



National Aeronautics and Space Administration

John F. Kennedy Space Center

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URL: <http://ksbulletin.ksc.nasa.gov/>

Deadline for Official/Unofficial notices - Wednesday, 9 a.m.

## OFFICIAL

**KEEP CAPE CANAVERAL SPACEPORT BEAUTIFUL—PLEASE DON'T BE A LITTERBUG!** April is Keep Cape Canaveral Spaceport Beautiful month. Preserve the natural beauty of the Spaceport by disposing of trash in proper receptacles. Do not carry loose trash in the back of your truck, or throw anything from your vehicle. (JP)

**ENVIRONMENTAL & ENERGY AWARENESS WEEK 2002 EXHIBITORS:** Join the list of exhibitors during **Environmental & Energy Awareness Week 2002** held on Tuesday and Wednesday, April 23-24. Archaeological Consultants, Inc; Boeing Energy Office; Boeing Safety, Health, and Environmental Affairs Office; Brevard County Natural Resources Management Office; Brevard County Regional Stormwater Utility Department; Comprehensive Health Services; Dynamac Corporation; Dynacs; Environmental Program Branch; Florida Power and Light Company; Government Services Administration; NASA/Supply, Equipment, Transportation & Center Support Branch; Principal Center for NASA Recycling and Affirmative Procurement; Merritt Island National Wildlife Refuge; NASA/PH-J Ground Systems Division; NUI/City Gas Company; Space Gateway Support/Energy Management Office; Space Gateway Support/Environmental Policy Office; USA Energy Office; and USA Florida Environmental Management. The exhibits will begin at 9:00 a.m. and close at 3:00 p.m. each day. On April 23 you can find the exhibitors out in front of the HQ Building (tent area) and on April 24 we will be at the VAB Area/ Parking Lot E. View the displays, pick up handouts/freebies, interact with specialists, take advantage of some free on-site training courses, visit a Scrub Jay designated area on KSC, check out the alternative fueled vehicles, guess electric bills for KSC and how much did we recycle in 2001, and many more opportunities. Point of contact: Environmental & Energy Awareness Group/TA-C3/867-8413/867-8452. (TA-C3)

**PROPOSED RULE CHANGES FOR REGISTERED PETROLEUM TANK SYSTEMS:** The Florida Department of Environmental Protection is changing the Stationary Storage Tank Rule. Again! For the better! Will you be in compliance under the new regulations? Are there changes, which apply to you? Do you have a FSILLD? Messrs. Doug Divers and Tom Stewart with the Brevard County Natural Resources Management Office will be presenting an overview of 62-761 Rule Changes at the **Environmental & Energy Awareness Week** on April 23 & 24 at 1:15 p.m. If you deal with regulated pollutant storage systems, this one's for you! For more information, call 867-4556 or 867-4735. Point of contact: Environmental & Energy Awareness Group, TA-C3, 867-8413/867-8452. (TA-C3)

**SCRUB JAY TOUR:** This tour is scheduled April 23, during EEAW 2002. The KSC/Refuge area supports one of the largest populations of scrub jays in Florida. During the 45-minute tour you will visit a thriving scrub jay colony, which co-exist in the shadow of the Shuttle. The first 34 employees to sign up at the Welcome Area during the **Environmental & Energy Awareness Week** will be set to take off at 12 noon sharp! You must receive your supervisor's approval before taking this tour. If you have any questions regarding the tour, please contact Shannah Trout, Dynamac, at 867-8443. Come out and show your support during Environmental & Energy Awareness Week! Point of contact: Environmental & Energy Awareness Group, TA-C3, 867-8413/867-8452. (TA-C3)

**ALTERNATIVE FUELED VEHICLES DISPLAYED AT EEAW ON APRIL 23 & 24:** Come and check out the alternative fueled vehicles during the **Environmental & Energy Awareness Week**. The vehicles will be displayed from 9 a.m. to 3 p.m. on the 23rd of April in front of the Headquarters Building and on the 24th at the VAB Area (Parking Lot E). View a 1998 bi-fuel Contour, a 2000 dedicated CNG Honda Civic, and a 2001 E85 Caravan. The bi-fuel Contour is equipped with two separate fuel tanks. One tank runs on compressed natural gas (CNG) and the other runs on unleaded gas. A gaseous fuel indicator (GFI) switch is located on the dash so that the user can select to run the vehicle on CNG or unleaded. If the driver is operating the vehicle on CNG fuel and all the fuel is used, the vehicle will automatically switch over to the unleaded tank. The dedicated CNG Honda Civic runs solely on compressed natural gas, and is listed as a near-zero emission vehicle. It can be driven 200-250 miles on a full tank of fuel. The E-85 Caravan has the capability of running on ethanol and/or unleaded fuel. KSC does not offer ethanol fuel at this time. For more information on Alternative Fueled Vehicles contact Janet Keith, 867-3420 or GSA/Mike Kelley, 867-2439. Point of contact: Environmental & Energy Awareness Group, TA-C3, 867-8413/867-8452. (TA-C3)

**STORMWATER RUNOFF AND THE POLLUTION IT CAUSES IN OUR WATERWAYS:** Danielle Stern, from the Brevard County Regional Stormwater Utility Department, will be speaking during **Environmental & Energy Awareness Week** on Stormwater Runoff and the Pollution It Causes In Our Waterways. Water that drains from land surfaces during or immediately following a rainstorm is called stormwater runoff. Untreated stormwater runoff is now considered the state's leading source of water pollution. The first inch of stormwater runoff is the most polluted because it picks up 90% of the trash, dirt, leaves, chemicals, oils, bacteria, ground up metals and rubber, fertilizers and pesticides from our streets, our homes, our yards, industrial activities and construction sites. Her presentation will provide you with tips that you can follow to help reduce pollution caused by stormwater runoff plus let you know what their department is doing to combat the problem. Point of contact: Environmental & Energy Awareness Group, TA-C3, 867-8413/867-8452. (TA-C3)

**DID YOU EVER WONDER WHO ARE THOSE PEOPLE IN THE PONTOON BOATS AT KSC AND WHAT DO THEY DO?** Did you ever drive across the Banana River and see people in wetsuits crawling around in the water or wonder what are those people in the pontoon boats doing? Well, here is your chance to find out! Since the early 1980's, the Aquatics Program under the LSSC Program has been responsible for long-term monitoring and research programs related to the water resources surrounding KSC. Several aspects of this program will be discussed at the **Environmental & Energy Awareness Week** including information on the long-term seagrass monitoring, manatee aerial surveys, sea turtle nesting, responses to animal strandings and water quality issues. Come check out their presentation! Point of contact: Environmental & Energy Awareness Group, TA-C3, 867-8413/867-8452. (TA-C3)

**WHAT IS A GEOPROBE AND HOW DOES IT WORK?** The geoprobe uses a "direct push" method into the ground without the use of drilling to make a path for the tool. The geoprobe relies on static (vehicle) weight and percussion as the energy for advancement into the earth. It has the ability to collect a soil sample at a depth of about 50 feet for analyses. With tubing it can also obtain groundwater starting at the soil/water interface to any depth down to approximately 50 feet for sampling and analysis. Basically, the plume of contamination can be determined vertically and horizontally without installing monitoring wells. Come out and watch the Geoprobe demonstration during the **Environmental & Energy Awareness Week**, April 23-24. (TA-C3)

**SPILL RESPONSE FOR HYDROCARBONS:** What is Flame Ionization Detection? A flame ionization detector (FID) measures organic compounds by utilizing a flame produced by the combustion of hydrogen and air. When hydrocarbons in the sample are introduced to the detection zone, ions are produced. This current is then amplified and sent to an analog readout device. The majority of spills at the Space Center are hydrocarbon-based fuels. By using the FID, we can determine how much contaminated soil must be removed without waiting for laboratory analyses. Immediate on-site readings are obtained, which is approved by the Florida Department of Environmental Protection. Come out and hear about the Spill Response for Hydrocarbons during the **Environmental & Energy Awareness Week**, April 23-24. Point of contact: Environmental & Energy Awareness Group, TA-C3, 867-8413/867-8452. (TA-C3)

**INDOOR AIR QUALITY AT WORK AND AT HOME:** In today's world, we spend increasing amounts of time in indoor environments and greater concerns about reducing energy costs. These factors may very well result in the potential for individuals to experience adverse health affects caused by sensitivity to any number of allergens. Up to 40% of the U.S. population may experience allergy like symptoms when exposed to biological sources such as molds, pollens, dust mites, and insect parts, and others. The typical way that energy costs are reduced in facilities is to control use of the facility Heating, Ventilation, and Air Conditioning (HVAC) system by turning the systems off when the facility is not occupied. In a hot and humid climate like Florida turning off HVAC systems allows for permeation of the building with humid air from outside. When the system is turned back on, the temperature is lowered and humidity in the air can condensate out onto surfaces and assist in mold growth within the facility. Increased use of cloth and/or synthetic materials in facilities such as carpeting, chairs, cubicle panels, and wall coverings almost assures that the population of dust mites will increase. Dust mites are found everywhere humans are present. These tiny creatures emit very small amounts of volatile organic hydrocarbons (VOC) during normal biological functions. Through time, some individuals will experience increased sensitivity to these VOCs and will start to exhibit allergy like symptoms. Once an individual becomes sensitive to allergens, every time they are exposed, their sensitivities will tend to increase. KSC has a large number of facilities that are greater than 30 years old and the HVAC systems in these facilities are well past their normal life span in a hot and humid climate like Florida. The SGS HVAC Shop works very hard trying to assure these systems are maintained at the highest efficiency possible. It is not known how many people in the U.S. miss work due to illness related to allergies, but, it is likely that lost work time annually is in the millions of man-hours. This results in loss of productivity and efficiency for the affected organization and increased medical cost for the individual and organization. Many of the problems found in the work place are also in the home and personnel can acquire sensitivity to one or more biological allergens. The KSC Indoor Air Quality (IAQ) Working Group is actively working on programs to improve air quality in the work place and familiarization of personnel to the types of problems that need to be looked out for and/or prevented. The IAQ Working Group will have a booth during **Environmental & Energy Awareness Week**, April 23-24, intended on making employees at KSC aware of things they can do to improve air quality both in their work place and their own homes. Come check out their booth! Point of contact: Environmental & Energy Awareness Group, TA-C3, 867-8413/867-8452. (TA-C3)

