Dr. Winter, Life Sciences Deputy

Dr. David L. Winter, M.D., has joined Ames as Deputy Director of Life Sciences. He comes to Ames from the Walter Reed Army Institute of Research, Washington, D.C. where he was chief of the Department of Neurophysiology.

Dr. Winter was born on November 10, 1933, in New York City. He received his A.B. from Columbia College, New York, in 1955, and his M.D. from Washington University, St. Louis, Missouri, in 1959. Following a Surgical Internship at Barnes Hospital, St. Louis, Missouri, he was a Neurosurgical Resident at Baylor University School of Medicine in Houston, Texas. In 1960 he left clinical medicine and became a Teaching Fellow in the Physiology Department at Baylor. In 1962 he entered the U.S. Public Health Service as a Research Medical Officer, stationed at the National Institute of Neurological Diseases and Blindness, Bethesda, Maryland. He joined the Walter Reed Institute in 1964.

Dr. Winter has conducted a personal research program in the neurophysiology of the autonomic nervous system and directed a program of interdisciplinary research directed towards understanding the mechanisms of human adaptation to stress.

He is married and has three children.

THE H. JULIAN ALLEN AWARD... given annually for the best scientific paper written by an Ames staff member, was presented to Verne R. Oberbeck and Dr. William L. Quaide (from right to left), Planetary Branch, for their paper entitled "Thickness Determination of the Lunar Surface Layer from Lunar Impact Craters". George A. Rathert (left), Chairman of the Allen Award Selection Committee, presented the award certificates and $1000 honorarium at the ceremony which preceded a talk by Dr. Quaide.

SPARCS Launch

The Ames-developed SPARCS (Solar Pointing Aerobee Rocket Control System) unit successfully pointed a solar coronal study experiment at the sun during the launch recently of an Aerobee rocket from the White Sands Missile Range. This was the first launch of a SPARCS II system and followed 13 SPARCS I launches.

Initial examination of the experiment data indicates that SPARCS performed as programmed and demonstrated fine pointing stability, according to a report from Edward A. Gabrius, SPARCS Project Manager.

SPARCS was programmed to acquire one limb of the sun at a preselected roll angle and then to traverse the sun at an angular rate of approximately .33 arc minutes per second until a point outside the opposite limb was reached. SPARCS then executed a roll maneuver to a second preselected roll angle and repeated the sun traverse. This scan maneuver caused the 1.7 arc minute field of view of the x-ray systems to collect data from the entire sun. Data available at present indicates pointing stability of approximately 1 arc second peak-to-peak for periods as long as 20 seconds as it performed these scan maneuvers.

(Continued on Page 4)
"Libraries are not made; they grow." This quotation by a late nineteenth century author aptly describes the evolution of the Ames Main Library. From a humble beginning of a few hundred volumes, the library inventory has now reached close to 35,000, with the addition of subscriptions to more than 840 technical journals. There are 250,000 hard copies of technical reports on hand, and some 450,000 on microfiche.

The enlarged facility and increased inventory are merely the tools for better service, according to Ralph W. Lewis, Chief of the Library Branch. Mr. Lewis is responsible for the organization and administration of both the Main Library and the Life Sciences Library and is quick to point out that service is the primary aim of both library staffs. With the physical change has come the complete revamping and redirection of this all-important element.

PROJECT ENGINEER
Project engineer for the renovation of the Ames Library was Marshall L. Biggs of the Center's Research Facilities Engineering Branch. The architect and engineering firm was Simpson and Strata of San Francisco.

THE AMES MAIN LIBRARY...as it looked in January 1967 in these "before" photographs. The entire facility was located on the second floor of the Administration Annex -- and only one half of that area was for library use. Many months of renovation have transformed the clutter and dark corners to a library conducive to study and research.

Art Exhibit at Main Library
The Ames Main Library has an exhibit of 45 works of art from the Los Gatos Art Association and the Group 21 Gallery, Los Gatos, which will be on display until June 1.

REFERENCE LIBRARIAN...Lesley Whitaker (left) assists Ramsey Melugin of the Systems Engineering Division in preparation for a RECON search in the Ames Main Library.

GETTING ACQUAINTED...with the NASA RECON (Remote Console) Information Storage Retrieval System in the Ames Library is John R. Cowley of the Vehicle Guidance and Control Branch. This on-line retrieval system is directly connected to the NASA Technical Information Facility in College Park, Maryland.

