

**Arsenal-Wide
Spot News
Dial 112**

The Redstone Rocket

Published by Jack W. Hoffhaus, Hartselle, Ala., a private individual in no way connected with the Department of the Army. Opinions expressed by the publishers and writers herein are their own and are not to be considered an official expression by the Department of the Army. The appearance of advertisements in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

VOL. XVI; NO. 21

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA 35809

OCTOBER 4, 1967

SYSTEM CONTRACTS LET



GEN. JAMES K. WOOLNOUGH

CONARC CG To Visit At School

General James K. Woolnough is scheduled to make his first official visit as commanding general of the U. S. Continental Army Command to the Army Missile and Munitions Center and School, on Monday, Oct. 16, it is announced by Col. Paul B. Schuppener, commandant.

Gen. Woolnough will be accompanied by Mrs. Woolnough; Col. K. W. Volk, his executive assistant; and Sgt. Major F. J. Bennett, all of Fort Monroe, Va.

He is to be welcomed with military honors at Redstone Army Air Field at 10 a.m. by Maj Gen. Charles W. Eifler, commanding general of the Army Missile Command. The CONARC commander will meet key Arsenal personnel and civic leaders at a luncheon at (See CONARC on Page 3)

Chaparral Goes On Display At AUSA Meet Monday

The Army will publicly display for the first time next week at the 1967 Annual Meeting of the Association of the U. S. Army hardware of the Chaparral Missile System whose development is assigned the Chaparral Management Office at Redstone.

The equipment, a tracked vehicle with a firing unit including four missiles, will be a part of the Vulcan/Chaparral display in front of the Sheraton-Park Hotel, Washington, D. C.

Chaparral and Vulcan are scheduled to be unveiled Monday morn-

ing along with the Army's Main Battle Tank of the 1970's. Other outdoor displays of new equipment include the Cheyenne and Hueycobra helicopters and the 175 mm Gun.

Other Army Missile Command equipment expected to be exhibited in various industrial contractor displays include hardware of the Pershing, Shillelagh, Dragon and Lance missile systems and an experimental hybrid test rocket developed by the Research and

(See AUSA on Page 3)

Lt. Col. Van Auken Is New Dragon Project Head

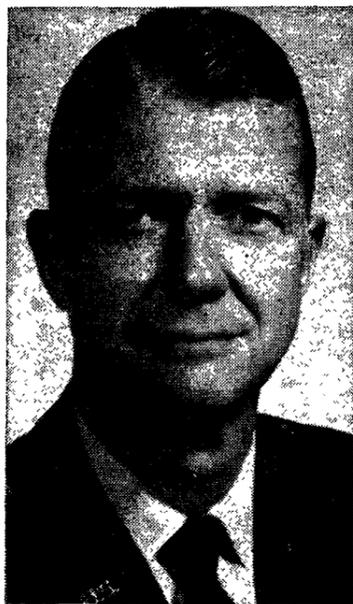
A West Point graduate and an officer widely experienced in Army ordnance and military tactics has been named Dragon Project Manager at the U. S. Army Missile Command.

He is Lt. Col. Kenneth C. Van Auken who just recently completed studies at the Army War College. He replaces Lt. Col. John H. Boyes who was assigned to duty in Vietnam.

This is the second tour at Redstone Arsenal for Col. Van Auken. He served with the Industrial Division, Army Ballistic Missile Agency, from May 1956 to July 1959. As Dragon Project Manager, he now has complete responsibility for development and management of the Army's shoulder-fired weapon system being designed to kill armor and other infantry targets.

A native of Merion, Pa., the 43-year-old colonel graduated from the U. S. Military Academy in 1946. Later, he enrolled at Pur-

(See DRAGON on Page 3)



LT. COL. VAN AUKEN

ABM, Nike Hercules, Pershing, Chaparral Buyers Earmark Money

Contracts totaling about \$62 million were awarded the past week by the Army at Redstone for work on four missile programs, including land combat, air defense and anti-ballistic missile systems.

Largest single Award went to the Western Electric Company with a \$43,425,000 addition to an existing research and development contract. Approximately \$18,000,000 of this is the result of the decision announced September 18 by Secretary of Defense Robert S. McNamara to deploy a Chinese Communist-oriented, anti-ballistic missile (ABM) system.

