

June 29, 2001

SPACE CENTER Roundup

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Law of the land (and space)

Astronaut James Reilly is sworn in as an Honorary U.S. Marshal

By Eric Raub

Two down, two to go.

Astronaut James Reilly now has only to become a cowboy and a fireman to realize the dreams of many children.

Reilly, already one of the few who gets to travel in space, became an Honorary U.S. Marshal at a special swearing-in ceremony June 4. His selection makes him the only person who can list two of America's most captivating occupations on his resume.

"Our two agencies share something remarkable in common—both have captured the imagination of the American people," said Marshals Service Acting Director Louie McKinney. "Astronauts and Marshals have tackled missions that seemed impossible. Today they come together in one remarkable man."

Reilly received the famous trappings of a U.S. Marshal, including the circular golden "America's Star" badge and photographic identification credentials and display, complete with a carrying case for both. Only six other people have received these items as Honorary Marshals. However, none of them ever had the opportunity to wear the badge into space.

Honorary Marshals are chosen by the Director of the Marshals Service for the attention and awareness they bring to America's oldest federal law enforcement agency. Former President Ronald Reagan, actor James Arness, Sen. Robert Dole, Sen. John Warner, entertainer Bob Hope and Sony music executive Tommy Mottola all received "America's Star" for their contribution to the U.S. Marshals Service.

Reilly served as the keynote speaker at three Marshals Service management training conferences. According to information provided by the Marshals Service, his discussions on teamwork and leadership have become benchmarks for the agency. He will make a further contribution to the agency when he

carries the title of Honorary Marshal into space.

"All Honorary Marshals have raised awareness of the Marshals, but none will more than Mission Specialist Jim Reilly," McKinney said.

He then told Reilly at the ceremony: "When you were asked what kind of astronaut you wanted to be, you said,

'law enforcement astronaut.' Today you're going to be one."

Reilly is a Mission Specialist for the upcoming STS-104 crew. One of his first "official" acts was to deputize the rest of his crew, though he jokingly suggested he did it in

the hopes of being able to tell the others what to do.

In his life, Reilly has received at least two big phone calls—one from NASA and one from the U.S. Marshal's office. Both calls left him awestruck. "This is very similar to the day I got called to work here," Reilly said. "I

wasn't sure they hadn't made a mistake in selecting me as an astronaut."

While he is modest about his achievements, Reilly is proud to be an astronaut and an Honorary Marshal.

"As one of seven Honorary Marshals," he said, "it is indeed an honor for me to represent the U.S. Marshals as the first Marshal in space."

For more information on the U.S. Marshals Service please visit: <http://www.usdoj.gov/marshals/>



“It is indeed an honor for me to represent the U.S. Marshals as the first Marshal in space.”

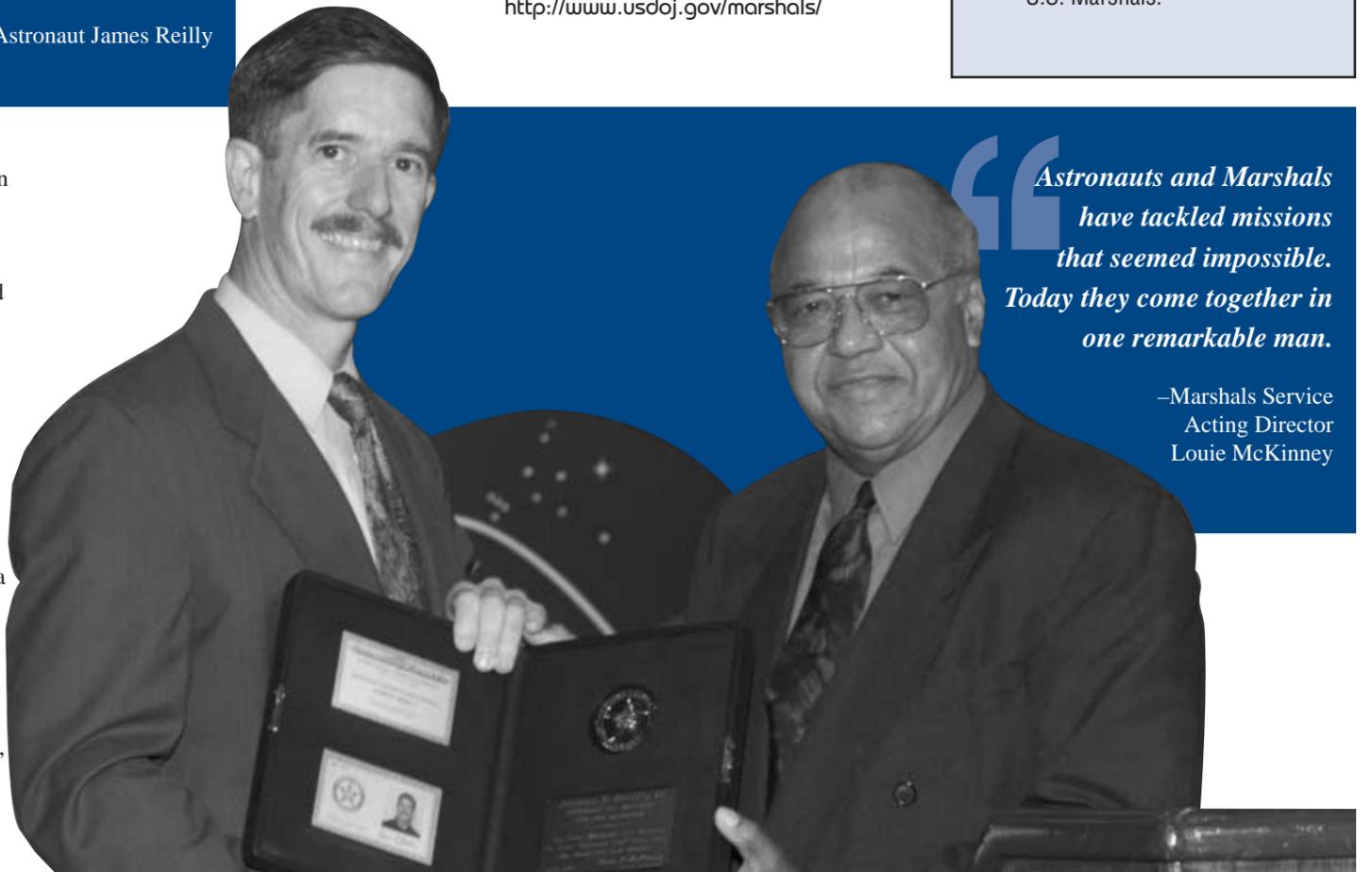
—Astronaut James Reilly

Just-the-FACTS

- ❖ Astronaut James Reilly will be the first U.S. Marshal to fly in space.
- ❖ Established in 1789, the U.S. Marshal's Service is America's oldest federal law enforcement agency.
- ❖ Marshals have done everything from taking the census and protecting federal officials, to apprehending over half of all federal fugitives.
- ❖ Today there are 95 Marshals in 94 judicial districts.
- ❖ There are approximately 4,200 Deputy Marshals and employees stationed in more than 350 locations.
- ❖ Only seven people have been designated Honorary U.S. Marshals.

