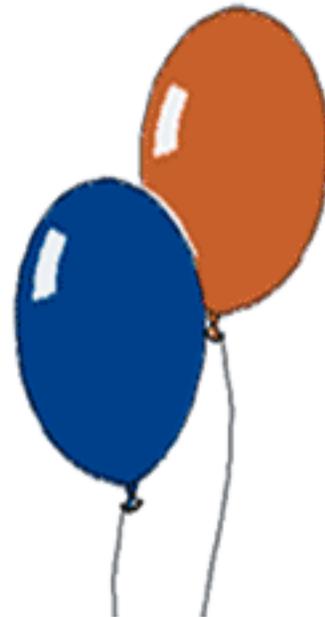
- 10:30-11 a.m. — Chris Singer & Rob Champion
- 11:00-11:30 a.m. — Axel Roth & Denny Kross
- 11:30 a.m.-noon — Roger Chassay & Byron Butler
- Noon-12:30 p.m. — Scott Croomes & Dennis Smith
- 12:30-1 p.m. — Paul & Helen McConaughy
- 1-1:30 p.m. — Teresa Vanhooser & Nelson Parker
- 1:30-2 p.m. — Art Stephenson & Shar Hendrick
- 2-2:30 p.m. — Jim Bilbro & Jim Carter

ALTERNATES: Jim Pruitt and Tony Lavoie

# Schedule of events

Door prize drawings will occur every hour. Must be present to win.

- 9:45 a.m. \* Children gather at Bldg. 4752 for balloons, goody bags and line up for parade.
- 10 a.m. \* Center Director Art Stephenson's remarks from pavilion next to Bldg. 4752.  
\* Parade begins. Children will parade to the Children's Stage.  
\* Midway games open
- 10:15 a.m. \* Children have pictures made with costume characters  
\* Community Ballet performs - Children's Stage
- 10:30 a.m. \* Bingo games begin
- 10:50 a.m. \* Murphy the Magician - Children's Stage
- 11 a.m. \* Gryphon Band performs - Main Stage  
\* Lunch begins (until 1 p.m.)
- Noon \* Abstract Band performs - Main Stage
- 12:30 p.m. \* Community Ballet performs - Children's Stage
- 1 p.m. \* Latin Rhythms Band performs - Main Stage  
\* Lunch ends
- 1:40 p.m. \* Murphy the Magician - Children's Stage
- 2 p.m. \* DJ music
- 3 p.m. \* Family Fun Day ends



# Price list\*

Item/Activity	No. of Tickets	Operating Hours
Midway Games	1	10 a.m.-3 p.m.
Giant Slide	3	10 a.m.-3 p.m.
Katie the Caterpillar	2	10 a.m.-3 p.m.
Moonwalk	3	10 a.m.-3 p.m.
Bungee Run	3	10 a.m.-3 p.m.
Bingo	1 / Card / Game	10:30 a.m.-3 p.m.
Speed Pitch	2	10 a.m.-3 p.m.
Face Painting	2	10 a.m.-3 p.m.
Dunking Booth	2 (3 Balls)	10 a.m.-3 p.m.
Soft Drinks	2	10 a.m.-3 p.m.
Potato Chips	3	10:15 a.m.-2:45 p.m.
Hot Dogs	6	10:15 a.m.-2:45 p.m.
Beer	4	10 a.m.-3 p.m.
Cotton Candy	2	10 a.m.-3 p.m.
Hawaiian Crushed Ice	3	10 a.m.-3 p.m.
Sno-Cones	2	10 a.m.-3 p.m.
Popcorn	2	10 a.m.-3 p.m.
Ice Cream	4	10:15 a.m.-2:45 p.m.
Lemonade	4	10:15 a.m.-2:45 p.m.
Water	4	10:15 a.m.-2:45 p.m.

\*Tickets cost 25 cents each. For every four tickets bought, you will receive one door prize ticket.

For more information, visit the Web at:  
<http://picnic.msfc.nasa.gov>



# Engineering Directorate boasts champion duck caller

by Debra Valine

Some may jokingly laugh, but Jeff Lackey in Marshall's Engineering Directorate takes his hobby of duck calling seriously. So seriously, in fact, that earlier this month he won the Mississippi Delta Regional Duck Calling Championships in Jackson, Miss.

The win in Jackson sets him up to compete in the World Championships Thanksgiving weekend in Stuttgart, Ark. And he's only been interested in competition duck calling for one-and-a-half years.

Lackey, a mechanical engineer in the Ground Support Equipment and Mechanisms Design Group at Marshall, grew up in Huntsville and Arab. He has hunted ducks since he was a boy. He even tried his hand at deer hunting, but it was duck hunting that called him back.

