



the astrogram

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National Aeronautics and Space Administration • Ames Research Center, Moffett Field, California

Mrs. B.J. Baldwin Named to Top Ten

Mrs. Betty J. Baldwin, a computer programmer in the Theoretical Studies Branch at Ames, was selected recently as one of the top 10 business women of the year by the American Business Women's Association (ABWA).



MRS. BETTY J. BALDWIN

The national award was announced at the association's 22nd annual national convention in Anaheim.

Mrs. Baldwin was honored for her progress as a civil service employee for NASA Ames, and for other interests in educational and character building programs.

A three-judge panel made the top 10 selections from women recommended by the 980 chapters of the association. Selections were based on candidates' advancement in business with consideration given to continuing education, business achievements and personal efforts.

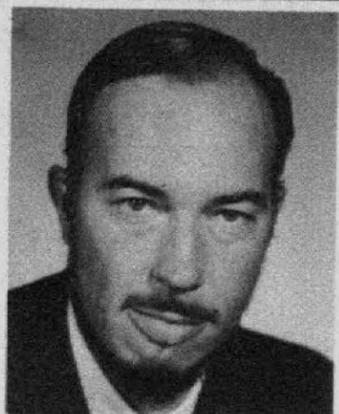
Mrs. Baldwin began her career at Ames in 1951 as a mathematics aide. She is a native of Fresno and was graduated from U.C. Berkeley with an AB degree in journalism. As an undergraduate she married Barrett S. Baldwin, Jr., a research scientist at Ames. They have two daughters and three grandchildren.

Primarily an educational association ABWA is directed toward improving employer-employee relations and the advancement of business women through more efficient service to business. It has an active membership exceeding 60,000 and is known throughout the nation for its scholarship program.

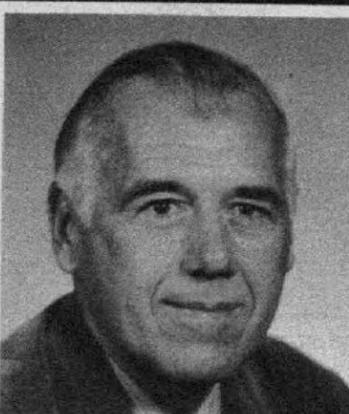
During the past year, the ABWA National Educational Fund and its chapters combined to award over \$425,000 in scholarships to women.



DR. STANLEY ELLIS



DR. JOHN H. WOLFE



HARRY J. DE VOTO



C.A. SYVERTSON

NASA Honorary Awards To Ames Employees

NASA achievement awards for outstanding service were conferred on four Ames Research Center employees and an Ames project team at ceremonies in Washington, D.C. on October 29.

The NASA Medal for Exceptional Service was awarded to C.A. Syvertson, Ames Deputy Director, and Harry J. DeVoto, Jr., Chief of the Graphics and Exhibits Branch. Dr. Stanley Ellis, Chief of the Biochemical Endocrinology Branch and Dr. John H. Wolfe, Chief of the Space Physics Branch were awarded the NASA Medal for Exceptional Scientific Achievement. David E. Reese, Jr., now Manager of the Ames Experimental STOL Research Transport Aircraft Project, accepted the NASA Group Achievement Award on behalf of the team that successfully carried out the Planetary Atmosphere Experiments Test Project (PAET) early this year.

The NASA Medal for Exceptional Service given Mr. Syvertson noted his leadership and achievement in directing the Civil Aviation Re-

NASA EEO Director To Visit Ames

Mrs. Ruth Bates Harris, recently appointed NASA director of equal employment opportunity, will visit the Ames Center on Friday, November 19.

In her new position Mrs. Harris is providing direction to the EEO programs for some 29,000 NASA Civil Service employees. Prior to her present assignment she was director of the Human Relation Department, Montgomery County Public School, Rockville, Md.

search and Development (CARD) Policy Study by NASA and the Department of Transportation. The study, an in-depth survey of national civil aviation problems and goals, was called a "milestone in the future of the Nation's aeronautics program."

Mr. DeVoto, also a recipient of the NASA Medal for Exceptional Service, was cited for his ability to provide NASA and the scientific community with an unparalleled scientific illustration service using exceptional creativity and ingenuity in visually communicating the results of scientific endeavor.

Dr. Ellis received the NASA Medal for Exceptional Scientific Achievement, recognizing a distinguished research career in the field of endocrinology, particularly in studies of hormones produced by pituitary glands. The citation lauded his work in the conception and development of methodology which resulted in the isolation and production of hormones and enzymes that led to important discoveries concerning their role in physiological systems. His work, the citation noted, has great implications regarding man's response to the space environment.

The NASA Medal for Exceptional Scientific Achievement was presented to Dr. John H. Wolfe for his pioneering research into the nature of the interplanetary medium. His work in measuring the sun's emission of charged particles from spacecraft with highly sophisticated instruments has provided techniques for obtaining advance warning of solar flares which could be dangerous to astronauts in space.

Twenty-nine Ames employees are recipients of the NASA Group Achievement Award for their out-

standing contribution to the design, development, and operation of the Planetary Atmosphere Experiments Test Project. The results of the PAET mission are providing important technology and instrumentation of significant value to future planetary missions. The team, headed by Mr. Reese, also included 12 NASA employees from Goddard, Langley, and Wallops Island Station.

NFFE Election Results

The National Federation of Federal Employees (NFFE) won the election held Nov. 2 at the Center for the right to be the exclusive representative of a unit composed of Ames general schedule (GS) non-supervisory technicians and clerical personnel.

This election was conducted under the supervision of the U.S. Department of Labor.

The vote was 159 "yes" and 33 "no." Approximately 42 percent of the 454 eligible employees cast their vote. (Details of the election were reported in the last issue of "The Astrogram.")

