

DATES & DATA**August 2**

NSBE meets: The National Society of Black Engineers will meet at 6:30 p.m. August 2 at Texas Southern University, School of Technology, Rm. 316. For details, call Kimberly Topps at (281) 280-2917.

August 4

Astronomy seminar: The JSC Astronomy Seminar Club will meet at noon August 4, 11, 18, and 25 in Bldg. 31, Rm. 248A. For more information, call Al Jackson at x35037.

Communicators meet: The Clear Lake Communicators, a Toastmasters club, will meet at 11:30 a.m. August 4, 11, 18 and 25 at Freeman Library, 16602 Diana Lane. For more information, call Allen Prescott at (281) 282-3281 or Mark Caronna at (281) 282-4306.

Spaceland Toastmasters meet: The Spaceland Toastmasters will meet at 7 a.m. August 4, 11, 18 and 25 at the House of Prayer Lutheran Church. For more information, call George Salazar at x30162.

Spaceteam Toastmasters meet: The Spaceteam Toastmasters will meet at 11:30 a.m. August 4, 11, 18 and 25 at United Space Alliance, 600 Gemini. For more information, call Patricia Blackwell at (281) 280-6863.

August 5

Warning System Test: The site-wide Employee Warning System will perform its monthly audio test at noon August 5. For more information, call Bob Gaffney at x34249.

August 10

Aero Club Meets: The Bay Area Aero Club will meet at 7 p.m. August 10 at the Houston Gulf Airport clubhouse at 2750 FM 1266 in League City. For additional information call Larry Hendrickson at x32050.

NPMA meets: The National Property Management Association will meet at 5 p.m. August 10 at Robinette and Doyle Caterers, 216 Kirby in Seabrook. Dinner costs \$14. For more information call Sina Hawsey at x36582.

August 11

IAAP meets: The Clear Lake/NASA Chapter of the International Association of Administrative Professionals (formerly Professional Secretaries International) will meet at 5:30 p.m. August 11 at Bay Oaks Country Club. Cost is \$16. For details and reservations, call Tami Barbour at (281) 488-0055, x238.

August 12

Airplane club meets: The Radio Control Airplane Club will meet at 7 p.m. August 12 at the Clear Lake Park building. For more information call Bill Langdoc at x35970.

MAES meets: The Society of Mexican-American Engineers and Scientists will meet at 11:30 a.m. August 12 in Bldg. 16, Rm. 111. For more information, call George Salazar at x30162.

August 13

Astronomers meet: The JSC Astronomical Society will meet at 7:30 p.m. August 13 at the Center for Advanced Space Studies, 3600 Bay Area Blvd. For details, call Chuck Shaw at x35416.

August 18

Scuba club meets: The Lunarfins will meet at 7:30 p.m. August 18. For details, call Mike Manering at x32618.

August 19

NSS meets: The Clear Lake area chapter of the National Space Society will meet at 6:30 p.m. August 19 at the Freeman Memorial Branch Library, 16602 Diana Lane. For additional information call Murray Clark at (281) 367-2227.

Directors meet: The Space Family Education board of directors will meet at 11:30 a.m. August 19 in Bldg. 45, Rm. 712D. For more information on this open meeting contact Gretchen Thomas at x37664.

August 22

Westside NSS meets: The Westside group of the Clear Lake area chapter of the National Space Society will meet at 2 p.m. August 22 at Silicon Graphics, 11490 Westheimer, Suite 100. For additional information, call Murray Clark at (281) 367-2227.

GILRUTH CENTER NEWS

<http://www4.jsc.nasa.gov/ah/exceaa/Gilruth/Gilruth.htm>

Hours: The Gilruth Center is open from 6:30 a.m.-10 p.m. Monday-Thursday, 6:30 a.m.-9 p.m. Friday, and 9 a.m.-2 p.m. Saturday. Contact the Gilruth Center at (281) 483-3345.

Sign up policy: All classes and athletic activities are on a first-come, first-served basis. Sign up in person at the Gilruth Center and show a yellow Gilruth or weight room badge. Classes tend to fill up two weeks in advance. Payment must be made in full, in exact change or by check, at the time of registration. No registration will be taken by telephone. For more information, call x33345.

Gilruth badges: Required for use of the Gilruth Center. Employees, spouses, eligible dependents, NASA retirees and spouses may apply for photo identification badges from 7:30 a.m.-9 p.m. Monday-Friday and 9 a.m.-2 p.m. Saturdays. Cost is \$10. Dependents must be between 16 and 23 years old.

Nutrition intervention program: Six-week program includes lectures, a private consultation with the dietitian and blood analysis to chart your progress. Program is open to all employees, contractors and spouses. For details call Tammie Shaw at x32980.

