

## Ames' Lunar Prospector does it again!

Lunar Prospector, "the little spacecraft that could," is astounding the planetary research community yet again.

Just five months after it sent a wave of excitement across the globe with the announcement that water had been detected at both lunar poles, recent data from the Ames-managed, \$63-million mission threatens to force nothing short of a systematic re-evaluation of existing theories of lunar formation, evolution and history.

According to a series of articles published in the Sept. 4 issue of *Science* magazine, researchers now estimate that up to six billion metric tons of water ice may be trapped at the Moon's poles. This represents a more than ten-fold increase over the most optimistic previous projections. Further, growing evidence suggests that the water ice may be buried in relatively high-concentration deposits in the permanently shadowed lunar polar craters.

Researchers also report detection of strong, localized magnetic fields; delineation of new mass concentrations on the lunar surface; and mapping of the global distribution of major rock types, key resources and trace elements. In addition, there are strong suggestions that the Moon has a small, iron-rich core.

"Lunar Prospector has given us new eyes to view the Moon," said Ames' Scott Hubbard, NASA Lunar Prospector mission manager. "Our neutron vision has allowed us to peer deep within the shadowed polar craters, adding yet another chapter to Prospector's tremendous record of success."

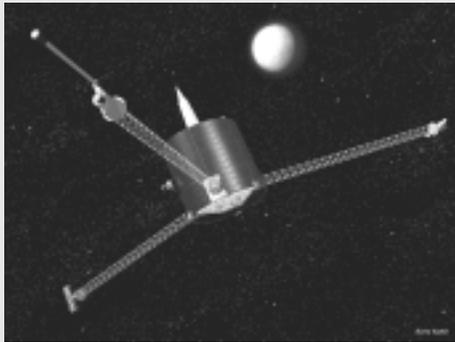
Carl Pilcher, science director for Solar System exploration in NASA's Office of Space Science, in Washington, DC,

put the recent announcements into perspective. "The Apollo program gave us an excellent picture of the Moon's basic structure and its regional composition, along with some hints about its origin and evolution. Lunar Prospector is now ex-

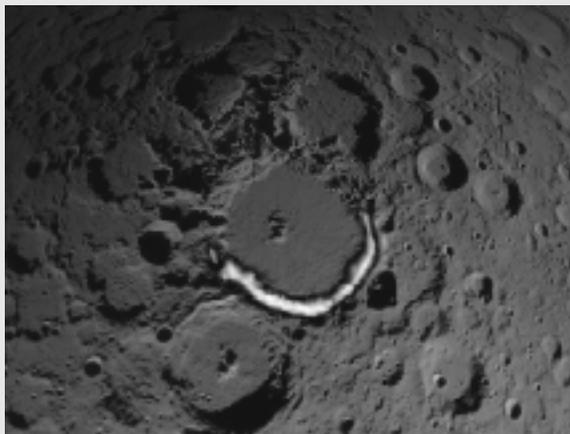
cessively conservative estimates on neutron spectrometer data which showed distinctive dips over the lunar polar regions," said Alan Binder of the Lunar Research Institute in Gilroy, the mission principal investigator. "This indicated significant hydrogen enrichment, a telltale signature of the presence of water ice."

"Subsequent analysis, combined with improved lunar models, shows conclusively that there is hydrogen at the Moon's poles," Binder said. "Although other explanations are possible, we interpret the data to mean that significant quantities of water ice are located in permanently shadowed craters in both lunar polar regions."

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*Lunar Prospector*



*Artist's conception of an ice deposit outlining the rim of a permanently shadowed crater on the Moon.*

panding that knowledge into a global perspective. The indications of water ice at the poles are tantalizing and likely to spark spirited debate amongst lunar scientists."

In March, preliminary reports from Lunar Prospector mission scientists suggested a water signal with a minimum abundance of approximately one percent by weight of water ice in the Moon's rocky soil or regolith in parts of the lunar polar regions. This corresponded to an estimated total of 300 million metric tons of ice at the Moon's poles. "We based those earlier, consci-

## Exchange 'free lunch' is big hit

The check is in the mail. I'll still respect you in the morning. I'm from the Government; I'm here to help.