**MIDDENS, MOUNDS, CANALS AND CASTLES—A LOOK AT KSC BEFORE THE SPACE AGE:** The first people to occupy the KSC area arrived several thousands of years ago. Evidence of their occupation takes many forms, from light scatterings of artifacts found on the ground surface to burial mounds and shell middens marking the locations of the dead and the living. After the last aboriginal populations vanished from the area, early American settlers made their homes where the Indians once lived. Hidden in remote places not far from where man was launched into space, archaeologists have uncovered the sites of homesteads and commercial enterprises, as well as the remains of an old fort and canal. Joan Deming, co-principal and Vice President of Archaeological Consultants, Inc. in Sarasota, Florida will focus on the results of a multi-year archaeological survey of the KSC. After the presentation, join Joan for a hands-on look at some of the "stones and bones" discovered during her investigations. You can hear Joan's presentation during **Environmental & Energy Awareness Week** on April 24 at 10:15 a.m. in the VAB Area/Parking Lot E. Point of contact: Environmental & Energy Awareness Group, TA-C3, 867-8413/867-8452. (TA-C3)

**APRIL HEALTH EDUCATION & WELLNESS PROGRAM—ENVIRONMENTAL HEALTH MONTH:** Environmental Health Month will present information on food safety, indoor air quality, office ergonomics and construction and remodeling. Packets will be available at all medical facilities, upon request to Carol Roth, 867-3414, email **Roth-1, Carol**, and on the Occupational Medicine web-site: <http://sgs/sgs/sites/other/chs/ocmed/index1.htm>. Brown-bag lunch seminars on these subjects, given by Environmental Health specialists, will also be offered to all employees every Friday at 11:30 a.m. in the O&C Mission Briefing Room:

April 12	Indoor Air Quality	
April 19	Office Ergonomics	
April 26	Construction and Remodeling.	(TA-C2)

**APRIL'S CARDIOVASCULAR DISEASE (CVD) SCREENING SCHEDULE:**

Wednesday	April 10	7 a.m. - 8 a.m.	OHF (Occupational Health Facility)
Thursday	April 11	7 a.m. - 8 a.m.	LAC (Launch Area Clinic - MFF) (TA-C2)

**APRIL'S VISION SCREENING:** Visual Acuity Testing:

Tuesday	April 9	11 a.m. - 1 p.m.	OHF (Occupational Health Facility)
Tuesday	April 23	11 a.m. - 1 p.m.	OHF (Occupational Health Facility) (TA-C2)

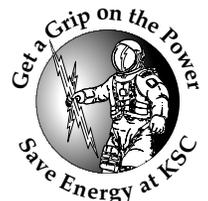
**COLORECTAL CANCER SCREENING:** Small amounts of blood in your stool, which can be detected with hemoccult slides, can be an indication of colorectal cancer. Hemoccult slides and instructions are available at all medical facilities during hours of operation. (TA-C2)

**SCREENING MAMMOGRAMS** for breast cancer are available at KSC, southwest corner of the parking lot behind the Headquarters Building. Call 1-800-367-1870 for an appointment. (TA-C2)

**WORK-SITE LECTURES** on any health subject, requests for health information or counseling are available upon request to Carol Roth, 867-3414, email **Roth-1, Carol**. (TA-C2)

**ENVIRONMENTAL & ENERGY AWARENESS WEEK CELEBRATION:** April 22-24—Mark your calendars for April 22-24 to attend the activities for the Environmental & Energy Awareness Week in celebration of Earth Day! Visit our new website for information regarding CD's invitation to all employees, Opening Ceremony, exhibitors, events, field trips, presentations, demonstrations, training, times and locations, partners, and committee members, <http://environmental.ksc.nasa.gov/eeaw/eeaw2002/index.htm>. Watch for future articles and join in the fun! Point of contact: Environmental & Energy Awareness Group, TA-C3, 867-8413/867-8452. (TA-C3)

**ENVIRONMENTAL & ENERGY AWARENESS WEEK:** Mr. David B. Struhs, Secretary of the Florida Department of Environmental Protection, will be at KSC on April 22 in the Training Auditorium in celebration of **Earth Day**. The **Environmental & Energy Awareness Week** celebration will begin with an Opening/Awards Ceremony in the Training Auditorium on April 22 at 10 a.m. Mr. Struhs will discuss the Governor's Energy Budget Priorities. He was appointed Secretary by Governor Jeb Bush in January 1999 and confirmed by the Florida Senate in March. Mr. Struhs oversees Florida's environmental regulatory and law enforcement programs, the acquisitions and management of public lands, including an extensive system of state parks, and the development and regulation of Florida's water resources through the state's water management districts. Upon his arrival in Florida, Secretary Struhs became chief strategist and advocate for the passage of Governor Jeb Bush's "Florida Forever" Plan—the largest conservation land program in the world. In his first year in Florida, the Florida Junior Chamber of Commerce named Mr. Struhs "**Outstanding Young Environmentalist**." Secretary Struhs takes pride and finds personal pleasure in the 150 parks operated by DEP. Florida's State Parks currently hold the National Park and Recreation Association's Gold Medal, having been voted the best state parks system in America. He has also gained national recognition for Florida's DEP by successfully arguing that the "reasonable assurance" test widely used by environmental regulators as the standard for issuing permits should consider the applicant's record of environmental performance. This common sense consideration represents a significant advancement in executing environmental laws. Please join us in welcoming Secretary David B. Struhs to the Kennedy Space Center. (TA-C3)



**ENERGY 101 TRAINING CLASS:** Energy 101 is being offered during **Environmental & Energy Awareness Week**, open to all KSC, CCAFS, and PAFB employees, sponsored by SGS. The course is a simplified, down to earth discussion of energy at KSC and CCAFS and how it relates to real-life Facility Managers. The course will be held on April 23, from 9:00-9:30 a.m., in the Training Auditorium (M7-351). Kevin Riley, from the SGS Energy Management Office, will be the instructor. Kevin is a graduate from UCF in Orlando with a degree in Mechanical Engineering. He is a licensed Professional Engineer in the State of Florida. Point of contact: Environmental & Energy Awareness Group, TA-C3, 867-8413/867-8452. (TA-C3)

**FACILITY MANAGER'S ORIENTATION CLASS:** The Facility Manager's Orientation will be offered during the **Environmental & Energy Awareness Week**, open to all KSC, CCAFS, and PAFB Facility Managers, sponsored by SGS. The orientation will be a discussion of the responsibilities, expectations, and concerns of all Facility Managers who provide opportunities for improved efficiencies and unity among Spaceport Facility Managers. The course will be held on April 23, from 9:30-10:30 a.m. in the Training Auditorium (M7-351). The facilitators will be Mr. Bill Stoeckel and Mr. Dave Koval. Bill, armed with nearly 20 years experience in the Air Force's civil engineering community joined the Johnson Controls team at CCAFS in March of 1998. After the award of JBOSC, Bill led the combined AF and NASA real property accounting function and took on the task of developing and maintaining the Spaceport Facility Manager Program. Working with the SGS Web Development Team, Bill initiated a web based facility manager database and training program that has grown to what we now know as the Facility Information Center. Bill is the Section Supervisor for SGS Real Property and GIS. Dave Koval started his career at KSC in 1980 and worked in various areas of responsibility, including Logistics, Management, and Engineering. Dave is an Energy Analyst in the SGS Energy Management Office. Point of contact: Environmental & Energy Awareness Group, TA-C3, 867-8413/867-8452. (TA-C3)

**INDOOR AIR QUALITY CLASS:** The Indoor Air Quality class will be offered during the **Environmental & Energy Awareness Week**, open to all KSC, CCAFS, and PAFB employees, sponsored by SGS. The course is designed to provide the information necessary to assess the vulnerability of a building's air quality and develop appropriate policies, procedures, initiatives and engineering controls to protect and improve IAQ in the workplace. The course will be held on April 23, from 10:30-11:30 a.m. in the Training Auditorium (M7-351). Henry Healey, from the SGS Energy Management Office, will be the instructor. Henry is the SGS Energy Management Office Supervisor and is a Professional Engineer with more than 30 years experience in the engineering field focused on Mechanical Environmental Systems, Energy Conservation, and Alternative Energy Applications. Point of contact: Environmental & Energy Awareness Group, TA-C3, 867-8413/867-8452. (TA-C3)