“Astronauts and Marshals have tackled missions that seemed impossible. Today they come together in one remarkable man.”

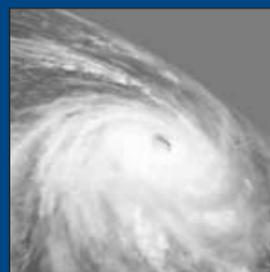
—Marshals Service Acting Director Louie McKinney



Allison begins hurricane season.
Page 2



Volunteers needed for Open House.
Page 3



Special Hurricane section.
Page 4 & 5

The Aftermath

Tropical storm Allison *June 2001*



NASA JSC 2001e18553 photo by Rob Markowitz
Bob Gaffney

Fear is healthy, preparation is essential and neither may be enough.

- Fort Lauderdale Sun-Sentinel after Hurricane Andrew

Right on cue! Emergency planners and weather forecasters couldn't have asked for a better opportunity to promote hurricane awareness than to have a tropical storm develop right off the upper Texas coast during the first week of hurricane season.

The last time a tropical disturbance hit JSC this early in the season was in 1989. Coincidentally, that storm was also named Allison. She formed during the first week of the season and, after passing over Houston/Galveston from south to north, she looped back and passed over Houston again from northeast to southwest. Sound familiar? It can happen here and it will again...and again...and again. The warning is clear: Now is the time to make preparations for your survival.

Hurricane season for the Atlantic forecast region, which includes the Caribbean and Gulf of Mexico, started on June 1 and extends through Nov. 30. Although the prime period for storm development tends to be from the end of July through the end of September, storms have been known to form earlier.

JSC has once again reviewed and updated plans for preparing for and responding to hurricanes. During hurricane season, all organizations across the center should review their state of readiness.

This edition of the Space Center Roundup features information about preparing for severe weather and specifically hurricanes. It includes information on lifesaving actions that you can take. With this information, you can recognize severe weather and develop a plan to protect yourself and your loved ones when threatening weather approaches. Remember—your safety is up to you!

-Bob Gaffney,
Emergency Preparedness
Manager



The rain that Tropical Storm Allison brought to the area was just too much for the roof of the InDyne exhibits warehouse. The InDyne, Inc. building is located a block away from Space Center Houston on Point Lookout Drive. Its highbay warehouse houses the exhibits used by NASA/JSC's traveling exhibits program and literature used by the ISC Library. Late Friday or early Saturday, June 8 or 9, the roof succumbed to the unusual amount of rain and water build-up and collapsed. Impact and water damage was being assessed at press time as a demolition contractor was demolishing and removing the damaged part of the facility. For more information, go to the Web site:
<http://www.jsc.nasa.gov/pao/exhibits>

- From June 7-15, Allison left enough rain to supply the water needs of the entire U. S. population for one year, according to the NOAA Web site.
- Allison was far-reaching, dumping water and destruction from Houston to the New England states.
- As of June 19, Allison's total death toll was 47, including 22 people locally.
- Thirty Texas counties were designated as disaster areas in the wake of Tropical Storm Allison.
- Recent estimates indicate that Allison has caused more than \$2 billion dollars in damages, making it the most expensive tropical storm in U.S. history.
- The highest storm total reported from Texas was 36.99 inches at the Port of Houston.

JSC Cooperative Education Students held a flood relief drive for local flood victims. Donations were given to the local Red Cross.

Cooperative Education Students Wendy Stone, Chris Ranieri, Maile Ceridon and Pooja Agrawal put boxes together as part of their effort to help flood victims.

NASA JSC 2001-18745 photo by James Blair



Human Resources works to improve its services to JSC

By Jeannie Aquino

Finding new ways to improve customer service is one of JSC Human Resources' (HR) principle goals. With the customer in mind, the organization put together its Human Resources Customer Service Desk, which officially opened when it moved to its new Building 12 location last year.

The Customer Service Desk, which is supported by the HR Administrative Team, is a "one-stop shopping" location for employees to inquire about benefits, training and other human resources issues.

"We're constantly searching for ways to improve service to JSC's employees and retirees," said Greg Hayes, Director of Human Resources. "The knowledge about Human Resources that this team brings together in one place can only improve the way we do business with our customers."

To show their support for this new and innovative facility, the Human Resources Leadership Team, including Hayes, recently took turns working the Customer Service Desk. Their support made it possible for the members of the Administrative Team to participate in a

retreat designed to plan for future improvements in their area. This experience gave the leadership team first-hand knowledge about the desk's many challenges, and also reinforced their belief that the desk is critical to the success of the overall HR organization.

Becoming the quality organization that HR leadership envisions also means an increased use of Internet services through the Human Resources People Web site (<http://jscppeople.jsc.nasa.gov/>).

Services now available on the Internet include online benefits statements, Thrift Savings Plan participation, health insurance information, NET University and the online submission of job applications.

"We are working to move our more routine tasks to the Internet, so that our people can work on more substantive issues with JSC employees, such as survey activities, stress management, change efforts, strategic management and education outreach," Hayes said. "We want to remain a people organization, that's important to us. And, we want to find new and better ways to add value in helping the Center achieve its goals."

As Human Resources—and specifically the Human Resources Customer Service

Desk - grows and adjusts services to meet the needs of JSC employees and other customers it welcomes input on its current services. Over the next few weeks a survey will be available online asking for feedback about the HR Customer



Greg Hayes, Director of Human Resources, recently worked the Customer Service Desk.

Service Desk and its staff. The information that is gathered will be essential to the organization in its ongoing goal to offer the most efficient and complete services possible.

You are encouraged to complete the survey. Please visit the Human Resources "People Online" Web site or go directly to http://hro.jsc.nasa.gov/surveys/hr_at/hrdesk.htm. ■

It's coming! Volunteers are needed for Open House 2001

By Hazel Fipps-Mann

On Saturday, August 25, Johnson Space Center will throw open its doors to the general public once again for the sixth annual Open House event.

This increasingly popular event gives visitors the opportunity to meet the people, see the places and view the hardware of the Human Space Flight program.

Last year's Open House 2000 event was attended by more than 130,000 guests. Though originally conceived for the benefit of the local community, Open House now attracts visitors from all over the world. In fact, some families make Open House part of their vacation destination. They come to experience a behind-the-scenes visit to the home of Human Space Flight excellence.

Visitors are greeted by JSC's workforce, who proudly display the tools of their trades and talk with guests about the many parts they play in helping to create space flight history.

One day out of the year may not be enough to explore the many roles JSC takes in creating this history. Guests find they must return to see and learn more each year with all of the technological advances that happen daily at JSC. Visitors love to learn about what is happening here, including construction of the most complex engineering project ever undertaken—the International Space Station.

