

# universe

Jet Propulsion Laboratory

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## Antennas spared damage in Australia fire

By Guy Webster

Canberra blaze comes close to DSN facility

*Smoke billows near an antenna at the Canberra, Australia, Deep Space Network facility.*



**A**ustralian antennas of NASA's Deep Space Network used for communicating with spacecraft are back in normal operation after a close call with wildfires that destroyed hundreds of homes and took four lives in the Canberra area.

Brush fires surrounded the network's Canberra complex on Saturday, Jan 18. Workers used hoses to douse spot fires on the site Saturday and were still extinguishing flare-ups on Monday, Jan 20.

"A group of staff performed magnificently,

successfully ensuring that no fires took hold at the site," said Peter Churchill, director of the Canberra antenna complex. "They also assisted the local fire service in their efforts to protect homes and farm infrastructure in the Tidbinbilla Valley."

The Canberra dish antennas were inactive for about three and one-half hours on Jan 18 so workers could concentrate on the fire. During that period, the complex had been scheduled to be in communication with five spacecraft on interplanetary missions or in Earth orbit, but none of the missed transmissions was critical or irreplaceable, said Joseph Wackley, Deep Space Network operations manager at JPL.

Strong winds spread the fires across expanses of drought-parched vegetation. One entrance to the Canberra complex has been closed because of a burned-out bridge, Churchill said. An outlying support structure—a tower, used in calibrations of the antennas—was damaged by the fires. The site's visitor center is temporarily closed. The fire destroyed another important astronomical resource in the area, the Mount Stromlo observatory of Australian National University.

The antenna site has its own backup electrical generators and water supply. The facility is sharing hot meals and water with area residents who have temporarily lost power and water to their homes.

"We are expecting further adverse weather conditions during the week and continue to prepare ourselves for fire duties as required," Churchill said.

Besides the Canberra complex, the Deep Space Network also has antenna clusters in Spain and near Barstow, Calif.

**HANCOCK COUNTY, Miss.**—Since coming to work for NASA in 1995, engineer Karen Vander has seen the basis for the One NASA ideals at work every day.

As the executive secretary for the Rocket Propulsion Test Management Board, NASA's decision-making body for the agency's rocket propulsion testing, Vander provides the daily coordination of the board composed of NASA staff members from White Sands Test Facility, Las Cruces, N.M.; Marshall Space Flight Center, Huntsville, Ala.; Glenn Research Center - Plum Brook Station, Sandusky, Ohio; and Stennis Space Center, Hancock County, Miss., Vander believes the team approach used by the the board is an example of what can work for the whole agency.

"The management board is the One NASA concept," she said. "The board works openly in an atmosphere of trust. Everyone has a say, but the goal is to find the best match of assets for propulsion test programs."

NASA Administrator Sean O'Keefe introduced the One NASA concept in December 2002 by asking employees to help shape the effort through their thoughts and ideas. One NASA will require each employee to consider all decisions within the context of what is best for the agency rather than for any one organization.

"Mr. O'Keefe's support will help the agency achieve the One NASA goal," said Vander. "With his leadership and his knowledge of federal administration, there's no limit to what we can accomplish."

Although Vander sees One NASA ideals at work daily, she says the initiative can be fully realized only through hard work and cooperation. "We're doing it now," said Vander. "We just have to strengthen what we have. We have to continue to find ways to do our jobs better. We have to work as a team."

Part of achieving the One NASA goals will mean overcoming old-fashioned, center-centric ideas. "Even though we sit in different states or come from different places, we're still one organization, and we should work that way," said Vander. "What center we come from should be nearly invisible. We all need to be working toward a common goal to meet NASA's mission."

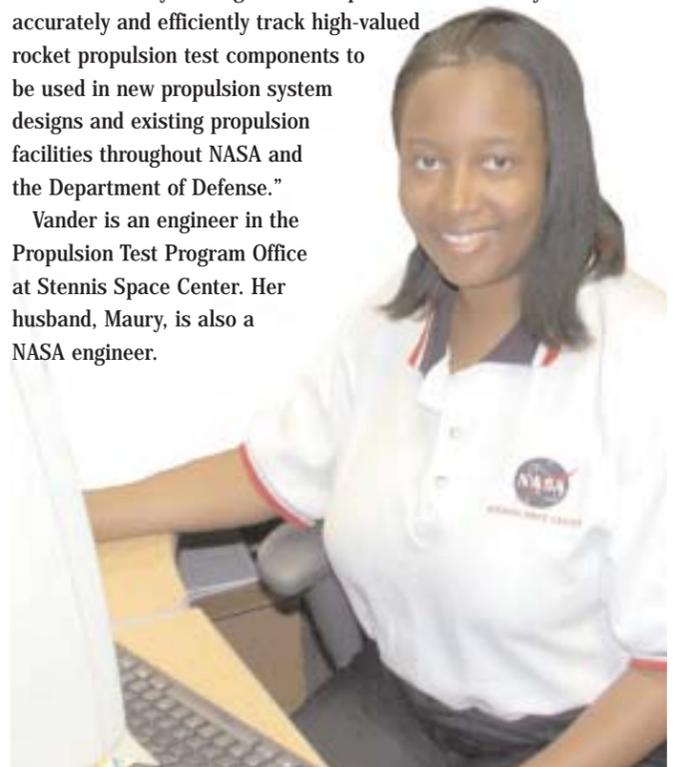
The NASA community can help further One NASA, said Vander,

by being flexible. "We're going through a lot of changes now. But as long as the communication lines keep flowing, that's going to help."