**CALL FOR FEDERAL ENERGY AND WATER MANAGEMENT AWARDS:** The Department of Energy in conjunction with the Federal Interagency Energy Policy Committee is now accepting nominations for the **2002 Awards Program** to recognize significant contributions to the efficient use of energy and water during FY 2001. Awards will be presented to individuals, small groups of 5 or fewer individual members and organizations of 6 or more members for outstanding accomplishments in the following categories: Energy Efficiency/Energy Management; Innovation/Innovative New Technology; Renewable Energy; Alternative Financing Projects; Energy Efficient Mobility; Water Conservation (including beneficial landscaping practices); Effective Program Implementation and Management; and Exceptional Service Award. Guidelines, criteria and nomination forms, can be found on <http://erendev.nrel.gov/femp/prodtech/awards/awardsprog.html>. For projects and initiatives previously submitted for local awards, the Environmental & Energy Awareness Team encourages you to submit to this call. By April 26, please forward nominations to Kathleen Ellis, BA-B, phone 867-2002, fax 867-8135, Headquarters Building, Room 2506A with a carbon copy to TA-C3, Barbara Naylor. Kathleen will integrate all inputs and forward to the Center Director for his approval prior to submitting to NASA Headquarters/Code JE. FEMP is also looking for projects to be featured on the yearly October Energy Awareness Month poster. If you are submitting a project for the above award call and would like it considered for the poster, please tell Kathleen so she can inform Code JE. Good Luck! Point of contact: Environmental & Energy Awareness Team, TA-C3, 867-8413/867-8452. (TA-C3)

**CANCER SUPPORT GROUP:** SGS/CHS offers a Cancer Support Group for KSC/CCAFS personnel who wish to participate. The group convenes every Thursday at 11 a.m. for approximately 45 minutes in the Occupational Health Facility, Building M6-495 Library. The group is intended for those undergoing treatment, those in remission, survivors and caregivers. Bring your lunch and join in for this informative support group. Please email Nancy Zuhlke at [nancy.zuhlke-1@kmail.ksc.nasa.gov](mailto:nancy.zuhlke-1@kmail.ksc.nasa.gov) or call her at 867-2025 for more information. (TA-C2)

**NUTRITION TIP OF THE WEEK FROM THE KSC FITNESS CENTERS: Quick Tips for Healthful Eating.** Here are a few quick tips for eating healthy—obtained from a survey of registered dietitians...

1. **Be Mindful:** Healthy eating doesn't just happen—you have to plan for it. Make a conscious effort to go to the grocery store once a week so you keep healthy food in the house. Keep healthy snacking items easily available for when you are hungry.
2. **Put Produce Front & Center:** Restructure your meal planning around vegetables and/or fruit, and then plan for your meat or starch. This way, you will be sure to include produce in your meals, and it will be the variety/kind that you like.
3. **Cook:** This advice may be painful to your ears, but it is the best way to control what and how much you are eating. Invest in some "healthy and quick" cookbooks for recipe ideas, prepare things ahead of time (like on weekends), and make healthy versions of things you really enjoy. A side benefit of this is that your spending for lunch will decrease drastically!

More tips to follow next week.... Source: Tufts University Health & Nutrition Letter. Contact: Katie Simmons, [simmoks@kscems.ksc.nasa.gov](mailto:simmoks@kscems.ksc.nasa.gov). (TA-C2)

**KSC FITNESS CENTER INTRODUCES MASSAGE THERAPY!** Do you need to relieve some stress, but don't feel like working out? Are your muscles sore? Do you need to relax and feel a sense of well-being? If you answered yes to one or more of these questions then you could benefit from **Massage Therapy**. The KSC Fitness Centers are providing licensed massage therapists here at KSC!

STARTS: Monday, March 4  
COST: \$1/minute  
WHEN: Mondays, Wednesdays, and Fridays from 12:30 a.m. - 3:00 p.m.  
WHERE: O&C Fitness Center Group Exercise Room

To schedule an appointment for:

Mondays, contact Jeff Chiapperino at 749-6075.  
Wednesdays, contact Valerie Jaramillo at 543-1047.  
Fridays, contact Stacie Gioia at 453-4482.



**KSC Recycles**

(TA-C2)

**OCCUPATIONAL MEDICINE PATIENT SERVICES PROGRAMS:** All employees are reminded that nonoccupational-related information obtained from medical treatments, physical examinations, Health Education Program screenings, and mental, emotional, and substance abuse counseling through the Employee Assistance Program is PRIVATE, STRICTLY CONFIDENTIAL, AND SUBJECT TO THE PRIVACY ACT. (TA-C2)

**EMPLOYEE ASSISTANCE PROGRAM:** All employees are reminded that the Employee Assistance Program offers free, confidential counseling to all Kennedy Space Center and Cape Canaveral Air Force Station employees. Appointments are necessary to ensure adequate time. This program is available Monday through Friday, 7:30 a.m. to 4:00 p.m. Appointments may be made by calling 867-7398. (TA-C2)

**PHOTOGRAPHIC AND VIDEOGRAPHIC SUPPORT:** Request for photographic and/or videographic support may be obtained by calling the Aerospace Imaging customer service desk at 867-4308 located in KSC Headquarters Building, Room 2340. Support is also available at the Cape, in Building 1605, at the pickup/drop-off service desk and can be obtained by calling 853-5765. For more information on the wide range of services available visit website: [www.Aerospaceimaging.com](http://www.Aerospaceimaging.com). (PZ-J-C)

**KSC LIBRARY:** The following documents are available for loan from the KSC Library Documents, Specifications and Standards Department, HQ, Room 1124, or by calling 867-3613.

ASAP-ANNUAL-REPORT-2001: Aerospace Safety Advisory Panel Annual Report for 2001  
NASA-CR-211249: Characterization of Subsystems for a WB-003 Single Stage Shuttle  
NASA-CR-211428: Health Monitoring for Airframe Structural Characterization  
NASA-SP-4227: Uplink-Downlink: A History of the Deep Space Network, 1957-1997  
NASA-TM-211200: International Space Station Increment-2 Quick Look Report  
NASA-TM-211215: NASA's Hall Thruster Program  
NASA-TM-211292: Solid Hydrogen Experiments for Atomic Propellants  
NASA-TM-211308: The ISS Fluids and Combustion Facility: Microgravity Combustion Science and Fluid Physics Research Capability  
NASA-TM-211311: MISSE PEACE Polymers: An International Space Station Environmental Exposure Experiment  
NASA-TM-211313: Electric Propulsion for International Space Station Reboost: A Fresh Look  
NASA-TM-211317: Enhancement of Pool Boiling Heat Transfer and Control of Bubble Motion in Microgravity Using Electric Fields (BCOEL)  
NASA-TM-211337: Simulated Space Vacuum Ultraviolet (VUV) Exposure Testing for Polymer Films  
NASA-TM-211346: A Sensitive Technique Using Atomic Force Microscopy to Measure the Low Earth Orbit Atomic Oxygen Erosion of Polymers  
NASA-TM-211546: Artificial Aging Effects on Cryogenic Fracture Toughness of the Main Structural Alloy for the Supper Lightweight Tank  
NASA-TM-211547: Cryogenic Fracture Toughness Improvement for the Super Lightweight Tank's Main Structural Alloy  
NASA-TM-211548: Time-Temperature-Precipitation Behavior in Al-Li Alloy 2195

To search the Library's on-line catalog go to: <http://nasagalaxie.larc.nasa.gov/>. For questions call 867-3613 or <mailto:KSCLibrary@jbsoc.ksc.nasa.gov>. (TA-E1)

**KSC LIBRARY:** The following new books are available for loan from the KSC Library. If you need information, please call 867-3600 or visit the Library in HQ, Room 1301.

Deployable Structures: Analysis and Design, #548039  
Disaster & Recovery Planning: A Guide for Facility Managers, #547791  
Florida Firsts: The Famous, Infamous, and Quirky of the Sunshine State, #548021  
Laser Safety Guide, #547742  
Mechanical Properties of Work Materials, #547759  
Mission Jupiter, #547650  
Six Not-So-Easy Pieces, #547627  
Sputnik, #547668  
Towards Mars, #547684  
Unbroken Chain, #547643  
Understanding Survivor Benefits, #547601, #547619  
Uplink-Downlink: A History of the Deep Space Network 1957-1997, #548013  
Working in Orbit and Beyond: The Challenges for Space Medicine (V. 72), #547973, #547981

To search the Library's on-line catalog go to: <http://nasagalaxie.larc.nasa.gov/>. For questions, call 867-3600 or <mailto:KSCLibrary@jbsoc.ksc.nasa.gov>. (TA-E1)



SECURITY AMBULANCE FIRE  
911 7-7911 1-7911

**INSPECTOR GENERAL:** The Office of Criminal Investigations (OCI) is the investigative arm of the NASA Inspector General (IG). The OCI is an independent entity and reports directly to Roberta Gross, the NASA IG, in Washington D.C. The primary mission of this component is to conduct criminal and civil investigations of reported or suspected fraudulent acts by employees, contractors, and others relating to the administration of NASA contracts and programs. Although emphasis is placed on major procurement fraud, (particularly allegations of defective/substandard parts, mischarging, kickbacks, bid rigging, and research fraud), investigations are also conducted of theft, conflict of interest, environmental and hazardous waste violations, health care fraud, and computer related crimes. OCI also provides fraud briefings for Government and contractor employees that are designed to highlight potential risks concerning fraud and related matters. Suspected violations can be reported by calling 867-4714 locally, the toll free Hotline at 1-800-424-9183, or by writing NASA Inspector General, P. O. Box 23089, L'Enfant Plaza Station, Washington, D.C. 20024. The OIG Cyber-Hotline can be accessed at [www.hq.nasa.gov/office/oig/hq](http://www.hq.nasa.gov/office/oig/hq). (OIG)