They enjoy learning more about how JSC also continues to provide support for flights of the Space Shuttle, as well as how we have ongoing research and training for long duration flights.

Events such as Open House foster public awareness and participation, part of JSC's philosophy to "give back to the community" in as many ways as possible.

JSC is an active participant in the community through education and outreach programs. These programs help make the public aware of the many spin-off benefits of the space program.

To make Open House 2001 a success, we need your help. Volunteer staffing positions for Open House 2001 include:

- ◆ International Space Station Exhibit Trailers Docents
- ◆ Benefits of Space Exhibit Trailer Docents
- ◆ Information booths
- ◆ Teague Auditorium children's activities
- ◆ Lost Child and Parents Center
- ◆ Clinic
- ◆ Cafeterias

More than 400 volunteers are needed from the JSC on-site and off-site work forces to staff these positions. ■

To volunteer for staffing, contact CC de la Garza at X31033 or register online at <http://www4.jsc.nasa.gov/scripts/openhouse/index.cfm>

Fellowship program info available

Each year NASA sponsors employees' participation in various academically-based programs offered by universities such as Harvard, MIT, Carnegie-Mellon and Simmons. The intent of these noncredit programs is to provide an intensive study of management and executive processes. Participants are selected from across the Agency on a competitive basis. The programs are targeted primarily for employees at the GS-13 to SES levels.

If you are interested in being nominated for any of these programs, your first step is to talk to your supervisor. Applications should be submitted to management and through each directorate/program office. Directorate/program offices will forward completed applications (items 1-24) to the Human Resources Development Branch (AH3) by Monday, July 16, 2001.

The Center's NASA Fellowship Panel will choose JSC nominees and final selections will be made at NASA Headquarters.

In selecting candidates, Headquarters and JSC consider the following criteria:

- ◆ Pattern of significant recognition and accomplishments
- ◆ Education and development record
- ◆ Demonstrated potential
- ◆ Purpose for participating in the program
- ◆ Plan for using knowledge gained in support of Center goals

Final selections will also be based on the needs of the Center and the match of individual needs with the program objectives. Visit <http://jscpeople.jsc.nasa.gov/Training/dev/nasafellow.htm> for more detailed descriptions of each of the university programs and how to apply. For general information on the NASA Fellowship program, please contact Erica Vandersand (x31999) or Stacey Medina (x41069) in the Human Resources Development Branch. ■

Human Test Subject Facility seeks volunteers

The Human Test Subject Facility at Johnson Space Center is currently recruiting post-menopausal or post-hysterectomy women up to the age of 65.

Women must:

- ◆ Be non-smokers in good health
- ◆ Have no medication allergies
- ◆ Not be taking any hormone replacement medications
- ◆ Have no history of cardiovascular diseases
- ◆ Have no history of breast cancer
- ◆ Have no history of abnormal results from mammograms or pap smears

Volunteers will participate in a cardiovascular clinical study designed to determine the effects of estrogen on the heart and blood vessels. To qualify, volunteers must complete the required physical exam which includes a blood work-up, ECG, vision and hearing screening, and a treadmill test. Volunteers may be compensated for their time (restrictions apply to NASA and contractor personnel). For additional details and initial screening, call Dr. Dominick D'Aunno at 281-483-5542.

EXPERIMENT CORNER



Expedition II Science Experiments

EXPRESS Rack - EXPedite the Processing of Experiments to the Space Station

The EXPRESS Rack is a standardized payload rack that is being used to transport, store and support experiments aboard the International Space Station. There are currently two such racks aboard the station. These racks can be controlled by the crew or by the Payload Operations Center at MSFC. EXPRESS Rack 2 contains ARIS. Delivered aboard the Raffaello cargo module during STS-100/6A in April 2001.

More Express Rack info:
Expedition Two press kit, p. 15

<http://spaceflight.nasa.gov/station/science/experiments/exprack.html>

HRF - Human Research Facility Rack 1 - Destiny Lab

A laboratory rack that enables scientists to study the physiological, behavioral and chemical changes that human beings experience during long-duration space flights. Provides power, command and data handling, cooling air and water, pressurized gases and vacuum. Delivered aboard the Leonardo cargo module during STS-102/5A.1 in March 2001. The second rack is scheduled for launch in 2002.

More HRF info:
Expedition Two press kit, p. 17

<http://hrf.jsc.nasa.gov/>
<http://hrf.jsc.nasa.gov/i2.htm>
<http://spaceflight.nasa.gov/station/science/experiments/hrf.html>

H- Reflex: Effects of Spaceflight on Spinal Cord Excitability

Measures the ability of the spinal cord to respond to stimuli after being exposed to microgravity. Two tests were done on each Expedition Two crewmember on their second and seventh days in space. The third and final tests will be done shortly before the crew comes home to look for longer-term effects. The data will help researchers determine if exercise could be made more effective on long-duration space flights. Similar experiments have been flown aboard eight previous shuttle flights.

More H-Reflex info:
Expedition Two press kit, p. 16

<http://spaceflight.nasa.gov/station/science/experiments/hreflex.html>

Interactions - Destiny Lab

A questionnaire on a laptop computer that the crew and members of their ground support team complete once a week. The data are being used to examine issues involving tension, cohesion and leadership roles in both the crew and their ground support team. Delivered during STS-102/5A.1 in March 2001. Also flown on Mir.

More Interactions info:
Expedition Two press kit, p. 18
http://spaceflight.nasa.gov/station/science/experiments/hlf_inter.html

For more details, please read the Expedition Two press kit at:

http://spaceflight.nasa.gov/station/crew/exp2/exp2_presskit.pdf

E-Mail from Afar

This was recently received in Public Affairs:

I am writing to say that for the past week (June 2-6) I have watched the International Space Station as it passed over Ireland with great enjoyment at this amazing International Station being built for all humanity to share out in space. The people at NASA should be very proud of their achievements.

Yours sincerely,
Bill Reddin
Republic of Ireland



Hurricane Season

Tips and suggestions for surviving a disastrous storm

❖ Questions Answered ❖

Q How can I decide if I need to evacuate?

A Use your own judgment and communicate with your supervisor. If you have a lengthy distance to travel from work to home, let your supervisor know that you need to leave early.

JSC has a "liberal leave policy," meaning that your supervisor is likely to let you go if a storm is approaching. Keep in mind that if you decide you need to leave before the center closes, you will not receive administrative leave for the time you miss. You will have to use some of your own leave.

You know your situation best. Decide how much time you'll need, bank up your leave now—before another storm comes—and let your supervisor know if you would need to go home well in advance of a storm's arrival.

Q If I leave work, what do I do with my office contents and what are my liabilities?

A Follow the instructions on the bright yellow "Hurricane Check list," which can be found in the vicinity of your desk. Be sure to take any of your personal valuables with you.

Remember RAISE, COVER and CLOSE! Raise your blinds, cover your computer and close the door when you leave.