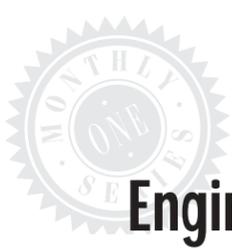
As One NASA ideals improve inter-agency cooperation, Vander noted, the practice will also benefit the agency in its interactions with other federal organizations. "We're building relationships," Vander said. "We have to build on our commonalities to strengthen the agency."

"Karen has risen to meet every challenge we have put in front of her," said NASA's Mike Dawson, assistant director, Stennis Space Center, who has seen Vander put the One NASA values to work to benefit NASA and its relationships with other federal agencies. "She is currently leading the development efforts of a system to accurately and efficiently track high-valued rocket propulsion test components to be used in new propulsion system designs and existing propulsion facilities throughout NASA and the Department of Defense."

Vander is an engineer in the Propulsion Test Program Office at Stennis Space Center. Her husband, Maury, is also a NASA engineer.



Karen Vander of NASA's Stennis Space Center.



## Engineer sees bright future for One NASA

This article is the first in a monthly series that describes how NASA centers are realizing the One NASA goal.

# News Briefs

## Security clearances reduced

Security and Protective Services Manager JOE CHARLES has announced that beginning in January Security began a Department of Defense-mandated reduction of security clearances held by JPL personnel. This reduction is in conjunction with a nationwide requirement by the department to reduce security clearance levels at all cleared facilities.

The Department of Defense's mandate specifies that personnel with a "compelling need" or a critical "need-to-know" may retain security clearances. The department describes "compelling need" as anyone with a clearance who is working with classified information or material, receiving or disseminating classified information, being involved with or in an operation or project impacting national security.

The National Industrial Security Program defines "need-to-know" as a determination made by the possessor of classified information that a prospective recipient has a requirement for access to knowledge of, or possession of, the classified information to perform tasks or services essential to the fulfillment of a classified contract or program. Project managers furnish Security with the specific need to be associated with a project.

The Defense Security Service has directed JPL to reduce its clearances by 25% to 50%. This ratio is based on the number of current clearances and the number of classified visits. At present, the Lab's outgoing visit requests indicate only about 25% of the persons holding clearances are using them. Incoming classified visits are only about 5% at the present time.

Security will contact the persons affected and ensure their supervisors provide Security with the information necessary to process a new clearance or a renewal.

JPL Security only clears JPL employees. Each contracting company that is cleared through the Defense Security Service has the same requirement as JPL. In order to do business with the Lab as a contractor, the company must have the necessary paperwork issued by the Defense Security Service.

## Lab to host small-business conference

JPL will host the 15th annual High-Tech Conference for Small Business on March 4 and 5 at the Westin Los Angeles Airport Hotel.

The conference will focus on subcontracting and marketing opportunities for small, minority, women-owned and veteran-owned businesses in high-tech industries. It includes several "how-to" workshops featuring information on major programs, small-business initiatives and other topics.

Attendees will have the opportunity to interface with approximately 250 corporate, federal, state and city government representatives to discuss potential contracting and subcontracting opportunities. One-on-one counseling to discuss potential business opportunities is available with more than 100 exhibitors. There is no fee to exhibit. Due to space limitations, exhibitors are limited to prime contractors and government agencies.

For further details, e-mail ARTHUR DURAN or call ext. 4-7531.

## Discovery video receives awards

"Unlocking the Mysteries," a video overview of NASA's Discovery Program and the 10 ground-breaking science missions selected to date, has won two honors in The Communicator Awards 2002 Video Competition.

The video, written and produced by SHARI ASPLUND of JPL's Discovery Program Office (101) in collaboration with RICHARD L. GOLDBERG at the Johns Hopkins University Applied Physics Laboratory, won a Crystal Award of Excellence in the Government category and an Award of Distinction for writing in the Creative category.

The 23-minute production looks back at the program on its 10-year anniversary and highlights the achievements of missions such as Mars Pathfinder and Near Earth Asteroid Rendezvous that are enhancing our understanding of the solar system. The video was also a finalist in the New York Festivals International Film and Video awards competition in the Sciences category.



## Lab honors Dr. King

JPL celebrated the birth of civil rights leader Dr. Martin Luther King Jr. the week of Jan. 20. To the left are guest speakers Dr. Julian Earls (left), deputy director of NASA's Glenn Research Center, and Dr. Percy Clark, superintendent of the Pasadena Unified School District. A panel discussion with seven JPL African American Ph.D.s was also offered.

# Special Events Calendar

## Ongoing Support Groups

**Alcoholics Anonymous**—Meetings are available. Call the Employee Assistance Program at ext. 4-3680 for time and location.

**Caregivers Support Group**—Meets the first Thursday of the month at noon in Building 167-111 (The Wellness Place). For more information, call the Employee Assistance Program at ext. 4-3680.

**Codependents Anonymous**—Meeting at noon every Wednesday. Call Occupational Health Services at ext. 4-3319.

**Gay, Lesbian and Bisexual Group**—Meets the first Friday and third Thursday of the month at noon in Building 111-117. Call the Employee Assistance Program at ext. 4-3680 or Randy Herrera at ext. 3-0664.

**Working Parents Support Group**—Meets the third Thursday of the month at noon in Building 167-111 (The Wellness Place). For more information, call the Employee Assistance Program at ext. 4-3680.

