

## McDonald honored for engineering excellence -- named to prestigious National Academy

On Feb. 16, Ames Center Director Dr. Henry McDonald was named to the National Academy of Engineering (NAE) in recognition of his "distinguished contributions" to the field. Election to the NAE is extremely prestigious and is considered among the very highest distinctions that can be accorded a member of the engineering profession.

Membership in the Academy is typically restricted to those who have made "important contributions to engineering theory and practice, including significant contributions to the literature of engineering theory and practice." In addition, the selection committee considers exceptional individuals who have "demonstrated unusual accomplishment in the pioneering of new and developing fields of technology."

The criteria for McDonald's selection spanned both categories. Specifically, he was cited "for leadership of a major national aeronautical laboratory, development of the block implicit method for Computational Fluid Dynamics (CFD), and co-invention of a valuable medical-assist device."

Total U.S. membership in the Academy numbers 2,027, with many members in a retired, emeritus or non-full-time status.

the Silicon Valley. The NAE currently has 21 members with a NASA affiliation, but only 7 are presently active. Goddard has two current active members, while Marshall, Glenn, Langley, Ames and Headquarters each have one.

McDonald joins Administrator Daniel S. Goldin, who is the NAE's only member from NASA Headquarters. Previously elected Ames members, now in a non-active status, include Clarence "Sy" Syvertson and George Cooper. Several other former Ames NAE members, like Dean Chapman, R. T. Jones and Hans Mark, subsequently changed affiliation or have passed away. McDonald is the only currently active Ames NAE member.

McDonald will be inducted along with other members of the class of 2000 on Oct. 22, at the NAE's annual meeting and inauguration ceremony. He will be joined by fellow NASA inductees Norden Huang of Goddard and Robert Sackheim of Marshall in the incoming class of 2000.

BY DAVID MORSE



photo by Tom Trower

Center Director Dr. Henry McDonald accepts congratulations of his senior staff upon being named a member of the NAE.

This year, the election of McDonald and two NASA colleagues virtually doubled active NASA participation in the NAE from 4 to 7. Of the 78 total new NAE electees this year, 10 are from California and 3 are from

## Ames to cosponsor NASAwide data management workshop in April

On April 18 and 19, 2000, Ames Research Center and Oracle will jointly sponsor a data management workshop. The purpose of the workshop is to inform and educate NASA and contractor project managers and researchers from across the entire Agency about the present availability and applicability of a wide range of commercial, off-the-shelf (COTS) database systems.

Yuri Gawdiak of the Computational Sciences Division (Code IC) says that the goal of the workshop is to communicate and share various data management experiences, tools, and lessons learned across the agency. Use of an appropriate COTS product can be much more efficient and have a

lower life-cycle cost than developing and updating needed software products from scratch on a case-by-case basis, according to Gawdiak.

Material covered at the workshop will include presentations and a series of specific case studies covering a diversity of projects - from large to small, in various discipline settings, and using different commercially available data management systems. While the workshop is a NASA-internal informational meeting, attendance is open to all NASA employees and support service contractors agencywide. Gawdiak sees this as the first in what may well be an ongoing series of Ames-sponsored workshops designed to bring the NASA data

management community together to learn and share experiences.

The workshop will run from 7:30 a.m. to 5:00 p.m. each day and will be held at the Oracle Headquarters Corporate Visitor Center at 500 Oracle Parkway in Redwood Shores, California (about 12 miles north of Ames Research Center).