Famous platitudes. We've all heard them. And some we've even believed. But there is no more universally accepted truth than that which lays at the root of our economic system -- "there's no such thing as a free lunch." Well, wrong!

On August 19, the Ames Exchange hosted this Center's first-ever 'Employee Appreciation Day' to thank all Ames personnel for their participation in and support of Exchange programs and busi-

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*see related story on page 2*

Ames ISO Web-site address:  
<http://dqa.arc.nasa.gov/iso9000>

## ISO 9001 process and status update

Center management has established milestones for achieving ISO certification by April '99. Status reports on meeting these milestones are reported to the Ames Management Council on a bi-weekly basis. Directorate and division chiefs are providing this status to the council along with information on the areas in which directorates are documenting processes and training their staff. All staff will have to be trained on the use of centerwide system-level procedures and revised works instructions that effect their work processes.

This entire ISO effort has caused the Center to look at what its products are and who are our customers. The result of this exercise has narrowed the scope of certification by limiting our certification efforts to organizations that provide products to external customers.

The Center Director, Harry McDonald, has indicated that safety and ISO certification are the Center's top priority. He has also expressed his belief that the Center would be in jeopardy of losing future projects, lead program responsibilities, and funding from NASA Head-

quarters if we fail to get certified in April '99.

All organizational elements must pull together, as a team, if Ames is to successfully pass our upcoming certification audit next April. A team of outside third-party auditors is scheduled to be onsite during the week of November 16, 1998 to perform a second pre-assessment audit of our quality system. This audit will serve as a gauge as to where we stand in getting ready for the April '99 certification audit.

It is critical that everyone at the Center make this ISO certification effort a top priority and give it their closest and most considered attention.

BY RICK SERRANO



## Ames prepares to kick off 1998 Combined Federal Campaign

All Ames employees and contractors are invited to attend the 1998 Combined Federal Campaign (CFC) kick off at 9 a.m. on September 17 in the N-201 main auditorium.

The theme of this year's Combined Federal Campaign, which will run from September 17 through October 16, is "Change Tomorrow, Today!"

Brian Hackney, weather anchor and science and technology editor for KRON-TV, NBC, Channel 4, San Francisco will be the featured guest speaker and will discuss how the press views NASA Ames science and technology stories and research. Also, Mr. Alan Ball, director of Disaster Services at American Red Cross, will be sharing how their services benefit our local communities

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## Don Schilling retires after 42 years of government service

Though retired from NASA Ames since August 29, Donald E. Schilling still works a bit -- to restore cars. Friends say he is now believed to be refurbishing a classic 1950s Porsche, although he has worked on all kinds of automobiles since his youth. That may surprise some people at Ames because, when he toiled at the Center, he did so in the field of personnel which is a far cry from working on a machine like a 'Tin Lizzie.'

As a young man, Schilling served in the military during the Korean conflict era for several years. Then, in 1960, Helen Davies reviewed Schilling's job application and liked what she saw. Davies telephoned the Schilling home when he was working on an automobile. He came to the phone, perhaps a little grudgingly, and set sail on his lengthy Ames career.

"And so Don Schilling came to work for the Center, but he never stopped working on cars either," said Janet Jarmann, a colleague who works in Human Resources.

He began at Ames as a GS-5 personnel assistant. He later was a civil service commission rating examiner, staffing specialist, personnel management specialist and was detailed to both Dryden flight research facility (now Dryden Flight Research Center) as the supervisor of the personnel branch, and to NASA Headquarters in the personnel policy and workforce effectiveness division. His career at Ames spanned more than 38 years.



*Don Schilling 'mugs' for the camera.*

### Ames' Lunar Prospector does it again!

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"The science data do not tell us definitively the form of the water ice," Binder added. "However, if the main source is cometary impacts, as most scientists believe, our expectation is that we have areas at both poles with layers of near-pure water ice." In fact, the new analysis "indicates the presence of discrete, confined, near-pure water ice deposits buried beneath as much as 40 centimeters of dry regolith, with the water signature being 15% stronger at the Moon's north pole than at the south," Binder concluded.