Your safety and your family should always come first. Use common sense, and recognize that NASA will appreciate anything you do to safeguard equipment. We are all taxpayers and the equipment or valuable information that is lost

Levels of preparedness

Level 4

If a storm enters the Gulf of Mexico and is a threat to JSC, the center will initiate Level 4 preparations within 72 hours of predicted 59 mph winds at JSC. Level 4 preparations are basic activities that begin securing the site.

Level 3

If there is a high probability that a storm will pose a threat to JSC within 48 hours, Level 3 activities will be initiated by the Director of Center Operations. Level 3 activities prepare JSC to close down in a timely manner.

Level 2

When a storm threatens JSC within 36 hours, the center will move to Level 2. Level 2 places the center in the final state of preparation. Many systems, including e-mail and other office computer operations, will be deactivated.

Level 1

The Center Director initiates activities when an imminent threat to the center exists within 24 hours. The center will likely be closed before Level 1. Only the Center Director is authorized to release employees or close the center.

"The timelines for the different levels of activity have been coordinated to complete an orderly shutdown of the center. But they also fit within the guidelines for employees to have adequate time to initiate their personal emergency plan with their family. Safety of the employees is the center's greatest concern."

-Bob Gaffney, Emergency Preparedness Manager

because of what we didn't take the time to protect will inevitably cost us in the long run.

If you have time, take a moment to consider items in and around your work area, especially office plants or perishables in the refrigerator, that might have to be without power and light for a period of time.

Q Will I get paid for time off during a storm?

A Employees will receive administrative leave for normal business hours while JSC remains closed. The Center Director authorizes a formal Center Shut-Down and Evacuation typically when the storm is roughly 36-48 hours away.

Q How do I know when to come back to work?

A Any of these are good resources for employees:

JSC Center Status:

<http://www.jsc.nasa.gov/pao/roundup/centerstatus/index/>

JSC Emergency Operations Center Hurricane Information Page:

<http://www.jsc.nasa.gov/da/da5/hurricane/>

JSC Employee News Service:
281-483-6765

JSC Emergency Information Line:
281-483-3351 Toll free: 1-877-283-1947

Did You Know?

The Hurricane Ride-out Team has six members, but there are other members of the support team. There are 45 operators and craftsmen that are on site to ride-out the storm and be available for recovery efforts. There are also representatives from Logistics, Medical, Safety, Public Affairs, Weather and the Amateur Radio Club that support team members.

Prime members:

Bill Roeh - Manager, Emergency Operations Office (EOO), COD
Mike Scott - Acting Chief, Facilities Engineering Division (FED), COD
Reinhard Brueckner - Sr. Electrical Engineer, FED, COD
Bob Gaffney - JSC Emergency Preparedness Manager (EOO), COD
Dick McMinimy - Assistant to the Chief, Security Office, COD
Bob Clark - Manager Maintenance and Operations, BRSP

Alternate members:

Gary Wessels - Project Manager, COD
Dennis Perrin - COD Emergency Preparedness Manager, COD
Bill Cowart - Branch Chief, Mechanical Operations, FED, COD
Chester Bennett - Project Manager, COD
Capt. Ken Hill - Manager, Dispatch Operations, Security
Alton Costly - Maintenance Manager, BRSP

The action center on the 2nd floor of Building 30M is the retreat if the weather becomes too bad to stay in 30L. When 55 mph winds hit the center, the HRT hunkers down, monitors conditions and waits until the weather passes.

JSC's tunnel system may be used in evacuating operators from the Central Heating and Cooling plant in Building 24 to Building 30M if the weather becomes too bad. Normally at sustained winds of 55 mph, the plant will be shut down and operators can safely make it to Building 30M.

Hurricane Checklist

Helpful checklists are located under your desk.

Unplug all power strips and electric equipment from wall outlets.

Raise all window blinds 12 to 18 inches from the top of the windows.

Rescue all personal valuables from a wet environment,

Including plants, pictures, radios and coffee mugs.

Cover your computer!

Accumulate loose items, pictures, papers and files and move to higher ground.

Never leave without closing the door.

Expect traffic on your way home and out of town.

Stock up on batteries, medications, food, water and first aid supplies.

Evacuate your belongings if you think your house may flood.

Always carry your driver's license, birth certificate and other identification.

Stop by the ATM and gas station before the storm.

One good idea is to plan for one category higher than predicted and expect it to arrive 12 hours sooner than forecast.

Notify relatives of your plans and help neighbors in need.

Did You Know?

JSC has a Backup Control Center concept where ISS control could be handed over to Mission Control Center-Moscow (MCC-M) in the event power is lost in Mission Control. Russians would command the Russian segment, and Americans in the Houston Support Group would command the U.S. segment.

If power was lost during a Shuttle mission, the ISS handover would be to MCC-M and a team would fly to the Launch Control Center at KSC for a Shuttle Operations handover.

“Employee preparation can save lives and property when a disaster or torrential floods strike. The lessons of Tropical Storm Allison earlier this month need to be remembered by employees to prevent emergencies from becoming disasters for themselves and their loved ones.”

-Bob Gaffney

Tropical Storm Allison proves hurricanes are not the only threat

In an ironic twist of Mother Nature’s fury, two tropical storms with the same name hit the Houston/Galveston area 12 years apart. The elder Allison developed in 1989 from the remnants of Eastern Pacific Hurricane Cosme and a tropical wave. The most recent Allison began as a tropical wave off the coast of Africa on May 21, 2001.

The National Weather Service recently stated: “More memorable however was the first, and somewhat less devastating, Tropical Storm Allison. Allison of 1989 also stalled in Southeast Texas, bringing repeated heavy rains to the region during late June and early July. Oddly, both Allisons made landfall near the west end of Galveston Island, headed into East Texas, moved back to the southwest—bringing torrential rains to the Houston area—before finally drifting off to the east.” ■

Saffir-Simpson Hurricane Scale

Category Scale #	Sustained Winds (MPH)	Damage	Examples of hurricanes affecting the Houston area
Category 1	Winds: 74-95 mph	Mainly to trees, shrubbery, unanchored mobile homes, boats	Hurricane Bonnie - June 1986 Hurricane Jerry - Oct. 1989
Category 2	Winds: 96-110 mph	Considerable amount to trees, some roofs, windows, doors, entire marinas, minor building damage	August 1940 Hurricane Hurricane Edith - Sept. 1971
Category 3	Winds: 111-130 mph	Destruction of large trees, some structural damage inland, damage of small buildings on coast	August 1915 Hurricane Hurricane Alicia - Aug. 1983
Category 4	Winds: 131-155 mph	Major damage to lower floors and buildings near coast, extensive structural and roof damage inland	Great Storm of 1900 - September 1900 Hurricane Audrey - June 1957 Hurricane Carla - Sept. 1961
Category 5	Winds: Above 155 mph	Destruction of many roofs, residences and industries Many small buildings blown over or away	None recorded for the local area, though experts disagree on whether or not the Great Storm of 1900 was a Category 4 or 5