## Saturday, February 1

**"A New Kind of Science"**—Stephen Wolfram, creator of Mathematica and chief executive of Wolfram Research Inc., will describe ideas and discoveries from his new book, their implications for various fields of science, and their personal and historical context. To be held at 1 p.m. at Caltech's Beckman Auditorium. A panel discussion and question-and-answer session will follow. Admission is free. For more information, call (626) 395-4652.

## Sunday, February 2

**Chamber Music**—The Calder Quartet will give a free concert at 3:30 p.m. in Caltech's Dabney Lounge. For more information, call (626) 395-4652.

## Monday, February 3

**"A Conversation With David Baltimore"**—Join the Caltech president in a live interview with Larry Mantle, host of KPCC's AirTalk, at 4:45 p.m. in von Kármán Auditorium. Some questions from the audience will be taken, but you are encouraged to submit questions in advance so Mantle can make the discussion as relevant to the Caltech community as possible. Send questions to [cma.announce@jpl.nasa.gov](mailto:cma.announce@jpl.nasa.gov). This event is sponsored by the Caltech Management Association. For more information, call Michael Eastwood, ext. 4-9273.



Dr. David Baltimore

## Tuesday, February 4

**JPL Gamers Club**—Meeting at noon in Building 301-227.

**JPL Genealogy Club**—Meeting at noon in Building 301-271.

**What's the Color of Funny?**—Aaron McGruder, creator of the Boondocks comic strip, will give a talk at 8 p.m. in Caltech's Beckman Auditorium. Free admission. For more information, call (626) 395-4652.

## Tues.-Wed., Feb. 4-5

**Investment Advice**—TIAA/CREF representatives will be available for one-on-one counseling. For an appointment, call (877) 209-3140, ext. 2614, or visit <http://www.tiaacref.com>.

## Wednesday, February 5

**Associated Retirees of JPL/Caltech**—Meeting at 10 a.m. at the Caltech Credit Union, 528 Foothill Blvd., La Cañada.

## Thursday, February 6

**JPL Gun Club**—Meeting at noon in Building 183-328.

## Friday, February 7

**"An Evening with Tommy Lasorda"**—The Dodgers' senior vice president and ex-manager will be honored at Caltech's in Beckman Auditorium at 8 p.m. Guests include former Dodgers owner Peter O'Malley; Buzzie Bavasi, the general manager who hired Lasorda into the Dodgers organization; Sparky Anderson, Baseball Hall of Fame manager; and former USC baseball coach Rod Dedeaux. The event is free, open to the public, and no tickets or reservations are required. For more information, call (626) 395-4652.

## Saturday, February 8

**Princely Players**—With song and poetry from the earliest sources of African American music in this country to the civil war and the civil rights movement, this eight-member ensemble performs a program of spirituals, work songs, hymns and songs of freedom. They will appear at 8 p.m. in Caltech's Beckman Auditorium. Tickets are \$22, \$18 and \$14 for adults, \$10 for high school age and younger. For more information, call (626) 395-4652.

## Tuesday, February 11

**Caltech Credit Union Annual Meeting**—To be held at 5 p.m. in Caltech's Beckman Auditorium.

**JPL Stamp Club**—Meeting at noon in Building 183-328.

**Meet John Doe**—This 1941 classic, part of Caltech's Frank Capra Film Festival, will be shown at 7:30 p.m. in Beckman Auditorium. A panel discussion will follow the screening. Free admission. Call (626) 395-4652.

**"Understanding the Genome: How Close are We to a Star Trek Medical Diagnosis?"**—Dr. Bruce Shapiro of JPL's Machine Learning Systems Group will speak at noon in the Building 167 conference room.

## Wednesday, February 12

**"The Chauvet Cave Now: the Oldest Rock Art Site in the World"**—Rock art expert Dr. Jean Clottes will deliver this lecture at 8 p.m. in Caltech's Beckman Auditorium. Tickets are \$10. For more information, call (626) 395-4652.

**JPL Amateur Radio Club**—Meeting at noon in Building 238-543.

**JPL Toastmasters Club**—Meeting at 5 p.m. in conference room 167. For more information, call Roger Carlson, ext. 4-2295.

## Thursday, February 13

**"Getting Started"**—This workshop is for employees just starting or not yet participating in JPL's tax-deferred accounts. Debt management, investment basics, advantages of tax-deferred savings and compounding, and the benefits of starting early will be discussed. To be held from 8:30 to 10:30 a.m. in conference room 167.

**Investment Advice**—A Fidelity representative will be available for one-on-one counseling. For an appointment, call (800) 642-7131.

## This month in aeronautics and astronautics history

**1.11.43 60 years ago** • Franklin Delano Roosevelt became the first U.S. President to fly while in office.

**1.31.58 45 years ago** • Explorer 1 lifted off, the first satellite ever launched by the United States. JPL designed, built and operated the satellite that would serve as the rocket's payload.

**1.7.68 35 years ago** • JPL's Surveyor 7 moon lander was launched.

**1.25.78 25 years ago** • The JPL-managed Infrared Astronomical Satellite was launched.

**1.28.86 17 years ago** • Space Shuttle Challenger exploded shortly after liftoff, killing the entire crew of seven. A faulty o-ring was blamed for the disaster.

**1.6.98 5 years ago** • NASA's Lunar Prospector satellite was launched to an orbit of the moon. Ames Research Center managed the project.



## For the record: American Geophysical Union honor

An article in the News Briefs section of the Jan. 17 issue of Universe contained incorrect information about JPL's Dr. Gilles Peltzer winning the American Geophysical Union's William Bowie Medal.