The contract is not a production award, but an addition to an existing research and development contract.

This is the initial implementation of the deployment decision. The remainder of the announced addition is for continued research and development of the U. S. Army's Nike-X system.

The Nike-X fiscal year 1968 R&D contract was signed earlier this month. Under that contract with the U. S. Army, Western Electric Company received initially \$215,270,329 for continued development effort on Nike-X.

The Chinese-oriented ABM system which will be deployed consists of two types of radars and two interceptor missiles.

A major portion of the work under the contract addition will be performed by Bell Telephone Laboratories at Whippany, N. J. It will include development of defense site and construction criteria, system documentation, training requirements, communications equipment and computer programs.

The contract will be managed by the U. S. Army's Nike-X Project Office.

The award, which will be funded in increments, was made by the

Project Office. Western Electric, is the system prime contractor.

The contract addition also calls for increased work at General Electric Company, Syracuse, N. Y., on the Perimeter Acquisition Radar; at McDonnell Douglas Corp., Santa Monica, Calif., on Spartan missile ground support equipment; and at the Martin-Marietta Corporation, Orlando, Fla., on the Sprint missile ground support equipment.

NIKE HERCULES

Two contracts totaling \$7,777,413 were awarded to Western Electric Company for work on the Nike Hercules and Improved Nike Hercules air defense guided missile system.

The larger contract, for \$6,918,054, is for engineering services; The other, for \$859,359 is for continuation of a research and development contract for 10½ months.

Work under the contracts will be performed at the company's facility at Burlington, N. C., at the McDonnell-Douglas Corporation at Santa Monica, Calif., and at General Electric Company, Syracuse, N. Y.

Nike Hercules is the United States primary high altitude air defense weapon. In tests it has proven successful against high performance aircraft at a variety of altitudes and has successfully intercepted short range ballistic missiles.

Col. M. W. Pettit is Project Manager for the Army Missile Command. Western Electric Company is the prime contractor.

(See SYSTEMS on Page 3)

Jean Walker Has Busy Life In Silent World

A silent world is a lively one for Nellie Jean Walker, key punch operator in the Consolidated Supply Division at the U. S. Army Missile Command.

She has been working for the Army at Redstone Arsenal since May and already is able to pinpoint the vagaries of her machine quicker than someone who just listens to the hum instead of being aware of the rhythmic vibrations. Jean has been deaf since she was three and one-half. No one knows why. She could hear, then she couldn't.

At the time her mother and father lived at Ocilla, Ga. When Jean was ready for special schooling she went to Cave Springs, Ga.

After she graduated, she returned to school for a visit at the same time that Kenneth Walker's sister also returned for a visit. The two girls met for the first time. Kenneth's sister told him about Jean so, curiosity piqued, he visited her in Athens, Ga.

Three months later they were married at the home of her parents, Mr. and Mrs. Norman Barrett.

Jean doesn't join her husband,

an offset pressman in Huntsville, when he takes gun or fishing rod into the field. She stays home with their two normally talkative children, Tammy, four and a half, and Tim, one and a half. The last member of the family is Tuffie, a cat, named by Tammy.

Keeping up with the family, attending special classes at a local business college, and teaching an adults ladies class (which she still teaches) at the Fanning Heights Church of Christ, occupied Jean's time before she came to work at the Arsenal.

She graduated at the top of her class, took the Civil Service exam and was placed on the register. When her supervisor, Mrs. Wister Woody of Arab, learned that Jean is deaf and mute, she almost panicked, pre-supposing she couldn't communicate except in writing—a form she considers clumsy for giving advice and instruction. She told herself, however, if other people could communicate with Jean, she could and she does by signs, expression and notes.

One of the qualities that Jean

displayed immediately was perception. "Tell her once", Mrs. Woody says, "and she does it accurately the first time. She never forgets."

This year is the 20th anniversary of the President's Committee on Employment of the Handicapped. The committee estimates that the income taxes paid by rehabilitated handicapped persons during the past 20 years total nearly \$200 billion.

Statistically speaking, Jean is one of more than 1.8 million handicapped men and women educated through Federal-State programs of vocational rehabilitation. Last year, local employment officers placed 309,000 handicapped people in jobs.