**CONFIDENTIAL FINANCIAL DISCLOSURE REPORT (OGE FORM) FILING:** Those individuals reporting to a position for which there is a requirement for an initial and annual 450 filing are reminded the INITIAL filing must be completed no later than 30 days after reporting to that position. Forms are available from the Office of Chief Counsel by calling 867-2552. (CC)

**FEDERAL EMPLOYEE HEALTH BENEFITS FOR MILITARY RETIREES:** CHAMPUS coverage for military retirees is automatically transferred from CHAMPUS to Medicare coverage upon attaining the Medicare eligibility, at age 65. Employees have 31 days from the date of loss of CHAMPUS to enroll in a Federal Employees Health Benefit (FEHB) plan. Military retirees who are thinking about retiring from civilian service before reaching Medicare eligibility are reminded: to have FEHB coverage as retiree, an employee must be enrolled at the time of retirement; to insure coverage, they should enroll in an FEHB plan that takes effect before the retirement date elected. To keep FEHB after retirement, employees must be enrolled for at least 5 years; and coverage under CHAMPUS counts towards eligibility to carry FEHB into retirement. Questions regarding health benefits should be referred to Sharon Lowry (867-9178), or Kathy McIntosh (867-2405), Benefits Team, Personnel Office, Headquarters Building, Room 2507. (BA-B)

**EMPLOYEES PLANNING FOR RETIREMENT:** To make tentative annuity computations, verify creditable service, and process an application for retirement, employees considering retirement should assure that all military and civilian service has been properly documented in their personnel records. Although dates of military service may have been previously recorded and verified, these dates should be reverified so there will be no delay in the receipt of annuity checks. Employees who have had active military service should submit to Sharon Lowry, Retirement Counselor, Personnel Office Benefits Team (BA-B), copies of their military discharge papers, DD 214, or other documents showing the beginning and ending dates of active service. Employees who do not ensure that all active duty military service is properly documented may experience a delay in the receipt of full annuity payments from OPM upon retirement from civil service. Contact Sharon Lowry, 867-9178, Headquarters, Room 2515. (BA-B)

**AUTHENTICATED:**



Time  
Change

Marilee Tewksbury, Center Services (TA-E1)

AT WORK OR PLAY, FIRE PREVENTION MAKES FOR HAPPY DAYS.



Time  
Change

U N O F F I C I A L

CAFETERIA MENU FOR WEEK OF APRIL 8 THROUGH APRIL 12

**\*MONDAY**

Navy Bean Soup  
Beef & Broccoli Stir Fry  
o/Steamed Rice  
\*\*Open Faced Turkey  
w/Dressing, Vegetable  
& 16 oz. Beverage,  
\$3.50

**\*TUESDAY**

Sausage & Chicken  
Chowder  
Breaded Pork Chop  
w/Spiced Apples  
\*\*Salisbury Steak w/  
Gravy, One Starch,  
One Vegetable & 16  
oz. Beverage, \$3.50

**\*WEDNESDAY**

Cream of Broccoli Soup  
Shepherd's Pie  
\*\*Fried Chicken Quarter,  
One Starch, Vegetable  
of the Day & 16 oz.  
Beverage, \$3.50

**\*THURSDAY**

Chicken Taco Soup  
Cajun Eye of Round  
w/Roasted Potatoes  
\*\*Chicken Pot Pie w/a  
Biscuit Topping, White  
Rice, Vegetable of the  
Day and 16 oz.  
Beverage, \$3.50

**\*FRIDAY**

Louisiana Seafood Gumbo  
New England Boiled  
Dinner  
\*\*Fried Catfish w/2  
Hushpuppies, French  
Fries, Vegetable of the  
Day & 16 oz. Beverage,  
\$3.50

\*Assorted vegetables, salads, desserts, and beverages available daily. \*\*Blue Plate Special. Lighter By Choice Grilled Chicken and Vegetable Burgers are available daily. Soup available daily—bowl, \$1.20/cup \$0.65. Each day a "Price Value Meal" or "Grill Price Value" is available and will be posted in each cafeteria. **La Pomadora:** A variety of Pizza, Stromboli, Calzone or Pasta is available daily.

**NASA EXCHANGE:** Hoping the Easter Bunny brought you everything you wanted this year. If not, come on in our stores and browse the aisles for the new merchandise that's arriving daily. We have crystal picture frames, vases, figurines, and much more. You better hurry before they're all gone, just like March!

**KSC EXCHANGE SERVICE STATION:** Lube, oil and filter—just \$19.95. This includes up to 5 quarts of oil, check fluids, tire and tire pressure, belts, hoses, alternator and battery, and a visual safety check. Call us at 453-1254 for an appointment or more information.

**KSC EXCHANGE—CITGO GAS STATION:** Pay at the pump is open 24 hours, 7 days a week, for gas and diesel. CITGO and all major credit cards accepted. For information, call 453-1254.

**KENNEDY SPACE CENTER FEDERAL CREDIT UNION REPOS:** Repos located at the Merritt Island office. 1993 Toyota Camry, \$3,495; 1994 Olds Bravada, \$6,000; 1999 Plymouth Neon, \$5,800; 1997 Olds Aurora, \$12,575; 1995 Ford Mustang, 5-speed, \$5,400; 1996 GMC Jimmy, \$10,475; 1994 Chevy S10, \$5,660; 1996 Mazda 626, \$5,000; 1995 Ford Explorer, \$7,800; 2001 Honda Civic EX, \$16,150; 1994 Lincoln Towncar, \$7,600; 1996 Chrysler LHS, \$8,050; 1997 Dodge Stratus, \$6,000; 1993 Nissan 240 SX, \$4,400; 1995 Dodge Dakota, 4x4, \$7,525; 1996 Pontiac Grand Am, \$4,100; 1992 Ford Explorer, \$4,650; 1997 Ford Expedition XLT, \$11,000; 1997 Nissan Quest, \$12,500; 1993 Cadillac Seville, \$9,975; 1996 Mitsubishi Galant, \$7,150; 1998 Dodge Neon, \$6,575; 1998 Dodge Grand Caravan, \$13,150; 1998 Oldsmobile 88, \$10,400, call 455-9400, extension 1123. 1997 Sebring convertible, \$9,800, call 386-761-9752.

**INTERNATIONAL ASSOCIATION OF ADMINISTRATIVE PROFESSIONALS:** Central Brevard Chapter will host their annual Administrative Professionals Day Luncheon Tuesday, April 23, 2002 at the DoubleTree Hotel in Cocoa Beach to celebrate the 50th anniversary of this annual event. Administrative support personnel of all levels are invited to attend. Executives are encouraged to attend as well. Cost is \$20 per person and includes entree, beverage, dessert and program. There will also be door prizes and giveaways. The speaker will be Ida Wright, CPS. Mrs. Wright's topic is **The 50th anniversary: The Top of the Mountain**, a brief review of how far we have come in the last 50 years (a view from the top of the mountain) - and where we are headed in the next 50 years. For reservations and information contact luncheon chairperson, Betsy French CAP at 867-1432 or [Betsy.B.French@jbosc.ksc.nasa.gov](mailto:Betsy.B.French@jbosc.ksc.nasa.gov). The Central Brevard Chapter of IAAP meets the 4th Wednesday of each month at 5:30 p.m. at the offices of the Canaveral Port Authority in Port Canaveral.

**LOGISTICS SCHOLARSHIP:** The Space Coast Chapter of the International Society of Logistic Engineers is offering a \$2000 Scholarship towards a degree at Brevard Community College. For more information and an application, contact Jan Hall at 861-5287, or Nancy Barker at BCC 449-5046.

**KSC BARRACUDAS SCUBA DIVING CLUB:** The KSC Barracudas Scuba Diving Club is happy to announce the following scuba diving opportunities for the employees of KSC and their families. **Cozumel Mexico**, July 6 through July 13, 2002. Package price is \$1218 per person, double occupancy, and includes lodging at the Plaza Las Glorias Hotel, 5 days of scuba diving, airport to hotel transfers, roundtrip airfare from Orlando. Please contact Beth Shaffer at 453-6522 or [bbshaffr@aol.com](mailto:bbshaffr@aol.com). Cut off date for reservations is March 31. **Bonaire, Netherlands Antilles** in the Southern Caribbean Sea, September 28 through October 5, 2002. Package price is \$1050 per person, double occupancy, and includes lodging at Buddy Dive Resort, 6 days of scuba diving, one rental car per condo unit, full breakfast, airport to hotel transfers, roundtrip airfare from Miami. Please contact Max Farley at 452-1435 or [maxfarley@earthlink.net](mailto:maxfarley@earthlink.net).

**VOLUNTEERS NEEDED—COAST GUARD AUXILIARY:** The Coast Guard Auxiliary is looking for volunteers to assist the Coast Guard with vessel safety checks for boaters. Contact Ronald Sperry at 867-3222 for more information.

