by Alan Buis

Data from Atmospheric Infrared Sounder experiment shows various levels of brightness over southeastern South America.

Data from Atmospheric Infrared Sounder experiment offers forecasts with Dr. Adena Williams Loston and JPL Director Dr. Charles Elachi.

Aqua infrared data help with for ecarts

Dr. Adema Williams Loston, NASA's Associate Administrator for Education, visited JPL last month for the first time since her appointment to the job about six months ago. Loston met with education, public engagement and communications representatives to discuss current initiatives and also spelled out the efforts to organize and enhance agency education programs.

"NASA Administrator Sean O'Keefe is very interested in inspiring the next generation of explorers," she said. O'Keefe seeks a strategic focus and leadership across the agency. Noting that in the past, education work was handled in 17 different locations at the agency, she said, "the focus now is on a unified voice and direction for NASA, a national agenda." Working with teachers, students and parents has never been more important for NASA, she said, in the next three to five years, 60 percent of the agency's workforce will be eligible for retirement, which is a "crucial problem for the agency," she said.

In order to help overcome this, Loston mentioned four major initiatives underway in her office: NASA's educational goals for both pre-college and post-secondary education will focus on a pipeline called "STEM," an acronym for science, technology, engineering and math.

• One of Loston's goals is to have NASA employees go to schools and "share why we do what we do.”

• Ensure that the NASA Education Program is properly investing taxpayers' resources.

• Engage underrepresented students, educators and researchers.

In addition, several programs are underway to reach out to students and educators:

Science and Technology Scholarship Programs: In what she termed a "corporate recruitment strategy," Loston will ask each NASA associate administrator about their workforce needs over the next three to five years. Her office will identify institutions that will provide students with the needed skill sets, and NASA will fully fund students' tuition for a commitment come back and work for the agency.

Loston said she will work with NASA's human resources and equal opportunity leadership on this initiative. A report on its progress is due to be presented to O'Keefe by September.

NASA Explorer Schools. Each NASA center will host five schools for a week during the summer. Each school will send four teachers plus an administrator, such as a principal or assistant principal. NASA will provide curriculum targeted for students in grades 5 through 8, and teachers will come up with an implementation plan for their school. This is a three-year partnership.

Educator Astronaut Program. An effort to recruit K-12 teachers to be in the astronaut corps. Participants can qualify with a degree in education, but must also take a required number of hours in instruction in the STEM subjects.

More than 4,000 teachers were nominated. Between 200 and 300 will be down-selected by a group of teachers, then 2 to 6 will be approved as astronauts. Nominations closed May 2.

"Teachers want the resources you have developed," Loston said. "We want to engage as many students as we can, and make a difference."

Students will begin to notice a difference in their textbooks soon, she said, noting that some publishers have included chapters on NASA in their upcoming publications.

Loston also lauded the efforts put forth in informal education, where the agency works with planetariums, museums, etc. "Not all education takes place in the classroom," she acknowledged.

She noted the only three federal departments with education as part of their mandate are NASA, the Department of Education and the National Science Foundation. "NASA is not trying to overtake the role of the Department of Education," she said. "The Department of Education wants us at the table. We at NASA have the tools that can delight, inspire and excite the next generation."
**News Briefs**

**Dr. Gerard Holzmann**

Dr. Holzmann received his master’s degree in electrical engineering and his doctorate in technical sciences from Delft University of Technology, the Netherlands.

**Solar System Ambassador honored**

LOUISE STIVERS, a teacher in the Los Angeles Unified School District and Los Angeles Solar System Ambassador, recently received the Presidential Award for Excellence in Science Teaching, the nation’s highest teaching honor.

Stivers teaches second grade at Buchanan Street Magnet Center in Highland Park. She was honored in a long list of 100 educators newly eligible for the JPL/Caltech-Occidental Alumni Scholarships. The first show will be held at 8 p.m. in Beckman Auditorium. For more information, call (626) 395-4652.

**Weatherwatch**

**Dr. Charles Baish**

Dr. Baish will present “A Recommended Approach for NASA Tech Briefs” at the upcoming NASA Tech Briefs Conference on May 13. More than 130 people will attend the conference, which will be held at NASA’s Dryden Flight Research Center in Edwards, Calif. The conference begins at 8 a.m. on May 13, and wraps up with a 2 p.m. keynote session on May 15. For more information, visit the JPL website (http://www.jpl.nasa.gov).