Jean is no statistic, however. She is a vibrant girl with lively brown eyes that sparkle. Her smile is easy and warm, a factor that has made her a favorite in the eight girl section in which she works. In fact she is the epitome of the want ad which says: Wanted: Intelligent girl, willing to work and learn, good grooming essential, in office catering to exclusive clientele.



NELLIE JEAN WALKER

The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket only through the Information Office, Army Missile Command, Redstone Arsenal, Ala., 35809 Bldg. 5250, Room A-136, Extension 876-1400 or 876-1500.

All advertising copy and payments therefor are received by Mrs. Vergie Robinson, P. O. Box 346, Huntsville, Ala., 35804, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wanted—is noon of Friday before publication.

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Rocket Ruminations

Who can refute a sneer? —William Paley

"Hire The Handicapped—It's Good Business"

Hiring individuals who are physically handicapped is proving to be good business for employers all over the United States.

It was only 20 years ago that the President's Committee on Employment of the Handicapped was created. Purpose of the committee was to promote a climate of opinion in America leading to full acceptance of the handicapped in the labor force of the nation.

As we take note of the special week which President Johnson has proclaimed in support of this program, it is not difficult to know that it has been a success. All of us can look around us daily and see examples of handicapped persons making a good living for themselves and their families while they help shoulder the work of the world. This has not necessarily always been true.

It is estimated that Federal income taxes paid by rehabilitated handicapped persons during the past 20 years total nearly \$200 billion, and that more than 1.8 million handicapped men and women have been rehabilitated through Federal-State programs of vocational rehabilitation.

The real record has been written by the handicapped themselves. They are answering well for themselves on their jobs.

Association Of The U. S. Army

The Association of the U. S. Army will hold its Annual Meeting in Washington next week. We shall be represented in the policy sessions there, but since our local Tennessee Valley Chapter of the Association has a membership of almost 4,000, more of us will be about our work as usual at Redstone next week than attending the national convention.

However, this should not keep us from lending every support possible to an organization which represents our best interests.

We can and should support it on a local level. It is possible for us to attend meetings of our Tennessee Valley Chapter and to participate in its activities. Informative programs and the opportunity for exchanging ideas on military matters are readily available.

AUSA is a professional organization in which membership is open to all Army military and civilian personnel as well as associated contractors and other friends from the community. It is our organization, for us, but being able to do for us only what our support assists it to do.

CFC Gifts Are Larger Per Capita In '68 Drive

"A larger per capita gift from a greater number of participants," describes the second weekly progress report for the 1968 Combined Federal Campaign now in progress at Redstone and throughout the Huntsville area.

Contributions totaling \$204,355 and averaging \$24.93 per gift have been turned into the Army's Campaign headquarters during the first two weeks of the drive.

Personnel at the Marshall Space Flight Center have contributed an

additional \$84,245 to the campaign boosting the overall funds received to \$288,600. The overall per capita gift is \$25.40, approximately \$5 higher than a year ago.

At a comparable point in the 1967 drive the contributions totaled \$198,183 from the Army and \$101,909 from the Marshall Center.

"In getting off to a fast start," Al LaGrone, the executive chairman for the drive, said, "we have an excellent chance to close out the solicitation period in two or

Office of CG — Geo. O'Reilly	13	13	100
Hqs. Staff Offices — Geo. O'Reilly	235	154	66
ADCCSO — Howard Shaeff	81	72	89
AMMCS — LTC Russell Teal	2,871	938	33
C&DP — Abner McNaron	109	109	100
Proc & Prod — James Fowler	1,422	1,190	84
Qual & Rel — Aaron Brackeen	36	30	83
Res & Dev — William Lindberg	1,225	830	68
DASO — J. C. McKinney	3,625	1,868	52
Air Defense — Fred Sayers	446	224	50
Land Combat — Robert Malone	414	200	48
Sup & Maint — Joseph Coffman	1,720	1,213	71
Msl Intell — Thomas Anderson	145	135	93
Metrology Center — David Rice	226	41	18
Nike-X — Paul Phillips	343	325	95
Thiokol Corp. — J. B. Galloway	846	719	85
Rohm & Haas — Robert Shanks	290	136	47
Cash Donations		\$ 57,763.46	
Payroll Deductions		146,591.76	
Total Funds Collected		\$204,355.22	

three 'more' weeks."