To register online, please go to: [http://ace.arc.nasa.gov/postdoc/t/group/members.ehtml?group\\_id=-759](http://ace.arc.nasa.gov/postdoc/t/group/members.ehtml?group_id=-759) and join the workshop group. For the latest information on the workshop, please go to: [http://ace.arc.nasa.gov/postdoc/t/folder/main.ehtml?url\\_id=37952](http://ace.arc.nasa.gov/postdoc/t/folder/main.ehtml?url_id=37952)

BY DAVID MORSE

### Center Briefs

#### *History of NASA/Army/Bell XV-15 Tiltrotor published by NASA*

The monograph, "The History of the XV-15 Tilt Rotor Research Aircraft -From Concept to Flight " was recently published by NASA Headquarters (February, 2000). The authors, Martin Maisel (ARH /AFDD Flight Projects Office), Demo Giulianetti (Ret), and Daniel Dugan (ARH) worked on this project for almost two years, supported by funding from the NASA Aviation System Capacity Program. The history spans five decades of Ames-led development of tiltrotor technology beginning in 1957 with the XV-3 until the transfer of the XV-15 to Bell Helicopter Textron in 1994. The project was not only about challenging technology developments, but also about the people in NASA, the Army, and industry who brought the concept into being. On February 12, a Publication Inauguration for the document and the authors was held at the Moffett Training and Conference Center. Distribution of the monograph can be expected in the near future.

#### *Ames OH-58C Helicopter supports information technology project*

The Army AFDD Flight Projects Office (FPO) has initiated support of a new Health and Usage Monitoring System (HUMS) activity managed by Dr. Edward Huff of the Computational Sciences Division (Code IC). The project is funded by the IT Base program at Ames and will acquire OH-58C helicopter main transmission vibration data for an array of flight conditions. The project will allow the comparison of aircraft data with results obtained from a ground-based test rig using the same transmission, operated at Glenn Research Center (GRC). A major objective of this effort is to evaluate false-alarm rates of advanced vibration monitoring metrics for helicopter HUMS applications.

#### *Raytheon Team Wins NASA Award for Rotorcraft Support*

The January 2000 issue of Info Exchange (a monthly bulletin for Raytheon ITSS employees) cites a Contractor Council Team Excellence Award to Kenny Cheung, Dexter Hermstad, Doug Hiranaka, Shawna Innoue, Michael Montegut, and Larry Pierce for their "support of the Army/NASA Rotorcraft Flight Controls Group by developing software that analyzes and optimizes the design of flight control systems for both rotary and fixed wing aircraft."

This is a very high honor given each year by NASA to contractor teams who have furthered the agency's mission and as such the competition can be fierce.

## NASA standards products available online

The NASA Technical Standards Program, in collaboration with the NASA Engineering Standards Steering Council, now offers users at all NASA Centers and the Jet Propulsion Laboratory the capability to download full-text standards documents for the listed NASA Preferred Technical Standards. The Web address is: <http://standards.nasa.gov>. This amounts to about 80 percent of the more than 1,000 NASA Preferred Technical Standards products listed on the Website.

This free service is for adopted, non-government technical standards products (currently the American Institute of Aeronautics and Astronautics, American Society for Testing and Materials, Institute of Electrical and Electronics Engineers, and Society of Automotive Engineers), and is avail-

able to all NASA element and contractor users with a nasa.gov domain IP address.

NASA-developed technical standards, plus the Consultative Committee for Space Data Systems and Department of Defense technical standards are available to all users of the Website without charge.

The availability of this full-text technical standards document will be expanded by the NASA Technical Standards program for other non-government standards products as circumstances and resources permit in order to meet the technical standards requirement of the NASA Enterprises Programs and Projects.

The Ames representative on the NASA Engineering Standards Steering Council is Laura Doty, Chief of the Systems Engineering Division (Code FE).

## Boyd buoyed



Jack Boyd, Executive Assistant to Center Director Henry McDonald, stands at the intersection of the new Boyd Road and Mark Avenue. In addition to Mark and Boyd, several other distinguished Ames alumni were honored with the naming of new streets, including R.T. Jones, Charles Hall, James Pollack, George Cooper and Harvard Lomax.

photo by Tom Trower

## Ames Events

### SDB Forum scheduled for March 14 at Ames

On Tuesday, March 14, Ames will host its annual Small Disadvantaged Business (SDB) Forum at the Ames Training and Conference Center (Bldg 3.) from 8:30 a.m. to 12:15 p.m. The purpose of the forum is to allow highly qualified high tech SDBs and women-owned small, businesses and minority educational institutions to present their capabilities to NASA senior management, technical staff, and visitors, and to address questions from a technically-oriented audience.