**CAMP KSC—DAY CAMP FOR KIDS:** Enroll your children ages 8-14 in a day camp that lets them explore space like an astronaut. Campers will launch their own rockets, ride a multi-axis trainer, meet an astronaut, tour restricted areas and much more. Summer sessions weekly June 3 to July 29. \$260 tuition includes all programs, meals, T-shirt and supplies for five days of fun. All KSC, CCAFS and PAFB employees receive a 10% discount. Call KSC Visitor Complex at 449-4444 to register.

**VIEWS FROM HUBBLE:** KSCVC welcomes the **Smithsonian's Hubble Space Telescope** exhibit, which highlights images from the telescope and features 15 interactive activities. Exhibit runs through April, 2002.

**BARRY UNIVERSITY:** Barry University is currently registering for the Spring 2002 term which begins on April 8. Courses being offered lead to bachelor degrees in Information Technology (specializations in Information Systems, Webmaster and Software Development), Administration, Human Resources and Behavioral Sciences. Students can also earn up to 30 credits from work experience towards their degree. Classes are conveniently held at the schools two Brevard locations in Merritt Island and Melbourne as well as BCC in Palm Bay. For additional information or to set up an appointment with an advisor call 453-6253 or email [lggrant@mail.barry.edu](mailto:lggrant@mail.barry.edu) today!

**EMBRY-RIDDLE SPACE COAST CENTER:** We are taking applications for the next cluster of the Master of Science in Technical Management degree program tentatively scheduled to begin August 2002. The next regular term for graduate and undergraduate degree programs begins March 18. The next scheduled regular term after the March term will begin May 27. Find out more about our schedules and programs at our new web site: <http://www.erau.edu/spacecoast> or contact us at 783-5020.

**FLORIDA INSTITUTE OF TECHNOLOGY:** Florida Tech offers a variety of master's degree programs at our Spaceport site, e.g. Master of Science in: Software Engineering, Computer Information Systems, Computer Science, Space Systems, Management, Engineering Management, Acquisition and Contract Management. Evening classes are held at Kennedy Space Center and Patrick Air Force Base. Distance Learning courses are also offered. Applications are being accepted for the summer semester, which begins the week of April 30. For a catalog listing all degrees and a schedule of summer courses, please call 453-2030 or 784-2045.

**FLORIDA INSTITUTE OF TECHNOLOGY:** Beginning this summer at Spaceport, Florida Tech's School of Management will be offering the Master of Business Administration degree, and the MBA with a concentration in Acquisition and Contract Management. Other degrees offered at Spaceport are the Master of Science in: Computer Science, Computer Information Systems, Software Engineering, Space Systems and Space Systems Management. Evening classes are held at the Kennedy Space Center and Patrick Air Force Base. Applications are being accepted for the summer semester. Registration begins March 25, and classes begin the week of April 29. Call 453-2030 or 784-2045 for additional information. For information regarding the MBA, email Sharon Stites at [sstites@fit.edu](mailto:ssstites@fit.edu). For all other degrees, email Carolyn Henninger at [chenning@fit.edu](mailto:chenning@fit.edu).

**HERZING COLLEGE:** Offering MCSE Windows 2000 Courses both "Fast Track" Accelerated (Diploma in Network Management-MCSE) courses and academically. The Associate of Science Degree in Network Technology includes courses in Microsoft (MCSE) Windows 2000, Cisco, Novell, A+ Computer Hardware, and Networks +. Herzing College also offers a Diploma Program in Web-site Design which includes Program Logic, JavaScript, Dreamweaver, HTML, Photoshop, Flash, and Fireworks; and an Associate of Science Degree in Computer Information Systems which includes Visual Basic, C++, Database Design and SQL, e-Commerce, and web class electives. Contact information: 255-9232, [team@mel.herzing.edu](mailto:team@mel.herzing.edu) or [www.herzing.edu](http://www.herzing.edu).

**FLORIDA SPACE INSTITUTE SPRING SCHEDULE IS AVAILABLE:** The Florida Space Institute is offering courses in Systems Control, Communication Theory, Launch Processing, Microprocessor Technology, Space Science & Technology, Electricity & Electronics, Physics of the Earth's Space Environment, and Laser Beam Propagation Through Random Media, and Topics in Astrodynamics. Classes are live and on-site at KSC. The Industrial Engineering Management degree program is also starting, so register ASAP. For more information contact Bob Petty or Carol Cox at the FSI Academic Office at 452-9834.

**FLORIDA SPACE INSTITUTE & BREVARD COMMUNITY COLLEGE:** Need to freshen up your Math? Preparing for the GED? The Florida Space Institute and the Brevard Community College is having a Math Refresher course on April 9, 2002, at the Center for Space Education room ESI-B, from 4:40 to 7:30 p.m. Runs for 12 weeks. For more information pertaining to this course please contact Nancy Barker 449-5046, [barkern@brevardcc.edu](mailto:barkern@brevardcc.edu), Carol or Bob at FSI 452-9834, [fsiccas@mail.ucf.edu](mailto:fsiccas@mail.ucf.edu).

**GRADUATE MATH REVIEW:** The University of Central Florida and Brevard Community College are jointly offering a Mathematics Refresher course for students interested in pursuing the GRE. The course takes students from Algebra through to Differential Equations. The course will be available on Tuesday nights from 4 p.m. to 7 p.m. at KSC. For more information please contact Bob Petty or Carol Cox at 452-9834.

**UNIVERSITY OF CENTRAL FLORIDA:** The University of Central Florida FEEDS (Florida Engineering Educational Delivery System) program is located at the Kennedy Space Center Visitor's complex at the Center for Space Education. FEEDS offers engineering undergraduate and graduate courses via tapes for those who cannot make regular on campus classes but would like to get their degree. We are open 24 hours a day for the convenience of the students. For more information about the FEEDS program please contact Carol Cox, UCF/FSI Assistant 452-9904; [ccox@mail.ucf.edu](mailto:ccox@mail.ucf.edu).

**UNIVERSITY OF CENTRAL FLORIDA:** The UCF Engineering Management program is offering Engineers an opportunity to pursue technology commercialization through entrepreneurship. This has been a very resourceful program for engineers and managers around the country. It features practical insights, tools, success strategies, business plans and actions that can be applied to any stage of an entrepreneurial or intrapreneurial venture from initial idea to funding, growth and profitability. For more information on how to succeed please contact Carmo D'Cruz or Carol Cox, University of Central Florida at KSC, 452-9904.

**UNIVERSITY OF FLORIDA:** The University of Florida is accepting applications for the next offering of the Outreach Engineering Management (OEM) master's degree program, which begins in August 2002. The OEM program awards an engineering master's degree following 20 months of live instruction, and is a collaboration between UF's Colleges of Engineering and Business. Classes meet only one weekend per month. For more information or to request an application packet, visit the OEM website (<http://www.ise.ufl.edu/oemp>) or contact the OEM program office (1-800-321-0199, [engrman@ise.ufl.edu](mailto:engrman@ise.ufl.edu)).

**UNIVERSITY OF MIAMI:** Bringing the University to you. Earn a prestigious Master's Degree in Management of Technology (MSMOT). Applications are currently being accepted for our next program beginning late Spring 2002. Courses are held Friday evenings and Saturdays to accommodate working professionals. For more information and to receive an application/brochure, please call Mr. Augusto Roca, Program Administrator, at 1-305-284-4100 or send email to [augusto@miami.edu](mailto:augusto@miami.edu).

**WEBSTER UNIVERSITY:** Webster University needs instructors for our M. S. in Computer Science program. M.S.C.S. degree required as well as prior college teaching experience, please submit your resume to: Webster University, 150 North Sykes Creek Parkway, Suite 200, Merritt Island, FL 32953, 449-4500.

