

THE AMES

Astrogram

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

AMES RESEARCH CENTER, MOFFETT FIELD

July 10, 2000

on-line at: <http://ccf.arc.nasa.gov/dx/>

Ames celebrates two injury-free work years

Ames achieved an exceptional milestone recently, unparalleled in NASA or outside. The civil servant lost-time injury rate for the last two years is ZERO! That means that no one has lost any time from work for any occupational injury or illness since May 1998.

This amazing result was achieved because all Ames employees made the right moves in their work areas and because everyone committed to the joint goal.

In recognition of this terrific achievement, a free lunch was sponsored by the Ames Exchange Council for all Ames employees in front of building N200 on June 29.

Daniel Goldin, NASA Administrator, presented a crystal "Mission Success Starts With Safety" award to Dr. Henry McDonald. Goldin emphasized that NASA's top priority is safety.

more photos on page 7



photos by Astrid Terlep

MLC Diversity Dialogue Groups return to Ames

The Multicultural Leadership Council (MLC) is about to embark on a new phase of its Diversity Dialog Groups (DDGs) program. DDGs have been extremely popular and successful in the past and promise to be even more so as we move forward. To make the program successful in influencing individuals and enhancing the work environment, it is essential that all Ames personnel commit to the program and consider active participation.

What are DDGs and why is the MLC sponsoring them? Some history is instructive. The MLC is an Ames advisory organization dedicated to promoting the full utilization of Ames' multicultural work force. It is diverse in its makeup and proactive in its style. The MLC consists of Ames employees at all levels, across disciplines and organizations, who have joined together to address centerwide issues. The MLC promotes programs designed to move the Center toward a system that demonstrates the value of diversity in all of its forms. One of the MLC's major projects was to establish phase one of the Diversity Dialogue Groups at the Center in 1994. Phase two was conducted in 1996. In this year 2000, phase three of the program is being implemented.

The goal of the Diversity Dialogue Group

program is to establish small, heterogeneous groups of people, meeting on a regular basis in a safe environment, led by trained in-house facilitators, to learn about



the issues created by differences. Through "dialogue," individuals learn about and value differences, examine their own stereotypes and assumptions, develop more effective communication skills, and are exposed to tools to work more effectively and cooperatively with one another. Through this learning experience, participants in the groups can collectively create a positive working environment to benefit the orga-

nization, as well as the individuals involved.

Project coordinators form dialogue groups of approximately 7-10 members each, including facilitators. They encourage diversity in each group in terms of gender, ethnicity, and organization. Groups meet for about 4 hours per month for at least a 6-month period to discuss issues related to race, gender, life experiences, sexual orientation, organizational change, fairness, equity, aging, the value of differences and any other issues agreed upon by each group.

The MLC will set up an information table in the Ames Café during July, and the Human Resources Division will send out a training announcement during that same time period. The deadline for signing up for this year's round of DDGs is July 24. Groups will begin meeting in early September.

Ames senior management strongly supports the DDG program and the MLC's efforts at facilitating cultural diversification and understanding in the Ames workplace. They encourage all Ames employees to become a part of this important program.

For more information or to volunteer to participate in one of the groups, please call the DDG project coordinator, Mary Bravo at ext. 4-5622.

BY SHEILA JOHNSON AND DAVID MORSE

Communication for the information technology age

Information and Happenings

Ames engineers design and build geodetic targets

The Ames Systems Engineering (FE) and Aeronautics and Space Flight Hardware Development (FM) divisions recently worked together to design and fabricate 50 geodetic targets for Stennis Space Center's Commercial Remote Sensing Office.

The targets will be used to verify and validate NASA's Commercial Remote Sensing systems. By presenting a group of geodetic targets that have been accurately positioned, the remote-sensing devices can be readily calibrated. The geodetic target system will be used in conjunction with other targets to measure other characteristics, such as resolution and reflectivity.

Codes FE and FM developed a de-



Geodetic target installed at the north end of Zook Road next to the runway at Ames.

College offers onsite classes

College of Notre Dame's Master of Science in Systems Management (MSSM) degree has a long, successful presence in the Bay Area, meeting the needs of managers working in organizations such as the Air Force, NASA, Lockheed Martin, Sun and Hewlett-Packard as well as dot coms.

Engineers, software and hardware developers and managers and human resource and marketing professionals have developed skills for managing people, technology and projects in these high-tech environments.