For the first time, we have a HUBZone firm giving a presentation. (A HUBZone is a historically underutilized business zone, i.e.

an economically depressed tract identified by statute or census data.)

The presenters for this year's forum are: (1) Howard University; College of Engineering, Architecture and Computer Sciences; Washington, DC; with capabilities in artificial intelligence, networking, atmospheric studies, simulation; (2) Digital Interface Systems, Inc.; Youngstown, OH; with expertise in data acquisition systems design, development and instrumentation; (3) Astro Technology, Inc.; Houston, TX; with capability in fiber-optic sensors, robotics, solid rocket motors; (4) Metacomp Technologies, Inc.; Westlake Village, CA;

with R&D capability for computational fluid dynamics software; (5) Metrolaser, Irvine, CA; R&D capability in holography, NDE testing, particle sizing.

Guests will include personnel from various federal agencies (including the Small Business Administration), large prime contractors, women-owned businesses, and SDBs.

All are welcome and invited to attend. If you need more information, please contact Tom Kolis, ext. 4-4690.

### Quest brings aerospace engineers and researchers to classrooms

NASA Quest offers classrooms a view of the world of work at NASA with opportunities for interactions. Aerospace Team Online focuses specifically on the aerospace work at Ames (URL: <http://quest.nasa.gov/aero>). "People at NASA have cool jobs," said Susan Lee, Web developer for NASA Quest. "Whether they are building one-of-a-kind model parts using advanced computerized tools, planning ways to solve air traffic congestion or thinking about designs for access to space, we want to share their excitement about science, math and technology with students." To accomplish this goal, Aerospace Team Online holds Webchats and live Internet Webcasts for classrooms. There are also biographies, journals, online lesson plans, and background materials. The employees and contractors who volunteer for this project are essential. One hundred and twenty-five people have volunteered since the project's beginning in 1997. New volunteers are welcomed and needed.

Teachers, students and NASA Aerospace Team Online members are all enthusiastic about the online Webchat sessions. Ms. Choat from Vienna Grade School said that the first grade students love to ask NASA questions. "The chats are always a great motivator for my students," she said. "The chats give our first grade students the opportunity to formulate questions, and the really neat answers are educational and interesting."

Another teacher, Linda McDermott, said, "The children cheered when they saw their questions appear on the computer screen."

Twelfth-grade student Peter Perkovic said about Ray Oyung, research coordinator for the Fatigue Countermeasures program, "How often do you get to chat with someone like Ray Oyung?" It is especially helpful for people who are ready to decide about their careers. Webchat gives them a chance to meet people from a variety of scientific fields and ask questions about their fields."

NASA Quest volunteer experts agree that the experience is worth the time invested and that participating with students in live interactions can be stimulating. Oyung writes journal articles for the Aerospace Team Online. "Although I don't really know what kind of impact my journal articles are having when I write them," he said, "I definitely find out how useful they are when chat sessions are coordinated. It's amazing how fast an hour goes by answering questions from the kids that more often than not refer back to a topic in one of my journals."

Aerospace research engineer Steve Smith said, "I find career-guidance questions especially rewarding to answer. There is a broad spectrum of interested age groups and abilities. One of the most interesting chat conversations was with a sociology student doing a thesis on how technological advancement in aerospace sciences has changed society."

Perhaps the most compelling feedback came from aerospace engineer Fanny Zuniga, "I really enjoy doing these chats. I would recommend everyone try it at least once. These chats provide a unique opportunity to encourage and motivate youngsters to think about careers in math and science. Clearly, this program is a rewarding experience for both the youngsters and the professionals," said Donald James of the Ames Education Branch.