NFFE already had an exclusive unit composed of 273 Ames wage grade employees. The addition of this unit of 454 clerical and technician employees means that about 40 percent of Ames employees are now in NFFE exclusive units. The Pattern Makers Association has an exclusive unit consisting of 18 wage grade employees in the Materials Processing Branch.

Under exclusive recognition no one is required to join the reorganized union or pay dues. It should also be noted that anyone is free to join a union or refrain from joining whether or not he is in an exclusive unit.



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PROCUREMENT DIVISION
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WANT ADS

The Astrogram's ad section is provided as a personal, non-commercial service to Ames employees. Advertiser must be identified by name, extension and organization. The name may be left out of the ad but is needed for records. Ads must be submitted in writing to The Astrogram, N 241-4, by Thursday, a week before publication. The advertiser's home telephone number must be provided as a point of contact except in carpool notices.

AUTOMOBILES

For Sale-1966 Plymouth Fury III. Automatic transmission. PS, PB, Available mid-Dec. \$750. Call 967-4673.

For Sale-1968 Pontiac Bonneville, radio, heater, air conditioning, tape deck, power steering, power brakes, \$700. Call 267-2935.

For Sale-1963 Ford Falcon Futura, radio, heater, automatic, new re-caps. \$400. Call 267-2935.

For Sale-1968 Pontiac LeMans, 2-dr. hdtop, R/H, power steering, very good condition, \$1375. Call 266-0251.

For Sale-Mercedes 1961, 190b, radial tires, sun roof, FM-Stereo Multiplex, reconditioned engine, mint condition, 408-738-3098.

For Sale-1967 VW Bug, Sunroof, Am/FM radio, and custom interior. New tires and brakes. Make offer. Call 867-2030.

For Sale-1963 Mercury, blue, 4-dr. sedan. Good commute car. PB, PS, good shape but needs work. \$150 or offer, Mehler, 322-3951.

For Sale-1963 Ford Country Sedan sta. wgn. Good condition \$395. 244-9815 or 296-4227.

For Sale-1961 Olds 98, 4-dr. hardtop, \$300. Call 296-1650.

HOUSING

For Sale-House in Los Altos, 3-bdrm, 2 1/2 bath, den, lanai. Excellent location and schools, \$64,500. Will help with financing if desired, 967-8501.

For Rent-1 bdrm. furnished apartment. \$145. 418 Roosevelt Ave., Sunnyvale, off E. Maude, near Lockheed. 739-6279 or 967-8501.

For Rent-2 story home, 5-bedroom, 3-bath, 2-car garage. Desirable Sunnyvale location. Beautiful low maintenance landscape. Furnished or unfurnished. Call 245-6411.

For Rent-Winterized cottage near Rte. 89 and N. Tahoe ski areas. Sleeps 6 - \$95/wk - \$45/wknd. \$50 and \$25 pre-season rate 328-4642 or 964-9848.

MISCELLANEOUS

For Sale-Honda Trail 90, 1971, less than 400 miles. Like new condition; \$375. S.A. Rositano, 259-4618.

For Sale-1972 Sierra Club calendars, wall size; engagement size. Regularly \$3.95, sale price \$3.50. Doug Pearson, 967-2970.

For Sale-Boat - 20' Cabin Cruiser, 115 hp inboard, glass over wood. Includes trailer. \$1500. Phone 245-2796 evenings.

Wanted-Information on travel clubs to Europe and camping travel in Europe. Fred Bear, 354-2769.

Wanted-Homes for ugly puppies - 3/4 sheppard and 1/4 Collie. 2 males and 4 females, made orphans by deserting father and neglectful mother. Call 964-7289.

For Sale-1970 Harley Davidson Sportster, XLH, excellent condition, much chrome, 6" extended front end, cobra seat with sissy bar. Call 227-4840 or 356-5719.

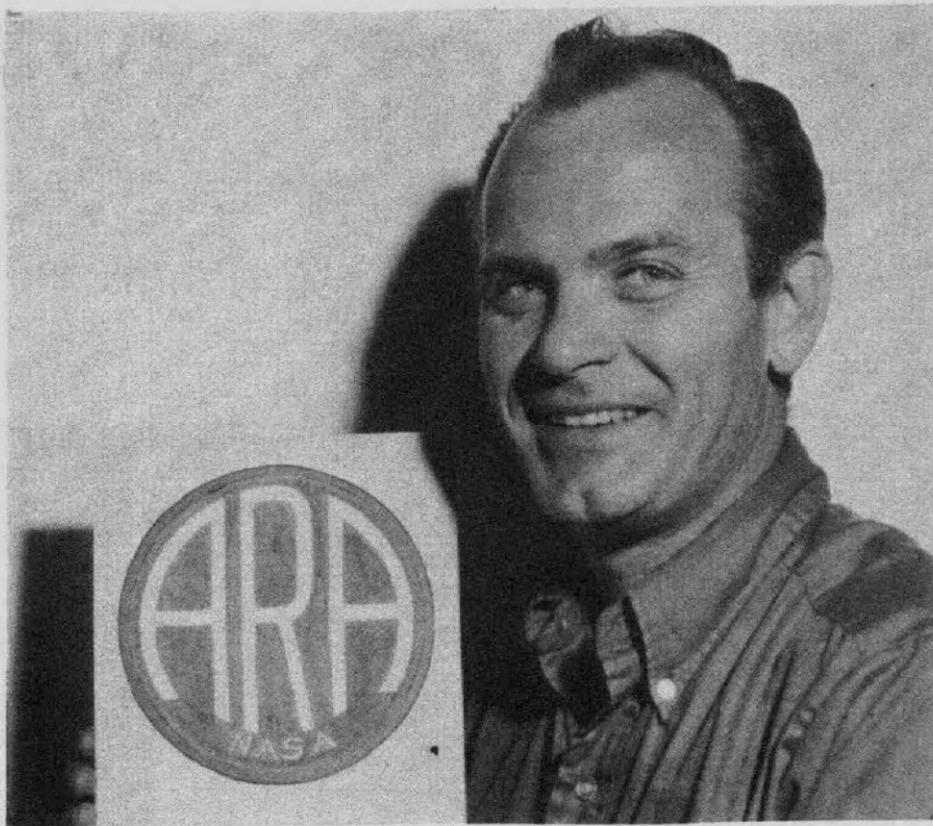
For Sale-8" bench saw, tilting arbor, craftsman, with steel bench, rip fence, miter gauge, motor and blades. Like new, \$75. Call 245-6411.