His duck hunting hobby and his friend Cary Sadler, a Huntsville duck call maker, led him to competing in duck calling contests. Sadler was the Alabama state champion duck caller in 1996.

"I didn't go to Jackson expecting to win," Lackey said. "My goal was to make the first cut." Each competition is divided into three rounds, with competitors scored on each attempt. Cumulative scores determine the winner.

"My long-term goal was to make it to the World Championships in five years," said Lackey, who placed first in all three rounds in Jackson against 26 other competitors.

"I didn't think I had a chance at winning so there was no pressure on me to win," said Lackey, who has worked at Marshall for more than 11 years. It was his third competition. One of the biggest differences between the regional competition and the world championships is the number of spectators attending, he said. Another difference is that each of the 65

competitors in the world championships had to win a sanctioned state or regional competition for that year to get to the world championship.

"In Jackson, there might have been 300 people watching," Lackey said. "In Stuttgart, there will be thousands." The World Duck Calling Championships are held as part of the annual Wings Over the Prairie Festival.

Lackey, who uses an acrylic duck call, said calling ducks was just something he picked up in the off-season. "It calms me," he said. "But it's probably not as calming to people around me because it's very loud. I usually go out to the garage for about an hour of practice a day."

He attributes his success to the support of his wife Sherry and the encouragement from his friend Sadler, who helped Lackey develop and polish his routine. "He spent a lot of time with me," Lackey said.

"Sherry knows where I'll be during duck season," Lackey said. "She's OK with that. The rest of the year we do what she wants."

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



Lackey



Photo by Doug Stoffer, NASA/Marshall Space Flight Center

## Roy Malone receives Space Flight Leadership Award

Roy Malone, center, manager of Marshall's Logistics Services Department, receives the Space Flight Awareness Leadership Award from astronaut Andy Thomas, right, prior to the launch of Space Shuttle Discovery Aug. 10. Marshall Center Director Art Stephenson looks on.

# Check for indoor electrical hazards at home, at work

from Marshall's Safety Office

**J**ust as electricity normally can't be seen, many indoor electrical hazards remain unseen unless you know what to look for.

You don't have to be a professional electrician to detect and correct many electrical hazards that frequently cause injury on and off the job.

The items listed below are electrical hazards that are often overlooked. Use them as reminders of important points to check for indoor electrical safety at home and at work.

- If plugs seem to fit loosely into a wall outlet, the wall outlet needs repair. Call an electrician. A loose fitting wall outlet may cause overheating and a fire.

- Make sure extension cords are in good condition — not frayed or cracked. Make sure they are placed out of traffic areas. Cords should never be nailed or stapled to the wall, baseboard or to another object and they should not have any furniture or carpeting resting on them.

- Check to see that extension cords are not overheated. Additionally, extension cords should only be used on a temporary basis; they are not as safe as permanent household wiring.

- Make sure the proper-type plug is in each outlet. If you are using three-prong plugs in a room with two-conductor outlets, do not cut off the ground pin (the third/bottom prong) from the plug; this could lead to an electrical shock hazard. A better solution is to use a two-prong adapter. Never force a plug into an outlet if it doesn't fit.

- Ground fault circuit interrupters (GFCIs) prevent many electrocutions. GFCIs are devices installed in kitchen and bathroom outlets. They should be used in any area where water and electricity may come into contact. Test GFCIs regularly according to the manufacturer's instructions to make sure they are working properly.

- Check the wattage of all light bulbs in lighting fixtures to make sure they are the correct wattage for the size of the fixture. Replace bulbs that have higher than recommended wattage. If you don't know the correct wattage, check with the manufacturer of the fixture. Make sure bulbs are screwed in securely; loose bulbs may overheat.

- Circuit breakers and fuses should be the correct sizes for the circuits. If you do not know the correct size fuse, have an electrician identify and label the sizes to be used. If one appliance repeatedly blows a fuse or trips a circuit breaker, or if it has emitted an electric shock, unplug it and have it repaired or replaced.

- Water and electricity don't mix. Don't place any electrical appliances near water, for example, a sink or a bathtub. If you have an appliance that has gotten wet, unplug it and don't use it until it's been checked by a qualified repairperson.

## Job Opportunities

**CPP-01-090-DS, AST, Experimental Facilities Development, GS-801-14**, Center Operations Directorate, Facilities Engineering Department, Design and Construction Group. Closes Aug. 24.