CLIP AND SAVE

CLIP AND SAVE

Emergency Numbers

JSC Emergency Information Line . . . x33351 (toll free) 1-877-283-1947	El Lago 281-326-1951
JSC Employee News Service x36765	Friendswood 281-996-3335
Emergency 911	Galveston (city) 409-766-2102
Harris County Flood Control (river levels) 713-881-3100	Galveston County (north) 281-534-2531 x102
National Weather Service 281-337-7895	Galveston County (south) 409-762-8621 x102
Texas Highway Department (road closures) 1-800-452-9292	Harris County 713-881-3100
Emergency Management Offices	Hitchcock 409-986-5559
American Red Cross 713-526-8300	Houston (city) 713-881-3045
Galveston County 409-763-5971	LaMarque 409-938-9269
Pasadena 713-943-7000	League City 281-338-4836
Clear Lake Office 281-282-6039	Nassau Bay 281-333-4200
Baytown 1-281-420-6556	Pasadena 281-475-5588
Clear Lake Shores 281-334-1034	Santa Fe 409-925-2000
Deer Park 281-478-7298	Seabrook 281-291-5610
Dickinson 281-337-2489 x261	Taylor Lake Village 281-326-2843
	Texas City 409-643-5707
	Webster 281-333-2712

Emergency Supply Kit

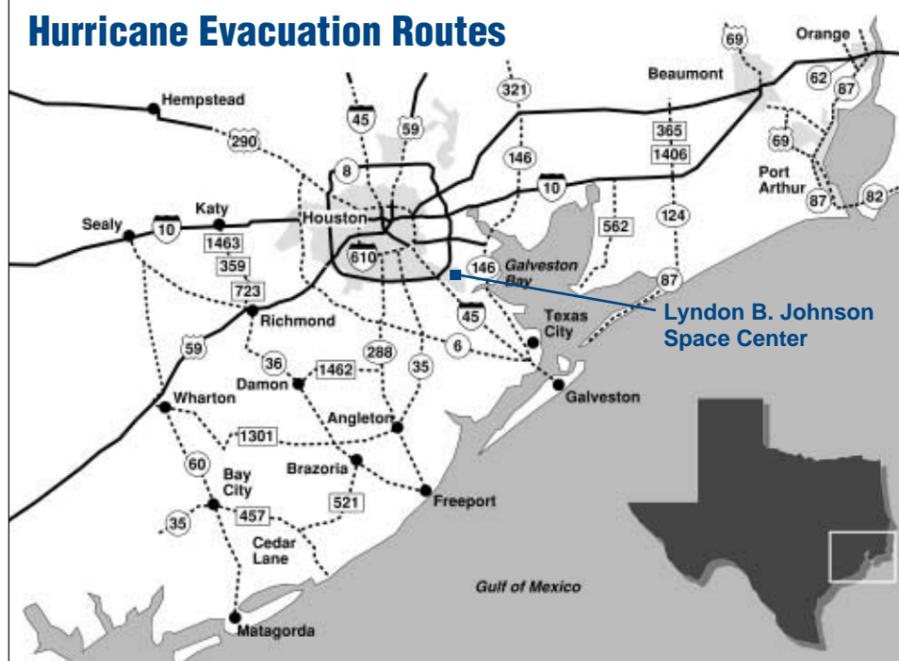
- Flashlight
- Tissues
- Radio
- Pocket Knife
- Sanitary Supplies
- Toothbrush
- Soap
- Shampoo
- Sponge
- Cleanser
- Bleach
- Batteries
- Pencils
- Drinks/Juices
- Nuts
- Rice – Pasta
- Soups
- Canned Foods
- Water (1 gal per person per day)



30-gallon trash barrel

- First-Aid Kit
- Medicines
- Rubbing Alcohol
- First-Aid Handbook
- Towels
- Blankets
- Paper Towels
- Toilet Paper
- Candles
- Matches
- Can Opener
- Peanut Butter
- Crackers
- Dried Beans
- Change of Clothing
- Foul Weather Gear
- Sterno, Stove, Fuel
- Garbage Bags
- Cooking Utensils
- Cooking Pot
- Plastic Dishes
- Silverware
- Aluminum Foil

Hurricane Evacuation Routes



CLIP AND SAVE—Keep this handy reference in daily planners by cutting the page on the dotted line. By keeping these references close at hand, you should be able to minimize the effects of a storm to your office and personal property.

“There are more than 800,000 people who may choose to evacuate the coastal areas around Galveston County in the event of a major storm. To ensure that you have the ability to evacuate, you should plan your evacuation route ahead of time and prepare your emergency supply kit in advance. When the time comes to evacuate, you can collect your important papers, load the family and your emergency supply kit into the car quickly and be on the road before your unprepared neighbor gets back from the grocery store.”

-Bob Gaffney

Ripped from the ROUNDUP

Ripped straight from the pages of old Space News Roundups, here's what happened at JSC on this date:

1 9 7 1

The 12-day Apollo 15 mission, scheduled for launch on July 26 to carry out the fourth United States manned exploration of the Moon, will:

- Double the time and extend tenfold the range of lunar surface exploration as compared with earlier missions;
- Deploy the third in a network of automatic scientific stations;
- Conduct a new group of experiments in lunar orbit; and
- Return to Earth a variety of lunar rock and soil samples.

Scientists expect the results will greatly increase man's knowledge both of the Moon's history and composition and of the evolution and dynamic interaction of the Sun-Earth system.

1 9 7 6

Among the flood victims of Houston's downpour June 15 and 16 were the famed and diverse institutions comprising the Texas Medical Center. Medical records for a large number of the hospitals and teaching schools were kept in the basements of the buildings. These same basements were inundated with as much as six feet of water, covering file cabinets containing the records.

James McLane Jr., chief Space Environment Test Division, and others in the division were thinking about the problems caused by the flooding and decided that JSC's Space Environment Simulation Chamber B, Building 32, could be used to dry the records. Center management concurred in this suggestion.

1 9 8 6

The first flight of the Shuttle following the Challenger accident is now scheduled for sometime in the first quarter of 1988, NASA reported July 14.

In a detailed report to President Reagan, NASA Administrator Dr. James Fletcher provided the Agency's responses to the nine major recommendations of the Presidential Commission on the Space Shuttle Challenger accident.

Calling the Commission's findings "a road to recovery," Fletcher said the Agency has responded favorably to the report in every area.

In consideration of the number, complexity, and interrelationships between the many activities leading to the next flight, the Space Shuttle Program Manager at JSC has initiated a series of formal Program Management Reviews for the Space Shuttle program.



American Heritage Week celebration postponed



The American Heritage Week celebration has been postponed. Tropical Storm Allison impacted several of the scheduled performers. The celebration has been moved to Aug. 6-10, with the grand finale at the Gilruth Center on Aug. 10.