For Sale-One S.F. Opera ticket for "Maria Stuarda" on Sat. Nov. 27 (sold out). Choice Orchestra location on center aisle, \$15. Call 969-3644 evens., or before 7:30 a.m.

Wanted-Old Fashion played piano. Call A. Puccinelli, ext. 2229.

Lost by Visitor-Notebook containing 1/2 - year's work. Name, Uno Ingaro, printed in white on black cover. Please return to Security Branch or Buell, 227-9.

For Sale-TV 15" portable, b/w, \$25. Baby crib with new mattress, \$15. Stroller, \$10. Contact H.R. Collard, 969-0217.



THE WINNER . . . Warren Norman, hypersonic Free Flight, proudly displays the design which brought him \$25 cash as the first place winner in the recent ARA Sports Patch Contest. Over 25 entries were turned in by employees. Mr. Norman's design is on display in the ARA display case at the cafeteria.

CAFETERIA SPECIAL

Annual Holiday Dinner at Ames

Thanksgiving Dinner will be served in the Cafeteria on Wednesday, Nov. 17. Turkey, with all the trimmings, Ham or Roast Beef is offered for \$1.50.

The Cafeteria will be open for the swing shift, 7:30 p.m. to 8:30 p.m.

Health Insurance "Open Season"

The Civil Service has extended the health benefits open season from November 15-30, as originally scheduled, to December 31, 1971. The extension is necessary because of the President's economic stabilization program.

Under the revised schedule un-enrolled employees will be able to enroll and enrolled employees will be able to change enrollment between Nov. 15 and Dec. 31, 1971.

New brochures describing plans and information will be distributed in a few weeks. Employees interested in making a change, however, can review the merits of the coverage as described in the 1971 brochures because plan benefits will not change.

Changed or new enrollments will still become effective on the first day of the first pay period in January 1972.

"Thank You"

"Dear Friends,

I was happy to see so many of my friends at Ames gathered together at my retirement luncheon on October 28. The lovely gifts of clock and luggage I shall enjoy for many years.

Many thanks from
Shirley Marshall"

"Dear Friends,

Elsie and I wish to express our appreciation for the retirement party given on September 16 upon the completion of 30 1/2 years with the Federal Service.

The jig saw and sander are welcome gifts for the shop. We hold many pleasant memories of our friends at Ames Research Center and we know that many were unable to attend the party.

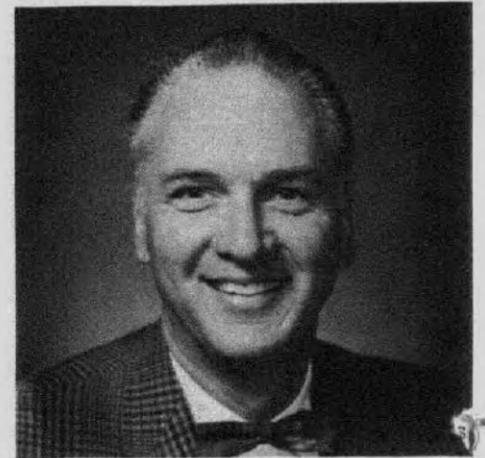
We extend to all our warm regards and we hope that you will not forget our address. Stop by and visit with us, we are only one block from the shopping center and one block from the Lake.

Sincerely,

P.O. Box 1269
Incline Village, Nevada, 89450
849 Freel's Peak Drive
Frank and Elsie DuBois"

David Reese Is STOL Manager

David E. Reese, Jr., has been named Project Manager of the Ames Project Office recently established as part of the V/STOL Projects Office to provide management and technical direction for the Experimental STOL Transport Research Airplane.



DAVID E. REESE, JR.

Using the quiet STOL aircraft, the new flight research program is intended to provide the technical data and experience for developing environmentally acceptable, economical and safe fan-jet STOL transport systems.

Mr. Reese joined the NACA in August 1949 after receiving his MS degree in Aeronautics from the California Institute of Technology. During the first 10 years of his career here he carried out research in high speed aerodynamics. The primary emphasis of his work was in the field of dynamic stability.

In 1960 he was appointed to the position of Technical Assistant to the Director of Astronautics, reviewing and evaluating ongoing research programs of the Directorate.

Prior to his new assignment Mr. Reese was Assistant Chief of the Vehicle Environment Division, a position he has held since 1963. More recently he has been project manager of the highly successful Planetary Atmosphere Experiments Tests (PAET). The project involved the design, development, fabrication and test of a spacecraft for launch on a Scout launch vehicle on a ballistic trajectory, entering the earth's atmosphere at a speed of 21,650 feet per second.

More Astrogram Room 134
Admin. Mgt. Building
Phone 2385

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Editor Dot Evans
Reporters NASA Employees

Deadline for contributions:
Thursday between publication dates

Lunar Samples Are Distributed

NASA has begun general distribution to U.S. and foreign scientists of the largest and most varied collection of rocks and soil yet returned from the moon.

More than 2,200 Apollo 15 samples and polished thin sections weighing a total of about 6.6 pounds will be distributed to 201 principal investigators for study by them and their co-investigators during the next year.

Ames research scientists Dr. William L. Quaide, Planetology Branch, and Vance I. Oyama, are among the 700 scientists in the United States, Virgin Islands, 15 foreign countries and one international body (European Space Research Organization) who will take part in analyzing the material collected by Astronauts David R. Scott and James B. Irwin near the Apennine mountain front on the moon last July.