Beginning this fall, the MSSM becomes the Masters of Science in Management (MSM) degree. Although the graduate degree name is changed, the program fully retains systems management principles as its curricular center for managing people and projects using information technology.

Communication challenges are the primary reason. In the Bay Area, "systems management" refers to the technical configuration of computer systems. This degree is based on a broader definition of "systems management" foundational to a range of management concerns, from organizational development to operations research. The name change clarifies that

this degree uniquely serves Bay Area professionals from all organizational functions who desire vision and skills to manage in our complex and rapidly changing world.

The new name "more accurately reflects the content of the program to the professional community, including colleagues, potential employers, prospective students and the general public," stated an MSSM alumna.

"I am going to master the science of management, by completing this degree and gain the knowledge I need to manage in the high-tech environment today and plan to meet the challenges of the future," said a current student.

The MSSM is offered in Building N-241, Monday, Tuesday and Wednesday evenings from 5:30 p.m. to 9 p.m. Classes are also offered at College of Notre's Ames main campus in Belmont. Courses often include Internet-augmented online learning.

For more information about the program and to arrange a personal information meeting, contact the MSM at (650) 524-9830 or email to: mssm@cnd.edu.

Visit the program site at <http://www.ncal.verio.com/~mssm>

sign that allowed for portability, ease of installation and accurate positioning. Codes FE and FM provided prototype hardware for evaluation, then fabricated 50 units and shipped them to Stennis within a 2-month period. The frames were being loaded on the shipper's trailer as the targets were being completed. In total, this effort demonstrated the concept of concurrent design/fabrication at its limit.

BY BOB KING

Safety suggestion awards presented

In 1999, a new program was announced at Ames, where civil servants and contractors could win a \$300 award for the best qualifying safety suggestion given to the Safety Office in any month. All suggestions have been appreciated and sometimes it has been difficult to determine the winner because several have been very good.

We want to congratulate those who have been winners in the program. They were: Janet Jarmann (JH), Lawrence Giver (SGP), Gail James (JH), Thomas Spalding (FM), Phil Facciola (JFP), Paul Espinosa (SLE), Mariano Perez (FOW), Kathleen Giffin (N), and David Neri (IHS).

We hope you will continue to use the forms available at many locations around the center to send in your suggestions. If after reading the submittal forms you have additional questions, contact Jennifer Chan at ext. 4-5602.

Sally Ride visits U.S. Space Camp

U.S. Space Camp hosted a book signing on June 30 for Sally Ride. Ride's latest book is entitled "The Mystery of Mars." Sheila Johnson (right) of the Office of Communication and Development (Code DX) is shown waiting in line to meet Ride (left) at U.S. Space Camp.



photo by Victoria Kustmir

An old-fashioned employee picnic

All Ames employees are invited to come to the Exchange-sponsored employee picnic scheduled for August 12 from 11 a.m. to 5 p.m. at Coyote Ranch, near Gilroy. There will be a BBQ, beer, wine and some soft drinks. There will also be a dunk tank for charity, children's games and gunny sack races. So it'll be loads of fun for the family! Cost is \$5 per ticket.

If you are interested in attending or would like more information, contact Jodi Bulaich at ext. 4-0818 for tickets or talk to any Ames Exchange member.

Ames' FFC wins major air safety award

Ames' two-story airport simulator that can evaluate planned airport changes recently won an award for the most significant contribution to aviation safety and efficiency in the western United States.

The simulator, called "FutureFlight Central," can create "virtual airports" in its computer mind to permit air traffic controllers and planners to test new airport designs and modifications of future and existing airports. The facility is a walk-in, full-scale, 360-degree simulator that can realistically test runways, landings, ground traffic and many other airport factors in a realistic, computerized world.

"We recognized those within the industry who have made significant contributions to the safety and efficiency of the air traffic system," said Neil Bennett, Director of the Western Regional Air Transport Association of America, Inc., (ATA), Los Angeles, CA. ATA and the Federal Aviation Administration (FAA) presented the forum in June in Reno, NV.

"Engineers can identify future problems and can try solutions in a safe setting, the computer's virtual world," said Nancy Dorigi, who manages the FutureFlight simulator at Ames. Dorigi made a presentation about the new NASA simulator during the forum.

The facility can house as many as a dozen air traffic controllers, and it can represent the busiest U.S. airport towers in size and capability.