"NASA Quest Aerospace Team Online is one of the Ames outreach activities that tries to minimize the time requirement on volunteers, while maximizing the value of their contribution to the students," said James.

If this sounds like something you'd like to be a part of, don't hesitate to join the team! To volunteer for this project or for more information, contact Susan Lee at ext. 4-0766 or e-mail her at [slee@mail.arc.nasa.gov](mailto:slee@mail.arc.nasa.gov)

BY PAT KASPAR



### Golden Bay services

Golden Bay Federal Credit Union would like to remind its valued Ames members that at Golden Bay, "The more the merrier!"

For every individual you refer to Golden Bay Federal Credit Union, be it a friend, relative, neighbor, or co-worker who meets the eligibility requirements for membership, a \$5 incentive will be deposited into your Golden Bay Federal Credit Union share account. After all those years of being told that it pays to know the right people, you have finally been given a reason to believe. Call (800) 969-0660 to start earning rewards.

The convenience of its members is also key at Golden Bay Federal Credit Union when it comes to accessibility to accounts. Golden Bay has an ATM located at the Ames Café and extends its ATM service to include thousands of ATMs through the STAR, Cirrus, and AFFN networks, nationwide. Plus, with the hundreds of ATMs available through Bank of the West, you can make deposits quickly and conveniently with no charge. Deposits can also be made at select ATMs displaying a CO-OP Deposit insignia. Golden Bay enables you to get account information over the telephone as well by using its Gold-Line Phone Banking system. Simply dial (650) 968-0717 or (800) 995-6905.

You can also access your account by visiting the Golden Bay web site at [www.goldenbay.org](http://www.goldenbay.org) or <http://www.goldenbay.org> and clicking on the CU Online link.

Golden Bay Federal Credit Union has four branches to serve you with locations in Moffett Field, San Jose, Shoreline, and Sunnyvale. Call (800) 969-0660 for more information.

## Celebrating Black History Month



The Reverend R. G. Moore III leads the crowd in singing the Black National Anthem "Lift Every Voice and Sing." He then delivered an old-style Gospel speech challenging everyone to walk tall, be proud and value and respect "the skin you are in."



Chiki Nwofia (far right) and members of his Oriki Theater group entertain with traditional African music.



photo by CNN

Drue Kataoka displays her Japanese sumi-e artwork, a minimalist style that dates back 2,000 years, at the celebration. The 21-year-old Stanford University student mastered the art at age 17. Of particular interest at the event was her stylized portrait of Dr. Martin Luther King, Jr., (see corner photo).



Lewis Braxton III, Ames' Chief Financial Officer, addresses the sold-out crowd in his capacity as event Master of Ceremonies.



## Celebrating Black History Month



*Chiki Nwoffiah, beating the drum (second in line), leads the traditional honor march into the Black History celebration luncheon.*



*Carter G. Woodson, the man who started it all 75 years ago, would have been proud of Sheila Johnson, Robert Finnie and the other committed Ames people who organized and hosted this year's celebration.*

**photos by Tom Trower**

*Ames employees inspect the treasures and wares, from jewelry to posters to clothing, offered by seven diverse vendors.*



## Ames Clubs

### Why speaking skills? Why Jetstream Toastmasters?

Ames' Jetstream Toastmasters club is a collection of enthusiastic people who support each other as we improve our speaking and communication skills. We would like to share an entertaining point of view about why speaking skills are important to everyone.

This has often been called the Age of Information. Never before has information been produced at such a staggering rate, and the rate is increasing rapidly.

This information explosion was spawned by the extraordinary development of the computer and networking technology.

These technological advancements have changed our lives. They have changed the way we communicate, the way we shop, the way we work, and the way we educate our children. They may also come to affect our moral and political beliefs.