In voicing complete confidence for overall success of the drive, LaGrone added that, "Over 72 per cent of the Army objective has already been banked."

The large surge in contributions for the second week was reported by the large organizations with the Procurement and Production Directorate reaching 84 per cent participation from gifts totaling \$29,329.

The Supply and Maintenance Directorate is not far behind with contributions totaling \$31,427 being turned in by 71 per cent of the Directorate's assigned strength.

The Research and Development Directorate has 63 per cent participation with gifts totaling \$28,869 while the Directorate of Arsenal Support Operations is at 52 per cent and \$34,451, the largest organizational contribution.

The Nike-X Project Office came within five per cent of joining the 100 per cent club that already includes the Comptroller and Director of Programs Office and the Office of the Commanding General.

1,800 AIRLIFTED

Approximately 1800 persons were airlifted from Travis AFB, Calif., during August marking the third highest in the 24-year history of the base. Passenger traffic for the month was exceeded only in July and August of 1966 during a national airlines strike. (AFPS)

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AUSA

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Development Directorate.

The Tennessee Valley Chapter of AUSA has suggested two resolutions for consideration at the Association's Annual Meeting which opens Monday morning and will be concluded Wednesday evening.

One of the resolutions supports military research and development and the other extends special commendation to civilian employees of the Army.

Chapter President J. Burl Galloway said resolutions had been planned on "Defense Against Ballistic Missiles," "Civil Defense," "Military Housing," and on "The ROTC Program," but that the George Washington Chapter, AUSA, has submitted excellent resolutions on these subjects, and that the local chapter would endorse them instead of submitting duplicate resolutions.

Galloway has been designated official delegate to the meeting representing the local chapter. His alternate is Fred Glickman. Another local chapter member who will be attending in an official capacity is Karl Woltersdorf, a member of the 1967 Resolutions Committee.

Text of the two Tennessee Valley Chapter submitted resolutions are as follows:

"WHEREAS, combat operations in Vietnam deserve and receive the first priority on our national resources; and

"WHEREAS, additional major commitments have been made by the Federal Government to new domestic programs; and

"WHEREAS, allocation of funds for the development and production of future military materiel is correctly being subjected to intensive study and examination, and

"WHEREAS, the rapid advance of science and technology makes continued superiority in weapons research and development imperative to the security of the United States, and

"WHEREAS, the American people have repeatedly demonstrated their understanding of this principle and their willingness to contribute to the maintenance of the national security; and

"WHEREAS, the combat effec-

tiveness of the United States Army is directly related to its ability to adapt continually emerging technology to the unique and diverse requirements of land combat; and "WHEREAS, the exploitation of new technology can only be properly accomplished by a broad-based, adequately funded research and development program by the Armed Forces and American industry;

"NOW THEREFORE BE IT RESOLVED; that the Association of the United States Army vigorously supports a soundly financed, well managed, sustained military research and development program as absolutely essential to the security of the United States and our commitment to the defense of Freedom throughout the World."

ARMY CIVILIAN EMPLOYEES

"WHEREAS, the Army has traditionally worked closely with the civilian population in achieving our national objectives; and

"WHEREAS, the civilian employees of the Army have rendered loyal and invaluable service both in the United States and overseas, oftentimes at great personal sacrifice; and

"WHEREAS, Department of Army Civilians are among the most active members of the Association of the United States Army; and

"WHEREAS, it is in the best interests of the country and the Army to recruit and retain effective, highly-trained civilian employees;

"NOW THEREFORE BE IT RESOLVED; that this Association extends special commendation and gratitude to the civilian employees of the Army and recommends that dynamic career programs be established to recruit, train, and adequately compensate these personnel."

The 1967 Annual Meeting will be opened Monday at 10 a.m. by Elvis J. Stahr, AUSA National President, and Army Secretary Stanley R. Resor will give the keynote address.

Discussion subjects for Monday afternoon include "Strategic Mobility," "Reserve Component Affairs," and "Armor in Vietnam." An evening reception will honor Sec. Resor and Gen. Harold K. Johnson, Army Chief of Staff.