## PERSONAL

### CARPOOLS

Vanpool seats: Daytona/Ormond Beach/Port Orange to VAB/OFF/PAD's Areas, 6:30/7:00-3:30, Tom, 867-4529/386-409-3923.  
Vanpool seats: Daytona/Port Orange/New Smyrna to OPF/VAB/LCC Areas, 6:30/7:00-3:30, Steve, 861-5085/386-756-9344.  
Vanpool seats: Melbourne/Palm Bay to LC-39 Area, depart from WalMart at Sarno Road & Wickham Road, 7:00-3:30, Cambria, 861-7875.  
Vanpool seats: Melbourne Beach/Indialantic/IHB/Merritt Island to CCAS/Industrial Area/VAB LC-39, 7:00-3:30, Smith, 861-6334/773-2197.  
Vanpool seats: Melbourne Beach/Indialantic/IHB/CB/Cape Canaveral to CCAS/KSC Industrial Area/VAB, 7:15-3:45, Goodrich, 867-6956/725-7383.  
Vanpool seats: Melbourne to LC-39 Area, seats available, 11 passenger van, Galbraith, 861-4780/259-3138.  
Vanpool seats: Melbourne/Eau Gallie to CCAFS/KSC Industrial Areas, 7:30-4:00, Don, 867-4634.  
Vanpool seats: Palm Bay/Melbourne to LC-39, 7:00 to 3:30, riders needed, Barney, 861-4405/724-1403.  
Vanpool seats: Palm Bay/Eau Gallie/Suntree to ARF/VAB/Wiltech Areas, 7:00-3:45, Adam, 867-9853/259-4138.  
Vanpool seats: Palm Bay/Melbourne/Eau Gallie to KSC Industrial Area, 7:00 - 3:45, Ivory, 867-7987/984-4316.  
Vanpool seats: Palm Bay/Melbourne to KSC Industrial Area, 7:30-4:00, Ed, 867-4500/676-2533.  
Vanpool seats: Palm Bay/Eau Gallie (Eau Gallie Blvd.)/Suntree (Baymont Inn) to KSC Industrial Area, 8:00-4:30, Ed, 867-0829/984-3861.  
Vanpool seats: Palm Bay/Suntree to LC-39/OPF/Logistics/OSB/PCC, 7:00-3:30, Mark, 861-0991/725-6677.  
Vanpool seats: Palm Bay/Eau Gallie/Suntree to USBI/OSB/LCC/VAB/OPF Areas, 7:00-3:45, Dan, 861-2486/952-8840.  
Vanpool seats: Pickup at Goldenrod & University & Kmart on East Colonial to KSC Industrial Area, 7:30-4:00, Cricket, 867-3705/407-381-0748.  
Vanpool seats: E. Orlando/Sam's/Wal-Mart/Bithlo to LC-39 Areas/OSB/Complexes/PCC/OPF Areas, 7:00-3:30, Buddy, 867-3794/657-4941.  
Vanpool seats: Orlando/Dean Road/Alafaya Trail/419 to KSC Industrial Area, Browning, 867-7963/407-277-8997.  
Vanpool seats: Orlando/Conway Area/Union Park/Alafaya Trail to KSC North via. Contractors Road, Schaefer, 861-5640/407-273-3048.  
Vanpool seats: Orlando/University/Goldenrod/KMart/East Hwy. 50 to KSC Industrial Area, 8:00-4:30, Goff, 867-3020/407-644-0384.  
Vanpool seats: Orlando/Conway/Union Park/Bithlo to VAB, USBI, OSB & Wiltech Areas, 7:00-3:45, Fishell, 861-2470/407-859-4009.  
Vanpool seats: Orlando Fashion Square/Hwy. 50/Sam's Club to O&C/HQ/CIF/LC-39 & Logistics Areas, Al, 867-4457/894-3068.  
Vanpool seats: W. Orlando (Hiwassee/Metro West) & E. Orlando (Hwy. 50/Lake Pickett) to KSC Industrial Area, 7:00-3:50, Greg, 867-1542/407-295-7894.  
Vanpool seats: Orlando/West 50 & Hiwassee/Alafaya & 50 to CCAS Industrial Area/CX36, Higgs, 853-8353/407-880-7410.  
Vanpool seats: E. Colonial at Alafaya/419 Park & Ride to LC-39 Areas & ARF, 7:00-3:30, Brinko, 861-4986/407-971-0122.  
Vanpool seats: E. Colonial to HQ/O&C/SSPF Areas, 8:00-4:30, Au-Mai, 867-2697/381-0183.  
Vanpool seats: W. Colonial/Kirkman Road/Dean Road/Bithlow Park & Ride to LC-39 Areas, 7:00-3:30, Hall, 861-5355/422-3681.  
Vanpool seats: Oviedo/Publix (Hwy. 419/Lockwood Blvd.) Hwy. 419 South thru Christmas to Hwy. 50 to KSC Industrial Area, 8:00-4:30, Randall, 867-5656.  
Vanpool seats: Titusville/Mims/Scotsmoor to O&C/CCAFS Industrial Area 7:00 to 3:30, Leon, 853-5231/383-1116.  
Carpool: Deland Area to KSC Industrial Area, 2<sup>nd</sup> Shift, Monday through Friday Murray, 867-7963/904-736-8580.  
Carpool: Deltona/Sanford/Oviedo to VAC/OSB Areas, 7:00-3:45, non-smoker, 4-door, Chris, 861-2255/407-321-8461.  
Carpool: Orlando/University/Goldenrod to HQ & CIF Areas, flex-time, Marv, 867-3780/407-647-0874.  
Carpool: Oviedo/Winter Springs to KSC Industrial Area, 7:00-4:30, non-smoker, Patrick, 867-3400/407-359-3145.  
Carpool: Oviedo/Winter Springs to KSC Industrial Area, flexible hours, Patrick, 867-3400/407-359-3145.  
Carpool: Will share my car, or yours, & expenses to & from KSC HQ Building & Palm Bay, flexible hours, Odom, 724-4674.  
Carpool: Looking for a Carpool? So am I! Palm Bay/Melbourne, 7:00-3:30, Chuck, 861-5549/722-9084.  
Ride needed/form carpool: Cocoa Beach/Cape Canaveral to KSC Industrial Area, non-smoker, 7:30-4:00, flexible, 867-7138/799-0316, evenings.

### CARPOOLS (Continued)

Ride needed/form carpool: Daytona Beach to SSPF, non-smoker, 8:00-4:30, Ray, 867-0789.  
Ride needed/form carpool: DeLand/Daytona Beach/New Smyrna Beach to OPF area, flexible hours, Larry, 861-8305/386-738-1821, evenings.  
Ride needed/form carpool: Flagler Beach/Daytona to CCAS Industrial Area, 7:00-3:30, Bruce, 853-4066/904-439-9964.  
Ride needed/form carpool: Lake Washington/Turtle Mound to CCAFS, Delta IV Area, 7:00-3:30, non-smoker, Tschannen, 730-5601/242-8646.  
Ride needed/form carpool: Orlando to KSC Industrial Area, non-smoker, 9:00-5:30, Lewis, 867-2548/407-282-2908.  
Ride needed/form carpool: West Orlando/Hunter's Creek Area by 417 to HQ Area, non-smoker, flexible hours, Nicole, 867-9566/407-856-6385.  
Ride needed/form carpool: West Orlando/Hiawassee/Metro West to ARF, non-smoker, 4-10's, 6:00-4:30, flexible hours, Van, 861-8113/407-297-6636.  
Ride needed/form carpool: Titusville, U.S. 1 to Patrick AFB, AFTAC Area, Shawn, 867-3073/259-6679.  
Ride needed/form carpool: S. Titusville to CCAS Industrial Area, non-smoker, 7:00-3:30, Williams, 853-2592/268-2974.  
Join existing carpool: South Rockledge to KSC Industrial Area, non-smoking, 7:00-3:30, Robert, 867-1801/633-3091.  
Ride needed: Cocoa, U.S. 1 and 528 (High Point), to HQ Building, Janet, 867-9888/632-4158.  
Ride needed: Merritt Island at N. Banana River Blvd. to CCAFS/E&O Building, will pay for gas, Roop, 476-3677/453-0429.  
Ride needed: Ormond Beach/Daytona to O&C/SSPF/HQ Areas, 7:30/8:00-4:30, Rob, 867-4293/636-6465.  
Ride needed: Satellite Beach at S. Patrick or A1A & DeSota Blvd. to UCF Orlando campus, non-smoker, M-W-F, morning to afternoon, Lisa, 777-5419.  
Ride needed: Suntree (Lake Point area), to Hanger R & D, 7:00/3:30, Monday-Friday, Hartman, 476-3831/242-7357.  
Ride needed: S. Titusville at Barna & Hwy. 50 to KSC Industrial Area, non-smoker, 7:00-3:30, Nancy, 867-2260/269-2695.  
Ride needed: Titusville at South Park Avenue & Barna Avenue to KSC Visitor's Complex, 9:00-5:00, Mukherjee, 452-4301/264-1865.  
Ride needed: Titusville, S.Barna (1/2 mi. from 405) to Landing Site Support Complex, non-smoker, 7:00-3:30, will pay gas, Dana 861-3106/267-9793.  
Ride needed: New Smyrna to KSC, 8:00-4:00, Bob, 867-4009/386-423-4201.  
Ride needed: New Smyrna Beach to KSC, Frederick, daytime 867-4009/evenings 386-423-4201.

### GARAGE SALE

Moving Sale: April 6, 8-2, Cocoa Beach, 324 Harding Avenue, (north of Pier), furniture, household, etc., Moreland, 868-0657.  
Garage sale: April 6, 8-1:30, Titusville, 3430 Owls Wood Way, women's & children's clothing, sleeper sofa, dining room table w/chairs, toys, tools, 268-3721.

### REAL ESTATE FOR SALE

House: N. Merritt Island, 3-B/R, 2-bath, custom, waterfront, screened pool, beautiful landscaping, fruit trees, extras, no dues, \$198,200, St.Jean, 459-1090.  
House: Merritt Island, 3-B/R, 2-bath, waterfront pool home, in excellent neighborhood, 3 minutes from beeline, \$176,900, Tutterrow, 453-8155.  
House: North Titusville, 3-B/R, 2-bath, screened pool, \$92,000, Holbrook, 269-0885.  
Townhouse: Titusville, 2-B/R, 2 1/2-bath, 1 car garage, new A/C, \$54,000, Ron, 267-0165.  
Townhouse: Titusville, 2-B/R, 2 1/2-bath, garage, Raymond, 268-4284.  
Townhouse: Titusville, 3-B/R, 2-bath, vaulted ceiling, screened porch, utility room, new A/C 2000, near schools, \$59,500, 264-1298.  
Condo: 2-B/R, 2-bath, prime waterfront, all new appliances/electrical/plumbing/interior, 2<sup>nd</sup> floor, \$90,000, 635-8210.