Dr. Quaide will receive 14 samples whose combined weight is relatively higher than the majority. He will have an initial 6.0 grams of fines for research, plus an additional 100 grams for nondestructive testing. Mr. Oyama will receive two samples of fines with a total weight of 20.0 grams.

The scientific investigations will provide detailed information on the sample's mineralogy, petrology, chemistry, age and history and on the effects of micrometeorite impacts, solar radiation and cosmic ray bombardment.

Of special scientific interest is a 9.6 kilogram (21.2 pound) basalt which is the largest rock ever returned from the Moon; numerous particles of unique, green glassy material which has been discovered in nearly every sample of Apollo 15 soil and which appears to be derived from a common source; and a sponge-textured basalt about the size of a grapefruit which is about sixty (60) per cent porous.

The samples to be distributed represent around four per cent of the 77 kilograms (170) pounds of lunar material returned by Apollo 15. The remaining 96 percent of the sample material will be stored at MSC under carefully controlled conditions for future study.

Annual Children's Christmas Party

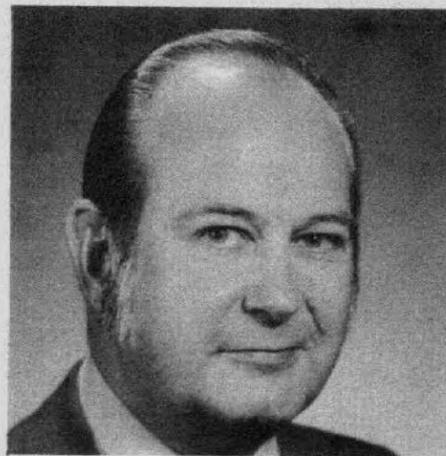
The annual Christmas party for the children of Ames employees sponsored by the ARA, will be held Saturday, Dec. 10, from 10 a.m. to 3 p.m. Mr. and Mrs. Santa Claus will arrive at the Airplane Hangar and Shop Building promptly at 10:15 a.m.

Invited guests this year will be 180 youngsters from the East Palo Alto, Alum Rock and East San Jose elementary schools. Mrs. Dolores Johnson, Experimental Investigations Branch, and Manuel M. Orozco, STOL Experiments Office, are in charge of arrangements for these children.

Sal Tardio, Christmas Party Chairman, is asking for all the volunteers possible to help with this annual event. Willing workers are asked to call him at ext. 2565.

Subscription tickets are now on sale and may be purchased from branch and division representatives, or contact Ticket Chairman, Ed Harman. The price is \$1, or four for \$3. Prizes are; Round-trip fare for two to Hawaii; 14-inch portable

Merrill Mead Named Deputy Director of Administration



MERRILL H. MEAD

Merrill H. Mead, long time Ames employee, has been named Deputy Director of Administration for the Center.

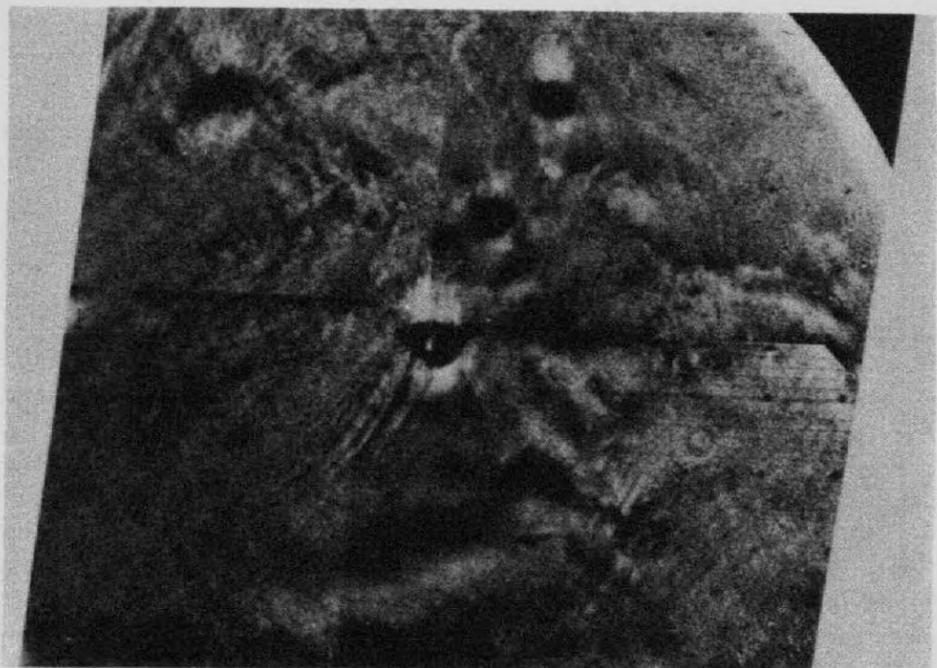
In his new position Mr. Mead will be concerned with management responsibilities which will cover the full range of institutional management matters, including facilities, planning, manpower, financial management, procurement and supply, and the like. For the present he will also continue as Chief of the Programs and Resources Office, a position he has held for the past six years.

Mr. Mead joined Ames in 1947 as an aeronautical research scientist, specializing in aerodynamic stability and control. He served for several years as Technical Assistant to the Director of Aeronautics and Flight Mechanics and in 1962 was selected to participate as a Sloan Fellow for a year of study at the Massachusetts Institute of Technology.

Returning to the Center in 1963 Mr. Mead was assigned as Chief of the Technical Planning Division with responsibility for developing technical-program analyses for the Center. His expertise in this field led to a year's assignment at NASA Headquarters as Director of the Programs and Resources Division. He was a member of the immediate staff of the NASA Associate Administrator for Advanced Research and Technology and was principal advisor on matters of resources management, technical program coordination and management operations.