THE CIRCULATION DESK...serves as the central reception desk and information point of the Ames Main Library. From here detailed information may be obtained about library services and reference materials.
A QUIET CORNER . . . The study carrels on the second floor of the Main Library invites research and study. Shown here are Dr. Hans R. Aggarwal (left, rear), National Research Council Associate at Ames, George R. Evans (foreground), Assistant Chief of the Library Branch, and Ames research scientists Dr. Robert F. Kubin of the Physics Branch.

WORK-STUDY STUDENT . . . Linda Ratcliffe of De Anza College checks a publisher's catalog in the Abstracts and Index Section of the Ames Main Library. The Moonbase Globe to the right in the photograph is one of the many visual aids in the newly renovated library.

THE PERIODICAL SECTION . . . with more than 800 technical journals and magazines displayed for easy reference forms a backdrop for this comfortable lounge area in the renovated library.

"Open House" at Remodeled Library

Next week will mark a proud period in the history of the Main Library as the newly renovated facility is formally opened. Events begin on Monday, May 17, with a preview for the Director and his staff. On Tuesday, organizational directors and their division and branch chiefs, will review library developments and will view a demonstration of the NASA RECON (Remote Console) Information Storage and Retrieval System. On Friday the entire Ames staff is invited to an "Open House." This is an opportunity for all employees to tour the library, to meet the staff, and to become better acquainted with some of the new and improved services now being offered.

For those employees who will be unable to attend the opening the photographs on these two pages cover many of the highlights of the library as it looks now. When schedules permit, employees are welcome to call or visit the library from 8 a.m. to 4:40 p.m., except Monday, May 17, when it will be closed at 3:30 p.m.
**Job Openings in Travel Agency**

The Campbell Travel Service has openings for outside salesmen on a commission basis, full or part time. This is an excellent opportunity for retired employees or those contemplating retirement who are looking for an interesting occupation. For further information contact the owner of the agency, Evelyn Hoeh, 349 East Campbell Avenue, Campbell, 95002.

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**FASTPITCH SOFTBALL**

...by Bruce Ganzler

The Ames Fastpitch Softball Team scheduled the remainder of the first half of play as follows:

**Opening Team** Date Time Place
Lampkin | 3 | 4:00 | Mari
Ganzler | 2 | 5:00 | San Jose
Lampkin | 1 | 6:00 | San Jose

Ames won its second game against the Hewlett-Packard Owls, Tuesday, May 4, by the score of 5-2. E. Lampkin and B. Ganzler led off the ballgame with line drive singles and later scored on a fielder’s choice and sacrifice, B. Scott scored in the second on a sacrifice to right, B. Scott again led off the ballgame with line drive singles and later scored on a fielder’s choice and sacrifice, B. Scott scored on a sacrifice to right. E. Lampkin and B. Scott again led off the ballgame with singles and scored on a single by M. Green and sacrifice to right by B. Hotlin.

**BOX SCORES**

Lampkin | 2 | 2 | 2
Ganzler | 2 | 2 | 2
Lampkin | 2 | 2 | 2
Hedlin | 2 | 2 | 2
Martel | 0 | 2 | 0
Myers | 2 | 2 | 2
Bell | 3 | 0 | 0
Scott | 1 | 1 | 0
Corbett | 1 | 0 | 0
Randle | 1 | 0 | 0

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**WANT ADS**

**SPARCS LAUNCH**

(Continued from Page 1)

The payload, including SPARCS, is in storage awaiting its being tested. Eight more SPARCS will be launched by the end of August.

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**BOWLING**

...by Dennis Riddle

A great season has drawn to a close! The final standings for the All-Ames 170-71 season are:

**Division I**

1st Place: The Comets (Dale Frankel, Francis Genovia, Joe Martin, Otto Meckler, and Jim Park)
2nd Place: The Riddley Wrecks (Ann Teshima, Frank Cray, Hank Cole, Bob Reed, and Al Silva)

Division II

1st Place: The Alley Katz (Dave Losier, Charlie Hall, Norm Martin, Eva and Bernie Somer)
2nd Place: The Eight Balls (Nancy and Dennis Riddle, Jerry Dickson, Bob Merrick, and Jack Ratcliff)

**JOGGERNETS**

...by Jim Woodruff

Joggernauts Bruce Castle, Paul Sebesta, and Jim Woodruff timed events at the Junior College Regional track meet held May 1 at De Anza College.