In fact, Peltzer was not awarded the Bowie Medal, but did deliver the Bowie Lecture at the organization's fall meeting last December.

For more information, log on to <http://www.agu.org/webcast/archive.html>.

# THE BIG FIVE-O

Two JPL employees recently commemorated half a century at JPL. Universe talked with Carl Sauer and Jay Bondi, about their careers, retirement, and how life, and the Lab have changed over the last 50 years. Bondi retired from the Lab in December, but Sauer continues in his job as a Trajectory Specialist in Advanced Studies.



Carl Sauer, left, and Jay Bondi

BY SUSAN BRAUNHEIM-KALOGERAKOS

**What compelled you to stay at JPL so long?**

**C S** It has been a combination of a few things. I think the main reason I have stayed so long is because my family got settled in the area. Also, when I arrived, JPL maintained a very academic climate. For someone in a technical field, it was really a very exciting place to be.

**J B** I just never got around to changing jobs, I guess. In all seriousness, I have enjoyed the opportunities that JPL has provided me. It has been an honor to work the people here. JPL has been a great place for me.

**How did your employment begin?**

**C S** I graduated from Caltech with a physics degree and I always thought that I would end up here. I was hired on as just a simple engineer. When I applied for the job I was informally interviewed by several levels of management. I got increasingly more nervous throughout the process. Finally, I was actually interviewed by the Lab director at the time, Dr. Louis Dunn. He sincerely made me feel very comfortable. The Lab was much more casual back then.

**J B** Life is a series of unexpected events. My stepfather passed away. He had worked as a machinist for most of his life. I had been going to Caltech and UCLA, taking

mechanical engineering classes. When my stepfather died, I needed to find a job fast. I brought in his toolbox and literally knocked on the door at the JPL machine shop. I didn't really know anything about machining but I had taken a lot of engineering classes and I was extremely mechanically minded. Before I knew it, JPL had put me in on the swing shift as a machine shop helper. I certainly thank my lucky stars that I knocked on that door.

**What is your best memory of JPL? What have you liked the most?**

**C S** I was privileged to see a lot of exciting things that occurred in the early days of the Lab. When I first started working here I went out to White Sands, N.M., to see the Corporal launches. To a young engineer just out of college that was thrilling. There were all these amazing people showing me the most amazing things. I will never forget it.

**J B** It has been the friends I have made through the years. JPL is an interesting place filled with interesting people. I still play poker with the same group of JPLers I played with back in 1958. It just shows what a strong bond all of us share.

**What do you consider to be your greatest accomplishment at JPL? What are you most proud of?**

**C S** As a Trajectory Specialist in the Advanced Studies area, I got to work on part of the software that was used in the Deep Space 1 mission that few a few years ago. I take a

great amount of pride in that. Also, in 1999, I had the honor of having an asteroid named after me.

**J B** The most important thing that the Lab has given me is my wife, Carol. We met on Lab, and worked in the same section.

As far as work goes, I was also involved in creating a set of configuration management procedures tailored to JPL's unique needs. I feel that has been a sizeable contribution to the Lab.

**For you, how has the Lab changed the most over the years?**

**C D** Outside of the vast increase in size, JPL has become a lot more top heavy in management. At one time, I could work directly with someone at NASA Headquarters on certain things. Now there are several levels of management in between. It makes it much more difficult to get things done now than it was back then.

**J B** In the 1950s the Lab was like one big family. Back in those days we had one or two projects and everybody knew what everybody else was doing. Today, it is less like one big family but more like several smaller ones. JPL was and still is a great place to work.

**Do you have any regrets about staying so long? Was there a defining moment telling you it was time to move on?**

**C D** No, I don't have any regrets. If I wasn't here I don't know what else I would be doing. I am a Caltech graduate so I have always felt

linked to JPL. I have never really thought about being anyplace other than here.

**J B** I don't really have any regrets. I have never even given my time at JPL a second thought. I decided to retire when I "suddenly" turned 70. Time really does fly. I didn't want to go out of here feet first so I decided to walk out.

**Did the two of you know each other during your time at the Lab?**

**C S** Surprisingly, the first time I met Jay was at the 50-year commemoration luncheon last month. We worked in separate areas. I was completely unaware that there was another employee with 50 years.

**J B** I don't think either of us knew that there was another person with so many years at JPL until we met at the commemoration ceremony. It is difficult to believe that our paths never crossed in all of the 50 years we were on Lab together.

**Carl, when are you going to retire?**

**C S** When they stop giving me work, I'll retire. When I do, I plan to spend some time with my wife and my teenage granddaughter.

**Jay, how are spending your time now?**

**J B** Now that I have retired I plan to do some traveling with my wife and fix all of the things around the house that I promised to do when I retired.

## Letters

I'd like to express my gratitude to the entire JPL community for their support and thoughts regarding the loss of my brother.

Lars Meyer

Thank you so very much for the everlasting plant that was sent to our home for the loss of our son. He was our first child that God brought down to share with us for six months. The time with him was memorable, and he will never be forgotten. We know he is with God and we will see him again. I would like to thank my co-workers for the support you have given to my family and me during this difficult time. I would also like to thank JPL for the beautiful plant. Thank you again.

Carmen Dycus

I want to thank the JPL community for the beautiful plant that was sent to acknowledge the passing of my mother. That remembrance provided a source of comfort to my family and me. Thanks to all for your support and kind expressions of sympathy. Sincerely,

Jim Kulleck

My family and I would like to thank all of the friends and co-workers for the card and beautiful plant sent to my home in remembrance of the passing of my mother. My father has transferred the plant to his garden where it is flourishing nicely.