A native of California, Mr. Mead was born in Los Angeles in 1926. He was graduated from the University of Minnesota with a bachelor of aeronautical engineering degree in 1946, and received master's degrees in aeronautical engineering from Stanford University in 1953, and in Industrial Management from MIT in 1963. He served as a commissioned officer in the U.S. Navy during World War II.

Mr. Mead, his wife Carol, and their three children, Ann, Melinda, and Richard, make their home in Los Altos.



MARS FROM MARINER 9 . . . Subtle details, not seen in earlier pictures returned from Mariners 7 and 8, are seen in this mosaic of Mariner 9 frames acquired in the last picture sequence before entering orbit around Mars. The Mars limb is at upper right. Arsia Silva, the most southerly of the three dark spots with the streaks radiating from it, is slightly below the equator and about 124 miles in diameter. It is only the extraordinary discriminating power of the Mariner 9 camera which enables these new features to be brought out. There was no suggestion here that the great dust storm was dispersing. Most of the detail seen is in the atmospheric dust storm. The bright patches north and south of the dark spots are artifacts of the processing.

Research Applied After Thirty Years

"Thought you ought to be aware of the application of your research after 30 years . . ." This was how a letter to Maurice White, Flight Systems Research, began from the chief of Langley's Research Aircraft Flight Division.

It went on to say that Piper Aircraft Corporation is improving the Cavalier F-51D aircraft using for reference three NACA Wartime Reports co-authored by White.

As a young engineer at Langley Field in the early forties, one of White's first assignments was to test a concept to modify the XP-51 aircraft. The concept had been formulated at Langley by another present Ames employee, Dr. Robert T. Jones, Office of the Director.

At that time, during the first years of World War II, the XP-51 was the prototype of a highly successful series of fighter airplanes. However, as tested initially its maneuverability and roll control were not considered good enough.

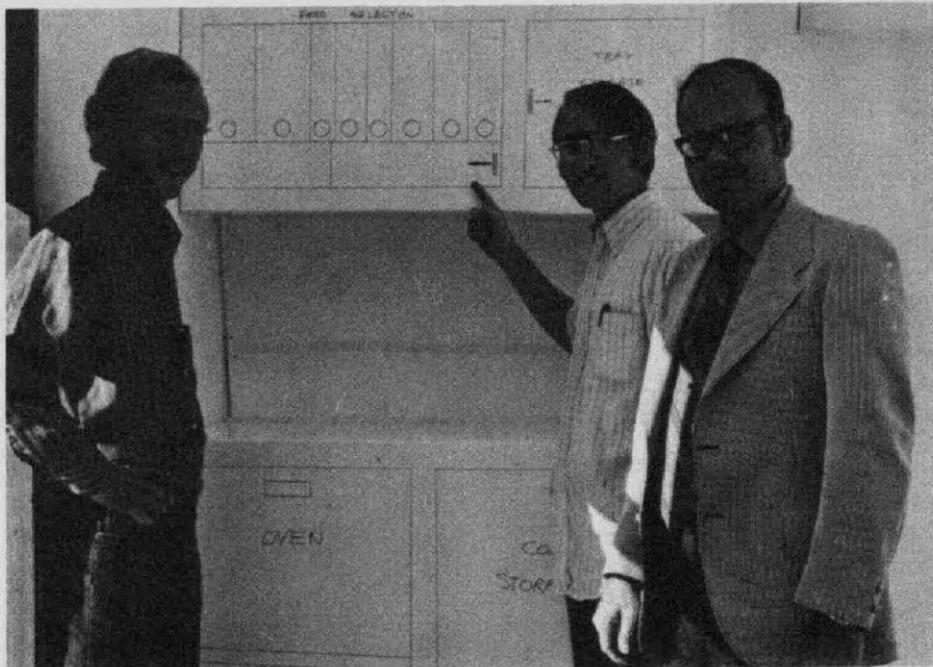
Dr. Jones formulated a concept called the "Beveled Trailing-Edge", by which the ailerons would be modified. White, with a test pilot by the name of Herbert H. Hoover, tested the modification and found it to be effective.

Today, 30 years later, Piper is applying that research in the building of a new counter-insurgency aircraft, based on the F51-D aircraft.

Ponseggi Receives Honorary Degree

An honorary bachelor of professional arts degree has been conferred on Bernardo G. Ponseggi of the Ames Photographic Technology Branch, by the Brooks Institute School of Photography in Santa Barbara.

In announcing the honor the Institute cited Mr. Ponseggi for the many years he has spent in the development and growth of photography, giving unselfishly of his time, energy, and ability to the needs of the profession. "You have been concerned with keeping the profession up-to-date and in producing photography to the highest caliber with the introduction of new methods and materials as these have become available." The honorary degree was conferred in recognition of this untiring effort.



ARCHITECTURE STUDENTS DESIGN SPACE STATION MODULE . . . Dr. Richard F. Haines (right), Human Performance Branch, is pictured above with two architecture students in a full scale mock-up of a module. The students constructed the module for competition at the annual conference of the California Council of the American Institute of Architects held in San Diego last month. Dr. Haines organized the competition at the conference and helped judge the models.

The "mini" competition was held to publicize the NASA/AIAA Space Station Interior Student Design Competition. Open to all full time students in schools of architecture, each entry must include designs for eight initial space station modules to be used by scientists from many nations and of either sex. The three top designs will be turned over to NASA for further uses.

Students Make Space Station

Scientists, by the end of this decade, may be working in an earth orbiting space station designed by a second Frank Lloyd Wright.

More than 2000 architecture students from all over the nation are designing the interiors of space station modules for possible use by NASA. The designs will be entered in the national NASA/AIAA Space Station Interior Student Design Competition.

To publicize the competition, teams of architectural students were asked to construct interiors for one full scale space station module in 6 hours at the 1971 annual conference of the California Council, American Institute of Architects. According to Dr. Richard F. Haines of Ames' Human Performance Branch, who helped judge the models; "The students came up with some very interesting designs."