The times determined who would compete in the West Coast championship meet. The excitement and enthusiasm of the Junior College Athletes made the Joggernauts feel that their time was well spent.

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**SOFTBALL**

The All-Ames intramural slow pitch softball league is now organizing for the 1971 season. Several teams need players. If you would like to play, either on a full or partial time basis, you are wanted. The games are played on the Mountain View High School field between 5:15 and 6:30 p.m. on Tuesday, Wednesday, or Thursday. No team plays more than one game per week. For further information phone Bill Pitts Extension 2696.

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Alan E. Faye to Participate in 1971-72 Stanford-Sloan Fellowship Program

Alan E. Faye, Jr., Technical Assistant to the Ames Director for Aeronautics and Flight Mechanics, has been selected to participate in the 1971-72 Stanford-Sloan Fellowship Program.

Mr. Faye is the fifth nominee from Ames to be named for this program which provides an opportunity for a limited number of government and business executives with senior management potential to study new concepts in management and to exchange management experiences.

The Program provides the Fellow with a diverse coverage of both business management and the humanities required to effectively cope with the challenge facing technical managers of the future. Added emphasis is being placed in the coming year upon decision theory and the management of research organizations. For those who have attended previous programs it has provided new management tools and broad management perspectives and the ability to make sophisticated analyses of problems and proposals.

In his position as Technical Assistant to the Director of Aeronautics and Flight Mechanics Mr. Faye is responsible for executing the technical and administrative staff work of the Directorate with its more than 460 employees. His technical management role also includes analysis of the proportion of resources to be devoted to various programs in the Directorate as well as preparing the technical justifications required to obtain funding for the programs.

Prior to his present assignment, to which he was appointed in 1963, Mr. Faye was an aeronautical research engineer in the Flight and Systems Simulation Branch. He began his Federal civil service career at Ames in 1956.

Born in Waimoa, Kauai, in the Hawaiian Islands, Mr. Faye was graduated from the University of Washington with a B.S. degree in Aeronautical Engineering in 1956, and has done post-graduate work in Electrical Engineering and Advanced Mathematics at San Jose State College. He also attended the management training course in "Administration of Public Policy" at the Civil Service Seminar Center in Berkeley.

In 1961 he attained commercial pilot status with a Flight Instructor rating, Instrument rating in 1962, a seaplane rating the same year, and in 1968 and 1969 he undertook helicopter training.

With his broad interest in the physical sciences, especially in aeronautics and avionics systems, and in the management sciences, and his participation in the Sloan Program, Mr. Faye will be able to contribute many years of creative technical management to NASA and Ames Research Center.

Mr. Faye has said of his forthcoming year at Stanford, "I feel fortunate to be involved in an exciting age of man where the proper management of modern technology can lead to developments that can be of utmost benefit to the individual."

R.T. Jones Awarded Honorary Ph.D.

An honorary Doctor of Science degree has been conferred upon Robert T. Jones, Ames Senior Staff Scientist, by the University of Colorado at Boulder. He received the degree at Commencement exercises held this week at the University.

Mr. Jones is an internationally recognized authority on aerodynamics and in the fields of optics and biomechanics.

His contributions to aerodynamics include the development of a theory for swept wings which was instrumental in advancing aircraft speeds into the transonic and supersonic ranges, now applied as a standard feature of the design of large transport aircraft such as the Boeing 707 and the 747; and the theory of slender "delta" wings applicable at both subsonic and supersonic speeds. These developments in wing theory by Mr. Jones appear in texts by the noted scientist Dr. Theodore von Karmen.

Mr. Jones began his NACA-NASA career at Langley Research Center in 1934, and in 1946 he joined the Ames staff as an aeronautical research scientist, continuing his research toward the development of supersonic aircraft.

For many years Mr. Jones served on the Editorial Board of the Annals of the Aerodynamical Sciences and is a former editor of Annual Reviews of Fluid Mechanics.