### AUTOMOBILES & RV'S FOR SALE

1979 Shasta 21' mini motorhome, dual AC, 4 kW generator, new tires, good shape, road ready, \$5500/B.O., Jones, 259-9760.  
1980 Jeep CJ7, A/T, top & tires 1 year old, teal blue paint, low miles, many new parts, adult owned, \$5000/B.O., McAleenan, 385-0002.  
1984 CJ7, 350 Chevy, 030 bored, flat top pistons, RV cam, Edelbrock carb. & manifold, new radiator/more, Thornbird tires, paint 1 year old, 631-4130.  
1985 Toyota Celica ST, 5-speed, 155,000 miles, runs good, new radiator, good tires, needs brakes & body work, \$500, Carlos, 268-5050.  
1987 Chevy pickup, 4wd, A/T, recent paint, \$4500/B.O., Coe, 268-5956.  
1991 Honda Accord EX, 153,000 miles, electric everything, black w/tan interior, \$3100, Ranow, 639-4917.  
1991 Chevy Silverado 2500 extra cab, 350, A/T, \$6500, Glen, 633-3293.  
1992 Mitsubishi Galant, A/T, new paint & tires, R134A/C, new computer, P/W, PDL, needs transmission work, \$1500/B.O., Weber, 254-4453.  
1993 Nomad travel trailer, model 3030, deluxe, 30', self-contained, \$7500, Ron, 267-0165.  
1994 Dodge Ram 1500, SLT, V8, bedliner, utility box, clean, \$4800/B.O., Carlos, 433-0206.  
1994 Honda Accord LX, 4-door, 5-speed, A/C, rims, timing belt, tinted glass, 150,000 miles, \$2900, Livermore, 453-4089.  
1994 Nissan Sentra, cold A/C, good condition, runs good, \$1500/B.O., Hesketh, 452-4302.  
1995 Ford Bronco, 5.8L, V8, A/T, 4wd, C/C, power everything, \$10,500/B.O., Scott, 795-9700.  
1995 Pontiac Transport, leather, versatile seating arrangements, auto door w/remote, well maintained, 635-8815.  
1996 Chevrolet Corsica 4-door sedan, 4-cyl., 2.2 liter, A/T, A/C, P/S, P/W, PDL, AM/FM/cassette, antilock brakes, 27,000 miles, \$4900/B.O., 254-7627.  
1996 Coachman travel trailer, 24', front kitchen, awning, A/C, full bath, loaded, power hitch, like new, \$8500/firm, Johnson, 453-5287.  
1996 Coleman popup camper, brand new roof, 2 king beds, A/C, 2 stoves, canopy, excellent condition, \$4500/B.O., Grimm, 268-8497.  
1997 Mustang GT, convertible, bra, only 34,000 miles, excellent condition, garage kept, \$12,800, Don, 795-5027.  
1997 Dodge Ram 1500 pickup, extended cab, V8, 4wd, power, custom wheels/tires & \$2100 stereo, toolbox, tow pkg., exc. cond., \$16,900/B.O., 403-3022.  
1998 Chrysler Sebring convertible, A/T, A/C, 45,000 miles, excellent condition, new brakes/tires, white w/tan top & interior, \$11,500, St. Jean, 459-1090.  
1998 Dodge Ram, extended cab, 4x4, loaded, \$16,900/B.O., Abbott, 268-2776.  
1999 Chrysler 300M, 36,800 miles, 1 owner, non-smoker, garaged 24x7, silver, tan leather, AM/FM/CD/Cass, beautiful, \$18,565, Moreland, 868-0657.  
1999 Chevy Corvette coupe, mint condition, silver w/black leather interior, A/T, Bose CD/stereo, 39,700 miles, \$29,950, Johnson, 799-4997.

### HOUSEHOLD FURNISHINGS FOR SALE

Corner armoire for up to 27" TV, 41"x24"x68"h, corner out 29", pine, honey spice finish, 4 doors, 4 shelves, \$200, McBee, 453-6004.  
Wood bedroom set, king waveless waterbed, 6-drawer pedestal, dresser w/mirror, chest, good condition, \$400, Don, 639-9005.  
Dining table, tinted glass top, seats 4, black, \$200, Carlos, 433-0206.  
Dining room set, black/gold lighted china cabinet, oval glass topped table w/4 chairs, beautiful, \$600/B.O., Porta, 385-0919.  
Ethan Allen trestle table w/5 captain's chairs, requires some refinishing, \$200, Cook, 453-7022.  
New queen mattress, excellent condition, \$75, Kent, 639-4532.  
Solid oak rocking chair, \$60; 52" ceiling fan w/light kit, \$40; telescope, \$25, Nancy, 433-2836.  
Victorian rose tapestry loveseat & recliner, perfect condition, new, \$700/firm, Hudson, 433-2243.  
Little Tykes blue toddler race car bed w/mattress, good condition, \$55, Becky, 799-9848.  
Full bed mattresses w/frame, new, \$150, Williams, 453-1951.  
Sectional sofa, 4-piece, tan, heavy duty material, \$300, Bob, 632-5451.  
New dual recliner leather couch, \$1000; 2 glass end tables & coffee table, \$50/all; black pedestal wall entertainment center w/glass doors, \$50, 784-0552.  
Beautiful large desk & cushioned chair, solid wood, 6 months old, excellent for studying for finals or hobbies, \$200, Moreland, 868-0657.  
Couch w/ chair, \$150; recliner chair, \$50; dresser w/ mirror, \$50, Bill, 264-0762.  
Bunkbed by Playset w/ladder & slide, blue & white Formica, very strong & durable, very good condition, \$300, Rudig, 453-3065.  
Clawfoot bathtub, Elizabethian Classics cast iron slipper, brand new, paid \$1500, asking \$750, Oleen, 631-9667.  
Twin bed set, \$45; triple dresser w/mirror, \$40, \$50, Bernhardt, 634-6875.  
Double electric bed, paid \$2200, B.O.; twin captain's bed, paid \$450/B.O., Abbott, 268-2776.  
Entertainment center, light honey oak, fits 35 TV, \$450, Hamm, 255-0177.  
Oak rolltop computer desk, keyboard pullout, printer drawer, lock/keys, lots of storage, excellent condition, \$350/B.O., Weiss, 454-3079.  
Chromcraft dinette, 40" round table, leaf, almond/oak trim, 4 coaster chairs, \$500; 4 matching 24" bar stools, \$500, all \$900, 452-8082 after 5 p.m.  
Etagere, large, brass, 6 glass shelves, excellent condition, \$125; roll-a-way folding single bed w/mattress, steel tubular frame & wheels, 690-0083.  
Loveseat, (floral pattern), mauve & green, 2 matching ottomans, brand new, \$600; leather sofa, hunter green, like new, \$200, Jones, 268-1787.  
Medium oak hutch, excellent condition, \$350; La-Z-Boy reclining loveseat, blue, 3 years old, excellent condition, \$350, Becker, 453-7490, after 4 p.m.  
6-drawer oak dresser w/mirror, nightstand, very good condition, \$300, Derbyshire, 453-6795.  
Patio cushions, 1 chaise, 7 chairs, green/rose floral, like new, \$75; brass chandelier, good condition, \$35, Burnett, 632-1796.  
Stanley 4-drawer desk w/chair, 18" w x 44" l x 30" h, oak & Formica, \$100; framed print by Carl Valente, double mat w/reg. glass, \$100, Woods, 868-3498.  
Secretary desk, drop leaf w/keyhole storage & drawers, 3 larger drawers underneath, solid wood, very old, \$85/B.O., Patrosky, 453-8898.



#### APPLIANCES FOR SALE

1965 bronze gas stove, range hood, sink, faucets, dark cabinets & light laminate countertops, DIY removal, \$100/all, Platt, 267-8809.  
Maytag washer, working condition, need to get rid of it, free to who needs it, must move yourself, Erving, 268-3531.  
Whirlpool upright freezer, 15 cu. ft., frost free, 2 years old, excellent condition, \$195/B.O., Quisenberry, 777-6734.  
Kenmore 25 cu. ft. refrigerator, white, like new, \$300, Nancy, 433-2836.  
Dehumidifier, Frigidaire, 30 pint capacity, used 4 months in VA, \$70, Mike, 259-7847.  
Kenmore electric range, \$40, Bernhardt, 634-6875.  
Whirlpool electric range, \$100/B.O., Laura, 452-3576.  
Washer & dryer, \$100/both, Abbott, 268-2776.  
Lady Kenmore Ultra Care washing machine, white w/woodgrain top, good condition, \$150/B.O., Snider, 383-0890.  
Frigidaire side-by-side refrigerator/freezer, 26 cu. ft., great shape, \$175/firm, Karen/Jeff, 639-3999.

#### MOTORCYCLES & EQUIPMENT FOR SALE

1996 Suzuki Katana 600, teal, very low mileage, new tires & plugs, \$2800/firm, Carraway, 591-1915.  
1998 Honda Valkyrie Tourer, black/chrome, custom driver & passenger seats, backrest, luggage rack, spot lights, 16,000 miles, 1 owner, \$8500, 768-2757.  
1999 Yamaha Bear Tracker, \$2400/B.O., Abbott, 268-2776.  
Honda ATC70, new tires & gas tank, runs good, \$800/B.O., Scott, 795-9700.