**CPP-01-088-GF, AST, Optical Physics, GS-1310-14**, Science Directorate, Space Optics Manufacturing Technology Center, Advanced Optical Systems Development Group. Closes Aug. 30.

**CPP-01-081-JB, AST, Fluid Mechanics, GS-861-14**, Space Transportation Directorate, Subsystem and Component Development Department, Applied Fluid Dynamics Analysis Group. Closes Aug. 30.

**CPP-01-092-JB, AST, Aerospace Flight Systems, GS-861-14**, Second Generation RLV Program Office. Closes Aug. 30.

**CPP-01-095-JB, AST, Aerospace Flight Systems, GS-861-14**, Second Generation RLV Program Office. Closes Sept. 4.

**CPP-01-083-JB, Supv., AST, Project Management, GS-861-15**, Space Transportation Directorate, Program Planning and Development Office, Development Projects Group. Closes Sept. 4.

**CPP-01-084-CL, Data Management Technical Operations, GS-301-13**, Engineering Directorate, Engineering Systems Department, Configuration and Data Management Group. Closes Sept. 4.

**CPP-01-060-KP, Support Services Analyst, GS-301-09**, Office of the Associate Director. Closes Sept. 4.

## Answers

*Continued from page 4*

1. Establish the same goal for yourself and your family.
2. D. Name and organization code
3. True
4. E. Coli (Escherichia Coli) It is the most common cause of acute kidney failure in children.
5. Smoking (According to the American Cancer Society)
6. 160 degrees F (according to the USDA Food Safety Inspection Service)
7. Consumer Product Safety Commission ([www.cpsc.gov](http://www.cpsc.gov))
8. True
9. Answers: (any three of these):
  - Headache
  - Rapid heartbeat
  - Rapid breathing
  - Fainting
  - Confusion
10. There are no discernible physical signs of high blood pressure, which is also known as "the silent killer."

## Center Announcements

### ISO Surveillance Audit

Marshall's regular ISO Surveillance Audit for ISO 9001:1994 — our present scope and registration — will be Aug. 28-30. In addition, a pre-assessment to ISO 9001:2000 — full scope — will be Aug. 29 and 30. Employees are encouraged to look at the Marshall Management System (MMS) Training Modules found on the Marshall Management Directives Master List. Taking training on the "ISO 9000:2000 Revision Transition," will help better prepare you for the upcoming pre-assessment. Training should take less than 10 minutes, and you will receive credit through the AdminSTAR database.

### Upcoming Classes

#### Speed reading

A speed reading seminar will air from 11:30 a.m.-1:30 p.m. Aug. 29 on Marshall Continual Learning Channel 14. To register for this seminar and receive materials, e-mail the name of the seminar, your full name and phone number to [edtec@msfc.nasa.gov](mailto:edtec@msfc.nasa.gov)

#### SLaTS Symposium

The Space Launch and Transportation Systems (SLaTS) Design and Operations Book Symposium will be Sept. 5-6 at Technology Hall, room S105, University of Alabama in Huntsville. Cost is \$75; or \$20 for full-time students and retirees. Make checks payable to AIAA AL-MS Section, P.O. Box 7208, Huntsville, AL 35807. For more information, call Arloe Mayne at (256) 881-7124.

#### Listening, coping workshops

Two workshops will be held Sept. 11 in Bldg. 4200, room G-13C. Coping with tough times will be from 8-11 a.m. Improve on-the-job listening and speaking skills will be from noon-3 p.m. Civil servants may register through AdminSTAR.

### Clubs and Meetings

#### IEEE meeting

The Institute of Electrical and Electronics Engineers (IEEE) will meet from 11:30 a.m.-1 p.m. Aug. 30 at the Redstone Officers' and Civilians' Club. Stephen L. Johnston, an IEEE fellow, will speak on the Huntsville National Weather Service Radar Situation. Cost for the luncheon is about \$5.95 — subject to food selection — plus a \$2 meeting room fee for all participants. To attend, call Sonya Hutchinson at 544-3312 or send an e-mail to: [Sonya.Hutchinson@msfc.nasa.gov](mailto:Sonya.Hutchinson@msfc.nasa.gov)

#### Shuttle Buddies meet

The Shuttle Buddies will meet for breakfast at 9 a.m. Aug. 27 at Mullins Restaurant on Andrew Jackson Way. For more information, call Deemer Self at 881-7757 or Gail Wynn at 852-8189.

#### Toastmasters International

NASA Lunar Nooners Toastmasters Club meets every Tuesday for lunch at 11:30 a.m. in the Bldg. 4610 cafeteria conference room. Toastmasters can help improve your communication skills, lose the fear of public speaking, and be a better listener. For more information, call Leslie Diggins at 544-0049 or visit the Web at: <http://www.toastmasters.org/>.