For the past seven years Mr. Jones was with the Avco Everett Research Laboratory as chairman of the AERL Medical Research Committee. In this capacity he directed efforts in the development of Cardiac assist devices—a development which has involved the application of fluid dynamics to problems of blood flow, the design and fabrication of blood pumps as well (Continued on Page 2)

Dryden Memorial Dedication

In commemoration of the late Dr. Hugh L. Dryden, Deputy Administrator of NASA and Director of the NACA, a new auditorium of the National Academy of Sciences was dedicated recently in Washington, D.C.

Dr. Dryden's many friends from Ames and throughout the country contributed generously to the funding of the Auditorium which has been constructed as an integral part of the Academy Building.

PAET...the Ames-managed Planetary Atmosphere Experiments Test spacecraft was loaded aboard an aircraft last week for shipment to NASA's Wallops Station in Virginia. PAET was conceived, designed, developed and built at Ames and is scheduled for launch from Wallops on June 14. Project manager is David E. Reese, Jr., Assistant Chief of the Vehicle Environment Division.
**Hadley Rille Center of Controversy**

The Moon’s Hadley Rille, landing site for the Apollo 15 mission scheduled for launch in July, has recently been the subject of scientific controversy. The dispute centers on the question of how the Hadley Rille and other such lunar rilles are formed.

**APOLLO 15**

The Apollo 15 mission, commanded by Astronaut David H. Scott, with Alfred M. Worden, Jr. as Command Module pilot and James B. Irwin as Lunar Module pilot, will photograph the rille, take samples and collect data that may, when interpreted, indicate the answer to this question.

There are presently several theories concerning lunar sinuous rilles. It has been proposed, for instance, that they were formed through erosion, either by ash or by water, as were the Earth’s river valleys. Judging from recent photographs of the Moon’s surface, the lunar sinuous rilles outwardly resemble the Earth’s river valleys. However, the lunar rock samples brought back from the Apollo missions indicate that water has not been present during the Moon’s recent history.

Another theory, postulated by Ronald Greeley of the Planetology Branch, contends that some sinuous rilles on the Moon’s surface, including the Hadley Rille, are formed by lava flows. For the past three years a study has been in progress of the basaltic lava flows of Hawaii, California, Washington, Oregon and Idaho to determine how structures formed and are modified with time. They have found that lava, as it flows, develops channels within the flow. As the lava begins to cool, it may form a roof of hardened lava over itself, thus making a tube.

**OPEN CHANNELS**

Later, sections of the roof will collapse, leaving open channels and caves exposed. The resultant channels are very similar in appearance to lunar sinuous rilles, with one exception. The channels formed on Earth are smaller than the Moon’s meandering rilles. The Hadley Rille for instance is about a half mile wide and 1,200 feet deep.

One explanation for this discrepancy, offered by the Ames scientists, is the Moon’s environment. The lunar basalt is more fluid and retains heat much better than terrestrial lava, allowing much longer, larger flows and channels on the moon.

**Finance Class**

The television seminar in Personal Financial Development will begin its fifth consecutive quarters of classes on June 21 in the Ares closed-circuit TV classroom. Classes are Mondays, Wednesdays and Fridays, from noon until 1 p.m., and will run for eight weeks.

**NASA’s Policy on Trial Retirement**

NASA has an established policy on trial retirement with provisions which may be of interest to eligible employees at Ames. To participate, an employee must be eligible for optional retirement. Employees who are eligible for disability, discontinuation, or mandatory retirement are not eligible to participate.

The trial retirement program enables an employee to “try” retirement for a period of up to one year; at the end of the year, the employee has the option of returning to work at a comparable position.

In preparing for trial retirement there are certain steps to be performed, they include proper and timely notification of intent, a signed agreement, the approval of the Center Director, and related items. Interested employees are encouraged to contact Mrs. Betty Thomas, ext. 241 for specific details.

**F.R.C.’s Paul Bickle to Retire**

Paul F. Bickle, Director of the NASA Flight Research Center has announced his retirement effective May 31. Mr. Bickle has been the Director of Flight Research Center since September 1959, after a 26-year civilian career in aeronautical engineering with the USAF. Mr. DeR. Beelder, Deputy Director of the Center, has been named Acting Director.

As Director of the NASA facility, he has been responsible for the flight operation of many major aeronautical research programs, including the highly successful rocket-powered X-15, the supersonic X-70, the Lunar Landing Research Vehicle, and the wingless lifting bodies, forrunners of the space shuttle and reusable boosters.