Rather than speculate on the future, let's look to the past--when was the last time that an event caused an information explosion that so profoundly affected human civilization? It was during the Renaissance. This period witnessed revolutions in astronomy, anatomy, medicine, and most importantly, in thought and philosophy. What happened? What ignited these revolutions?

In his 1975 book "Copernicus and the Impact of Printing," Astronomer Gingerich writes about the oceanic navigation, Da Vinci's drawing, church reformation, then he writes:

"Meanwhile, the explosive spread of printing with movable type beginning in the 1450s fanned the sparks of all these movements, including the reform of astronomy.

Without printing, Copernicus would have been deprived of the vast majority of his source materials. Even five decades earlier, he could not easily have found the requisite information that built his *De Revolutionibus* into the greatest astronomical treatise of its century. And without printing, his manuscript might have languished, virtually forgotten, on the shelves of the cathedral library."

Thus, printing was the key that created a new dimension of communication and changed whole societies forever.

What invention came before printing that allowed another information explosion? The connection between the invention of writing and the dawn of civilization is clear. In the third millennium, B.C. civilizations emerged almost simultaneously in four cradles of civilization: Egypt, Mesopotamia, the Indus Valley, and China.



photo by Lisa Coyle

Charles Butterfield speaks during a Jetstream Toastmaster meeting at Ames. Butterfield is a member of Jetstream and also is Ames' Jetstream Toastmaster's district governor. Four to five clubs form an area and three to five areas form a district.

The crucial factor that distinguished these four cultures from their neighbors was the invention of writing. Writing created a new dimension of communication and so spawned civilization.

Let's go back even further. What invention came before writing that allowed an information explosion? It was language. Anthropologist D. Falk wrote in 1984:

"Human technology and social achievements required conscious thought, which is, and probably was, dependent on language. In other words, until they acquired language, our early ancestors may not have been truly human."

We have gone back in time, from computers to printing to writing to language.

Language sparked conscious thought, human technology and was the basis for a series of revolutionary changes. Like human evolution, our daily success depends on language and how we use it.

Now you know the importance of speaking skills, the hurdle you need to overcome is the fear of speaking in public.

The size of our group and the close environment create an ideal atmosphere for beginners who want to improve their speaking skills. We are disciplined and responsible people who carry the fire started

here some 30 years ago by the first Jetstream Toastmasters. You just have to come and see it yourself.

We welcome guests to our meetings to see what we do every Monday. We meet in Building 269, Room 179, from 12:00-1:00 p.m. sharp. We hope to see you soon! Our Website: <http://jetstream.arc.nasa.gov/>

BY SAMSON CHEUNG  
AND SCOTT GILLILAND

### Interested in establishing an Ames Rocket Club?

Anyone who might be interested in starting and participating in a rocketry club at Ames can email Daniel Cascaddan at [dcascaddan@mail.arc.nasa.gov](mailto:dcascaddan@mail.arc.nasa.gov) or [danielc@danielc.com](mailto:danielc@danielc.com) to express their interest. Then it can be determined whether or not there are enough people to start an amateur rocketry club at Ames.

Any level of experience is welcome. It is a fun and educational hobby for everyone.

## Calendar & Classifieds

### Ames Event Calendar

**Model HO/HO3 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. The club is in particular need of low voltage electricians & scenery builders and maintainers. 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).

**Jetstream Toastmasters**, Mondays, 12 noon to 1 p.m., N-269/Rm. 179. Guests welcome. POC: Samson Cheung 4-2875 or Lich Tran 4-5997.

**Ames Ballroom Dance Club**, Tuesdays: Two Step (started 1/18), West Coast Swing 1/25, 2/1, 2/8, Waltz 2/15, 2/22, 2/29. 3 levels of classes, from Beg. to Int., 5:15 - 6:45 p.m. Moffett Training & Conference Center, Bldg. 3/ Showroom. Women dancers are especially encouraged to join. POC: Helen Hwang, hwang@dm1.arc.nasa.gov.