#### BOATS & EQUIPMENT FOR SALE

8' Baur sailing, rowing, power dinghy, 1997, crisp sail, aluminum mast, poly rudder & board, great shape, \$1000, Tubridy, 784-6977.  
13' semi-V bottom, chair platform, trolling motor, 25 h.p. motor, electric start, runs good, \$1800, John, 267-7344.  
14' river kayak, fiberglass, lightweight w/paddle, no boot, \$350/B.O., Mark, 268-3273.  
14' V-hull aluminum boat, 1993, 15 h.p. Johnson motor, galvanized trailer, all accessories, \$1250/B.O., Syverson, 264-4429.  
17' Grumman aluminum canoe w/paddles, 2 seat cushions, \$125; 1968 9.9 h.p. Mercury outboard w/separate 1 gallon tank, runs, \$70, Peplow, 449-0263.  
18' Robalo, 1996 w/2000, 150 h.p., Optimax w/ warranty, dual axle trailer, excellent condition, \$16,000, 698-7626.  
26' Pearson sailboat, 1973, 9.9 h.p. Mercury 4-stroke, dinghy, 3 sails w/new main, solar, head, sink, lots of extras, ready to sail, \$8000, Thomas, 504-0766.

Achilles GT-11 inflatable boat, 20 h.p. Mercury, aluminum bottom, oars, lots of extras, very good condition, asking \$1500/B.O., Oleen, 631-9667.  
Marine 2 burner stove w/oven, Shipmate LPG by Primus, all stainless steel, good condition, \$350, Tom, 784-3178.  
Fuel tank for outboard motor, \$45, Phillips, 639-1659.  
New bimini top, fabric blue, aluminum frame, 70" width, 4' length, for 16' CC, McKee Craft, \$50/firm, 453-9690.  
Graphite Biscayne Bay push pole 22', excellent condition, \$225/B.O., Greg, 268-1702.  
225 h.p. Johnson outboard, 25", stainless steel prop, controls, gauges, harness, complete rigging, excellent condition, \$1800/B.O., Dave, 639-7452.  
Swivel pedestal for boat seat, 6-bolt floor mount, 13", like new, \$20, Turner, 868-1895.

#### MUSICAL INSTRUMENTS & ELECTRONIC EQUIPMENT FOR SALE

Kawai GB-4 Session trainer (band in a box) w/5 ROM & 1 RAM cards, foot controls, carrying bag, \$400/firm, Bill, 269-2701, after 4 p.m.  
150 watt precision amp, \$125; 2 10" woofers, in box, \$75; Sony equalizer, \$50, Gorenflo, 459-2818.  
Computer & accessories, \$50/B.O.; 2 telephones w/message recorder, \$7; mobile, \$5, Dick, 269-4129.  
Black, 1995 Gibson Les Paul guitar, great condition, original owner, \$675, Joe, 637-1337.  
Maganavox stereo w/5 CD player, \$50, Voight, 784-0552.  
Palm Pilot, IIx, like new, w/leather case, keyboard w/case, many extras, \$125, Muzzy, 636-1563.  
Pioneer DEH-P5200 car CD player w/AM/FM stereo, paid appx. \$300, asking \$125, Peplow, 449-0263.  
12 cup automatic coffee maker w/2 hour shutoff, perfect for office, \$10, Talley, 544-1575.  
Electro Voice full range PA speakers, 15" drivers w/horns, excellent condition, \$450, Tom, 784-3178.  
Sony 10 disc CD changer for car, excellent condition, \$150, Lewis, 631-6387.

#### MISCELLANEOUS

Boys small bike, red, w/training wheels, \$10, Grace, 494-7906.  
Treadmill, LX25, \$145; auto kitty maid, \$35, Gorenflo, 459-2818.  
Baby quilts, wide variety of home made, quilted & embroidered, \$15-\$20, Donnelly, 631-3419.  
Hammock, 2 person, never used, well made, \$60, McGowan, 454-9826.  
2 dog kennels, metal, collapsible, \$25/each; chandelier deco lamps, \$10; double traverse rods, extra long, \$15, Dick, 269-4129.  
Medela Pump & Style breast pump, backpack style, 1 year old, \$150/firm, Hills, 868-6831.  
Coleman generator, 12 h.p., 5000/6500 watts w/wheel kit, I/C Briggs & Stratton engine, like new, \$500, 631-3132, before 2 p.m.  
John Deere GT275 tractor, 38" mower deck w/bags & spare parts, \$1000; Echo PE2400 w/edger & hedger attachments, \$200, Chris, 383-0933.  
10 hole aluminum Mustang wheels w/tires, 15x7, \$100/B.O., Charvet, 383-2435.  
Makita 10" power miter saw, model 2400, old, a little beat up, but works, \$100/B.O., 636-2336.  
Four 7x15" Chevy/GMC wheels, beauty rings & hub covers w/P235/75 R15 tires, \$50; 52" ceiling fan w/light kit, \$40; telescope, \$25, 433-2836.  
Bedliner for full sized pickup, 8' bed \$25, Cortez, 632-0041.  
Diaper Genie, brand new, never used, \$20, Killian, 459-2946.  
Delta 4" jointer, extra knives, \$50; 14" bandsaw, 3/4 h.p., uses 93 1/2" blade, \$150, Gates, 407-366-3547.  
Screen doors, complete, ready to install, 2 total, \$25/each, Welch, 267-4848.  
Golf Clubs: Snake Eye's, PalJoey & Peerless iron sets, many metal woods & putters, Mike, 632-7950, after 2 p.m.  
CH-Products, Pro-Pedals rudder/car foot pedals, gameport interface, not for use with twist-handle joystick, \$15, Davis, 454-9250.  
Milwaukee heavy duty right angle drill & sander/grinder, \$150/\$75; Rally 17 CRT 5 .p. rototiller, \$300, Crocker, 720-9355.  
Little Tikes toddler picnic table, \$15; Little Tikes toddler slide, \$15, Debi, 383-4156.  
Wesco electronic treadmill, programmable training modes, \$200; Weider multi-station weight machine, \$225; recumbent exercise bike, \$200, 768-2757.  
Entry doors, (2) solid carved wood, matched units w/hardware, 1 has repairable lock style damage, \$75, Phillips, 639-1659.  
9N Ford tractor, rough condition, motor turns, rear tires & fenders good, \$500, Pack, 454-4660.  
Maroon camper shell, sliding side & front windows, fiberglass, fits 6' bed, \$200, Lenart, 609-4465.  
Lawn riding mower, 6 years old, 42" cut, looks good, not running, starter running free, \$200, Don, cell 795-5027, or 504-0265.  
White pleated shades, 18" & 52" widths, \$7 & \$15; Plantation shutter, 2" (new), 37" w x 52" h, \$30, Bates, 267-0966.  
Orlimar 6" driver stiff graphite, new, \$75, TopFlite 16" intimidator 3 wood stiff graphite, new, \$55, Mike, 783-9569.  
MTD riding lawnmower, 14 h.p., 42" cut, new battery, good condition, \$350, Madore, 632-6969.  
Hunting bow case, new, \$50, Bernhardt, 634-6875.  
Water cooler, 5 gallon water bottle style, paper cup holder, keeps water/ice cold \$50; girl's pink 2-speed bicycle, neon, very good cond., \$10, Rich, 690-0083.  
Girl's pink 2-speed bicycle, neon colors, white tires, very good condition, \$10, Rich, 60-0083.  
Camaro 2<sup>nd</sup> generation parts: right fender, \$40; 3-piece spoiler, \$50; alloy wheels, 15"x8", \$125, all \$175, Rich, 690-0083.  
Sundancer electric mobility scooter for the disabled, [www.pridemobility.com](http://www.pridemobility.com) for specs, cost \$2400, like new, \$1000, Matlack 725-3785 evenings.  
FlexDex aluminum scooter, new, in box, pictures available, \$20, Chris, 867-0589.  
Tires, 4 Bridgestone Dueler 30x9.50x15R15LT, \$125, St. Jean, 459-1090.  
Weider exercise machine, cable operated, \$120/B.O., Chris, 264-6392.  
Weights & bench, \$50/B.O., Downing, 783-7093.  
Michelin tires, 4 new, MXV4+ 205/65 R15, on Honda steel alloy wheels, \$400, Burnett, 632-1796.  
Factory Honda 6x15 steel rims, off of 2001 Honda CRV, excellent condition, \$95, Patronsky, 453-8898.



MISCELLANEOUS WANTED

Small pickup truck, 1970 or newer, drivable for transportation, around \$600. Conner, 269-5514.  
Water skis & accessories; bimini top; 14" 5 lug boat trailer spare tire; bilge pump, 783-4818.  
Child's playground swing set w/plastic slides, etc., reasonably priced, Greg, 459-2818.  
6' folding tables (for displaying floral arrangements at craft shows), condition does not matter, Betty, 631-1924.  
Large hardwood chest of drawers, Perry, 268-2530.  
MacIntosh monitor, 14" or 17", Shoemaker, 639-4941.  
Double/full size softside waterbed, good condition, good price, Carrie, 383-2352.  
B-flat Wood Clarinet w/good padding, great condition, Clarinet music books also needed, Smith, 433-2253.  
Swimming pool ladder for 4' above ground pool; stockade fencing; futon, good condition, reasonably priced, Lee, 268-1691.  
All purpose or event saddle, 16", reasonably priced, Morgan, 455-6393.

FOR SALE OR TRADE

Aquacultured live coral for saltwater reef tank, many great beginner corals, sale or trade, Greg, 268-1702.  
1994 Yamaha V-Max, excellent condition, \$5000/trade up/down for full size 4x4 king cab pickup, Griffin, 269-1616.