Tuesday morning discussions will include "The Army's Role in Latin America," "Automation on the Battlefield," and "New Developments in Communications." Gen. Johnson will speak during a luncheon meeting.

Discussion topics for Wednesday are "The Changed Face of NATO," "R&D Support of the Army in Vietnam," and "Today's Fighting Soldier."

The annual business and awards session will be held in the afternoon and in the evening the Marshall Memorial Dinner and an address by Ambassador Henry Cabot Lodge will conclude the 1967 Annual Meeting.

SYSTEMS

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PERSHING

Contracts totaling almost \$6.7 million were awarded for work on the Pershing missile system.

More than \$6 million went to Martin Marietta Corp., system prime contractor, and the rest went to Bendix Navigation and Control Division.

A \$1.6 million contract was awarded Martin for continuation of installation of modification kits on the system. The cost plus fixed fee contract calls for the modification work to be done with Army battalions at various field sites in the United States and Europe.

The second award to Martin, for \$3.6 million, covers purchase of Pershing ground support equipment. This is a fixed price incentive contract.

A third award to Martin was for an extension of an existing contract for industrial engineering services. The amount of the award is \$791,404.

A cost plus incentive fee award of \$701,136 went to Bendix for engineering service on the Pershing. Work will be done at the company's Teterboro, N. J., facilities.

Pershing is the Army's longest range surface-to-surface missile. Technical supervision is under the Missile Command's Pershing Project Office. Lt. Col. Edwin A. Rudd is Project Manager. Martin Marietta is prime contractor.

VULCAN/CHAPARRAL

The Army awarded \$4,024,297 to the Aeronutronic Division of Philco-Ford Corp. to cover incorporation of major improvements in the Chaparral air defense guided missile system. The work will be performed at the contractor's Anaheim, Calif. Plant.

Chaparral is one of two major weapons selected by the Army to provide field commanders with

DRAGON

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due University where he earned his Master's Degree, specializing in gas turbines and jet propulsion.

He also is a graduate of the Command and General Staff College, the Armed Forces Staff College, the Infantry School at Fort Benning, Ga., and the Ordnance School at Aberdeen Proving Ground, Md.

In other assignments, Col. Van Auken has served in the Office, Chief of Ordnance in Washington; with the Ordnance Section, Headquarters 8th Army in Korea; with the 547th and 701st Ordnance Companies in Germany; with the Logistics Division, SHAPE, in France, and at White Sands Missile Range, N. M.

He is married to the former Virginia Iden Poohl of Garmisch-Partenkirchen, Germany, and they have four children, Elaine 17, Virginia 15, Karla 13 and Kenneth 5.

low altitude air defense as part of newly-organized air defense battalions. The other system is the Vulcan.

Chaparral is an infrared heat-seeking missile which is mounted on a highly mobile tracked vehicle, and was developed by the Army to meet requirements for a forward area air defense weapon.

Technical direction of the program is assigned to the Chaparral Management Office at the Army Missile Command. LTC Donald Steenburn is chief of the office. The Vulcan/Chaparral Project Officer for the Army Materiel Command is Col. Robert C. Daly.

All Missile Command Contracts were executed by the Missile Command Procurement and Production Directorate.

Pershings Fly Over Western Missile Range

Two Pershing missiles were successfully flown down the White Sands Missile Range last week, bringing to a close the September firing schedule for the Army's long range missile.

Troops from the 2nd Battalion, 79th Artillery, Ft. Sill, Okla., fired the missiles from the Blandings Utah, launch site into their pre-selected target area some 400 miles away.

The firings followed a Sept. 12 Pershing launch that overshoot its target and impacted in Mexico. That missile was recovered through cooperation of the Mexican government.

Pershing is managed from the U. S. Army Missile Command at Redstone Arsenal by Lt. Col. Edwin A. Rudd who was at the Blanding launch site for the firings. Martin Marietta Corp's Orlando Division is prime contractor for the system.

CONARC

(Continued From Page 1)

the Officers Open Mess.

Mrs. Woolnough will be similarly honored by Mrs. Schuppner and wives of ranking Missile Command and School officers; and Sgt. Major Bennett will be hosted by Sgt. Major R. A. Weaver and Missile Command sergeants major at the NCO Club. Gen. Woolnough is to inspect MMCS facilities and depart immediately following the luncheon.