**Ongoing**

**Support Groups**

Alcoholics Anonymous—Meetings are available. Call the Employee Assistance Program at ext. 4-3680 for more information.

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 at (626) 319-4319.

Gay, Lesbian and Bisexual Support Group meets the first Friday and third Thursday of the month at noon in Building 167-111. For more information, call the Employee Assistance Program at ext. 4-3680 or Randy Herrera at ext. 3-0664.

Parents Group for Children With Special Needs—Meets the second Thursday of the month at noon in the Wellness Place, Building 167-111. For more information, call Sue Newland at ext. 4-3680.

**Faculty, Staff, and Student Discounts**

**Event Calendar**

**Tuesday, May 20**

Investment Advice—Fidelity will offer one-on-one counseling. For more information, call (800) 642-7131.

**Wednesday, May 21**

“Quasar and the Edge of the Solar System”—Dr. Michael Brown, Caltech associate professor of planetary astronomy, will lecture at 8 p.m. in Caltech’s Beckman Auditorium. Free admission. For more information, call (626) 395-4852.

**Thursday, May 22**

“Playing with the Stars: A Walk Through the Planets”—This program sponsored by the Caltech Alumni Association will be held in Beckman Auditorium at 8 p.m. For more information, call (626) 395-4652 or check the Caltech Alumni Association’s website (www.caltechalumni.org).

**Friday, May 23**

At the Kennedy Space Center, Ames Rock will celebrate his 30th anniversary at Caltech’s grassy-nic-in-space with a 8 p.m. show in Dubney Auditorium. For more information, call (626) 395-4652.

**Thursday, May 28**

Working Parents Support Group—This workshop will provide an excellent opportunity for fostering technical interchange on all hardware and software aspects of information technology applications in space missions. For registration and other information, log on to http://sms.jpl.nasa.gov.

TIAA/CREF Enrollment—This workshop sponsored by the JPL, Caltech, and NASA will provide an overview of TIAA/CREF retirement plans with a selection of investment options and the completion of their enrollment forms.

**Tuesday, May 10**

Caltech Concerts—This forum will provide the combined efforts of the Caltech-Occidental Concert Band, the two Caltech Jazz Bands and the Caltech Men’s Chorus. The free show will be held at 8 p.m. in Beckman Auditorium. For more information, call (626) 395-4652 or check the Folk Music Society website at http://www.folkmusic.caltech.edu.

**Tuesday, May 13**

**Wednesday, May 14**

**Wednesday, May 15**

**Thursday, May 15**

“Women Make History: In Her Own Words”—This TIAA/CREF workshop, held in Building 181-101 at 8 a.m. to noon, will help women make the most of their money no matter their phase of life, be it single, just starting out, or in the golden years.

**Conference Registration—Early registration deadline for the International Conference on Space Mission Challenges for Information Technology, the first forum to gather system designers, engineers, practitioners, and space explorationists for the objective of advancing information technology for space missions. The event will be held July 13-16 at the Pasadena Conference Center and will provide an excellent opportunity for fostering technical interchange on all hardware and software aspects of information technology applications in space missions. For registration and other information, log on to http://sms.jpl.nasa.gov.

**Special Events Calendar**

**Space Act Awards bestowed**

More than $131,000 was awarded to about 100 JPL technologists and contractors during April 22 ceremonies honoring the winners of the NASA Space Act Award.

**The Space Act Award**

recognizes significant contributions to significant value to aeronautical or space activities. A monetary award is presented to each contributor of the technology. Awards made for JPL technology are awarded to fund applicants increased from $21,000 in fiscal year 2001 (when five cases were submitted to the board) to $29,000 in fiscal year 2002 (9 cases were submitted). The $133,750 awarded to the JPL winners by Director Dr. CHARLES ELACHI represents the amount awarded since the beginning of fiscal year 2003, last October.

The awards are classified into three categories: Standard (less than $2,000), Major ($2,000 to $5,000), and Exceptional, where at least one of the innovators received an amount of $5,000 or more. The awards received eight Exceptional Awards, the highest award given by NASA for the JPL patrons.