How much water do scientists believe they have found? "It is difficult to develop a numerical estimate," said William Feldman, co-investigator and spectrometer specialist at the Department of Energy's Los Alamos National Laboratory in New Mexico. "However, we calculate that each polar region may contain as much as three billion metric tons of water ice."

Feldman noted he had cautioned that earlier estimates "could be off by a factor of ten," due to the inadequacy of existing lunar models. The new estimate is well within reason, he added, since it is still "one to two orders of magnitude less than the amount of water predicted as possibly delivered to, and retained on, the Moon by comets," according to earlier projections by Jim Arnold of the University of California at San Diego.

In other results, data from Lunar Prospector's gamma ray spectrometer has been used to develop the first global maps of the Moon's elemental composition. The maps delineate large

compositional variations of thorium, potassium and iron over the lunar surface, providing insights into the Moon's crust as it was formed. The distribution of thorium and potassium on the Moon's nearside supports the idea that some portion of materials rich in these trace elements was scattered over a large area as a result of ejection by asteroid and cometary impacts.

While its magnetic field is relatively weak and not global in nature like those of most planets, the Moon does contain magnetized rocks on its upper surface, according to data from Prospector's magnetometer and electron reflectometer. The resultant strong, local magnetic fields create the smallest known magnetospheres in the Solar System. Further, the observed small magnetic fields are located diametrically opposite to young, large impact basins on the lunar surface, leading scientists to conclude that the magnetic regions formed as the result of these titanic impacts.

Using data from Prospector's Doppler gravity experiment, scientists have developed the first precise gravity map of the entire lunar surface. In the process, they have discovered seven previously unknown mass concentrations, lava-filled craters on the lunar surface known to cause gravitational anomalies. Three are located on the Moon's nearside and four on its farside. This new, high-quality information is helping engineers determine the long-term, altitude-related behavior of lunar-orbiting spacecraft, including Lunar Prospector, and will make possible more

accurate assessment of the fuel needs of possible future Moon missions.

Finally, Lunar Prospector data suggests that the Moon has a small, iron-rich core approximately 300 kilometers in radius, toward the smaller end of the range predicted by most current theories. "This particular theory seems to best fit the available data and models, but it is not a unique fit," cautioned Binder. "We will be able to say much more about this when we get magnetic data related to core size later in the mission." Ultimately, a precise figure for the core size will help constrain models of how the Moon originally formed.

Lunar Prospector was launched on January 6, 1998, aboard a Lockheed Martin Athena 2 solid-fuel rocket and entered lunar orbit on January 11. After a one-year primary mission orbiting the Moon at a height of approximately 100 kilometers, mission controllers at Ames plan to the lower the spacecraft's orbit substantially to as low as 10 to 25 kilometers to obtain more detailed measurements. The small, drum-shaped spacecraft is the first competitively selected flight in NASA's Discovery Program of lower-cost, highly focused space science missions. Ames manages the LP mission office on behalf of the agency.

Further information about Lunar Prospector, its science data return, and relevant charts and graphics can be found on the project website at: <http://lunar.arc.nasa.gov>

BY DAVID MORSE



### Ames prepares to kick off 1998 Combined Federal Campaign

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from our contributions through the CFC.

Captain Lorraine Flakes, CFC loaned executive will be in attendance to get Ames off to a fun and exciting campaign. Distribution of brochures, pledge cards, and training for CFC captains and keyworkers will be scheduled following the kick off.

This year's CFC campaign chair is Bob Lopez of Code JT ext. 4-0097; deputy chair is Deepak Kulkarni of Code IC, ext. 4-4869.

Keyworkers will distribute CFC brochures and pledge cards to each Ames civil service employee beginning September 21. They also will answer questions and explain the benefits of

making a contribution to CFC.

One-time contributions from federal service retirees and contractor employees are welcome and are yet another way to participate in the CFC campaign.