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NCO Wives Open Social Calendar With Coffee

Gen. Eifler To Talk To Wives Club

The Redstone Arsenal Officers Wives Club will hear Maj. Gen. Charles W. Eifler, Commanding General of the Army Missile Command, during the October 10 luncheon at the Redstone Officers Open Mess.

Co-chairmen for the event are Mrs. Paul B. Schuppener and Mrs. John R. Henderson. Mrs. H. C. Sanford is in charge of the menu and Mrs. J. L. Keown the punch. Decorations will be handled by Mrs. Zacarias Rael and Mrs. T. K. Hughes.

Reservations deadline is noon Friday. Members of the reservations committee are Barbara Sherron 837-3713; B. J. Scott 837-4159; Marva Smith 837-4907 and Evelyn Rosseau 837-1904. Mrs. G. T. Higdon 837-4749 will accept cancellations until noon Monday.

BRIDGE WINNERS

R. R. Accardi was high for the men during the Monday night meeting of the Bridge Group at the Redstone Officers Open Mess last week.

F. W. Dill was runnerup. Mrs.

The Non-Commissioned Officers Wives Club opened their Fall social calendar with a welcoming and new membership coffee last week at the NCO Open Mess.

More than 30 attended the event where Fall flowers and colors were used in the table decorations. Members displayed their hobbies and activities on tables around the room. Included were collections of antiques, ceramics, textile painting and other works of art.

Mrs. William Clark, second vice-president, presided at a short business meeting followed by a program of games.

The hostesses were Mrs. Ecolia Russell, Mrs. Joe Cormier, Mrs. Edwin Gedling, and Mrs. Clark.

The Club gained eight new members during the coffee.

Mrs. Compton Wins

Mrs. Witt Compton won at bridge Thursday, playing with the Bridge Group sponsored weekly at the Redstone Officers Open Mess by the Redstone Arsenal Officers Wives Club.

Second was Mrs. S. C. Brown and third Mrs. T. Alvarez with low cards held by Mrs. Paul Scholl.

Five tables were in play. Reservations to play with the group are handled by Mrs. Robert Algeier.

M. Morgan was winner among the women and Mrs. C. M. McBrearty was runnerup.



WELCOMING COFFEE—The Non-Commissioned Officers Wives Club opened their Fall social program with a coffee to welcome new members last week at the NCO Open Mess. Pouring coffee is Mrs. William Clark, second vice-president. Left to right around the table are Mrs. Samuel M. Barbour; Mrs. Ecolia Russell, Mrs. Joe Cormier, program chairman; and Mrs. Walter Bernoski.



ACTIVITIES—During the NCO Wives Club welcoming coffee last week at the NCO Open Mess, members displayed their hobbies and interests. Mrs. Edwin L. Spooner, right, tells (left to right) Mrs. Leslie Nash and Mrs. Alex Cordova about the ceramics she has made for the Christmas season.



CERAMICS AND TEXTILE PAINTING—Mrs. Leo W. Tegtmeier holds an example of her ceramic work as she shows it to, left to right, Mrs. S. Lindquist and Mrs. John Wortham. On the table are linens which have been decorated with painted designs. The table was one of those around the room in the NCO Open Mess where the NCO Wives Club held a welcoming and new membership coffee last week.



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Garden Club Learns About Dried Plants

The Redstone Arsenal Garden Club held its first fall meeting at the Officers Club Wednesday morning, Sept. 27.

A fall centerpiece of fruit and nuts arranged in a basket decorated the coffee table. Hostesses for the meeting included Mmes. Linda Edwards, Brenda Foster, Edith

Foxworthy, Helen Fries, and Lolla Northington.