Ray and Jim Stagner

I would like to thank my friends and co-workers for their care and support during the long hospital stay and subsequent passing of my mother-in-law Marie. (She had a good life at 104.) You made the rough times easier.

Kathie Reilly

I would like to extend sincerest thanks to all my friends and colleagues for the cards, plants and expressions of sympathy following the death of my beloved father. Your kind thoughts and words have touched my heart and are so appreciated at this time of great sorrow. I also wish to thank the JPL store for the beautiful plant sent to my home.

Edna Villareal

I want to thank all my coworkers for their sympathy and support during the recent passing of my mother-in-law. The beautiful plant was a lovely gesture during a difficult time.

Bridget Landry

## Classifieds

### For Sale

APPLIANCES: microwave, \$50/obo; washer and electric dryer, \$150/pair/obo; washer and gas dryer, \$175/obo, all located less than 1 mile from East lot. 626/222-6943, Luke.

BED, roll away, w/spring mattress, exc. cond., \$65. 626/286-1883.

BED, Somma Flotation, queen w/ light pine headboard, \$150/obo; PICNIC TABLE, redwood, round, 60 inches across w/ 4 benches, needs work, \$15. 626/914-7853.

BEDS, 2 twins, gently used, matching twin size captain beds painted red, white and blue, each has 3 long drawers underneath and comes with matching 6-drawer chest, \$200/obo. 626/797-9846, after 6 p.m.

BOOSTER SEAT, Safety 1st, foldable, exc. cond., \$5. 626/850-4378.

CARPET, "oriental," 5 x 8, exc. cond., navy blue w/rose and beige, value \$350, \$50; BREAD MAKER, Welbilt, exc. cond., \$25; FOOD PROCESSOR, new-in-box, Moulinex, \$50. 626/398-4960.

CELL PHONE ACCESSORIES: Nokia 5100 - batteries: Ni-MH 900mAh & Li-ION 1200mAh, ACP-7U standard charger, LCH-9 auto charger, CCM auto hands-free mount/charger, horizontal leather case w/belt hook, all for \$30/obo. JeffreySBoyer@netscape.net or 626/644-2495.

CHAIRS (2), swivel, made in the Philippines, dark bamboo frames with orange pattern cushions, \$40 for both. 244-5489.

CHAIRS, side (4), wrought iron, designer (Santorini), c.1950, \$500. 323/255-3226.

CLARINET, Yamaha YCL-20, good condition, list price \$600, sell \$300/obo. 952-8455.

COMPTUER, Compaq, 400 MHz, with monitor, new modem, free Internet. 951-0000, Nik.

CONCERT TICKETS, 4, L.A. Phil., Feb. 15, 8 p.m., Dorothy Chandler; Strauss, Beethoven, Dvorak, Orchestra Level, \$30/ea., 626/564-1654, Heather.

COUCH, shades of gray/blues, with oak trim, very versatile and comfortable, \$200/obo; GUITAR, Takamine, 6 string, acoustic, with case, F360 with silk/steel strings, tuning fork, battery operated tuner included, \$300, reasonable offers considered; DESK, white, with glass fitted top piece, 3 drawers, \$50/obo; EXERCISE BENCH & WEIGHTS, exc. cond., \$100. 626/794-0081, Bonnie.

DINETTE TABLE, oak, w/leaf and 4 blue swivel armchairs, \$900 new, sell for \$150. 244-5489.

DOORS (10), interior, standard 23 1/2" w x 79 1/2" H, some w/hardware, good cond., \$5/ea. 957-0515.

DOG KENNEL, Vari Kennel, for travel, extra large for dogs to 90 pounds, 40 inches high, new, \$125. 249-4603.

DUFFEL BAG, 29", wheeled, vertical, recessed internal handle, 6 external dry storage pockets, U-shaped main storage opening, in-line skate wheels, black, used only once, \$30/obo. 780-0470.

EXERCISE BIKE, Ergometer, used only 280 mi., exc. cond., was \$300 new, sell for \$95/obo. 248-1793.

FURNITURE, Poplar: quality, no particle board, 4-drawer dresser, 37" W x 43" T x 16.5" D, \$129 3-drawer computer desk, w/keyboard drawer, 43" W x 30" T x 22" D, \$169; clear urethane finish, also clean white 1.3 kw microwave, \$50; free delivery to curbside in Pasadena area. vona@ai.mit.edu.

FURNITURE, Spanish mission style, matching dining table and 6 chairs, sideboard & entry table, exc. cond., cost over \$2,000 new from El Paso Imports, sell the set for \$1,200. 248-6721.

FUTON COUCH, oak mission style frame with dark mahogany finish, extra-thick 9" pad, Canyon Country, \$400. 661/816-7799, Stan.

GENERATOR, Coleman Poermate, 5000 watts, exc. cond., \$500/obo. 661/305-6597, Mike.

GOLF CLUBS, Ping ISI-K, men's 350 series shafts, regular flex2, 4-9, W & SW2 \$300/obo; Ping IST Titanium Driver, 10 Degree, RUD, \$250/obo; set with walking bag and Pure Spin LobWedge, \$600. 626/799-1786, eve.

GOLF CLUBS & CART, complete set of used irons, putter and driver, exc. cond., \$75. 626/914-1737.

INFANT CARRIER, Baby Bjorn, black and black & white plaid, good for 8 to 33 lbs. / 21 to 35.5", vg cond., \$50. 626/256-6606.