Defensive driving: One-day course is offered once a month at the Gilruth Center. Pre-registration required. Cost is \$25. Call for next available class.

Stamp club: Meets every second and fourth Monday at 7 p.m. in Rm. 216.

Weight safety: Required course for employees wishing to use the Gilruth weight room. Pre-registration is required. Cost is \$5. Annual weight room use fee is \$90. The cost for additional family members is \$50.

Exercise: Low-impact class meets from 5:15-6:15 p.m. Mondays and Wednesdays. Cost is \$24 for eight weeks.

Step/bench aerobics: Low-impact cardiovascular workout. Classes meet from 5:15-6:15 p.m. Tuesdays and Thursdays. Cost is \$32 for eight weeks. Call Kristen Taragzewski, instructor, at x36891 for more information.

Yoga: Stretching class of low-impact exercises designed for people of all ages and abilities in a Westernized format. Meets Thursdays 5-6 p.m. Cost is \$32 for eight weeks. Call Darrell Matula, instructor, at x38520 for more information.

Ballroom dancing: Classes meet from 7-8:15 p.m. Thursdays for beginner-advanced classes and from 8:15-9:30 p.m. for beginner-intermediate and intermediate students. Cost is \$60 per couple.

Country and western dancing: Beginner class meets 7-8:30 p.m. Monday. Advanced class (must know basic steps to all dances) meets 8:30-10 p.m. Monday. Cost is \$20 per couple.

Fitness program: Health-related fitness program includes a medical screening examination and a 12-week individually prescribed exercise program. For more information call Larry Wier at x30301.

NASA BRIEFS**GLENN MISSION, SOHO MAKE ADVANCE ON SOLAR MYSTERY**

The high-speed portion of the solar wind achieves its high velocity – up to 500 miles per second – by “surfing” magnetic waves in the Sun’s outer atmosphere.

For 37 years, solar scientists have been puzzled by the fact that the high-speed solar wind travels twice as fast as predicted by theory. Observations and theoretical analyses have discovered a surprising explanation for this mystery: magnetic waves. The observations were made using instruments aboard NASA’s Spartan 201 spacecraft, deployed from the Space Shuttle during the STS-95 mission, and the international Solar and Heliospheric Observatory (SOHO).

“The mystery was first presented by the Mariner 2 spacecraft in 1962, the same year as Glenn’s first flight,” said Dr. Marcia Neugebauer of NASA’s Jet Propulsion Laboratory, Pasadena, Calif., the co-principal investigator of the solar wind instrument on Mariner 2. “The new observations made by SOHO and by the Spartan 201 mission during Glenn’s return to space put us much closer to finally unraveling the mystery of the acceleration of the solar wind.”

NASA TECHNOLOGY SPURS NEW ENVIRONMENTAL BUSINESS

Don Sumner knew that past attempts to detect plant stress had been too labor intensive to be cost effective. He believed that if a farmer or forester could efficiently and routinely analyze plant stress, savings in harvest time, fertilization costs and crop losses could substantially increase profits.

Sumner is modifying Stennis’ plant-stress prototype, which detects stress by measuring far-red and infrared light waves.

Sumner recently signed a license agreement for the center’s first dual-use technology transfer project. He projects that his Associated Technical Management Corporation of Texarkana, a consortium created to research and develop applications for the imager, could gross approximately \$20 million over the next five years from the commercial use of NASA technology.

NASA ANNOUNCES UPCOMING DISCOVERY FLIGHTS

The first comprehensive mission to map pockmarked Mercury and a radical mission to excavate the interior of a comet have been selected as the next flights in NASA’s Discovery Program.

The Mercury Surface, Space Environment, Geochemistry and Ranging mission, or Messenger, will carry seven instruments into orbit around the closest planet to the Sun. It will send back the first global images of Mercury and study its shape, interior and magnetic field.

Messenger, to be launched in spring 2004, will be NASA’s first mission to Mercury since the Mariner 10 flybys in 1974 and 1975.

Deep Impact will be launched in January 2004 toward an explosive July 4, 2005 encounter with P/Tempel 1. It will use a copper projectile because that material can be identified easily within the spectral observations of the material blasted off the comet by the impact, which will occur at an approximate speed of 22,300 mph.

SPACE CENTER Roundup

The Roundup is an official publication of the National Aeronautics and Space Administration, Johnson Space Center, Houston, Texas, and is published by the Public Affairs Office for all space center employees. The Roundup office is in Bldg. 2, Rm. 181. The mail code is AP3. The main telephone number is x38648, and the fax is x32000. Electronic mail messages may be directed to:

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