**ALL ABOARD! CLUB**

**ARA Ames Family Day**

The Ames Recreation Association (ARA) is sponsoring a “NASA-Ames Family Day” at Roaring Camp in Felton on Saturday, June 5 from 10 a.m. to 6 p.m. A feature of the day’s events is Roaring Camp’s old-fashioned steam train excursion through the redwood forests of the Santa Cruz Mountains for $2—a savings of $1 off the regular rate.

To attend the event, Ames employees must have the 1971 Roaring Camp ALL ABOARD! CLUB membership card available now in “The Astrogram” office, Bldg. 241.

**R. T. JONES**

(Continued from Page 1)

as the development of electronic and pneumatic control systems. He returned to work at Ames in October of last year.

He has a distinguished list of invited papers which he presented both here and abroad. His honors include the Sylvanus Albert Reed Award of the American Institute of Aeronautics and Astronautics (AlAA), and he is a Fellow of the AlAA.
An Exceptional Report... from the General Accounting Office as a result of an Ames payroll records audit, has earned a NASA Group Achievement Award for the Payroll employees. During the very extensive investigation, the first since 1963, between 300 and 400 individual records of retirees and those of employees presently on the rolls were reviewed. Each record reflected every status or pay change of an individual during federal employment. Upon completion of the GAO audit the payroll group was commended by the auditor for high quality performance. Shown receiving a letter of commendation signed by the Ames Director, Dr. Hans Mark, and a monetary award from Raymond J. Steffen (right), Chief of the Accounting Branch, are (from l to r) Helen P. Bolt, Shirley E. Pearson, and Rhea M. Wattles. Not present for the ceremony was Bernice S. Martin.

Modeling... a lounging robe presented at a retirement luncheon in honor is Evelyn K. Olson (left), Flight and Systems Research Division. Friends and business associates in the Full-Scale and Systems Research Division got together recently to extend best wishes to Evelyn before she left the Center after working here for 15 years. She has been referred to as “the last of the computer girls” - a close-knit group of math technicians notable for their efficient and accurate reduction of flight test data. Nine years ago Evelyn developed a method for solving cubic and higher order equations which was later adopted for general use in the PSR computing section. For this contribution she received a NASA performance award. At the farewell party Seth Anderson (right), Research Assistant for Interagency Programs in the Division, made the gift presentation and is pictured taking in the modeling action.

Retirement Means Hard Work... Alberta Alksne, Theoretical Studies Branch, has decided to retire after thirty years at Ames. Retirement for Alberta, however, is going to require more work than did the job from which she retired. She is leaving soon after her farewell party for East Africa. There she will be trained for three months by the Peace Corps as one of their teachers. After training she will spend two years in Kenya teaching Math and Physics at the intermediate level.

Alberta Alksne, a research scientist from the Theoretical Studies Branch, will retire this month after thirty years of service at Ames. Like many retirees, she hopes to spend some time in a slow rural area. Unlike most retirees, the slow rural area she has in mind is in Kenya, on the coast of East Africa.

Alberta’s idea of retirement is a little unusual, it allows no time for leisure. After her last farewell to Ames, she will leave for Nairobi to begin a rigorous three-month training program with the Peace Corps. After training she will spend two years in Kenya teaching Math and Physics at the intermediate level to Bantu, Somali and Masai students.

The Peace Corps and Kenya were natural retirement choices for Alberta. She has been actively interested in social work for the past several years. Until retiring she served as an Equal Employment Opportunity Committee member and Counselor here at Ames. In East Palo Alto, she helped to organize the Opportunity Industrialization Center West, an organization to train the unskilled.

During an interview she explained that she had chosen to work in Kenya because of a desire to get away from suburban America and to live in a foreign, and slower-moving society. The inland regions of Kenya, rather than the fast-paced Nairobi is her first choice, but that decision will be made by the Peace Corps.

Kenya also had an added attraction for Alberta; the 1973 solar eclipse. She has photographed solar eclipses in Canada, Peru and Mexico and said “I would hate to miss this opportunity to photograph such a fantastic eclipse.”

Alberta admits to being apprehensive about only two aspects of her stay in Kenya, that is, learning Swahili and teaching. It will be her responsibility to prepare students for college entrance exams in Math and Physics, “This is a great responsibility for someone who has never before taught”, she said. However, she has confidence in her mastery of the subjects and confidence in the Peace Corps training program.