HOCKEY TICKETS (2), Kings, lower bowl at the Staples Center, individual games available, \$100/pair. 626/852-0821.

LOVE SEAT, antique (settee) and side chairs, 1860s, American walnut, recently appraised. 626/355-5166.

MAGAZINE RACK, wood, "vintage," \$10; VASES, misc. assortment including "butterfly" vases (new), \$3-5 each, ROCKING CHAIRS, "vintage," wooden with back and seat pads, exc. cond., needs cleaning, \$15; 1 for yard, circa 1940, \$5. 626/398-4960.

MATTRESS and BOX SPRING, with metal frame, full size, exc. cond., from guest room, \$100. 626/256-6606.

MOVING SALE, everything must go. 248-8853.

MOVING SALE: Pottery Barn/Z Gallery/Ethan Allen/designer, bakers rack, \$125; pine buffet, \$175; pine DR table, \$125; maple dbl. head/footboard, \$100; dressers/chests, \$100-250; 3 matching LR tables, \$150-175; custom overstuffed chair, \$200; casual sofa/double sleeper, \$200; pine bookcase, \$250; glass/metal patio set, \$250; prints/paintings, \$25-\$250; chairs, desks, lamps, bookcases, mattresses, \$15-75. bbon@earthlink.net or 952-2581.

PIANO, Yamaha digital, YDP121, in rosewood-style finish with weighted keys, 3 full-functioning pedals, built-in amplifier, speaker and power, barely used, \$1,000. 626/850-4378.

PIANO, upright, ~100 years old, exc. sound, \$150/obo. 626/449-1589.

PLAYER PIANO, 1925, 5'4", Grand, with Ampico A reproducing player (complete but needs restoration), original finish, \$2,000/obo. 714/745-7442.

RADIAL ARM SAW, DeWalt 10" deluxe model 7770 with table, less than 15 hours running time, dual voltage, powerful 2-1/4 HP motor, includes instruction and maintenance manual, vg cond., \$225. 626/398-0921.

RECLINER/ROCKER, by Lane, taupe color, good cond. \$25; BOOKCASE, 6' T/2' W/10" D, 3 top open shelves, 2 bottom shelves w/2 sliding doors, good cond. \$25; LAMP, ceramic ginger jar, 25", deep blue, \$15; DINING TABLE, Duncan-Phyfe mahogany, brass claw feet, rnd corner cust glass top, 40" x 60", sacrifice \$275. 626/296-3782.

REFRIGERATOR, GE, side-by-side, almond color, 17 yrs. old. 626/357-8210.

REFRIGERATOR, 1950s, GE, pink with chrome rotating shelves, good cond., works great, many unique features, blue inside, door opens w/foot or handle, wine/bottle rack inside, has original sticker and original butter dish, \$400/obo; STOVE, 1950s, gas, white, griddle in middle of stove top, storage on side and a working clock, good cond., works great, \$400/obo. 626/222-6943, Luke.

ROCKING CHAIR, bamboo framed, beige, upholstered, swivel, good cond., \$25. 626/359-7666.

SOFA, 92", beige multi-stripe, good cond., \$60/obo. 248-1793.

SOFA AND LOVESEAT, large, overstuffed, pattern of off-white and beige, oak trim on base, 10 years old, very good cond., \$150/obo. TWIN BED with frame, exc. cond., \$150/obo. 951-5952, after 5 p.m.

SPEAKERS, Eminent-Technology LFT-8, hybrid magnetic-planars, crossovers re-wired w/prem. components, serious for the audiophile, specs at <http://www.eminenttech.com/lft8prod.html>, listening session can be arranged, \$850. 902-9231, David.

TOYS, outdoor, Little Tikes: castle climbing structure with tower and slide, \$75; small slide, \$15; Cozy Coupe car, \$25; desk w/chair and compartment storage, \$45, all

reasonable offers considered. 626/797-9846, after 6 p.m.

VACUUM CLEANER, Sears Kenmore, canister, with all attachments, four years old, excellent condition, \$150/obo. 626/791-7645.

VIDEO GAME PLAYER, Playstation 2, all cables, dual shock analog controller, orig. Sony memory card, 4 games, Final Fantasy X, Metal Gear Solid 2, Grand Turismo 3, Time Crisis 2 w/gun, exc. cond., less than 25 hrs. play, \$250/obo. 500-9163, yng\_azn\_boi@hotmail.com.

### Vehicles / Accessories

'92 ACURA Integra LS hatchback, red, automatic, 122K mi., original owner, well maint., new tires, all service records, pwr. windows, cruise cont., am/fm/tape, tilt wheel, int. trunk & gas release, \$3,995/obo. 562/420-2313.

'99 CHEVROLET Monte Carlo LS, white, 80K mi., exc. cond., \$6,500. 626/379-3503.

'91 CHEVROLET Blazer, 4 dr., V6, 4.3 eng., good cond., 166 mostly hwy mi., service records avail., Blue Book \$1,900, sell \$1,700. 841-6282.

'00 FORD Focus LX, a/c, alarm, tinted windows, stereo cassette player, 47,000 miles, clean, great cond., \$7,500. 909/854-6355.

'98 FORD Taurus SE, 3.0L 24-valve V6, 90K miles, loaded, leather, white, factory spoiler, CD changer, new tires/brakes, \$6,495/obo. 661/424-9441, Carl.

'98 FORD Taurus SE, V6, 3.0, 24 v, beautiful cond., \$4,900. 626/379-3503, Erik.