"The FutureFlight Central team is especially honored to receive this award from the airline industry because of the major role they have in guiding technology advancement within the air transportation system," Dorigi said. "I see this as a strong vote of confidence for NASA to continue to apply its expertise in information technology to civil aviation problems."

During the forum, NASA announced that the first airport customer scheduled to use the FutureFlight Central simulator is San Francisco airport (SFO), one of the country's largest and most complex. The airport is planning changes to increase its efficiency in an attempt to reduce delays that now plague the airport during bad weather.

"We can represent any airfield in existence or as planned for the future," Dorigi said. "We can measure the impact of a change on the airport's capacity, and let the controllers try it first-hand, all before anything is built."

"Ames' FutureFlight Central hopes to save airports costly design errors by permit-

ting planners to easily experience different, highly realistic versions of their airport designs and, most importantly, observe how real people work inside these future environments," said Dr. Paul Kutler, deputy director of the NASA Ames Information Systems Directorate.

The simulator's artificial world changes in real time. Scenes evolve, in the same manner that real-world changes occur. In the simulator world, airplanes not only come and go, but weather changes. Consoles are at each controller's location showing radar, weather maps, runway lights and touch-screen controls as well as other readouts.

After putting a new airport data set into the computers, FutureFlight Central researchers can switch to the new artificial airport in moments.

Rearranging furniture in the simulator will take longer than activating a new com-

puterized airport, Ames technicians noted.

Other unique features of Ames FutureFlight Central include: capability to move the tower "eye point" to any location, including a "pilot eye view"; precise controls to simulate weather, time of day, cloud coverage and lighting; a voice and data communication network, allowing ground-to-tower and air-to-tower human interaction; and video record and playback, allowing analysis of human performance and decisions. More FutureFlight Central information is on the Internet at: <http://ffc.arc.nasa.gov>

The June ATA/FAA Reno workshop addressed the special needs and requirements of airspace users including airlines, general aviation, business, the military and others.

BY JOHN BLUCK 

Emergency preparedness exercise

Education & Awards

Space settlement design contest winners visit Ames

More than 40 students, educators and parents spent Monday, June 19 touring

sign contest. This year's contest included entries from over 560 students with 31

18 states. The grand prize winners were five high school students from Ireland. For contest results and details see: <http://lifesci3.arc.nasa.gov/SpaceSettlement/Contest/Results/2000/>. In addition to the general tour, students participated in learning activities at the Ames Aerospace Encounter and visited the 80 X 120 wind tunnel, FutureFlight Central, and the NAS visualization and computer labs.

The grand prize winners from Ireland presented their space settlement design to a group of senior scientists assembled by Al Globus (contest creator) on June 27.

Credit goes to all Ames volunteers who provided support in making this exciting and unique educational experience for all the tourists.

The contest was divided into two separate categories, 6 - 9 and 10 -12 grade divisions. Students design their space settlements and related materials and then submit their entries to Ames for judging. Teachers use the contest as an instructional thematic in their science curriculum. The contest promotes team building, space physics and project-web based learning in addition to addressing national science standards.

Space colonies are seen as permanent communities in orbit, as opposed to living on the Moon or other planets. The work of Princeton physicist Dr. O'Neill and others have shown that such colonies are technically feasible, although expensive. Settlers of the high frontier are expected to live inside large air-tight rotating structures holding hundreds, thousands or even millions of people along with animals, plants and single-celled organisms vital to comfort and survival. There are many advantages to living in orbit; zero-g recreation, environmental independence, plentiful solar energy and terrific views, to name but a few.

There is plenty of room for everyone who wants to go; the materials from a single asteroid can build space colonies with living space equal to about 500 times the surface of the Earth.

Entries for next year's contest are due on March 31, 2001. Encourage your children and teachers to participate. Materials that support space settlement activities can be found at: <http://lifesci3.arc.nasa.gov/SpaceSettlement/teacher/>. The contest and related Web page are funded and operated by Ames' Code S.

BY BRYAN YAGER 



photo by Bryan Yager

Space settlement design contest winners gather outside the Ames Visitor Center under the 1/3 scale model of the Space Shuttle and in sight of the world's largest wind tunnel.

Ames. The students are award winners in the seventh annual Space Settlement De-

teachers assisting. Submissions came from Austria, Canada, Ireland, Macedonia and

Safety is Ames' mission One!



photo by Tom Trower

NASA Administrator Daniel S. Goldin presents Ames Center Director Henry McDonald with an Agency award recognizing two years without a lost-time accident at the Center. At the June 29 ceremony, McDonald also recognized Goldin for his determined and consistent leadership of safety issues at NASA.