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

**Ames Sailing Club Mtg**, Mar 9, 11:30 a.m. to 1 p.m., N-262/Rm. 100. POC: Stan Phillips, ext. 4-3530.

**Professional Administrative Council (PAC) Mtg**, Mar 9, 10:30 - 11:30 a.m., Bldg. 258, Rm. 221. POC: Leslie Jacob, ext. 4-5059.

**Java Users Group Mtg**, on Java and Linux, Mar 14, 1:30 p.m. to 2:30 p.m., Bldg. 258, Rm 127. POC: Sharon Marcacci, ext. 4-1059; <http://jug.arc.nasa.gov>

**NFFE Local 997 Union General Mtg**, Mar 15, noon to 1 p.m., Bldg. 19/Rm. 2017. Guests welcome. POC: Marianne Mosher at ext. 4-4055.

**Ames Amateur Radio Club**, Mar 16, 12 noon, N-260/ Conf. Rm. POC: Mike Herrick, K6EAA at ext. 4-5477.

**Ames Asian American Pacific Islander Advisory Group Mtg**, Mar 16, 11:30 a.m. to 1 p.m., N-237/Rm. 101. POC: Daryl Wong, ext. 4-6889 or Margaret Salas, ext. 4-6755.

**Native American Advisory Committee Mtg**, Mar 28, 12 noon to 1 p.m., Ames Café. POC: Mike Liu at ext. 4-1132.

**Ames Contractor Council Mtg**, April 5, 11 a.m., N-200 Comm. Rm. POC: Jack Stanley at ext. 4-2345.

**Environmental, Health and Safety Monthly Information Forum**, April 6, 8:30 a.m. to 9:30 a.m., Bldg. 19/Rm 1078. POC: Linda Vrabel at ext. 4-0924.

**Hispanic Advisory Committee for Employees**, April 6, 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**, April 6, 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, San Jose Chapter #50, Mtg**, April 7, at the Elk's Club, 44 W. Alma Avenue, San Jose. Social hour: 10:30 a.m. Prog. & bus. mtg. follow lunch at 11:30 a.m. POCs: Mr. Rod Peery, Pres., (650) 967-9418 or NARFE 1-800-627-3394.

### 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; 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

Room for rent in house in midtown Palo Alto. Kitchen, bathroom & pool privileges. Tenant must be orderly, N/S. \$600/mo. Dr. Jim Stevenson, ext. 4-5720.

For sale by owner: \$529K, 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.

FSBO: Eichler in Green Meadow neighborhood of Palo Alto, corner lot, 4 bd/2ba. Appraisal and inspection reports available. \$775k. Call (650) 969-4123.

Room for rent. 3 bd/2.5ba home, \$500 per month & your % of utility bills. Clean & spacious. Close to Great America. Share common areas. John Stephenson, (408) 943-4412 (W), or (408) 567-0365 (H), email: [johns@sdli.com](mailto:johns@sdli.com)

Santa Clara 2-story TH, 2bd/1.5ba, spa/pool, patio, carport, completely remodeled. \$1,450. Available April 1, 2000. Call (408) 248-1516.

#### Miscellaneous

Nordic Trac CTX 4000. Top of the line exerciser, works all muscles. New, \$400. Call (650) 938-8893.

(2) New radial tires, 195/70 R15 both for \$45; bra to fit Toyota 4runner, very good condition \$35. Stan (510) 429-0212 after 5 p.m.

24x ACER EIDE CDROM w/cables and manual, \$25. Call (408) 295-2160.

Delonghi Windowless A/C. Purchased 7/99 from Fry's Electronic's, used two months, Paid \$1,289, asking \$850 or B/O. Call (408) 286-2941.

Kitchen table and six chairs, good condition, \$100 or B/O. 12-speed bicycle needs some attention but in good shape, \$200 or B/O. Jason (650) 968-4635.