Dr. Haines and Charles C. Kubokawa, Man Machine Integration Branch, presented papers at the conference. Dr. Haines who also was instrumental in organizing the national design competition, spoke on "Light and Sight."

Mr. Kubokawa discussed his prolonged underwater living experiences as an aquanaut on the Teklite II experiment.

Remember POWs

The POW/MIA League is an organization working to aid Americans who are missing in action or who are prisoners of war in Viet Nam and Laos. The league is made up, primarily, of the wives of these men.

Their goals are; release of the names of prisoners; an impartial inspection of prisoner facilities; release of sick or wounded prisoners; permission for prisoners to communicate with their families and each other.

In their efforts to achieve these goals the League is selling Christmas card inserts and bracelets. The inserts ask the receiver to write a letter of concern to the Swiss or Norwegian ambassador to the U.S. Suggested donations for 50 inserts is \$1.

The bracelets, made of copper or nickel, are engraved with the name of a prisoner of war, and the dates indicating how long he has been missing. A specific name may be requested. Suggested donation for the bracelets are nickel, \$2.50 and copper, \$3.

For information contact the POW Office, building 453, Moffett Field; or POW/MIA League, Santa Clara County, P.O. Box 207, Mountain View, California, 94040, 961- 2294.

Pollution Conference

" . . . Here is a systems challenge which is indeed worthy of the men who put man on the Moon."

With these words, Dr. Richard E. Hallgren, Associate Administrator, National Oceanic and Atmospheric Administration (NOAA), opened the Joint Conference on Sensing of Environmental Pollutants. Co-sponsored by several technical and government agencies, the conference met in 15 technical sessions, Nov. 8, 9 and 10 at the Cabana Hyatt House in Palo Alto.

General Chairman for the conference was John Dimeff, Ames' Assistant Director of Research Support for Advanced Instrumentation. He said the aim of the conference was to "stimulate the creative thinking that will help provide the simple, reliable, low cost and specific measurement techniques necessary for improvement of the environment."

The fifteen technical sessions dealt with the sensing of particulate and gaseous pollutants in the air, and chemical pollution of the water and land. The papers were evenly divided between invited and submitted papers dealing with the current and the emerging state-of-the art.

Sponsoring agencies and organizations with NASA included the American Chemical Society (ACS), the American Institute of Aeronautics and Astronautics (AIAA), the Environmental Protection Agency (EPA), the Institute of Electrical Engineers (IEEE), the Instrument Society of America (ISA), and the National Oceanographic and Atmospheric Administration (NOAA).

A second Joint Conference on Sensing of Environmental Pollutants is planned for the spring or fall of 1973. William O. Davis, Chief of Research Applications, Office of the Assistant Administrator for Environmental Monitoring and Prediction, NOAA, will be general chairman for the second conference. The Instrument Society of America (ISA) has offered to serve as managing society.

astrogram Room 134
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Phone 2385

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Editor Dot Evans
Reporters NASA Employees

Deadline for contributions:
Thursday between publication dates

Heat Pipe Conference at Ames

NASA scientists and engineers working on the development of the heat pipe, a highly effective heat transfer device which uses no electrical power and essentially no moving parts, met at Ames, Nov. 10, 11 and 12. The purpose of the "Working Group Meeting" was to review and discuss all work being done on heat pipe development within NASA, and coordinate a 5-year plan for further development.

According to John Kirkpatrick, meeting chairman, Ames' Vehicle Systems Design, the group "very successfully achieved its goals." It was generally felt that the meeting had saved a considerable amount of tax dollars by familiarizing the engineers and scientists with the other work being done in the field, and by avoiding unnecessary duplication of programs.

The Orbiting Astronomical Observatory (OAO-C), to be launched this summer, will flight test a variable conductance heat pipe researched and developed by Ames. Heat pipes have been tested and utilized aboard several other experiments by other NASA facilities.

The Applications Technology Satellite (ATS-F) scheduled for launch in May 1973 will carry another Ames experiment consisting of a feedback controlled heat pipe and a thermal diode heat pipe.

A NASA-wide 5-year program for heat pipe development was coordinated at the meeting. Several of the attendees felt that, despite limited travel funds, an annual meeting of this type would be profitable.

Credit Union

The Moffett Field Employees' Credit Union has announced another record month for the local organization, according to Fred G. Mayer, Manager.

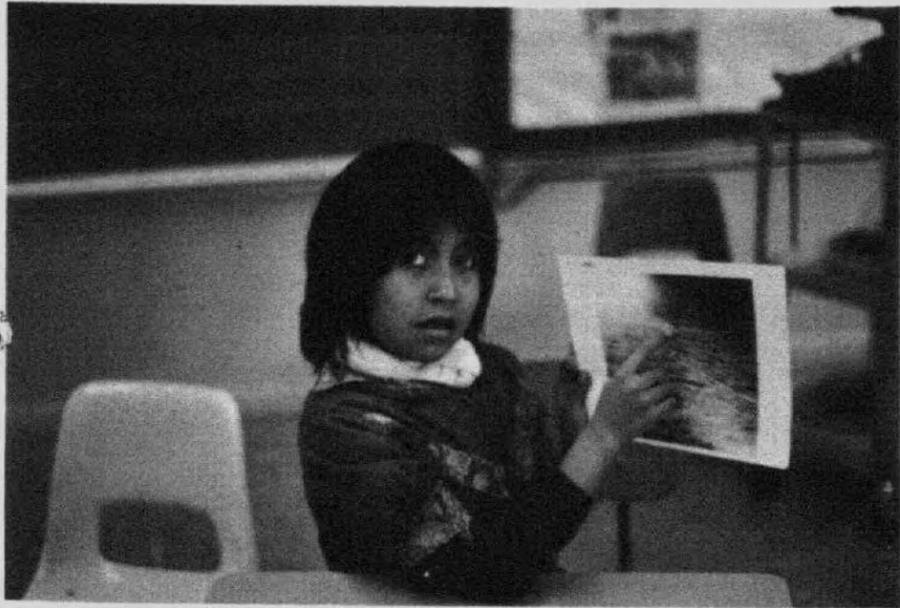
In passing the \$3.5 million milestone the credit union broke several other previous records. Assets increased over \$136,000 and member shareholdings over \$118,000 for the month of October. The increase in member equity and assets represents the best month the credit union has enjoyed since it was organized in March, 1957.