See the next issue of the Astrogram for more information about how your donation to CFC can help people throughout the year. The few minutes it takes to fill out your CFC pledge card can provide support for families in need of food and housing, comfort for the dying, access to clean air and water, and better lives for millions of people around the world. The CFC website is located at: <http://cfc.arc.nasa.gov>



### Tennessee firm awarded NASA contract

Ames Research Center has awarded a three-year contract valued at \$92.6 million (including options) to Sverdrup Technology, Inc., of Tullahoma, TN, to provide research and engineering development services to the Center.

Total value of the contract, including options, is \$92,671,514. Under the terms of the contract, Sverdrup Technology, Inc. will provide project management, systems engineering, design and development of mechanical, electrical and information systems, fabrication, integration and testing, deployment and limited operations support, configuration management and control and technical writing.

The contract includes two options to extend the contract for one year. This is a cost-plus-award fee completion form, performance based contract.

## Employee Appreciation Day

### Exchange 'Free lunch' is big hit

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nesses. From the reaction of Center employees, the appreciation runs just as strongly in both directions.

What a crowd! A count of food and beverage consumption combined with the tally of entries



into the free raffle yielded estimates of a 4,000 plus turn out for the gala event. It just goes to show, as one person observed, "promise people free food and soft drinks, throw in live entertainment, great prizes and a gorgeous California day, and you'd better get out of the way very quickly or risk being trampled in the stampede."

The idea for Employee Appreciation Day was hatched at an Exchange Council meeting a few months ago. As most Ames people know, the Exchange is a non-profit, employee-run institution designed to further the morale and welfare of all on-site Center employees. The Exchange pursues its mission through the conduct of recreational activities (such as supporting the Center's softball leagues) and related programs designed to enhance the quality of workplace life for

Ames people. The Exchange funds its programs through the operation of the Gift Shop, the Ames Café and mobile food service contract, vending machines and related efforts.

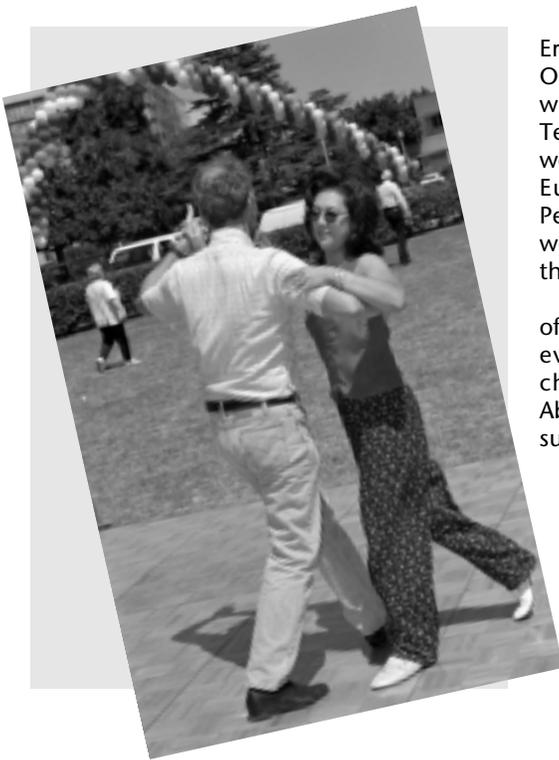
In the past, the Exchange has put on 'thank you' events, such as the free lunch that followed last year's hugely successful Ames Open House, and has provided the financial backing for events such as the Multicultural Street Fair. But never had the Exchange attempted anything on quite this scale!

The menu for the day included barbecued Cajun chicken, garden burgers, Italian sausage, potato salad, corn on the cob, cookies, chips, ice cream and soft drinks. Despite frequent replenishment, Exchange members staffing the booths reported that "it was just about impossible to keep up with the seemingly never-ending lines of hungry hordes!"