For more information contact the EOPO at x30601 or visit: <http://www4.jsc.nasa.gov/EOPO/>

Equal Opportunity Counselors recently appointed

The Equal Opportunity Programs Office (EOPO) recently announced the appointment of new Equal Opportunity Counselors at JSC, effective June 1, 2001. The employees listed below will serve a two-year term in this collateral duty assignment. The term will expire May 30, 2003.

Employees may contact either the EOPO or any listed counselor to discuss concerns or issues based on race, color, national origin, sex, religion, disability or age.

The new Equal Opportunity Counselors are:

- ✓ **Rochelle Brown (X39417)**
Command, Control, & Planning Systems Development and Operations Branch
- ✓ **Sarah Buie (X30684)**
EVA, Robotics and Crew Systems Operations
- ✓ **Howard Hu (X38154)**
Aerospace and Flight Mechanics Division
- ✓ **Kim Grayton (X38276)**
Dynamic Systems Test Branch
- ✓ **Patricia Kolkmeier (X33131)**
Center Operations Directorate
- ✓ **Keith Combs (X38217)**
- ✓ **Debbie Gatti (X47869)**
- ✓ **Steve Leathers (X47011)**
Space Shuttle Resources Management Office
- ✓ **Clarence Ross (X45095)**
Space Station Resources Management Office/Space Station Division

Juanita Gibson (X30513)
International Space Station Program Office

John Villegas (505) 524-5189
White Sands Test Facility

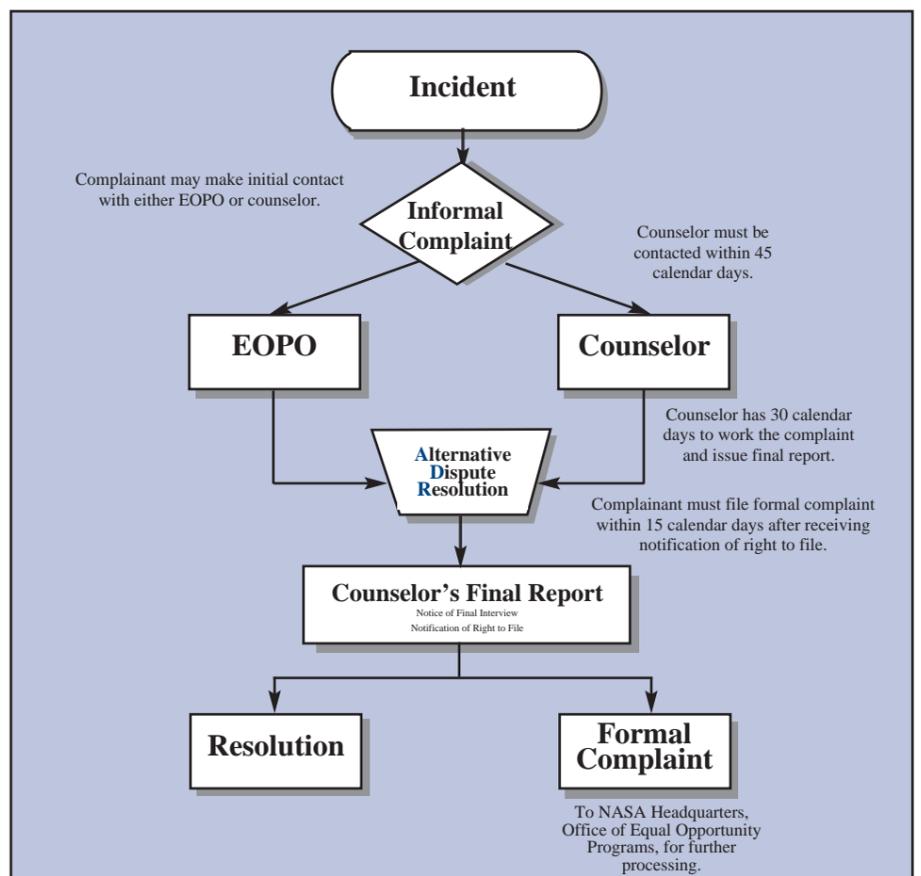
Theodore (Tico) Foley (X32996)
Space and Life Sciences Directorate

Counseling is a basic step in the Equal Employment Opportunity (EEO) discrimination complaint process and is available to JSC employees. Employees

may request anonymity if they desire. Through interviews and inquiries, the counselor's vital role is to attempt to resolve EEO-related problems at the lowest possible level and in the shortest period of time.

The counselor must also advise employees of formal complaint procedures and timelines. **The complaint process is shown in the flow chart below.**

Any questions concerning this announcement should be directed to the EOPO at ext. 30601.



The Teague Auditorium is reopened

By Eric Raub

The Teague Auditorium is open for business again. It reopened June 24 after being closed several months ago for a sprinkler system installation to protect its main auditorium.

The Teague Auditorium was dedicated in 1981 to the memory of U.S. Rep. Olin E. "Tiger" Teague, an avid supporter of the space program. During its life the Teague has hosted receptions, conferences and special presentations. Many

astronauts sat in the auditorium to tell a full house about the mission they just completed.

In recent history, the Teague once played host to visitors on a regular basis. Before the construction of Space Center Houston, the Teague regaled tourists with its photos and memorabilia of the space program. The Teague still serves as a major attraction on days like JSC's Open House (see page 3).

The Teague's colorful history also has

a somber side. It has hosted memorial services for former astronauts Alan Shepherd and Donald "Deke" Slayton, and its west corridor has become a memorial area of sorts. Plans are in the works to include an area with photographs of all the deceased astronauts and noted JSC personalities, such as Dr. Robert Gilruth, whose memorial service in the Teague Auditorium marked an unofficial start to the memorial area idea. ■

GOOD NEWS**Davison, Bird presented Secretarial Excellence Awards**

Marilyn Davison of the Engineering Directorate and Theresa Bird of the International Space Station (ISS) Program Office recently received the Marilyn J. Bocking Secretarial Excellence Award.

Marilyn Davison

Davison was recognized in April for her contributions as secretary to the Deputy Director of Engineering; Bird was recognized in May for her contributions as lead



NASA JSC 2001e18227 photo by Rob Markowitz

Marilyn Davison – April

secretary for the ISS Mission Integration and Operations Office.

“Ms. Davison’s job in support of the Deputy Director can be demanding since

it involves preparing correspondence, arranging for travel, arranging meetings, handling the telephones, interacting with visitors and maintaining the Deputy Director’s calendar,” according to her nomination form.

On her own initiative, she took the necessary training and is now the curator of the Engineering Directorate Web page. She also offers assistance to those in the office, including the Directorate’s Executive Assistant. The nomination form stated that any task Davison is given is attended to in a professional and expeditious manner. At times, Davison must step out of her normal role as the secretary for the Deputy Director and serve as the directorate secretary.

“Ms. Davison has applied her excellent skills to achieving an exceptionally high level of service to the Deputy Director, and is invaluable in independently disposing of routine matters and in anticipating work that needs to be done,” according to the nomination.



NASA JSC 2001e18228 photo by Rob Markowitz

Theresa Bird — May

“Her sense of responsibility and dedication to her profession contributes significantly to her excellent performance.”