RETIREMENT PARTIES . . . continue to be happy occasions for the honored guests and the luncheon for Dr. Seymour Stein (third from left), former Chief of the Medical Office, was no exception. Among the many well-wishers were (l to r) Dr. Smith J. DeFrance, Ames Director Emeritus; Dr. Hans Mark, Ames Director; Mrs. Russell G. Robinson, wife of the retired Director of Aeronautics and Flight Mechanics; Mrs. John F. Parsons, widow of the former Associate Director; and H. Julian Allen, retired Ames Director.

In a note of thanks to his friends and fellow workers at Ames, Dr. Stein wrote " . . . I was overwhelmed when what was supposed to be a modest luncheon at L'Omelette, bidding me Godspeed on my retirement from Federal service, turned out to be a gigantic affair attended by more than 150 people. My astonishment grew even greater when I looked about me and realized that I knew each guest intimately on a first-name basis!

"The lovely gifts I received are much appreciated but much more valuable to me than the gifts are the sentiments behind them. I leave Ames with strongly mixed feelings -- pure joy on contemplating the time I can now devote to hobbies, and deep sadness on leaving behind so many close friends. It will be impossible for me to personally thank you and say what you've meant to me -- but I know you'll all understand. Vale!"



AMES TO ALASKA . . . The Athabascan Indian girl pictured above with a photograph of the moon, lives in a northern Alaska fishing village called Venetie. The population of Venetie is 250. A husband and wife teaching team run the small school in the village. Via ATS-I satellite the two teachers were able to attend a short course in Biochemical Evolution-Arctic Biology presented from Ames' Systems Engineering building, Nov. 16 and 17. Teachers in 25 other isolated Alaskan schools also were able to attend the in-service teacher workshop without moving from their classrooms.

The course was taught by Dr. Cyril Ponnampereuma, formerly chief of the Chemical Evolution Branch and presently a professor at the University of Maryland. It was presented through the Ames Educational Service Office and in cooperation with the University of Alaska and Alaska's State Operated Schools.

Last year Ames co-sponsored and helped conduct 17 aerospace workshops for 790 elementary and secondary teachers in five states. With the aid of satellites it is hoped that an even larger number of remote educational facilities will benefit by the in-service teacher workshops.

Century 22 Ames Theatre Offer

Bedknobs and Broomsticks

GROUP SALES MAIL ORDER
NASA-AMES RESEARCH CENTER
 Make checks or money order payable to CENTURY THEATRES and mail to SPECIAL EVENTS, 3164 Olsen Drive, San Jose, Calif. 95117.

PLEASE SEND _____ adult tickets @ \$2.00
 _____ junior @ \$1.60
 _____ children @ \$.80

Date THURS. DEC 16 Time of performance 7 p.m.

My check for _____ is enclosed.

Name _____

Address _____

City _____ State _____ Zip _____

Please enclose remittance and a stamped self-addressed envelope.
ALL TICKET REQUESTS MUST REACH THEATRE SEVEN DAYS PRIOR TO SHOW DATE, and tickets will be mailed soon after.

NOTE DEADLINE DATE FOR SUBMISSION OF COUPON

NO REFUND

Ames Airings

... by Jeanne Richardson

If you were wondering why Barbara Busch was missing from Public Affairs last month, she and Marilyn Wegner, Contract Management, took off for "the islands." They visited Oahu, Maui, Kauai and Hawaii. Barbara said they hit all the spots a good tourist should, including the Polynesian Cultural Center, Pearl Harbor and the National Volcanoe Park. Except for one rude lizard, the girls had a wonderful stay.

After they returned to the mainland Barbara was off again. This time to Kansas City where she was an official delegate from Calif. to the Annual National Convention of Sweet Adelines. After an harmonious meeting with the 260 other delegates from all over the country Barbara left for Illinois. There she visited her father for a few days, then flew home to Calif. and Ames.

Replying to CHUCK JACKSON, and others—When the guards wave you through a gate they are performing only a security function. They only direct traffic under certain circumstances, i.e., rush hour. In other words, yes, you should stop at that stop sign by Gate 18 even though the guard waves you through.

HAPPY THANKSGIVING!

Rehearsals for Carolers

Rehearsals for employees interested in participating in the annual Christmas caroling at Ames will be held in the lobby of the Auditorium during lunch time, 12 to 12:30 December 6, 7, 8 and 9. For further details call Bill Houck, ext. 2006.

JOGGERNEWS

The first weekly Joggerhandicap race was won by Jerry Barrack, vice president of the club and one of the instigators, or organizers, of the affair. The one mile race started at noon Wed., Nov. 3. There were 17 competitors. Jerry's time was 5:13. Seven of the runners finished in less than six minutes.

The second race, on Nov. 10, was won by Bruce Castle, with Paul Sebesta second. Bruce's time was 5:13, the same as Jerry's the week before.

If you want to combine a fast mile (whatever is fast for you) with fun and competition, meet at noon on Wed. at the corner of Zook and Walcott roads. That is by the air strip, near building 244. Jerry Barrack has arranged for prizes, dancing girls, trumpets, etc.



SPARCS IV. . . The first airbearing vehicle tests of the new fluidic Solar Pointing Aerobee Rocket Control Systems (SPARCS) were witnessed recently at Ames by visitors from NASA Headquarters. Norman Yetka (far right) of the Center's Vehicle Guidance and Control Branch, conducted a tour of the SPARCS test and rocket payload integration facilities for (l to r) Jessie Mitchell, NASA Programs and Resources Management Chief; James Cookro, Acting Program Review and Resources Management Chief; and John Holtz, Explorers and Sounding Rockets Manager.