Celebration & Reunion

SHARP celebrates 20 years with class of 2000



Pictured on the left are the Summer High School Apprenticeship Research Program (SHARP) students with their mentors, program coordinator Judith Segura and assistant coordinator Megan Ribbe. SHARP apprentices will conduct research with their mentors on site at Ames from June 19 through August 11, 2000.

photo by Ryan Trower

Dryden to host NACA alumni reunion IX

September 14 - 17 will mark the 54th anniversary of the High Speed Flight Station (HSFS) Muroc Unit, today known as Dryden. Founded as a support unit for the X-1 rocket plane supersonic research flights, Dryden has evolved from a small desert outpost into the nation's premiere flight research facility.

This year also marks the 57th anniversary of the X-planes specifically designed as flight research tools to provide data that can't be obtained from wind tunnels or simulators.

The X-plane tradition is still alive and well at Dryden with a new generation of X-planes.

Some examples include the X-34 Advanced Technology Demonstrator, the hypersonic X-43, the X-38 vehicles that are leading up to a Crew Return Vehicle from the International Space Station and the X-33 Advanced Technology Demonstrator.

Much has changed since the National Advisory Committee for Aeronautics (NACA) came to Dryden in 1946. However, one thing that hasn't changed is that Dryden researchers still stand on the leading edge of technology to expand the boundaries of flight.

The reunion committee is looking for names, addresses and/or telephone num-

bers of anyone who was employed by NACA at Edwards between Sept. 15, 1946 and Oct. 1, 1958.

The information can be mailed to NACA Reunion IX, P.O. Box 1589, Lancaster, 93539-1589.

The information also can be sent to the Dryden History Office in building 4800, room 1101A. The History Office can be reached at (661) 258-7458 from 9 a.m. to 3 p.m. Tuesday through Thursday. People can also call Betty Love at (661) 265-8049, or Pat Kenner at (805) 995-3430.



Award of merit given

Marla Harrison, Chief of the Office of Development, Code DXD, (second from left) receives an award of merit from a representative of the California Chapter of the American Planning Association on June 23 at Fort Mason. Mary Kenny (second from right) and Lisa Lockyer (right) both of DXD, were also on hand to see Ames honored for its planning work on the proposed new NASA Research Park.

In July, Ames will be hosting a series of "public scoping" meetings to permit public comment on the proposed research park.

For further information and the schedule of meetings, see the June 26 Astrogram (p.5).

Safety & Human Interest

Remembering Ames' Hangar 2

A recent Astrogram article discussed the conversion of Ames' hangar 2 (N-211) to accommodate the coming Stratospheric Observatory for Infrared Astronomy (SOFIA) 747 aircraft. For me, the article brought back memories — some fond, some scary. I thought it might be of interest to current Ames residents to hear some of those early hangar 2 stories.

When I joined the National Advisory Committee for Aeronautics' (NACA's) Ames Aeronautical Laboratory in 1947, hangar 2 was known as the 'new hangar' because it was only about one year old, as contrasted to Ames' hangar 1 (N-210) which had been built in 1940. N-211 could handle larger airplanes, and had integrated shops to support the aircraft. In addition, it had offices for the engineering staff and flight operations.

My first job at Ames was to assist Dr. G. Allan Smith in developing a high-speed camera to photograph ice buildup on the rotating propellers of a Curtis C-4 icing-research airplane. We had big problems, and one day while still working on the camera at about 6 p.m., I observed Smith explaining our problems to an obviously irate older man. After some heated discussion, the stranger shouted, "Damn it, make it mechanical," as he stormed off the plane. After he left, I asked, "Who was that guy?" "Oh, that was Smitty De France, Director of Ames," Smith said. Such was my introduction to Ames management!

Later in 1948, while installing some test

equipment in one of the planes in hangar 2 (yes, engineers frequently installed and



tested their own equipment in those days!), I observed a sad scene. Mechanics were carefully laying out pieces of a wrecked airplane on the hangar floor. The pieces were so small and mangled I could not recognize the plane. I found out that it was a P-51 fighter that Ames test pilot Ryland Carter had been flying back to Ames when it disintegrated in the air over Newark in the East Bay. Pilot Carter was killed in the crash. He was the first of five research pilots who perished during my career at Ames.