Theresa Bird

“Ms. Bird is a dedicated, enthusiastic employee who is a tremendous asset to the program,” according to her nomination form. “She handles multiple requirements simultaneously and coordinates activities for an office in which everyone’s requests are the ‘most’ important.... Ms. Bird always maintains a friendly, helpful attitude. She leads by

example and demonstrates an exceptional amount of integrity.”

Her main objectives were to put in place effective and efficient office practices, establish a rapport with all of the secretaries, build a secretarial team that can work together and serve as their mentor. She has also conducted secretarial meetings to relay policy changes and address issues.

She was the only secretary for the entire office for a period of time during the last program reorganization. Ms. Bird worked all of the logistics and administrative details with the ISS move coordinator, her management and others around the center to resolve any issues and difficult situations that arose.

“This was a tremendous effort that required an enormous amount of dedication and coordination,” said her nomination form. “She did whatever was required to ensure the job was completed successfully and with the least amount of impact to the employees involved.” ■

ISS Supplier wins Kellogg Scholarship

Ed Muniz, owner and chief executive officer of Muniz Engineering (MEI) in Houston, is congratulated by Mary Simmerman, Boeing Vice President, Space and Communications, Supplier Management, Procurement, for being selected to attend the Advanced Management Education Program at Northwestern University’s prestigious Kellogg Graduate School of Management in Evanston, Illinois. He was nominated to attend the program by Boeing’s International Space Station team. MEI provides engineering and related technical services to Boeing in support of the ISS in Houston.

**Dr. John Charles wins Space Medicine Award**

By Catherine Watson

John Charles, Ph.D., of the Flight Projects Division has been awarded the 2001 Hubertus Strughold Award by the Space Medicine Branch of the Aerospace Medical Association. Charles received the award at the association’s annual meeting in Reno, Nev., on May 10.

The Hubertus Strughold Award, named for the widely renowned “Father of Space Medicine,” is presented each year for excellence in and/or sustained contributions in the field of Space Medicine. Most awardees have been physicians and flight surgeons, but some have been scientists who were not medical doctors.

“I am surprised and very honored to receive this prestigious award because I am just one of many space life science researchers, both here at JSC and around the world,” Charles said. “Anything I accomplished was made possible by the work of many others, and this award is a tribute to all of their efforts.”

Charles was chosen for the award because of his work in understanding the effects of space flight on the human

cardiovascular system, leading to better protective measures for astronauts. Charles was also noted for his efforts in documenting, understanding and reducing all of the human risks of short- and long-duration space flights.

“The list of previous recipients includes most of my role models and mentors,” Charles added, “so I am honored to be among them.”

The Space Medicine Branch, a constituent organization of the Aerospace Medical Association, is composed of nearly 300 international members. Its members are primarily physicians and scientists involved in the fields of medicine and physiology related to the study of the space environment. ■



John Charles, Ph.D.

Scientist receives national medal for Antarctic Research

By Jerry Wagstaff

Dr. John T. Lisle, a Lockheed Martin Senior Scientist in the NASA Astrobiology Institute for Biomarkers, received the Antarctic Service Medal from the National Science Foundation for his part in recent scientific expeditions to Antarctica.

Dr. Lisle received the award in recognition of valuable contributions to exploration and scientific achievement under the U.S. Antarctic Research Program. Astronaut Ken Reightler presented the award at a June 14 ceremony in the Earth Science and Solar System Exploration Division.

“This award is symbolic of not only a once-in-a-life time opportunity, but also of months of research in one of the most extreme environments on Earth,” Lisle said. “It also reminds me of the encouragement and support that individuals at the National Science Foundation, NASA, Lockheed Martin and, most importantly, my wife and children have offered during these trips.”

The Antarctic Service Medal is awarded to members of Antarctic expeditions, personnel of the permanent Antarctic stations or those who service in contiguous waters. It is awarded to officers, enlisted military personnel and deserving civilians—such as scientists and polar experts.

A microbiologist specializing in microbial ecology, Dr. Lisle studied the interactions between bacteria and viruses living in lakes in the Taylor and Wright Valleys, Queen Victoria Land, Antarctica. These lakes are permanently covered with ice, but the water in the lakes is so saturated with dissolved minerals that even at six degrees below zero Celsius the water under the ice remains liquid.

He collected samples from the Antarctic lakes to return to JSC for further study in conjunction with NASA, the National



Dr. John T. Lisle in Antarctica

Science Foundation and the University of Houston at Clear Lake. Dr. Lisle supports the Astrobiology Project within the JSC Astrobiology Institute. He also supports the Mars Advanced Curation Project, which is preparing to receive future samples returned from Mars. The Dry Valleys of Antarctica are considered to be the best examples of Martian surface environments on Earth.

“Doing research in the field in Antarctica is beyond description for me. Even though the temperature and weather can be uncomfortable at times, the excitement of being there and seeing these areas and potential for new discoveries with each experiment make these discomforts hardly noticeable,” he said.

“What has made it even more rewarding for me is the opportunity to collaborate with world-class scientists like Drs. John Priscu (Montana State University) and Gordon McFeters (Montana State University). Collectively, this has been an experience that I will remember for the rest of my life.” ■

PEOPLE on the **MOVE****Human Resources reports the following personnel changes:****Key Personnel Assignments**

Milt Heflin was named Chief, Flight Director Office, Mission Operations Directorate.

Additions to the Workforce

Arturo Sanchez joins the Education and Student Programs Branch, Human Resources Office, as an Education Program Specialist.

Cynthia Maclean joins the Space Shuttle Procurement Office, Office of Procurement, as a Contract Specialist.

Quincy Harp joins the Robotics Operations Branch, EVA, Robotics and Crew Systems Operations Division, Mission Operations Directorate, as a Robotics Controller/Trainer.

Tammy Flowers joins the Electrical Systems Branch, Systems Division, Mission Operations Directorate, as a Flight Controller.

Quin Kroll and *Gregory Lin* join the Avionics Test and Analysis Branch, Avionic Systems Division, Engineering Directorate, as Electronics Engineers.

Jennifer Lesturgeon joins the Customer Support Office, Information Systems Directorate, as a Computer Engineer.

Ann Hill joins the Financial Management Division, Office of the Chief Financial Officer, as an Accountant.

Georgia Roberts joins the Financial Management Division, Office of the Chief Financial Officer, as an Internal Review Analyst.

Patricia Colston joins the Space Station Resources Management Office, Office of the Chief Financial Officer, as a Program Analyst.

Darryl Gaines joins the Avionics and Software Office, International Space Station Program, as Lead of the Station Management and Control Program Note Team.

Ryan Landon joins the Mission Support Office, Mission Integration and Operations Office, International Space Station Program, as an Increment Engineer.

Kevin Meehan joins the On-Orbit Engineering Office, Vehicle Office, International Space Station Program, as a Mission Evaluation Room Manager.