The awards were created as an incentive to disclose government or NASA-funded efforts automatically to the public under the NASA Technology Act. A requirement for the award is that the government must have the right to disclose the innovation with no payment of royalties. Most NASA-funded efforts automatically fall into the category of inventions and contributions board awards. The awards are made to encourage the process of disclosing the technologies in a timely manner to maximize the benefits for NASA and society. The NASA Invention and Contributions Board determines award amounts. Congress gives NASA the authority to grant awards up to $100,000 for each innovation. Recent awards have ranged from $500 to more than $50,000 for some truly valuable contributions, such as the recent award to NASA's Mars Inception and the year...
or the first time in two years, JPL will soon welcome the public for an Open House celebration. The event will be held May 17-18, from 9 a.m. to 5 p.m. each day. Highlighted by exhibits, models and displays from the Earth, Mars, Solar System, Technology and Universe theme areas, visitors will have a great opportunity to learn about everything that is JPL. Lab staff members will be available to answer questions about their work at many of the exhibits.

Kids will have the opportunity to design their own constellation inside a plastic bag “planetarium,” build an interplanetary spacecraft, be “run over” by a lightweight, eight-wheeled rover, and more. Fun hands-on activities for preschool-age children will also be available. Here’s a sampling of what’s coming up:

Welcome to Outer Space
View this multimedia production about JPL’s missions in von Kármán Auditorium, along with various space exhibits and a full-scale model of the Voyager spacecraft.

Deep Space Operations
Learn about the multiple roles of the huge antennas of the Deep Space Network from the gallery in the Space Flight Operations Facility. See a scale model of a possible array antenna of the future, an exhibit of space images and students’ murals.

Regional Planetary Image Facility
An archive of images in many types of formats from past and present JPL missions. Part of a network of 38 NASA image facilities, RPIF has one of the largest collections of original Mars images and a full collection of planetary maps.

Spacecraft Assembly Facility
Visit High Bay 2, the largest clean room at JPL.

Spacecraft Fabrication Facility
Where a spacecraft goes from “Art-to-Part”—from technical drawings to precision spacecraft components.

Mars
Mars Exploration Rover Mission
Get an in-depth look at the In-Situ Instrument Laboratory, which houses an indoor simulated Martian landscape. Engineers will explain full-scale models and simulate the pyrotechnic process that deploys the rovers from their landers. Kids will have fun being “run over” by a lightweight rover and coloring their own rover.

Odyssey and Global Surveyor
See models of the spacecraft and an impressive display from their Martian photo albums.

Welcome to Our House
Research on oceans, solid Earth and the atmosphere
- Numerous Earth Science projects
- Kids can visit their “corner” to play an adventure game and come discover the planet we call home

Image Processing
Unique capabilities of the nine cameras on MRO, the Multi-angle Imaging Spectro-Radiometer. Shore and 3-D images of Earth, along with videos and animation. Find out what a new instrument will tell us about Earth’s surface, clouds, and particles in the air.

Fun Physics
Experience the strange world of cyrogenics phenomena, where balloons drink and magnets levitate.

The Visible and Beyond
- Discover how invisible radiation from space may hold the clues to how galaxies, stars, and planets formed. Learn how scientists have already detected more than 100 planets orbiting stars outside of our solar system.
- Science demonstrations: see your staff through a heat-sensitive infrared camera, or learn how scientists experiment with weightlessness without going into space.

Technology
Robots, Cutting-Edge Technology, New Methods
- Watch UR5E the robot climb stairs; Spiderbot the robot walk; a moving android head; and a robotic hand with artificial muscles
- The latest in optical infrared cameras; an ultrasonic motor and water jet (low-power alternatives for future missions); demonstrations of an ultrasonic drill designed for use on surfaces of other planets, such as Mars
- Visit with Southern California high school teams that built robots with JPL engineers and volunteers

Instrument Systems Laboratory
- Animations, 3-D imaging, high-definition television, and image processing.

Robotics, Cutting-Edge Technology, New Methods
Welcome to the Visible and Beyond
Welcome to Our House
It’s never too late to help make this Open House an even greater event. If you can volunteer a half-day, full day or both days, call Public Services at ext. 4-0312.

Earth
Cassini-Huygens, Deep Impact, Genesis and Stardust
See models of the Huygens probe that will parachute through Titan’s murky atmosphere; the first mission to look inside a comet; and both JPL sample return missions. Touch a meteorite and see the world’s lightest solid, aerogel.

New Millennium Program
Future technologies and a demonstration of an ion propulsion engine, the most fuel-efficient way to cruise the solar system as successfully demonstrated by Deep Space 1.