Housing Needed for Forensic League Finalist

Free housing is needed, preferably in the Palo Alto area, June 16 through 19 for three teenage boys and a couple (who will be their chaperones). The boys are representing the State of Virginia for the National Forensic League Finals that are being held at Stanford University. They are coming here on a very limited budget and cannot afford the Stanford Dormitory prices. Please contact Lea Dodge, ext. 2129.
NEWS OF THE WEEK: EDWARD KELLEY, Marine, who got a hole-in-one on the 7th hole at Los Gatos Golf Course - 195 yards! And the best part of it was all those other sufferers from the Marine Branch standing there watching. No wonder he’s been wearing those Arnie Palmer shirts to work.

Did you hear the latest about those Nitchberg girls, MARTHA and KATIE? Their father, GERARD NITZBERG, Office of the Deputy Director, doesn’t deny it either. They’re so well-known that the Palo Alto Times ran a story on them. According to the Times, Martha, 11, and Katie, 14, spend their Friday afternoons collecting cans and bottles from their neighbors. Then, Saturday morning they take the load to the Ecology Action Collection Center at 2500 Park Blvd, in Palo Alto. There the bottles and cans are prepared for recycling.

The girls have been collecting since September to improve our environment. Isn’t it nice to know there are such great people around.

MARSHAL BIGG8, Research Facilities Engineering, spent two weeks in Mexico recently. He said he called MARTHA KESSLER for an appointment at her camera and took a picture of her husband’s favorite, though, was parachuting behind a boat across the bay at Acapulco. His favorite, though, was the folklore ballet. His favorite, though, was the pyramids and the desert.

Back to Marshall - He loved Mexico City; the pyramids and the desert. Isn’t it nice to know there are such great people around.

THE NEW MR. AND MRS. FIRPO

The former MIDGE SHOEMAKER and her husband Herbert Firpo who honeymooned in Southern California; the pyramids and the desert. They’re so well-known that the Palo Alto News ran a story on them. Their house was filled with such great people around.

And the best part of it was all those other duffers from the Marine Branch standing there watching. No wonder he’s been wearing those Arnie Palmer shirts to work.

JOGGERNEWS

So, when her husband wanted to remember every detail of the trip. So, when her husband wanted to remember every detail of the trip. So, when her husband wanted to remember every detail of the trip. So, when her husband wanted to remember every detail of the trip. So, when her husband wanted to remember every detail of the trip. So, when her husband wanted to remember every detail of the trip. So, when her husband wanted to remember every detail of the trip.

VISITOR FROM JAPAN . . . Ken Tashino (center), a United Nations Fellow for the Japanese Government, is spending four months in the United States studying the operations of local governments.

THE MEETING WILL BEGIN

The meeting will begin with some business at 11:30 - election of new officers and a decision about dues. Those wishing only to hear Dr. Sevelius are welcome to come at 12:00 noon. The meeting will be in the conference room, 261, of the Instrument building, N 213.

FIGHTING PUMAS

The Fighting Pumas are off to a roaring start in the 1971 Amos softball pennant race. On May 12 the defending champs squeaked by Metals Fabrication (MFb) 11 to 10, scoring the tying and winning runs in the last inning on a double by Sten Forstenberg. Then May 20, they topped the Fumigating Instruments with a 9-run third inning and went on to win 14 to 8.

It looks like a new year for Space Science, 1970 cellar-dwellers. The Spacemen scored a fantastic comeback with 8 big runs in the last inning to zap FB 12 to 11. Standings through May 21:

W L

Fighting Pumas 2 0
Space Science 1 0
TGD 0 0
MFb 0 0
RFE 0 1
Instruments 0 1

For Sale-Beautifully burned off the old hickory numbered and signed Lawrence Walk with your own Custom process stamping, $80.00, exact copy. Call 227-8587.

For Sale-KF for sale! Must sell our Guardsman refrigerator. If you call 424-6982 and have their "credentials" from ACC, AMI to hand, he shows, or just call, 227-8187.

For Sale-CLIO Aug. 15th, $75.00, call 238-2245.

Leaving Must sell all electrical appliances, desk, stereo, bar, etc. House needs painted. Call 226-1370.

WOOL-100% wool sweaters, 15 camisoles. Ask for the lovely black wool in each. Call 226-1370.