In 1950, the Navy brought a prototype troop transport to hangar 2. Named the Constitution, it was gigantic for that period. Although propeller driven, it had two full-length decks for the troops. Through pilot friends, I managed to get a ride on one of the test flights; it was easy to do in those days. Other than the pilots, there was no one on the plane. I roved around the double decks, up and down the spiral staircase in solitary splendor. It was awesome!

By 1963, I was into space projects and thought my days with hangar 2 were definitely over. But it was not to be. The then Director of Development, Bob Crane, asked

me to form a new organization, the Systems Engineering Division. Unfortunately, no offices were available, so Crane manipulated funds to build a frame and sheet rock, double-deck building inside the west end of hangar 2. It was there among the airplanes that the new division performed space studies until the construction of our own building, N-244.

That ended my hangar 2 story, except for one final dramatic event. One day when I was at my desk in N-244, someone dashed in to say that Ames' Convair 990 aircraft had crashed at the end of the runway. We all rushed to the roof where we could see black smoke from the 990 and the Navy Orion which had collided with it. Suddenly, it occurred to me that my son John, a fellow Ames employee, frequently took flights on the Convair in pursuit of his own research projects. In a panic, I dashed from N-244, across the apron, to hangar 2 and into Flight Operations. Someone handed me the flight manifest and, to my relief, he was not aboard. Sadly, I did recognize the names of two of my friends.

Ames' hangar 2 has a rich history and bright future. Some of us denizens of the original hangar 2 can't wait to see the spectacular 747SP SOFIA Observatory sitting in the midst of our old memories.

BY JOHN V. FOSTER

Editor's Note: Ames' hangar 1 (N-210) and hangar 2 (N-211) should not be confused with the Moffett historic Hangar One, or Hangars Two and Three on the former military side.

Safety Snapshots

This feature is the first of a series intended to inform the Ames community about facets of the Ames safety and environmental programs.

When wind tunnels are running, one of Ames' most widespread hazards is clearly heard by all — noise. In machine shops, facility mechanical rooms, and on the tarmacs, many Ames employees are exposed to noise. Ames' hearing conservation program protects employees by measuring sound levels; informing and training exposed employees; reducing noise exposures where feasible and providing ear plugs and muffs where hazardous noise is unavoidable.

When you see a sign warning of continuous or intermittent noise, beware. It is your responsibility to observe these warning signs — they are there to protect you.

Stanleigh Phillips, Industrial Hygiene Programs Manager, says that he has observed the effects of hearing loss among his older relatives. He regards the hearing conservation program as one way to help prevent hearing loss among colleagues here at Ames. He coordinates a biennial survey of the hundreds of noise sources at Ames. One goal is to measure the exposure of each person who works in a high noise area, so appropriate controls can be established.

If you work in an area where noise routinely exceed 80 decibels, you have probably worn or seen the dosimeters used for these measurements. In addition, you may be entitled to an annual hearing test, to ensure that the controls have been effective.

For more information, go to chapter 29, Ames Safety and Health Manual under Safety

on the Web at: q.arc.nasa.gov. You may also contact your branch or division chief to see the most recent noise survey for your building, if you work in a high noise area.



Ames Safety Celebration Lunch

Ames celebrates two injury-free work years

continued from front page



photos by Astrid Terlep

Distinguished Visitors

Cameron visits Ames

James Cameron, the Hollywood mogul who directed "Aliens," "the Abyss," and "Titanic" spent two days at Ames working on his new grand project about the first human mission to Mars. While the real human mission to Mars might be two or more decades away, Cameron's show -- a six-hour mini-series filmed in "documentary-style," as if the mission was already completed -- will launch late in 2001. The project also includes a 3-D IMAX movie and a novel. During the visit, Cameron and his co-author Charlie Pelligrino consulted with local scientists and researchers to make their story line as realistic and accurate as possible.

BY VICTORIA KUSHNIR



"Not bad," said Roger Arno (right) looking at the Hollywood director's sketches of the Mars rover.

photos by Victoria Kushnir



Chris McKay (right) passionately explains to Cameron (left) the principles and effects of terraforming the Red planet.



"This way even we can do it better, faster, cheaper," said Cameron (left), while Pelligrino (right) watched Jim Arnold (center) go through the details of re-entry vehicle design.



photo by Tom Reddy

Gore flies in

Vice President Al Gore landed at Moffett Airfield recently on his way to the San Mateo Adult Resource and Technology Center, where he unveiled a \$2.3 billion proposal. The Administration proposal is designed to give American workers access to the skills and education they need to meet the demands of a changing high-tech workplace.