#### Lunch-time prayer

Join the lunch-time prayer and fellowship from noon-12:30 p.m. every Tuesday and Thursday in Bldg. 4200, room 432, or send prayer requests. For more information, send an e-mail to or call Johnnie Wilson at 544-1007.

#### Instrumentation Division meets

The Measuring Branch, Telemetry Branch and Radio Frequency Branch meet the first Tuesday of each month at 11 a.m. at the Redstone Golf Club Coffee Shop. For more information, call Tom Escue at (256) 232-1549.

### Sports

#### MARS Golf League

The MARS Golf League is holding a two-person, best ball tournament Sept. 8 at Point Mallard Golf Course in Decatur. Entries are due by Aug. 31. Enter as a twosome or, if a single entry, we will pair you with someone. Costs are \$37 for riding (\$34 if age 62+) or \$25 if walking (\$22 if age 62+) Fees are due at entry and include the \$5 entry fee. The final golf tournament — a 4-person scramble — was moved from Aug. 25 to Sept. 22 due to conflict with Marshall's Family Fun Day. The tournament will be held at Gunter's Landing in Guntersville. Teams will be formed by the tournament director from the pool of entries. Cost is \$44 due at time of entry, which includes cart and \$5 entry fee.

#### Tennis tournament

The next MARS tennis tournament will be a closed HI-LO on Sept. 8. To participate, call Ronda Moyers at 544-6809 or send an e-mail to: [ronda.moyers@msfc.nasa.gov](mailto:ronda.moyers@msfc.nasa.gov).

#### Bowling league

The MARS Bowling League will begin at 6 p.m. Sept. 4. Marshall employees, retirees, contractors and family members may join. For more information, call Chuck Seal at 544-1120 or Rob Lake at 544-1176.

### Miscellaneous

#### Get paid to quit smoking

Smokers can sign up before Sept. 30 and get paid to participate in a research study to evaluate a stop-smoking program on the Internet. All Marshall employees, spouses and family members 18 and older are eligible. Go to [www.quitcigs.org](http://www.quitcigs.org). The program was developed by the Oregon Center for Applied Science, funded by the National Cancer Society.

**Employee Ads**

*Miscellaneous*

- ★ Air conditioners: Package Trane 3.5-ton, \$250; York 3-ton, \$200; Heil 2-ton, split, \$150. 881-6040
- ★ Drexel formal dining room set; table, 6 chairs, china cabinet, sideboard, chandelier, \$1,895. 883-0683
- ★ 1993 Harley Davidson Sportster XLH 883, 14.4K miles, many extras, \$6,500. 882-9053
- ★ Welding face-shield, 300 weld rods, welding hammer, leather apron and gloves, \$45 obo. 682-5181
- ★ Pentium computer, 48 mg Rom, two 1.5 Gb HD, 56K modem, Panasonic DM printer, \$100. 881-7953
- ★ Blue full-size sofa sleeper w/burgundy specks, 5 yrs. old, \$200. 256-931-6991
- ★ Kenmore side-by-side refrigerator/freezer, icemaker in door, white, \$375. 971-9710
- ★ Kirby vacuum cleaner, Heritage 84, all accessories, rug renovator, \$350. 881-5642
- ★ Auburn-Ball State & Auburn-Ole Miss football tickets, \$27 each. 922-1204
- ★ HP Jornada 547 pocket PC, 32MB, keyboard, etc, \$150. 880-1921 or 882-6300
- ★ Electric lift recliner for the elderly or handicapped, used 2 months, \$575. (256) 233-2456
- ★ Yamaha Model 20 clarinet w/case and music stand, \$300. 837-9479
- ★ 1954 Les Paul Goldtop, P-90's, headstock repair, some checking, OHSC, \$4,500. 797-8377
- ★ 1995 Yamaha 760 jet-ski w/trailer and accessories, \$3,500. (256) 837-6274/leave message
- ★ 1998 Harley 1200CC Sport, racing exhaust, rear-seats, custom paint, original equipment included, \$8,995. 837-6109
- ★ King-size waveless waterbed, oak, mirror/bookcase headboard, 6-drawer pedestal, heater, etc., \$250. 828-9486
- ★ Utility trailer, 6'x8'; Sears 8HP chipper/shredder, \$400. 837-6776
- ★ Solid oak home entertainment center, 71"Lx21"Wx30"H, \$50; electric lawnmower, 18" cut, \$90; exercise cycle, \$45. 881-6040