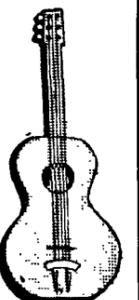
Mrs. M. D. Mitchell presented a program on drying and arranging plant material for winter arrangements. Mrs. Mitchell showed framed wall hangings and jewelry made out of seeds, wall decorations of dried varieties of plants mounted on wood, a beautiful Christmas wreath and Christmas tree wall hanging made from various parts of dried plants. She completed the program by making a lovely candleholder with acorns, nuts, cones, and other dried media which she presented as a door

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PUBLICITY FOR BALL—Mrs. Clarence C. Harvey, Jr., honorary chairman for the fifth annual Harvest Ball, and Mrs. Frederick Niedermeyer, publicity chairman for the event, place a poster in the Redstone Officers Open Mess entrance hall. The Ball is scheduled for Oct. 28. Proceeds are divided between local charity and the Army Distaff Foundation fund which helps provide for wives and mothers of deceased Army officers who would otherwise be unable to live at Distaff Hall.

Harvest Ball Proceeds Go To Charity, Distaff

The 5th Annual Harvest Ball Honorary Chairman, Mrs. Clarence C. Harvey, Jr., has announced that proceeds from the Ball will be divided between local charity and the special Army Distaff Foundation fund which provides maintenance assistance to wives and mothers of deceased Army officers who otherwise would be unable to live at Distaff Hall.

The Ball is scheduled at the Redstone Officers Open Mess between 6 p.m. and 1 a.m. Oct. 28.

Ticket coordinator Lt. Tim Rarigan says that his ticket salesmen are: Fred Babes at Missile Command Headquarters, 876-3302; LTC Kenneth Johnson in Land Combat Systems, 876-2126; Capt. Paul Ricca, R and D Directorate, 876-2722; Lt. Richard Fletcher, P and P Directorate, 877-2098; Capt. John Haag, 876-8769; Maj. Robert Wesson, Missile Intelligence, 876-4281; Lt. Ralph Fross, Support Operations, 876-4192; Lt. Franklin Cochran, Missile School Reception Desk; Lt. Robert Gaines, Nike-X Project, 876-4271; and LTC Lowell Pyle, Marshall Space Center, 876-5403.

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Recognition Luncheon Set Today

The continued excellent response to the U. S. Savings Bond program will be recognized at noon today when approximately 400 military and civilian personnel gather at the Officers Open Mess.

Attending the second annual Recognition Luncheon will be the organizational chairmen who have played an important role in maintaining the Redstone rate of participation above 90 percent for four consecutive years.

Maj Gen. Charles W. Eifler, Commanding General of the Army Missile Command, will be the principal speaker for the affair as he joins with several national and state officials in recognizing the outstanding record.

Glen Johnson, director of the Savings Bond Division for the U. S. Treasury Department, heads the imposing list of dignitaries who have been invited to attend. Also expected are Raphael Morvant, the southeastern regional director, and Oscar Drake, who is the director for the state of Alabama.

The Treasure Department official will present service stars to five MICOM organizations and three elements of the Missile School. The stars will be attached to the Minuteman Flags being flown by the organizations, representing an additional year in which the rate of participation has remained above 90 percent.



WELCOME COFFEE—Mrs. Paul B. Schuppener (center), wife of the newly assigned commandant at the Army Missile and Munitions Center and School, greets another newcomer, Mrs. John S. Scott (right), an Australian whose husband is one of the representatives of 14 countries assigned at the school. At left is Mrs. Zacarias Rael who introduced Mrs. Schuppener to the more than 200 wives of officers and civilians assigned to the school. Last week's event was handled by wives of men assigned to the Officer Training Department. Mrs. Laddie L. Lowe served as chairman.

Astronomers To Meet Tomorrow

Dr. Peter Stumpf, head of the Computation Department at the

National Radio Astronomy Observatory in Green Bank, W. Va., will be the guest speaker at tomorrow's meeting of the Rocket City Astronomical Association.

The meeting begins at 7:30 p.m. at the Planetarium on Monte Sano near the Dude Ranch.

The lecture will cover the relationship of celestial mechanics, physics, chemistry and cosmology of comets. Dr. Stumpf is the co-

author of the 4th Fundamental catalog of Stars which serves as the basis for the modern astronomical inertial system.

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Marauders Defeat Rockets For Lead In Football

MICOM Eleven Tackles Bombers Saturday Evening

The Missile Command Marauders parlayed an alert defense and a hard charging attack to remain unbeaten in the Redstone football league last Saturday evening by handing the Third Battalion Rockets a 28-12 setback.

It was the second win in two starts for the Marauders and the first loss after an opening win for the Rockets. On Friday night the First Battalion Raiders spoiled the debut of the UTC Humpers by handling them a 32-14 beating.