Specific provisions include: community-based grants to identify and teach skills relevant to the local economy; expanded training for dislocated workers; employer tax credits for technology training; larger tax credits for lifelong learning; and special savings accounts, much like the familiar 401(k), for lifelong learning. Gore was greeted at Ames by Center Director Henry McDonald and Deputy Center Director Bill Berry.

Congressman Walker visit



photo by N.A. Veronica

Former Congressman Bob Walker (center) with Paul Kutler (left) and Bill Thigpen (right, Chief, Engineering Branch, NAS) standing along side the SGI Origin 2800 computer, "Lomax."

Calendar & Classifieds

Event Calendar

Model HO/HOn3 Railroad Train Club at Moffett Field invites train buffs to visit & join the club in Bldg. 126, across from the south end of Hangar One. Work nights are usually on Friday nights from 7:30 p.m. to 9:30 p.m. Play time is Sunday from 2 p.m. to 4 p.m. For more info, call John Donovan at (408) 735-4954 (W) or (408) 281-2899 (H).

Ames Ballroom Dance Club. Tuesdays: Foxtrox 7/11, 7/18, 7/25, Country 2 Step 8/1, 8/8, 8/15, Quickstep 8/22, 8/29, 9/5, Cha Cha 9/12, 9/19, 9/26. 3 levels of classes, from Beg. to Int., 5:15 - 6:45pm. Please email to confirm class location. Women dancers are especially encouraged to join. POC: Helen Hwang.

hwang@dm1.arc.nasa.gov. **Jetstream Toastmasters,** Mondays, 12 noon to 1 p.m., N-269/Rm. 179. Guests welcome. POC: Samson Cheung at ext. 4-2875 or Lich Tran at ext. 4-5997.

Ames Child Care Center Board of Directors Mtg, Every other Thursday (check Web site for meeting dates), 12 noon to 2 p.m., N269, Rm. 201. POC: David Kormeyer, ext. 4-3114. Web site: <http://acc.arc.nasa.gov>

Professional Administrative Council (PAC) Mtg, Jul 13, 10:30-11:30 a.m., Bldg 210, Rm. 115. POC: Leslie Jacob, ext. 4-5059.

Ames Sailing Club Mtg, Jul 13, 11:30 a.m. to 1 p.m., N-262/Rm. 100. POC: Stan Phillips, ext. 4-3530.

NFFE Local 997 Union General Mtg, Jul 19, noon to 1 p.m., Bldg. 19/Rm. 2017. Guests welcome. POC: Marianne Mosher at ext. 4-4055.

Ames Multicultural Leadership Council Mtg, Jul 19, 11:30 a.m. to 1 p.m., Galileo Rm/Ames Café. POC: Sheila Johnson, ext. 4-5054 or David Morse, ext. 4-4724.

Ames Asian American Pacific Islander Advisory Group Mtg, Jul 20, 11:30 a.m. to 1 p.m., N-237/Rm. 101. POC: Daryl Wong, ext. 4-6889 or Margaret Salas, ext. 4-6755.

Ames Amateur Radio Club, Jul 20, 12 noon, N-260/Conf. Rm. POC: Mike Herrick, K6EAA at ext. 4-5477.

Native American Advisory Committee Mtg, Jul 25, 12 noon to 1 p.m., Ames Café. POC: Mike Liu at ext. 4-1132.

Ames Contractor Council Mtg, Aug 2, 11 a.m., N-200 Comm. Rm. POC: David Lawrence at ext. 4-6434.

Environmental, Health and Safety Monthly Information Forum, Aug 3, 8:30 a.m. to 9:30 a.m., Bldg. 19/Rm 1078. POC: Linda Vabel at ext. 4-0924.

Hispanic Advisory Committee for Employees, Aug 3, 11:45 a.m. to 12:30 p.m., N-241/Rm 237. POC: Mary R. Valdez, at ext. 4-5819.

Ames African American Advisory Group Mtg, Aug 3, 11:30 a.m. to 12:30 p.m. POC: Robert Finnie at ext. 4-5230. Contact Robert for meeting place.