General Information and Security
Parking, Lab Access
- Employees and volunteers may park on Lab but must drive through the South Gate. Access to the Blue Lot will only be available from the west side of the lot; normal on-Lab access will be closed.
- Visitor parking will be in the West, Blue, East and Arroyo lots. Visitors may enter the East Lot via Arroyo Ave.
- Main Gate traffic will be restricted to outbound tour buses and emergency vehicles.
- The Visitors Lot will be restricted to guests requiring parking for the disabled.
- The primary pedestrian checkpoint will be at the Main Gate.
- Visitors must ride parking lot buses from the East and Arroyo lots to the Main Gate; walking in from the East or South gates will be prohibited.

Security
Security for the Open House is being enhanced for the safety and enjoyment of the public and JPL staff, with an increased presence of security guards and fire department personnel, as well as additional support from outside local law enforcement. Security will be supplemented by JPL’s Urban Search and Rescue Team.
- All vehicles, persons and possessions will be subject to inspection.
- Prohibited items include backpacks, ice chests, alcohol, illegal drugs, weapons, dangerous devices, explosives, skateboards, skates (including inline) and animals.
- Personnel should secure all sensitive items and lock all interior office and lab doors prior to event.

Assistance
- For emergencies, from on-Lab phones dial 911; from cell phones, dial 818.393-3333.
- For non-emergencies, from on-Lab phones dial 4-3530; from cell phones, dial 818.354-5430.
About 700 children of JPL staff and their families will celebrate the beginning of the school year on Sept. 2, when the Kids of JPL and Caltech program begins its 35th season at the Rose Bowl. The event, which is open to children of JPL and Caltech employees, continues to be sponsored by JPL's Employee Activities Office, under the guidance of JPL's Adrienne Valentine and family.

Letters

My family and I would like to thank everyone for their kindness and thoughtfulness after the passing of my father-in-law, Robert. He will be greatly missed by our sincere and deep appreciation for the fruit salad by JPL's Adrienne Valentine and family.

Passages

VICTOR WHISENAND, retired from Section 614, died Feb. 13, 1937, who worked at the Lab from 1957 to 1974, his wife, Mildred, his daughter Janet, son Roy and sister Pauline McNeil.

JOSEPH BRUMO, 83, passed away March 30. Brumow worked at JPL from 1952 to 1975, is survived by his wife, Mildred, his daughter Janet, son Roy and sister Pauline McNeil.

Classifieds

For Sale

BAYFARTS: smoker, Aprilia, 135i, very fast car, seat, 30-ft soft top and rear spoiler, 1400 miles, $350; TABLE, maple butcher block, 2" thick, 626/797-3310, evenings and weekends. 626/398-7785. 790-3899. Thinkpad, works with T20, T21, A20, A21, or T42, sell as two units, $35; PORT REPLICATOR, for IBM laptops, in excellent condition, $100/obo. 957-8302. 626/355-3201.


For Rent

VACATION RENTALS:
OSCARのご当地情報 by Bob Brown / JPL Photolab
Air Force lieutenants learn the JPL way

By Susan Braunheim-Kalogerakos

Five Air Force lieutenants from the Space and Missile Systems Center (SMC) at Los Angeles Air Force Base in El Segundo are working on Lab as part of an Air Force/Industry Employee Exchange Program. The aim of the program is to facilitate the exchange of information and institutional wisdom between the Air Force and NASA and JPL. The program will provide benefits to both institutions including the rejuvenation of systems engineering skills, which have been in need of improvement in the Air Force in years past, as well as improving JPL's skills in program/project management.

Robert Cox, assistant director for the National Space Technology Applications Office in the Earth Science and Technology Directorate, directs the program for JPL. The program was developed by Lynn Baroff of the Mission and Systems Architecture Section. Cox said the program will allow Air Force personnel to "work hand in hand with JPL scientists and engineers and take that experience and knowledge back to the Air Force space program and enrich it by making more meaningful contributions."

Deputy Lab Director Eugene Tattini is an enthusiastic supporter. "Bringing these individuals on Lab gives them an opportunity to understand the engineering and high quality and dedication of these Air Force men and women. We are all going to be better off because of these kinds of programs," Tattini said.