'91 FORD Taurus L sedan, 144K mi., V6, 4 dr., auto trans., a/c, pwr. steering, tilt whl, cruise contr., am/fm stereo/cass, wht ext., gray int., new tires & brakes, current registr., good cond., \$1,600/obo. 955-8253.

'85 FORD Bronco II XLS, black/graphite, 4 x 4, 2 door, 5-spd. manual, rebuilt 2.8L V6 eng., (<25K miles), rebuilt carb, good tires + spare (<7K miles), must sell, \$950/obo. 626/791-7219, evenings & weekends, Khee, or KheeChan@earthlink.net.

'88 HONDA Accord, 188K mi., auto, p/s, p/b, a/c, power locks, exc. interior, vg exterior, exc. engine, carb may need some adjustment, \$1,500. 626/584-5944.

'88 HYUNDAI Excel hatchback, 5 spd., air, am/fm, 84,000 miles, no body damage, good tires, \$750/obo. 909/593-7558.

'96 JEEP Grand Cherokee Laredo, loaded, 67,000 mi. w/extended warr. until 4/03, 2WD, V6, single owner. \$8,500/obo. 626/862-3744.

'85 KOUNTRY Lite 5th wheel trailer, 30 ft., orig. owner, alum. frame, 13.5K mi., a/c, side bath, microwave, TV/VCP avail., new tires & water pump, sleeps 6, exc. cond., \$6,000/obo. 626/963-5727.

'88 MAZDA 323, 5 spd. manual, 216K mi., new brakes, recent smog test and registration. <http://babette.homelinux.net/Mazda>; bmsparr@yahoo.com.

'95 MERCEDES-BENZ C-280, exc. cond., automatic, ABS, a/c, power locks/windows/ mirrors/seats, am/fm/cassette/CD, white, 55,000 mi., \$14,500/obo. 323/254-5685.

'97 NISSAN truck, a/c, tinted windows, alarm, rear sliding window, bedliner, Masterflow muffler, Pioneer CD player with Sony 3-way speakers, clean, great cond., \$6,500. 909/54-6355.

'98 SATURN SW1 wagon, 84K mi, 5 speed, cruise control, keyless entry, am/fm/cassette, original owner, well maintained, \$5,200/obo. bbon@earthlink.net or 952-2581.

'02 TOYOTA Tacoma PreRunner TRD, white, power locks/windows, a/c, heater, CD, tape player, rino lining, off-road package, \$17,000/obo. 522-6033.

'93 TOYOTA pickup truck, 4 x 4, forest green, w/ shell, lg. tires, am/fm/cassette stereo, new engine, good work truck, \$2,200/obo. 626/301-1538, Matt.

'92 TOYOTA Camry LE, V6, runs awesome, vg cond., auto entry, power windows/doors, sunroof, only 125K mi.. \$4,251. 626/ 487-9173, James.

'88 TOYOTA Camry, auto, air, cassette, 135,000 mi., gd. cond., \$1,500/obo. 731-0470.

TRUCK SHELL, white, 8' bed length, \$200/obo. 957-0515.

'95 VOLVO 850 GLT wagon, 92,000 mi., \$9,500. 248-8853.

### Wanted

ENGLISH TUTOR, for middle- and high-school students. 952-7192, evenings and weekends.

FRENCH SPEAKER, native, for in-home infant care 8-10 hours/week, hours flexible, Arcadia/Sierra Madre area. 626/355-5166.

MATH TUTOR, high-school level classes; geometry, algebra, SAT math, etc.; eves and/or weekends, \$15/hr. 888/784-1639, David, lv. msg.

MORTGAGE OR TRUST DEEDS, if you sold a property and carried back mortgage I can buy that note for immediate cash. 626/836-6667, Leo.

POTTERY WHEEL, used or new. 562/693-2986.

SPACE INFORMATION/memorabilia from U.S. & other countries, past & present. 790-8523, Marc Rayman.

VOLLEYBALL PLAYERS, coed, no beginners please, every Tues. nt. 8-10:00 at Eagle Rock High School, \$3/nt. 956-1744, Barbara.

WETSUIT, men's, size XL to XXL. 661/305-6597, Mike.

### Free

CAT, to good home, beautiful 5-yr.-old male, Maine Coon, house cat, neutered, "Harley." 626/284-1851.

CLEAN FILL DIRT, 30 cu. yds. Avail. you haul as little or as much as you like, near Los Robles/Jackson, Pasadena. 626/791-3103.

WORKSTATION MONITORS, functioning, fixed frequency, if you don't know what that means you don't want them, can work with most

modern PCs, 1 IBM 9504 21" grayscale w/ matching PCI SVGA card & cable, 3 IBM 6091 19" color or similar, free delivery to curbside in Pasadena area. vona@ai.mit.edu.

TOILET, working, white, + two small blue porcelain kitchen sinks. 626/794-0081, Bonnie.

### For Rent

GLENDALE, 5 minutes from JPL, exc. location, spar heights area condo, 2 bd., 2 ba., pool, nice view, easy access to park and tennis court, fully remodeled, must see. \$1,650. 626/584-7668, day or 667-5569.

LA CANADA house, very private location, panoramic views, 3 bd., 3 ba., c/a, large fire place, all appliances included, La Canada schools, \$2,900. 653-5594.

LA CANADA, private rm. in home, with private bath, off-street parking, BBQ, pool, full kitchen priv., wash/dry, etc., \$450 + utilities. 790-1280.

PASADENA, San Rafael area, 2 bd., 1 ba., new kitchen, new ba., tile and hardwood floors throughout, quiet, pool, w/2-car carport, view of mountains, large yard, includes gardener and pool man, \$1,300. 952-7016.