Sheryl Nazario joins the Administration Office, White Sands Test Facility, as a Program Analyst.

Constance Whorton joins the Medical Operations Branch, Medical Sciences Division, Space and Life Sciences Directorate, as a Clinical Nurse.

Promotions

Janie Perez was selected as a Financial Management Specialist in the Financial Services Branch, Financial Management Division, Office of the Chief Financial Officer.

Linda Crotts was selected as a Directorate Secretary in the Space and Life Sciences Directorate.

Reassignments to Other Directorates

Kathy Weisskopf moves from the International Space Station Program to the Public Affairs Office.

Bob Ess moves from the International Space Station Program to the Space Shuttle Program.

Robert Galvez moves from the International Space Station Program to the Space Shuttle Program.

James McDede moves from the Mission Operations Directorate to the Space Shuttle Program.

Pat Watson moves from the Space Shuttle Program to the International Space Station Program.

Bridget Johnson moves from the Mission Operations Directorate to the EVA Project Office.

Retirements

George Richeson of the Mission Operations Directorate.

Frank Svejcar of the Mission Operations Directorate.

James Stanley of the Center Operations Directorate.

Joseph Loftus of the Space and Life Sciences Directorate.

Resignations

Glen Van Zandt of the Human Resources Office.

Jeff Bantle of the Mission Operations Directorate.

Ken Crouse of the Engineering Directorate.

Steve Mai of the Safety, Reliability, and Quality Assurance Office.

DATES & DATA**July 2**

CLA-NSS meets: The Clear Lake area chapter of the National Space Society meets at 6:30 p.m. at the Parker Williams Branch of the Harris County Library at 10851 Scarsdale Blvd. For more information contact Murray Clark at 281-367-2227.

NSBE meets: The National Society of Black Engineers meets at 6:30 p.m. at Texas Southern University, School of Technology, first floor. For more information contact Kimberly Topps at 281-280-2917.

July 3

Quality Society meets: The Bay Area Section of the American Society for Quality meets at 6 p.m. at the Franco's Restaurant. For details contact Ann Dorris at x38620.

July 5

Communicators meet: The Clear Lake Communicators, a Toastmasters International Club, meets at 11:30 a.m. at Wyle Laboratories, 1100 Hercules, Suite 305. Other meetings will be held July 12, 19 and 26. For more information contact Allen Prescott at 281-282-3281 or Richard Lehman at 281-280-6557.

Warning System Test: The site-wide Employee Warning System performs its monthly audio test at noon. For more information contact Bob Gaffney at x34249.

July 10

Aero Club meets: The Bay Area Aero Club meets at 7 p.m. at the Houston Gulf Airport clubhouse at 2750 FM 1266 in League City. For more information contact Larry Hendrickson at x32050 or checkout www.bayareaaeroclub.org

IAAP Meets: The International Association of Administrative Professionals - Clear Lake / NASA Area Chapter presents Cecil Burdick from EventSource, a complimentary service for planning off-site meetings. Burdick has 15 years of hotel

sales experience and is able to advise on how to get a good contract and negotiate a better deal. The seminar will be held at 5:30 p.m. at the Friendswood Friends Church - 502 S Friendswood Drive (FM 518), Friendswood, TX 77546. Cost is \$12, which includes dinner. Please contact Jackie Almanza at jalmanza@wcn.net or at x47274 for more information and to register for the seminar.

July 11

MAES meets: The Society of Mexican-American Engineers and Scientists meets at 11:30 a.m. in Bldg. 16, Rm. 111. For details contact Margaret C. Delgado at 713-643-6097 or mcdelgad@aol.com.

Spaceland Toastmasters meet: The Spaceland Toastmasters meets on Wednesday mornings at 7 a.m. at the House of Prayer Lutheran Church 1515 Bay Area Blvd at Reseda. Other meetings will be held on July 18 and 25. For more information, contact Ava Sloan at 713-768-6336 or asloan@hal-pc.org

Spaceteam Toastmasters meet: The Spaceteam Toastmasters meet at 11:30 a.m. at United Space Alliance, 600 Gemini. Other meetings will be held on July 18 and 25. For details contact Patricia Blackwell at 281-280-6863.

Correction: Viewing Shuttle launches

JSC area civil servant and contractor employees can request a KSC Causeway Pass for a Shuttle launch by sending a written request via e-mail to the 'Protocol Office' on JSC's global list or by calling 281-483-2838. A causeway pass allows vehicles access and parking along the causeway near Cape Canaveral in Florida for a launch. It is an excellent unobstructed viewing area for the event. The requester should include a name, home address and the flight number of the launch they wish to attend.

NASA BRIEFS**NASA SELECTS FIRST MARS SCOUT CONCEPTS FOR FURTHER STUDY**

The ten most promising mission concepts of the 43 proposed to NASA for possible launch to Mars in 2007 were selected today to receive funding for six months of continued studies. Included in the ten concepts selected for study are missions to return samples of Martian atmospheric dust and gas, networks of small landers, orbiting constellations of small craft, and a rover that would attempt to establish absolute surface ages of rocks and soils.

NASA plans to evaluate the ten innovative concepts using rapid six-month studies as a means for jump-starting the identification of new Mars Scout missions that will compete for a possible launch in 2007. The proposals were submitted to NASA's Mars Exploration Program in the Office of Space Science in Washington, DC, in response to a call for proposals in March 2001. Those selected will receive up to \$150,000 each for the study.

Dr. Ed Weiler, Associate Administrator for Space Science selected the ten winners on the basis of overall scientific merit and potential for implementation under a total mission cost cap of \$300 million.

Next year, NASA plans to initiate a competition for small "Scout" missions to the Red Planet to broadly involve the scientific and aerospace communities in the Mars Exploration Program.

SATELLITES REVEAL HAWAII'S LONG TAIL OF WIND AND WATER

The Hawaiian Islands trigger an extraordinary interaction between wind and ocean that extends thousands of miles. This island effect is much larger than has ever been observed by scientists before.

Using data from Earth-observing satellites, researchers discovered a narrow, eastward-flowing ocean current that extends nearly 5,000 miles from Asia to Hawaii. While scientists have known of an eastward current off Asia for some years, this new research shows such a current could possibly have aided the islands' early settlers, thought to have sailed from the Far East.

In their paper, "Far-Reaching Effects of the Hawaiian Islands on the Pacific Ocean-Atmosphere," the authors describe a chain of events that begins when the steady westward trade winds and North equatorial current encounter the volcanically formed Hawaiian Islands standing tall in the middle of the Pacific Ocean. The islands force the winds to split, creating areas of weak winds behind the islands and strong winds on the islands' flanks. Individual wakes form behind the islands, but these merge into a broader wake about 150 miles to the west.

The study shows that the surface winds react to sea-surface temperature variations as small as a few tenths of one degree, indicating climate sensitivity much higher than has been previously thought. This new knowledge of ocean-atmosphere interplay will help improve climate models used to predict phenomena like El Nino and global warming.

SPACE CENTER Roundup

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