SKI CLUB

ATTENTION ALL SKIERS!

The Ames Ski Club is having a membership drive. All skiers who would like to become a member, please fill in the application form below and send it along with \$1 membership dues to Vicki Deiwert, Mail Stop 241-11. Membership includes being on the Ski Club mailing list, membership card, drawings for free lift tickets, meetings with guest speakers and movies, and a chance to get to know your fellow Ames skiers.

NAME _____
MAIL STOP _____
EXTENSION _____
ORGANIZATION _____

Note: Last year's membership list will no longer be used for membership purposes.

Art Exhibit at Main Library

WOODCARVINGS EXHIBIT . . . Ten woodcarvings by Fred Buyer of Boulder Creek are being exhibited at the Ames Main Library and will be on display through January 20, 1972.

The bold torched figures, mounted on bright fabric backgrounds, are of redwood and depict many cultures, such as the Egyptian sphinx and pyramid pictured here. The artist, who works as a computer programmer, learned his hobby while stationed on Oahu during a tour of duty with the U.S. Navy. He observed native artisans carving canoes, and from them became interested in woodcarving.

GOLF

... by Kay Bruck

The beautiful Carmel Valley was the setting for Ames golfers and guests who attended the Monterey Peninsula Golfing Weekend on Nov. 6 and 7. Friday evening, Nov. 5, set the mood of the carefree weekend with a no-host cocktail party for all participants to get acquainted (or reacquainted, whatever the case might be). We played at the beautiful Laguna Seca Golf Course on Saturday. The 64 golfers competing for the annual Turkey Shoot were divided into 3 flights.

First Flight-1st place, Ed Stepnoski. Second Flight-1st place, Don Humphry. Third Flight-Bill Page, Clark White, Kay Bruck, and Don Davis in 1st.

The Saturday night Awards Banquet was held at the Los Laureles Lodge (the majority of the group was housed here for the weekend).

The second day of play was at the fabulous Carmel Valley Golf and Country Club (a private club) that was included in our weekend package.

First Place Team-Don and Lyn Dust, Chuck and Jo Prunty. Second Place Team-Ed and Pete Courtney. Third Place Team-John Hawkins; Debby Debevoise, Gil and Nina Fitch.

Our very special thanks goes to Debby Debevoise for his unceasing efforts in putting together this fine weekend of golf.

History of Ames

Copies of the paperback edition of the "History of Ames" by Edwin Haeppan are still available in "The Astrogram" Office. The price is \$4.

WANT ADS

The Astrogram's ad section is provided as a personal, non-commercial service to Ames employees. Advertiser must be identified by name, extension and organization. The name may be left out of the ad but is needed for records. Ads must be submitted in writing to The Astrogram, N 241-4, by Thursday, a week before publication. The advertiser's home telephone number must be provided as a point of contact except in carpool notices.

AUTOMOBILES

For Sale-1946 Chev, Pickup, 55 Buick V-8, 3 2's, Borg Warner T10, \$350. Call Ron 251-3271.

For Sale-1971 Ford Torino, automatic transmission, power steering, power disc brakes, air condition, brand new radial tires, 50,000 mile warranty, radio & heater, must sell \$2795. Call 274-0728.

For Sale-1960 Valiant. Runs well. New transmission. \$95. Call McCloskey, 253-3027 after 4:30 p.m.

For Sale-1960 MGA, only 61,000 miles. \$400. Call 964-2170.

MISCELLANEOUS

For Sale-Dining table, 45", round, opens to 81". Wood base, formica, walnut finish. \$60. 948-5602.

For Sale-Minox model B camera. \$70. 493-1638.

For Sale-Two studded snow tires for VW, \$15; Blender Queen, \$15; refrigerator-freezer, \$70. 493-1638.

Wedding coming up?-Bridal gowns and bridal party gowns, made to fit your individual desires. Call Genie DeGabain, 368-4888.

For Sale-One male German Shepard puppy (9-months) \$10. Ping pong table, new. \$10. Headboard, solid hardwood. \$12. Leica M3, like new, \$300. Crown movie camera 8mm. \$15. Bird cage, \$3. Poker table, \$7. Phone 252-9406.

For Sale-1972 Sierra Club calendars, wall size, engagement size. Regularly \$3.95, sale price \$3.50. Doug Pearson, 967-2970.

For Sale-Guitar, call Bob Taylor. 948-4941.

For Sale-Boy's Stingray Bicycle with handle bar radio. New, never been ridden. Retail \$62.50. Sell \$50. Perfect Christmas present for boy 8 to 10 years old. Call 736-6810.

For Sale-1970 Yamaha motorcycle, DT-1 Enduro. For dirt use only. Many extras. \$550. Call 263-4686.

For Sale-Boat, 20' Cabin Cruiser, 115 hp inboard, glass over wood. Includes trailer. \$1500. Phone 245-2796 evenings.

For Sale-Irish setter pup, male, 8-weeks, pick-of-litter, hunting stock, no papers, \$50. After 5 p.m., 738-3689.

For Sale-1966 Bultaco Matador. 250 cc Dirt Bike. \$275. D. Wilson, 356-8316.

For Sale-Labrador Retriever. AKC, male, 7 months. Well started. Has retrieved ducks this season. Call 262-6567.

Wanted-HO train set, contact Wendell Love, 327-2418.

For Sale-Zenith TV, 23 in., b & w, maple console cabinet, refurbished, including new picture tube. 967-6188.

For Sale-Baby furniture, stroll-o-chair set \$95. Wind-up swing \$10. Chico evaporative room air cooler with stand \$15. Dennis Riddle, 244-8117.



BLOODMOBILE TO VISIT AMES

FRIDAY, DEC. 10

AMES AUDITORIUM, BLDG. 201

9 AM TO 1 PM