When the call for applications went out last November, Lt. Mark Scherbarth said he "jumped at the chance." During his six months in the program, Scherbarth is completing his master's degree as well as sharpening his engineering skills working with rigidizable inflatable structures in the Structure and Materials Technology Group. Lt. Heidi Budd is working on the Cassini Project in the attitude articulation and control subsystem area. She is amazed at how much goes into making a project happen. "I hope to leave JPL with a greater appreciation and understanding of all that goes into a project like Cassini and take the lesson back to SMC," she said.

Lt. Tony Marquez has found his work with the Integration and Test Section for the Mars Exploration Rovers to be very valuable not only technically but organizationally and personally as well. "There are many business practices at JPL that can tremendously help both the Air Force as an business organization and myself as an employe," he said.

The most interesting aspect of working at JPL for Lt. Jason Janik, who is working in the Mars Exploration Engineering Group, has been working directly on the design of a project and applying engineering concepts to it. This is something he doesn't often get to do at the SMC. "I hope to be able to incorporate some of the things I learn here to enhance my job skills back in the Air Force," Janik said.

The lieutenants enjoy the relaxed atmosphere JPL provides, but it has taken some getting used to. Lt. Amanda J. Jones, who works in the Near Earth Mission Architecture Group, finds JPL's people and the on-Lab environment interesting. "JPL is a very different environment from the Air Force in many ways. The atmosphere is much more relaxed and seems less structured. The people have been fan-tastic, very friendly, and always willing to help when they can."

Although the effort is considered an exchange program, no JPLers are currently working at SMC. "As the program matures, and professional development issues are addressed, more JPLers will go to SMC," Cox said.

This set of lieutenants is scheduled to leave in mid-September when another group of young Air Force officers will arrive at JPL to begin a new six-month exchange rotation.
for the scheduled area.

The JPL/Caltech Child Educational Trust Company will hold its annual wine benefit on May 27. For more information, visit http://www.cefcu.org, or call ext. 4-3418.

The JPL Creditors Union offers a scholarship to graduating high school students. To be eligible, applicants must be a high school senior in good standing and a Caltech Credit Union member, and must complete a Personal Statement Essay. For application information, log on to http://www.catulf.org, call (800) 593-3288 or stop by any Caltech Credit Union office. Application deadline is May 31.

The Netherlands—A slide show will be presented at noon in Building 238-543 by Floris Kok of the Quan- tum Technologies Group. Learn more about the land famous for wooden shoes, tulips and wind- mills. Go beyond the traditional images with a Dutch native and see Holland's famous art, sunny cities and canals, as well as the defining the famous flats. The talk is sponsored by the JPL Hiking Club.

Wednesday, May 2

"Democracy, Race and the Problem of Human Violence"—Biologi- cal anthropologist Richard Wrang- ham will lecture at 8 p.m. in Caltech's Beckman Auditorium. Free admission. For more information, call (462) 395-4652.

JPL Toastmasters Club—Meeting at 5 p.m. in the 167 conference room. Call Eric Fuller, ext. 4-2399 for information.

Volunteer Professionals for Medical Assistance—Meet every second Tuesday at 10 a.m. at Caltech's Credit Union, 528 Foothill Blvd., La Cañada.

Thursday, May 2

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

Search & Rescue Orientation—JPL's Search & Rescue Orientation team will conduct an information session of classes offered by Employ- ment. The next orientation is scheduled for Thursday. For up- dates, call (800) 593-3288 or stop by any Caltech Credit Union office.

For more information about the JPL Library, Building 301-271.

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KSC engineer supports One NASA principles

By D.C. Agle

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

Well before NASA Administrator Sean O'Keefe focused NASA on the concept, Cheryl Malloy, Kennedy Space Center mission integration manager for the Launch Services Program (formerly the Expendable Launch Vehicles Program) was actually putting the One NASA principles into practice. Malloy, a 15-year NASA veteran, has had several first-hand experiences in working with other NASA centers on projects at KSC.

“I've been lucky in that all of the Launch Services Program missions we work on require integration with other centers,” Malloy said. For example, as mission integration manager on the Kodiak Star mission in 2001, she coordinated launch site activation, mission integration and launch activities with the Wallops Flight Facility, the U.S. Air Force and Coast Guard and Lockheed Martin, bringing together one Kodiak launch team to ensure a smooth mission flow and successful first launch in Alaska. The launch coordination was a prime example of NASA’s Core Values and KSC’s Guiding Principles. It emphasized the importance of building reliance and teamwork everywhere, which has been a KSC Guiding Principle for more than five years and demonstrates One NASA, which is all about teamwork. Malloy started at KSC as a summer appointment in 1987 and then worked full-time in Shuttle Payloads, starting in 1990. Among others, she worked on Spacelab Japan, Microgravity Life Sciences and Space Life Sciences payloads. She especially enjoyed working in this area because, in addition to her electrical engineering degree, she first earned a degree in lab technology. Working on these payloads utilized both degrees and provided her the opportunity to meet and work with many scientists and experimenters inside and outside of NASA.