Entertainment at Employee Appreciation Day was provided by the classic jazz quartet of Doug Zuehlke, Mike Dial, Dave Miller and Gary Montrezzo. Information booths representing the various recreational clubs at Ames, DART, Space Camp, the Child Care Center, and many others were staffed by able volunteers. Beverage travel mugs and other gratuities were available to those lucky 2,500 or so fortunate enough to be the first in line. Finally, a series of 16 donated prizes were given away. The Grand Prize winner of a Space Camp gift certificate



# Employee Appreciation Day



was Adrienne Erwin of SCSC. DMJM's Angela Ortega won the mountain bike, while Lee Morgan, Sunny Wagstaf, Terry Del Vecchio and Sam Rangel won gold necklaces. Space Camp, Eurest, Java Station, Cysco, Pepsico and the Ames Exchange were the generous purveyors of the donated prizes.

Pretty much everything went off without a hitch at this first-ever, centerwide, Ames Exchange-sponsored free lunch. About the only problem was the success of the event itself, and

the inevitable long lines that it occasioned. Although everybody seemed to be in good spirits, a 30-40 minute wait was the ultimate price that everybody ending up paying for this particular 'free lunch.' So, perhaps we don't have to rewrite our fundamental economic laws at all -- there really ISN'T any such thing as a free lunch. But don't try telling that to the large crowds that enjoyed this event or the enthusiastic supporters whose only real question at the conclusion was, "when is the Exchange going to do this again?"

BY DAVID MORSE



photos by Dominic Hart

## Center Briefs

### **Far-flung galaxy clusters may reveal fate of universe**

A survey of galaxy clusters by NASA's Hubble Space Telescope has found what could be some of the most distant clusters ever seen. If the distances and masses of the clusters are confirmed by ground-based telescopes, the survey may hold clues to how galaxies quickly formed into massive large-scale structures after the 'Big Bang', and what that may mean for the eventual fate of the universe.

According to theoretical models, if the clusters turn out to be massive and very distant, it could imply that the cosmos does not contain enough matter for gravity to stop the expansion of the universe. These models predict that such a low-density universe would have built most of its galaxy clusters long ago.

### **International candidates join 1998 astronaut class**

A cadre of international astronaut candidates has arrived at NASA's Johnson Space Center, Houston, TX, to begin training as members of the 1998 Astronaut Class.

The international candidates, from Brazil, Canada, France, Germany and Italy, will train as mission specialists for future Space Shuttle and International Space Station flight assignments.

"The class of 1998 continues our international cooperation in space as we begin assembly of the International Space Station," said David C. Leestma, director of flight crew operations. "We welcome our international astronauts and the entire class. They have a lot of work and a very exciting time ahead of them."

### **Scientists observe tall chimney cloud in hurricane Bonnie**

NASA researchers have obtained compelling images from Hurricane Bonnie showing a storm cloud towering like a mountain, 59,000 feet into the sky from the eye wall. The images were obtained on Saturday, Aug. 22, 1998, by the world's first spaceborne rain radar aboard the Tropical Rainfall Measuring Mission (TRMM), a joint U.S.-Japanese venture. Launched last fall, the TRMM spacecraft continues to provide exciting new insight into cloud systems over tropical oceans.

"It looks like a skyscraper in the clouds," said Dr. Christian Kummerow, TRMM Project Scientist at NASA's Goddard Space Flight Center, Greenbelt, MD. "This is the first time that TRMM's precipitation radar has seen a structure of this type in a hurricane approaching the U.S. East coast."

## 80-year-old Ames engineer glides off mountain top to celebrate birthday

Normally it takes about 16 minutes to glide 3,200 feet from the top of Glacier Point to the valley floor below at Yosemite National Park, CA. But this time Seth Anderson, NASA engineer, savored his hang-glider ride for 20 minutes as he rode thermals during a recent flight to celebrate his 80th birthday.

He glided past cliffs, coniferous trees and by Yosemite Falls which was still running strong with water; by this time in the season the falls are normally weak at best.

"It was 98 degrees Fahrenheit that weekend in Yosemite," said Anderson, a researcher who studies human factors for NASA's remotely piloted aircraft program at Ames. Human factors engineers examine the interactions between human beings and aircraft.

"Six other hang-glider pilots were there, but I was the last one off, and they were all waiting for me to crash, but I made a perfect landing," he said.

"It felt mildly warm as I started my flight," he said. "There were thermals around Yosemite Falls, and I rode them for about 5 minutes."

