

DATES & DATA**October 25**

Spaceteam Toastmasters meet: The Spaceteam Toastmasters meet at 11:30 a.m. October 25 and November 1 and 8 at United Space Alliance, 600 Gemini. For more information contact Patricia Blackwell at (281) 280-6863.

Astronomy seminar: The JSC Astronomy Seminar Club will meet at noon October 25 and November 1 and 8 in Bldg. 31, Rm. 248A. For more information contact Al Jackson at x35037.

October 26

Communicators meet: The Clear Lake Communicators, a Toastmasters International club, meet October 26 and November 2 and 9 at 11:30 at Wyle Laboratories, 1100 Hercules, Suite 305. For more information contact Allen Prescott at (281) 282-3281 or Richard Lehman at (281) 280-6557.

November 2

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

November 3

Chess club meets: The Space City Chess Club meets from 5 p.m. - 9 p.m. at the Clear Lake Park Recreation Bldg. All skill levels are welcome. For more information please call James Mulberry at x39287 or James Termini at x32639.

November 6

Space society 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 Co. Library at 10851 Scarsdale Blvd. For more information contact Murray Clark at (281) 367-2227.

November 7

Quality society meets: The Bay Area Section of the American Society for Quality will meet at 6 p.m. at Franco's Real Italian Restaurant on NASA Road 1. No reservations required. For more information, contact Ann Dorris at x38620.

November 8

MAES meets: The Society of Mexican-American Engineers and Scientists meets at 11:30 a.m. in Bldg. 16, Rm. 111. For more information contact Laurie Carrilo at 281-244-5203.

November 9

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

November 10

Astronomers meet: The JSC Astronomical Society meets at 7:30 p.m. at Space Center Houston. For more information contact Chuck Shaw at x35416.

November 14

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.

IAAP meets: The Clear Lake/NASA Chapter of the International Association of Administrative Professionals meets at 5:30 p.m. in the Colonial Room at Grace Community Church, 14325 Crescent Landing (Hwy 3 and Clear Lake City Blvd.). Cost is \$12.

NPMA meets: The National Property Management Association meets at 11:30 a.m. at the Gilruth Center. For additional information contact Ray Whitaker at (281) 212-6030.

November 15

Scuba club meets: The Lunarfans meets at 7:30 p.m. For more information contact Mike Manering at x32618.

Correction:

An article in the September 22 *Roundup* incorrectly identified STS-92 crewmember Bill McArthur's military service branch. McArthur has been in the US Army for more than 27 years.

GILRUTH CENTER NEWS**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, by cash 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 \$12. Dependents must be between 16 and 23 years old.

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

Nutrition intervention program: This is a free seven-week program designed to provide an understanding of the role diet and nutrition play in health. The program includes a series of lectures and private consultations with a dietitian. You will learn how to use dietary vitamins, minerals and herbal nutraceuticals for optimizing health. Classes are held on Wednesdays from 4 p.m. to 5 p.m. For details call Tammie Labiche, registered dietitian, at (281) 483-2980.

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 \$105. The cost for additional family members is \$58.

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 5:25-6:25 p.m. Tuesdays and Thursdays. Cost is \$40 for eight weeks.

Yoga stretching: 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 \$40 for eight weeks. Call Darrell Matula, instructor, at x38520 for more information.

Ballroom dancing: Classes meet Thursdays from 6:30-7:30 p.m. for beginner, 8:30-9:30 p.m. for intermediate and 7:30-8:30 p.m. for advanced. Cost is \$60 per couple.

Country and western dancing: Beginner class meets 7-8:30 p.m. Mondays. Advanced class (must know basic steps to all dances) meets 8:30-10 p.m. Mondays. 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.

Aikido: Martial arts class for men and women meets 5-6 p.m. Tuesdays and Wednesdays. No special equipment or knowledge is needed to participate. Aikido teaches balance and control to defend against an opponent without using strength or force. Beginning and advanced classes start each month. Cost is \$35 per month.

NASA BRIEFS**NASA SPACE SCIENCE EDUCATION RESOURCE NOW ONLINE**

NASA's Office of Space Science recently announced the release of the Space Science Education Resource Directory, an Internet on-ramp to top-quality educational resources produced by NASA's Space Science Education and Public Outreach programs.

The Web-based directory provides easy access to high-quality, online space science educational resources for teachers and students from kindergarten through high school.

"Sharing the wonders of our universe with educators and the public is the responsibility of every space science endeavor funded by NASA," says Ed Weiler, NASA's associate administrator for space science. "It's our way of investing in the future scientific talent of our nation. The Space Science Education Resource Directory will help teachers bring the exciting new discoveries of space science into their classrooms."

This first release of the directory contains more than 100 electronic resources, including lesson plans, educator guides, student activities, Web sites, and spectacular space science imagery such as auroras, comets, the birthplace of stars, and colliding galaxies. Educators, resource developers, and space scientists have worked together to design a system that is scientifically accurate and easy to use.

"This is a significant effort by the Office of Space Science to ensure that the results from their education programs are widely available," says Frank Owens, director of NASA's Education Division. "We look forward to adapting and integrating this model broader use within NASA's Education Program."

Science educators can locate science lessons and activities for their classrooms by searching by keyword or browsing by subject, grade level, and topics that align with National Science Education Standards.

One middle school teacher who reviewed the directory is impressed with its variety of resources. "Wow, this is terrific! I can find exciting, current, and accurate space science lessons and activities for my students so easily," says Susan Higley, the 1999 Maryland Teacher of the Year from Cherry Hill Middle School in Elkton, Maryland. "It's evident that teachers helped develop this Internet site - I find resources I can use in my classroom!"

The directory will be updated continually with new top-quality resources. Future plans include providing access to printed materials, CD-ROMS, videos, and posters.

To review the directory's collection, visit the Web site at:

<http://teachspacescience.stsci.edu>

NASA, LOCKHEED MARTIN AGREE ON X-33 PLAN

NASA and Lockheed Martin have agreed on a plan to go forward with the X-33 space plane program, to include aluminum fuel tanks for the vehicle's hydrogen fuel, a revised payment schedule and a target launch date in 2003. The launch date is contingent on Lockheed Martin's ability to compete and win additional funding under the Space Launch Initiative. NASA and Lockheed believe it is critical to continue work to solve the last remaining barrier to low-cost, reliable access to space.

The restructured plan focuses on providing milestone payments to Lockheed Martin's industry team for completed testing and delivery of their hardware and software systems this year. Additionally, the plan includes greater emphasis on mission safety and more ground demonstration of critical technology prior to actual flight. These steps are being taken by NASA to ensure quality and mission success. NASA is intent on ensuring that the lessons learned from other programs are taken into consideration in any go-forward planning.

The project requires no additional funding from NASA through March 2001. The project will need additional funding for completion, and Lockheed Martin can compete for those funds through the Space Launch Initiative.

SPACE CENTER Roundup

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