It was during her time in Shuttle upgrades, from 1996 to 1998, that Malloy’s work required her to become involved in projects rather than missions with other NASA centers. She transferred to Expendable Launch Vehicles in 1998 and has remained there ever since. “I like the synergy that exists when you work with the NASA centers and others outside of KSC,” said Malloy. She so strongly believes in drawing on all resources to successfully complete a project that she took it one step further and participated in NASA’s Industry Exchange Program, which temporarily places personnel from commercial business into NASA, and vice versa.

Malloy recently completed an industry exchange assignment with Science Applications International Inc. in Cape Canaveral while still maintaining some of her responsibilities with the Launch Services Program. “I wanted to benchmark my project management and compare the private sector with government,” she said. Malloy will be able to bring back project management practices from the private sector in the same way she shared NASA’s perspectives with them. She was not surprised to find that, since Science Applications International is a global company, they had practices in place similar to One NASA.

Returning from her industry exchange to KSC, Malloy is working on the Marshall Space Flight Center–managed X-37 Flight Demonstration Project, comprised of a team including Dryden Flight Research Center, Langley Research Center, Johnson Space Center, Ames Research Center and the Fairmont Independent Verification and Validation Facility. She and the KSC team will provide launch service and launch service integration. “This is a perfect example of the One NASA concept,” Malloy said, “where we draw from other centers for their experience and expertise.

With any new concept there are always hurdles to overcome. “It's so much better to work under the ‘agency hat’ than just the ‘KSC hat,’” Malloy noted. “One NASA is predominately a culture change and it's the perfect opportunity for our leadership to set the stage for guidance and support.”
P assings
J ohn Stand, 83, a retired PL en- gineer who worked at JPL for almost 35 years. He served as manager of the Mission Planning Office in the Flight Projects Division and as a consultant for Preliminary Design and Research. Services were private.

J ess Florez, 14, from section 6D4. She flunked out of LAHS last year and is now working at the lab from 1980–84. He is survived by his wife, Carmen.

P atricia Archibald, who had worked at JPL’s Jet Propulsion Laboratory for 29 years, died on April 23. She has been survived by her husband, Edward, daughter Linda and Laura, and six grandchildren.

S ervices were held at 1st Church of Nazarene in Pasadena.

L etters
My husband, Ian Gordon, and I would like to thank all of our friends at JPL for the thoughtful and heartfelt obituary of my mother, Sylvia Gordon. Sylvia had a big personality and a thousand great stories, and I will always remember when she looked at the beautiful plant I sent, at section 545. I miss her.

We would like to express our appreciation for the plant sent from the Laboratory after the passing of my husband’s mother, Sylvia Gordon. It brought a smile to her beloved family, and we appreciate the expressions of sympathy from co-workers.

Linda Ken and Herrell

C lassifieds
C lassified ads will be available the day before Universe is published at http://dailyplaneta

For Sale
A RT. A.C. German signed print, "Woman in a Room," 1977, PL, cabinet, retail, $125, each. 815/831-1212.

B IKE. "KONA" mountain bike, all-terrains, 26" wheels, 1998 model. 909/205-4515.


C AFE, Los Angeles City, fast casual dining, 164 S. Hope St. 323/317-8838.


C ARM, "KOMANDOR," Zink steel, lightweight, 26" wheels, 1993 model, light brown with rear view mirrors, 45" frame. 323/221-8700.


C HIANG, "SCHILKE," tenor, 359 piccolo, serial #51270. 323/653-5680.


C OPY MACHINE, Sentry ES10, 20ppm, 20hr/day. 323/653-0238.


C TOOLS, "CRAFTSMAN," vintage: 6" rip, 5" tenon, 2-1/2" hand plane, 4-1/2" dovetail plane, various other tools. 323/653-0238.

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FAN, "CROSSWIND," box fan, oscillating, 24" high, 30" wide, 30" deep. 323/653-0238.

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