PASADENA, spacious 2-story condo, 3 bd., 2.5 ba., prestigious community, beaut. inter., bright kitch., prof. landscape, ctrl. air & heat, close to shop., cozy l/r w/FP, end unit, frml. d/r, hdwd. flrs., immac. cond., close to schls, \$1,750. 626/396-9024.

PASADENA, condo in centrally located large complex, 1 bd., 1 ba., 1 mile from Caltech (near Hilton), JPL owner, walking distance from Paseo Colorado, unfurnished, pool, rec. & weight rms., laundry, secure parking, \$1,300. 626/449-0701.

PASADENA apt. to share, fully furnished 3 bd., 3 ba., townhome style apartment with patio, laundry facilities, near Caltech & JPL, \$625/mo. 626/351-9641.

PASADENA, 2 rooms, many amenities including hardwood floors, new carpet, pool, spa, sauna, mt. views. \$750. 626/676-5365.

SIERRA MADRE, townhome-style apt. to share, 1,000 sq. ft. apt, large patio, 2 bd., 1.5 ba., quiet street, garage parking, washer and dryer for this unit, \$605 plus 1/2 utilities. 626/355-4838, Heather.

SOUTH PASADENA house, 1 bd., 1 ba., avail. partially furnished, water and trash paid, stove, refrigerator, garage parking, \$1,000 + \$500 security dep. 626/441-6955.

### Real Estate

ENSENADA beach house, 2 bd., 2 ba., lg. liv. rm. w/magnificent vw of Ensenada and the islands, custom kitchen, plenty of storage, carport, glassed-in patio, all furn. and furnishing go with the house, \$37,000. 626/355-3621.

LA CANADA, 3 bd., 2 ba., f/r, dining area, LC schools, 2 blks. from JPL, h/w floors, land-scaped yards with auto water and lighting, workshop off garage. 626/798-4134.

MT. WASHINGTON house, next to Glendale, Pasadena, Eagle Rock, Occidental College; 2,000 sq ft., large custom 3 bd., 2 1/2 ba., 2-car garage, lots of storage, excellent Mt. Washington elementary school, 12 minutes from JPL, canyon view, quiet neighborhood, available summer '03. 626/403-0446.

PASADENA, newer, beautiful Craftsman-style townhome on lovely tree-lined st. betw. Caltech and So. Lake shops/restaurants, 2 bd., 2 1/2 ba., bonus rm./office, incl. security gate & priv. garage, wood-burning f/r, vaulted ceiling, recessed lighting, hard-wood & tile floors, maple cabinets, ceramic tile counters, French doors to patio, eat-in kitchen, laundry rm., bright and airy, feels like a house, \$415,000. sandiesz@pachell.net, 626/844-4670.

### Vacation Rentals

BALBOA ISLAND, fully furnished 2 bd., 1 ba., patio, washer/dryer, parking, steps to bay, \$150/night or \$875/week. 626/351-9641.

BIG BEAR LAKEFRONT, luxury town home, 2 decks, tennis, pool/spa, beautiful master bd. suite, sleeps 6. 949/786-6548.

COPACABANA Beach, Rio de Janeiro, Brazil, 1 bd. furnished apartment overlooking beach, superb view and location, sleeps 2-3, \$80/day. 626/303-1616 or 626/304-0688.

COSTA RICA condo, Pueblo Real, Quepos, 2 bd., 2 ba., fully equipped kitchen, TV, VCR, sleeps 6, air, newly remodeled, large pool, tennis, typical restaurant, near Manuel Antonio, next to river with mangroves and monkeys, close to beach, JPL rates. luisalfaro@earthlink.net or 760/723-8522.

HAWAII, Kona, ocean front on Keauhou Bay, house and guest house comfortably sleep 6, 3 bd., 2 ba., rustic, relaxing and beautiful, swimming, snorkeling, fishing, spectacular view, near restaurants, golf and other attractions. 626/584-9632.

HAWAII, Maui condo, NW coast, ocean front view, 25 ft. fr. surf, 1 bd. w/loft, compl. furn. phone, color TV, VCR, microwave, d/w, pool, priv. lanai, slps 4, laundry fac., 4/15-12/14 \$105/nite/2, 12/15-4/14 \$120/nite/2, \$15/nite/add'l person. 949/348-8047, jackandrady@cox.net.

MAMMOTH, Snowcreek, 2 bd., 2 ba., + loft, sleeps 6-8, fully equip'd kitchen incl. microwave, D/W, cable TV, VCR, phone, balcony w/view to mtns., Jacuzzi, sauna, streams, fishponds, close to Mammoth Creek, JPL discount. 626/798-9222 or 626/794-0455.

OCEANSIDE, on the sand, charming 1 bd. condo, panoramic view, walk to pier & harbor, pool/spa, game rm., sleeps 4. 949/786-6548.

OCEANSIDE condo, fully furn., 2 bd., 2 ba., fireplace, full kitch., quiet, relaxing, beautiful beachside setting; BBQ, pool, spa, game rm., and great ocean view, easy walk to pier/restaurants, slps 8, avai. weekly/monthly. 909/981-7492 or dfhaug@yaho.com, Darlene.

ROSARITO BEACH condo, 2 bd., 2 ba., ocean view, pool, tennis, short walk to beach on priv. rd., 18-hole golf course 6 mi. away, priv. secure parking. 626/794-3906.

JPL'S ONLINE NEWS SOURCE



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