His wife, Libby, had already begun to drive down to the valley floor to meet him. "It takes her about 40 minutes to drive down, and it normally takes me about 15 minutes to fly," he said.

A small group of people were waiting to greet him at the end of his flight. "I had a great flight, and I landed within 50 feet of the people," Anderson said. "The grass was still wet with morning dew, green and about 2 feet high."

Anderson said his wife just said "good job - happy birthday." His birthday is on September 22, and his special flight took place about 3 weeks early. "The area was to be closed on my birthday," Anderson explained.

"I might take another flight off a high place in Ed Levin Park on my real birthday, but it won't be as exciting as this flight was in Yosemite," he said. From Interstate 680 east of Milpitas motorists often can see hang-gliders flying from tall hills in Ed Levin Park.

When he was asked how he is able to hang glide at 80 years of age, he said, "I weight train two times a day, five days a week, and I run a-mile-and-a-half every morning," he explained.

Hang gliding, Anderson said, is a spectacular recreational sport. "I started 17 years ago. The hang-glider is a NASA spin-off from space research. "It was



Anderson with his glider on top of Glacier Point at Yosemite.



Anderson gliding over Yosemite Valley after taking off from the top of Glacier Point.

originally called a Rogallo Wing, for Francis Rogallo who in the early 60s experimented at NASA's Langley Research Center, Hampton, VA, with a paraglider as a possible landing method for space capsules," said Anderson. "If it had been used for the two-person Gemini capsule, astronauts could have landed on terra firma instead of parachuting to water landings."

Although NASA discontinued the paraglider concept, private companies picked it up, and a multi-million dollar hang-gliding industry was born, Anderson said.

To allow Yosemite visitors to see the park from a bird's eye view, Anderson has decided to donate a hang gliding video he produced to Yosemite for playback in the visitor center. Visitors will be able to see many scenic views of the valley from a unique vantage point.

BY JOHN BLUCK

## Calendar

**Jetstream Toastmasters**, Mondays, 12 noon to 1 p.m., N-269/Rm. 179. Guests welcome. POC: Jenny Kahn at ext. 4-6987 or Pam Walatka at ext. 4-4461.

**Ames Bowling League** meets at Palo Alto Bowl every Tuesday at 6 p.m. The league is in need of substitute bowlers. POC: Mina Cappuccio at ext. 4-1313.

**Ames Child Care Center Board of Directors Meeting**, Wednesdays, 12 noon to 1 p.m., N-213/Rm. 204. POC: Debbie Wood at ext. 4-0256.

**Ames Sailing Club Meeting**, Sept 10, 11:30 a.m. to 1 p.m., N-262/Rm. 100. POC: Greg Sherwood at ext. 4-0429.

**NFFE Local 997 Union General Meeting**, Sept 16, 11:30 a.m. to 12:30 p.m., Bldg. 19/Rm. 1040. POC: Marianne Mosher at ext. 4-4055.

**Ames Asian American Pacific Islander Advisory Group Meeting**, Sept 17, 11:30 a.m. to 1 p.m., N-241/Rm. B2. POC: Daryl Wong at ext. 4-6889 or Brett Vu at ext. 4-0911.

**Ames Amateur Radio Club**, Sept 17, 12 noon, N-260/Conf. Rm. POC: Walt Miller, AJ6T at ext. 4-4558.

**Native American Advisory Committee Meeting**, Sept 22, 12 noon to 1 p.m., Ames Café. POC: Mike Liu at ext. 4-1132.

**Hispanic Advisory Committee for Employees**, Oct 1, 11:45 a.m. to 12:30 p.m., N-239/Rm. 177. POC: Carlos Torrez at ext. 4-5797.

**Environmental, Health & Safety Monthly Information Forum**, Oct 1, 8:30 a.m. to 9:30 a.m., Bldg. 19/Rm. 1078. POC: Linda Vrabel at ext. 4-0924.

**Ames African American Advisory Group Meeting**, Oct 1, 11:30 a.m. to 12:30 p.m., N-241/Rm. 237. POC: Mary Buford Howard at ext. 4-5095.