#### Vacation rental

Lake Tahoe-Squaw Valley townhouse, 3bd/2ba, view of slopes, close to lifts. Wknd \$470, midwk \$175 night. Includes linens, firewood. Call (650) 968-4155 or email: [DBMcKellar@aol.com](mailto:DBMcKellar@aol.com)

#### Transportation

'76 Fiat Spider Convertible. 87K Miles, good shape, red. \$1,500 or B/O. Call (408) 720-8967 Eugene.

'89 Acura Integra LS 3-dr. Great condition, AM/FM cassette Alpine stereo system, equalizer, A/C, moon/sun roof, aluminum alloy wheels, 5-speed. New brakes and tires, low miles, and all maintenance records. One owner. \$4,800 or B/O. Call (650) 424-8138.

'92 Mercury Sable station wagon; excellent condition, fully loaded, 69K mls, seats 8 and very well maintained. \$6,100. Harry Swenson (650) 368-8979.

'93 black Honda Accord Ex: man. trans., sunroof, 111,000 mls. Great car, Asking \$10,000 or B/O. Mel (209) 545-9543.

'94 Accura Integra LS, 4dr, AT, PW, PD, AC. Burgundy exterior with grey interior, great condition. New tires, low 56K mls. 11,000 or B/O. Had twins need more room, hate to see it go. Connie (408) 246-5295.

'95 Infiniti Q45, xint cond must sell; fully loaded: sun roof, leather interior, wood grain, auto ctrls, 90K miles, 10 CD disc changer w/remote, and much more! 17K or B/O. Call (408) 842-9576.

'99 Ford Ranger XLT-Sport-blk, 2 door-extd cab, 2WD, automatic w/spd cntrl, remote entry syst, A/C, AM/FM/cass/CD, chrome wheels, bed liner, tow pkg, ABS, 3yr/36K bmptr-bmptr warantee+, exc cond/almost new. Only 11K mls, \$17K. Mike (650) 712-1690 eves.

#### Lost & Found

Moffett Field Lost and Found may be reached via ext. 4-5416 at any time. Residents and employees at Ames may also use Internet browser at: <http://ccf.arc.nasa.gov/codejpp/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: [mfile@mail.arc.nasa.gov](mailto:mfile@mail.arc.nasa.gov).

### 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
Tues, Mar 7	Mon, Mar 20
Tues, Mar 21	Mon, Apr 3
Tues, Apr 4	Mon, Apr 17

### Ames radio information for employees

1700KHz AM radio-information radio announcements for Ames employees during emergencies.

#### Carpool

Carpool partners wanted to share driving & riding from San Francisco to Ames. Benny, ext. 4-5432 or email [bcheung@mail.arc.nasa.gov](mailto:bcheung@mail.arc.nasa.gov).

Looking for a ride that likes to come in at 6:30 a.m. and goes home at 3:00 p.m. If interested, call Maria at 4-4394. Live in San Mateo and work here at Moffett Field. I do not drive, but willing to pay for gas, whatever the driver feels that it would be a fair deal.

### Retirement luncheon for Clifford N. Burrous

Clifford N. Burrous, Deputy Director of the Safety, Environmental and Mission Assurance Directorate, is retiring after 37 years of service to NASA. The luncheon will be held on Monday, March 27 from 11:30 a.m. to 2 p.m. at Michael's at Shoreline.

The following entrees will be served (prices include tax, gratuity and a gift):

- Vegetarian lasagna @ \$17
- Breast of chicken, Marsala @ \$20
- Broiled salmon, lemon Beurre Blanc @ \$23
- New York steak @ \$25

Each entrée includes seasonal greens, vegetables, potato du jour, french rolls, coffee, and dessert.