Nat'l Association of Retired Federal Employees, (NARFE), San Jose Chapter #50, Mtg, Aug 4, at Hometown Buffett, Westgate Mall, 4735 Hamilton Av, San Jose. Prog. & bus. mtg. at 9 a.m., followed by lunch, \$6.27, in a reserved area. Program starts at 9:30 a.m. followed by lunch. POC: Mr. Rod Perry (650) 967-9418 or NARFE 1-800-627-3394.

All Ames Bowling League, Captains mtg on August 29, Season from Sept 4 to April 17, Tuesdays, 6 p.m., at Palo Alto Bowl. Bowlers needed. POC: Mina Cappuccio, ext. 4-1313 or Carmen Park, ext 4-1215.

Ames Classifieds

Ads for the next issue should be sent to 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; Ames extensions and email addresses will be accepted for carpool and lost & found ads only. Due to the volume of material received, we are unable to verify the accuracy of the statements made in the ads.

Housing

For sale by owner: \$489K, small horse ranch near Watsonville. Royal oaks, California/scenic area. 3 acres w/ trees & lots of open space. 3 bd/2 ba home/family rm w/ fireplace. Front/rear decks w/hot tub rm. 2 car garage w/laundry rm & storage rm. Barn, tack rm, corrals, workshop/electricity. Property fenced & outside lighting. Ron (408) 736-2150. Lv msg or call (831) 722-0130.

Room for rent: pleasant, furnished bdrm with central air in Los Gatos/Campbell area. Available 8/13 for considerate professional or serious student. Shared bathroom. No smoking/pets. Long-term rental preferred. Rental agreement/deposits reqd. Utls. incl. Pls. call (408) 266-7272 and lv msg.

Studio for rent: lrg open bdrm/lvng room comb. with all new pvt. bath, gas fireplace and kitchenette available in July or early/mid August. Central heat, air and utls. incl. Long-term rental preferred. No pets/smoking. Plz call and indicate rental situation and day/evening phone numbers. Call (408) 266-7272.

Housing needed: female and male full-time employed students seeking housing. 1bd/1ba apartment, or large room in house located between San José and Mt. View. Temporary or permanent ok. Need housing by August 31. Quiet, non-smokers, no pets. Beth (408) 629-0869; or email crmlidx@aol.com

Fully furnished 1bd/1ba apt. in Cupertino. Large patio. Excellent location (close to 85). Pool, spa, tennis, fitness, laundry privileges. N/S professional pref. Available from July 21 to September 10. \$1,700/mo. Matthias (408) 255 6554.

Transportation

'70 VW convertible classic, original owner, no smog needed; transmission ok; needs work on top & possibly engine. \$2,000. Esther or Art (650) 961-2732.

'85 Honda Rebel 250cc motorcycle. Great starter bike. Low mileage. Asking \$750. Barry (510) 793-4457 or email: EZrdrdad@home.com

'86 Toyota MR2: 5 speed, A/C, SNRF, AM/FM cass., runs, needs engine work, 123K mls, \$1,500 or B/O. Call (831) 442-0895.

'94 Saturn SC2 5 spd, orig. owner, tip top shape, fully loaded, sun roof, alloy wheels, ABS etc... Brand new clutch, & water pump, 103K, used entirely for freeway commuting \$7,000. Steve (510) 531-8633.

'94 Mercedes Benz, C280 Model, silver/taupe color w/tan leather interior. 6-cylndr eng. 4-dr, sun roof, alrm, 8-speakers, 20+-MPG. Mint cond. 66K mls. \$23,000. Call (650) 321-9008, e-mail: liuhsinmei@aol.com

'95 Chevy Blazer, LT, 4X4. Fully loaded. PW, keyless entry, PL, crs cntrl, tilt, roof rack, prv.glass, leather inter., am/fm cass., a/c, abs brakes, tow pkg., off rd pkg. Much new. 79K mls, \$13,900 or B/O. Bob (408) 736-4039.

Miscellaneous

49er tickets, sec. 53. Pre-season, vs. Denver 8/25. \$80/pair. Call (510) 656-7654.

Dining table and 4 chairs, pine, like new, made in Italy, asking \$300. Call (650) 473-0604.

Mac Performa 6300 CD computer with extended keyboard, 15" monitor, laser printer 4/600 PS, and joystick. \$675 for all. Call (408) 249-3030.

Fitness trampoline. Foldable, still in box. \$200. Call (415) 826-3041.

Two portable evaporative maxicoolers. Very good condition, and an excellent alternative to an air conditioner. \$100 each. Health Rider. Very good condition. \$100. Mary (650) 712-4410.