**Nat'l Association of Retired Federal Employees, S.J. Chapter #50, Meeting**, Oct 2, at the Elk's Club, 44 W. Alma Avenue, San Jose. Social hour: 10:30 a.m. Program & business mtg. follow lunch at 11:30 a.m. POCs: Mrs. Leona Peery, President, (650) 967-9418 or Earl Keener, Public Relations, (408) 241-4459.

**Ames Contractor Council Meeting**, Oct 7, 11 a.m., N-200/Comm. Rm. POC: Greg Marshall at ext. 4-4673.

**Professional Administrative Council (PAC) Meeting**, Oct 8, 10:30 a.m. to 11:30 a.m., Location TBD. POC: Janette Rocha, ext. 4-3371.

## Ames Classifieds

Ads for the next issue should be sent to [astrogram@mail.arc.nasa.gov](mailto:astrogram@mail.arc.nasa.gov) by the Monday following publication of the present issue and must be resubmitted for each issue.

Ads must involve personal needs or items; no commercial/third-party ads and will run on space-available basis only. First-time ads are given priority. Ads must include home phone numbers; however, Ames extensions will be accepted for carpool and lost and found ads only.

### Housing

Room for rent in Mountain View. Available on 10/1. \$480 per month plus deposit and utilities. Call (650) 967-9135.

### Transportation

'84 Lincoln Town car, new engine, body & interior 'as is', need TLC, runs great. \$2,000 or B/O. Call (408) 264-4627.

'87 Toyota Camry, 4dr Sedan, 4 cyl, auto, AC, 98K, orig. owner, \$4,000 or B/O. Call (408) 253-8473.

'91 Integra LS Special Ed, 73K mi. \$7,900. Call (408) 955-9122.

### Miscellaneous

Wanted: Sharp Wizard 128KB Electronic Organizer. Marion Hansen, (408)252-8609

67" slalom waterski blank (no bindings), Connelly Concept, never used, in box, ski case. \$125; TI 75MHz pent. laptop. 1.2 G HD, 32 mb RAM, CD ROM, floppy drive, SCSI PCMCIA, Ext Syquest. w/3 cart., HP 320 printer, 28.8 modem card, MS Office, other SW. \$950; PowerMac 7100/80 1GB, 40mb RAM, CD, Ext. Syquest EZ Drv. w/ cart, 700 M b ext. HD, HP color printer, NEC 15" monitor, keybd, mouse, trackball, Misc. SW. \$850; Quality dark oak computer stand \$350; couch - 2 piece sectional, Bassett, 2 yrs old, seldom used, Orig. \$1,300, sell \$800. Call (408) 955-9122.

Selling one week or one weekend with adult to Spacecamp for \$550. Call (408) 735-1411.

Qn waveless H2O bed, microwave, sm. electrostatic air cleaner, rear-mount bike rack, black bureau. Jeff (650) 964-0496.

Wanted: Inexpensive dorm-size refrigerator. Jeff (650) 964-0496.

Trade: fridge, large (28 cu ft) black side-by-side, 1 year old. Trade for next smaller size. Jeff (650) 964-0496.

New PhotoMaker 3F ISA 16/32 bit Color flatbed scanner. Paid \$99 will sell for \$60. Under warranty, works great with Win95/98. Changed to Windows NT. Rick (209) 833-8730.

Pool table - 8' regulation size w/3/4" slate, red felt, white wood frame with French pockets. Good condition. Also has ping-pong board layover top. Located in Cupertino, \$800. Call (408) 996-3891.

Wanted: Weight lifting equipment, bench press, leg attachment and weights. Call (408) 335-4801.

Early small block Ford boat motor. Complete with V-drive. \$350 or B/O. Can deliver. Call (408) 335-4801.

One-month old Whirlpool Gold heavy-duty washer \$450; new queen-size bed (mattress, box, and frame) \$350. Must sell due to relocation. Call (408) 379 7794.

### Carpool

Need carpool mate from Felton, Scotts Valley or through Boulder Creek. Hours are from 7 a.m. to 4 p.m. Rob at ext. 4-2592 or (408) 335-4801.