- ★ Yamaha coronet w/hard case, \$450 obo. 881-2676
- ★ PSE MAXIS F4 compound bow, draw length 29", fully rigged, new, \$300. 880-3337
- ★ Medela pump-in-style breast pump; nursing tops; maternity clothes. 880-2290
- ★ Conn student trombone, \$399 obo. 830-4846
- ★ Two box seat tickets, Cubs vs. Braves, on Aug. 31, \$50. 851-0893
- ★ Table & 4 chairs, \$25; twin bed w/mattress & springs, \$20; shelf, \$5; miscellaneous tables, \$5-\$15; two 4-drawer chests, \$10 ea. 233-4580
- ★ 1974 Caravelle cuddy cabin boat, 185HP, no trailer, port-a-potty, bimini top, \$2,000. 881-8214
- ★ SKS, unfired, \$225; Mac Quadra 605 system many extras, \$200. 851-8085
- ★ Twin box springs, \$35; crib mattress, \$20; Lion King twin comforter set, \$25. 776-9165
- ★ Panasonic stereo system; phono, cassette, radio, Technics CD, remote, speaker stand, \$50. 881-7953
- ★ Antique solid oak dining room suite; table w/six chairs and buffet, \$1,000. 881-3797

*Vehicles*

- ★ 2000 Toyota Camry CE, teal-blue, 4-door, PS/AT/PW/PL, cruise, 6K miles, \$18,000 obo. 881-2052
- ★ 1990 Buick LeSabre Custom, \$1,850; leather attaché case, \$20; 3-1/2HP rechargeable electric mower, \$95. 852-6952
- ★ 1987 Nissan pickup, 5-speed, 158K miles, AM/FM/CD, \$2,150. 464-9561
- ★ New Holland 3930 tractor, 45HP, one-owner, 145 hrs., Great Bend 330 loader w/quick disconnect bucket, shuttle-shift, \$17,500 obo. (256) 232-1549
- ★ 1997 Ford Expedition, programmed vehicle, one-owner, w/cassette and CD changer, 100K miles, green, \$14,000 obo. 828-6913
- ★ 1995 Chevrolet Z71, 4x4, X-cab, navy, power windows/locks, cruise, bedliner, 110K miles, \$11,500 obo. (256) 931-4678
- ★ 1990 Honda Accord LX, 2-door, 5-speed, a/c, power windows/locks, cruise, AM/FM

- cassette, 124K miles, \$4,200. 859-0729
- ★ 1991 Nissan 300ZX, 2+2, red, automatic, 94K miles, service records, \$10,500 obo. (256) 582-4390/(256) 673-2215
- ★ 1993 Mercury Tracer station wagon, white/red interior, a/c, cruise, power locks/windows, automatic, new tires, \$1,400. 828-5136
- ★ 1991 Toyota Celica ST, 5-speed, a/c, AM/FM/cassette, maroon w/gray cloth interior, 145K miles, \$4,000. 880-9025
- ★ 1999 Jeep Wrangler Sport, chili pepper red, 5-speed, a/c, tilt, CD player, soft top, 31K miles, \$16,900. 233-8498
- ★ 1998 Ford Taurus SHO, black w/gray leather interior, 49K miles, \$16,000. 885-4290
- ★ 1998 Nissan Frontier 4x4, manual, 45K miles, alloy wheels, new tires, \$10,500 obo. (931) 438-7947/(256) 920-4222
- ★ 1995 Ford E150 Econoline van, white, V-8, auto, dual a/c, cruise, power windows/locks, AM/FM cassette, 85K miles, \$6,500. 772-3629
- ★ Ex-Marines M-274-A5 mechanical mule, 4x4, Vietnam era, rare/collectable, \$2,850. 837-1405
- ★ MF135 tractor, gas, ps, ROPS, good paint/tires, new battery, 5' rotary cutter, \$6,000. 256-247-7662

*Free*

- ★ 30 years accumulation of miscellaneous hardware and small household items. Pine board, 2"x9"x30." 881-8648

*Wanted*

- ★ Gasoline edger, 3-1/2HP. 883-8571
- ★ Used, serviceable kitchen/bathroom cabinets for garage, will pick up. 464-9561
- ★ 1990 to 1994 Chevy regular cab, SWB, 4x4. 883-7695
- ★ Two tickets to the Alabama/UCLA game on Sept. 1. 337-4476/pager 518-4444
- ★ Fencing mask, 3-weapon, not more than 5 yrs. old, small or medium size. 830-2076
- ★ Very inexpensive computer to be used by 9 yr. old for school work. 859-9856

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