To reserve your seat, submit your payment (checks payable to Sonia Maiello) no later than Friday, March 17 to one of the following individuals:

- Pat Beck (Bldg. N218/Rm. 105; Mailstop 218-6; ext. 4-4231; email: [pbeck@mail.arc.nasa.gov](mailto:pbeck@mail.arc.nasa.gov))
- Cecilia Madruga (Bldg. N218/Rm. 101; Mailstop 218-6; ext. 4-2904; email: [cmadruga@mail.arc.nasa.gov](mailto:cmadruga@mail.arc.nasa.gov))

If you would like to say a few words in Cliff's honor at the luncheon, please contact Sonia Maiello at ext. 4-1195 or email her at [smaiello@mail.arc.nasa.gov](mailto:smaiello@mail.arc.nasa.gov).

## Events & Miscellaneous

### Lloyd Corliss retires

Lloyd Corliss retired on February 3, 2000 after more than 37 years of combined Army and NASA service, most recently as the Flight Controls Group Leader for the Advanced Aircraft and Powered Lift Branch. In his long and distinguished career, Lloyd directed flight control system design, advanced control law development, simulation studies, and flying qualities research for numerous V/STOL, rotary-wing and high-performance aircraft.

Lloyd's career included many significant aeronautical milestones, including implementation of the first aircraft digital flight control system, demonstrated on the X-14B. Using the UH-1H/VSTOLAND research helicopter, Lloyd pioneered handling quality improvements for helicopter nap-of-the-earth flight and directed the first implementation of a laser-gyro as a flight control sensor. More recently, Lloyd guided the development of advanced control law algorithms for the RSRA/X-Wing and the X-36 Tailless Agile Fighter Research Aircraft.

Join us in wishing Lloyd a fond farewell

and happy retirement at an event held in his honor:

Saturday, March 25 starting at 5 p.m.  
The Garden House, Shoup Park  
400 University Avenue, Los Altos  
Cost \$15 per person (includes gift)

The event will include an informal dinner, drinks and a celebration of Lloyd's career. Please RSVP to one of the following individuals no later than March 17. As space may become limited, the earlier you reply the easier it will be to guarantee your participation.

Jolen Flores, ext. 4-4005; or email  
jflores@mail.arc.nasa.gov

Dwight Balough, ext. 4-3152; or email  
dbalough@mail.arc.nasa.gov

Jeff Turk, ext. 4-3160; or email  
jturk@mail.arc.nasa.gov

Mark Won, ext. 4-5865; or email  
mwon@mail.arc.nasa.gov

Lloyd has relocated out of the area to Bend, OR so he is looking forward to seeing many of his friends and colleagues again at this event.

### Contract awarded to support Ames computational sciences research

Ames has awarded a new five-year contract valued at \$128.3 million (including options) to QSS Group Inc., Lanham, MD, to provide support to NASA's enterprise and mission programs.

The "cost plus award fee" (CPAF) contract, contains an initial period of performance of two years valued at \$24.5 million, a one-year first option and a two-year final option. The solicitation was a Small Business Administration (SBA) 8 (a) competitive set-aside.

Under the terms of the contract, QSS Group Inc., will provide support to Ames' Computational Sciences Division's mission to provide cross-cutting technologies to enable missions and programs throughout NASA's major enterprises. The company will provide support for leading-edge research in artificial intelligence, knowledge-based systems, soft computing, model-based diagnostic reasoning, fault-tolerant computing hardware and networking, integrated design, and human-centered computing.

BY MICHAEL MEWHINNEY

### Embry-Riddle holds classes at Ames

Embry-Riddle Aeronautical University is holding their Spring 2000 classes from March 13 to May 11. The following classes that are scheduled:

#### Undergraduate classes

BA 420 Management of Production and Operations - Tues

EC 211 Macroeconomics - Weds  
HU 122 English Composition & Literature - Wed

BA 312 Managerial Accounting - Thurs  
Graduate classes

BA 511 Operations Research - Thurs  
Classes meet 5:30 p.m. to 10:15 p.m. at

Bldg. 48 on Moffett Field. To register for a class, call (408) 298-7380 or send an email to: south\_bay\_center@cts.db.erau.edu by March 17.

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