## Ames Retirements

Name	Code	Date
Sherwood Chang	SSX	8-07-98
Donald E. Schilling	JH	8-29-98
Angie Salter	DE	8-31-98
Eugene H. Bekstrom, Jr.	SSA	9-03-98
Steven A. Timmons	FMD	9-03-98

### Vacation rental

Houseboat for rent on "Trinity" Lake in No. CA (Claire Engle Lake). Sleeps 8, kitchen, bathroom w/ shower. Floating heaven. \$1,200 week. After Sept 9, \$850 per week or \$480 for 3 days (until October). URL site: [www.wildhorses.com/houseboat.html](http://www.wildhorses.com/houseboat.html) or email at: [pam@wildhorses.com](mailto:pam@wildhorses.com)

Lake Tahoe-Squaw Valley-Townhse, 3bd/2ba, balcony view, horseback riding, hiking, biking, golf, river rafting, tennis, ice skating, and more. Summer rates. Call (650) 968-4155 or email at: [DBMckellar@aol.com](mailto:DBMckellar@aol.com)

### Lost & Found

Moffett Field Lost and Found may be reached via ext. 4-5416 at any time. Residents and employees at Ames Research Center/Moffett Federal Airfield may also use Internet browser at: <http://ccf/arc.nasa.gov/codejip/lostFound.html> to view a list of found property and obtain specific instructions for reporting lost or found property and how to recover found property. You may also contact Moffett Field Security Police Investigations Section: ext. 4-1359 or email at: [mfine@mail.arc.nas.gov](mailto:mfine@mail.arc.nas.gov).

Lost: microwave oven disappeared from Bldg N-246 breakroom, please return, no questions asked. Call ext. 4-5335.

## Stein memorial

A memorial service for Dr. Seymour Stein, M.D., former Chief of the Ames Medical Office who passed away in June, will be held on Friday Sept. 11, 1998, at 3 p.m. at the Temple Beth Jacob, 1550 Alameda de las Pulgas in Redwood City. All of his friends, colleagues and associates are invited to attend to pay their last respects and celebrate Dr. Stein's life and accomplishments.

### Astrogram deadlines

All Ames employees are invited to submit articles relating to Ames projects and activities for publication in the *Astrogram*. When submitting stories or ads for publication, submit your material, along with any questions, in MS word by e-mail to [astrogram@mail.arc.nasa.gov](mailto:astrogram@mail.arc.nasa.gov) on or before the deadline.

DEADLINE	PUBLICATION
MON, SEP 7	FRI, SEP 18
MON, SEP 21	FRI, OCT 2

## Blood Drive scheduled

The American Red Cross will hold a blood drive at Ames on Thursday, September 10 from 7:30 a.m. to 3:30 p.m. It will be located in the ballroom of building 3, the Moffett Training and Conference Center.

All medically eligible donors are invited to participate. Resident staff including contractors, students and civil service are encouraged to donate blood to maintain blood supply.

Information is posted on the world wide web. To make an appointment, go to the location site at: <http://dq.arc.nasa.gov/dqh/blooddonation.htm>, click on Register Now To Give Blood, choose a time slot and you're done.

For more information on the blood donation process, please contact Chaz Czaplicki at ext. 4-6942.

## New players wanted

NASA ultimate frisbee. All levels welcome. Thursdays, 12:30 p.m. at Orion Park (outside gate 18, across the street from the Visitor Center). Thursday September 24, "New Players Welcome Celebration" Friday, October 16, 5pm -- Annual BBQ, party, and disc.

## Women's Equality Day at Ames



The Ames Advisory Committee for Women (ACW) set up the display for Women's Equality Day on August 26 in Building N-241.

photo by Tom Trower

## Volunteers sought

Ames Combined Federal Campaign (CFC) is an annual campaign serving the charitable needs of Ames employees. CFC is currently seeking volunteers for keyworker, captain and other campaign positions. Volunteers will get the satisfaction of helping a charitable cause. Please call Bob Lopez at ext. 4-0097 or send e-mail to [blopez@mail.arc.nasa.gov](mailto:blopez@mail.arc.nasa.gov)

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