Looking for kids skating shoes size 9 or 10. Call (408) 733-1906.

Giants tickets for sale. 8/7, 9/6, 9/8 and the rained-out April 16 Diamond Backs rescheduled to 9/23. \$35 for pair of two tickets for each game. Mary, (650) 712-4410.

Vacation rental

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 DBMcKellar@aol.com

Lake Tahoe-Squaw Valley-Olympic Village Inn for 4 people. Full kitchen, TV/VCR, spa, BBQ, free bikes, walk to lifts. \$450 for 4 nights/5 days. 6/18/00 to 6/22/00, Sunday to Thursday. Juliet (650) 321-9008 or email: LiuHsinMei@aol.com for more details.

Time share condo at Olympic Village, Squaw Valley, North Tahoe. Sleeps 4, full kitchen, pool, spas, bikes, ground games, maid service, river rafting, horseback riding, etc. 3 nights/4 days (Thursday + entire weekend) from July 2 thru July 30, discounted to \$300 total. Call (650) 321-9008, e-mail: liuhsinmei@aol.com

Lost & Found

Moffett Field Lost and Found may be reached at ext. 4-5416 at any time. Residents and employees at Ames may also use Internet browser at: <http://ccf.arc.nasa.gov/codejip/pages/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. Call Moffett Field security police investigations section at ext. 4-1359 or email at: mfine@mail.arc.nasa.gov.

Ames public radio

1700 KHz AM radio - information announcements and emergency instructions, when appropriate, for Ames employees.

Weight Watchers begins again

When Weight Watchers® founder, Jean Nidetch, began inviting friends into her Brooklyn home once a week back in 1963 to discuss how best to lose weight, she probably never imagined that her ideas would eventually help over 25 million people worldwide lose unwanted pounds. Trying to lose weight? Weight Watchers can help! Learn about the 10% difference on the 1-2-3 Success program.

Join us for an open house with the "Weight Watchers at Work" program on Monday, July 10, at 11:45 a.m. in the Galileo Room in the Ames Café. To start a new group, a minimum of 18 people and a maximum of 30 people are needed to sign up for the 10-week program that will begin on Monday, July 17. The group meets every Monday at the same time and location. The cost for the 10 weeks is \$99.50, and there will be an option to renew at the end of that time if enough people wish to continue.

Call Dana Davidson at ext. 4-0584 or email her at ddavidson@mail.arc.nasa.gov if you have any questions.

Carpool

Looking for additional rider for East Bay carpool originating in Alameda/ Oakland/ San Leandro. Have two current meeting points (Bay Farm Island and San Leandro). Contact John Rosen at 4-6295, jrosen@mail.arc.nasa.gov, or Call (510) 523-8117.

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 on or before the deadline.

Deadline	Publication
Tues, Aug 1	Mon, Aug 14
Tues, Aug 15	Mon, Aug 28
Tues, Aug 29	Mon, Sep 11

NOTE: No Astrogram on July 24

Volunteers & Visits

Flying hospital lands at Ames



photo by Tom Reddy

The world's only flying surgical hospital was parked at Moffett Field in June. While here, the specially outfitted Lockheed L-1011 aircraft had new medical equipment, donated by Agilent Technologies, installed.

Ames' Office of Development and Communication (Code DX) makes Ames facilities, such as historic Hangar One, available to requesting parties on a cost-reimbursable basis.

Eventually, Hangar One will be the home of the proposed California Air & Space Center.

Volunteer for Ames Speakers Bureau!

Ames Speakers Bureau is looking for volunteer employees to give lectures and presentations at educational institutions, business organizations, service clubs and professional and technical societies.

As our valley continues to develop, re-



Current and past Speakers Bureau volunteers with some of the props available for use in presentations.

quests are coming in weekly for Ames employees to inform the community of NASA's contributions to the nation.

The Ames Speakers Bureau is recruiting NASA employees and/or contractors to be a part of the program. If you enjoy speaking to people and would love to share your expertise, call the Speakers Bureau program and volunteer! Contact Sheila Johnson at ext.4-5054 or the author at ext. 4-4034.

BY VALONNE FINNIE

THE AMES Astrogram

National Aeronautics and
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Ames Research Center
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Managing Editor.....David Morse
Editor.....Astrid Terlep

We can be reached via email at:
astrogram@mail.arc.nasa.gov or by phone
(650) 604-3347