The Humpers will make another try for a win on Friday evening with the Rockets providing the opposition and the Marauders will try to make it three straight at the expense of the Second Battalion Bombers on Saturday. Both games are slated for 7 p.m. kick-offs.

Ray Dixon scored three times in leading the Marauders to their win while Joe Black and Pat Tranquilla led the defensive charge that held the Rockets from getting out of hand.

Monty Montgomery opened the scoring for the Marauders by sweeping his left end from 12 yards out on the first offensive foray of the game. Black fell on a Rocket fumble at the 18 soon after the kickoff and three plays

later MICOM had a 14-0 lead when Dixon blasted over guard from the one.

Rick Jordan got the Third on the scoreboard midway in the second period when he climaxed a 49-yard march by racing the last 6 yards on a keeper.

An intercepted pass that Brent Miller returned from the 39 down to the 6 put the Marauders back in business soon after the third quarter opened. Dixon once more made the break pay off by taking a handoff from Bob Griggs for the t. d.

A short pass from Jordan to Rick Melton cut the Rocket deficit to 21-12 as the fourth period opened but Dixon lengthened it once more a few minutes later after Tranquilla grabbed another Rocket fumble at the 17.

Dennis Loomis ran the halfback option play to perfection in leading the Raiders to their win over the Humpers. The hard running back scored the first touchdown himself and then passed to Vance Holderfield for two more as the First piled up a 20-7 halftime lead.

Joe Lerner took over the throttle in the second half and passed to Johnny Metro for one score before winding up the scoring with a 7-yard burst off tackle.



HEMMED IN—Richard D. Hopper of the School Troop Command's 2nd Enlisted Training Company (ETC) finds little running room here and loses yardage as he tries to turn the corner in the Missile & Munitions Center & School's "flag football" opener September 25 at Linton Field. Company C went on to win the game, 14-10. The 1st ETC and Company B are presently leading the 14-team league with 2-0 records. (Compiled from games played through October 1).

Civilian Bowlers Draw First Honor Roll Blank

A strange silence developed on all three civilian bowling league fronts last week and for the first time in four weeks the keggers were unable to manufacture a single Honor Roll count.

The Supply Management League was able to come up with a couple of near misses but the Field Services and AMC Leagues failed to produce anything that even resembled a threat.

Ray Whalen grabbed bowler of the week honors and came within two sticks of making the Honor Roll with a 598 and Fred Stewart continued his heavy bombing with a 588, both in the Management loop.

Whalen's outburst provided the spark for the Building Supply in their 3 to 1 win over the Huntsville Brick and Tile five. HUBCO, however was able to hold onto their half game edge in the standings when the second place Ramblers and the third place Auto Center also went down three out of four setbacks.

Tom Lindsay shot a 569 total for Hubco, Joe Lee Williams and Red Gibson turned in 547 and 550 cards respectively as Lily Flagg Clinic took the measure of Auto Center despite Art Sevigny's 575 and 551 by Morgan Caudle.

Roy Parmalee shot a 568 to lead

the Shoot 'n Scoot quintet to a trio of wins from All-Sport Trophies who got a 588 from Fred Stewart and 551 from Chet Wysocki.

The Voyagers were held to a split by the Avengers but it was enough to hold onto the top rung of the AMC ladder as George Huffman grabbed off all the league's individual honors. He had a 221 game-on the way to a 550 set.

The T-Birds and the All-Sport Trophies moved to within a point of the lead with 3 to 1 wins over the Travelers and the Tigers respectively and Joe Renard was a distant second among the individuals with 539 as the Rejectors split with the Wonnors.

Fifteen of the Field Services League bowlers ended in the 500 category but only Troy Faulkner was able to pass the 550 mark, and his effort was delivered in a losing cause.

Faulkner turned in a 568 reading but his mates on the Crackers were not able to give him enough support to stave off a sweep in the hands of the Washouts. The trouncing boosted the Washouts into the lead and dropped the Crackers into a three-way deadlock for the runner up spot.

The Esso Bee's grabbed another leg of the second place tie by taking all four from the Gyro's and

Spares Threaten League Runaway

It's beginning to look like a long, cold winter for about nine teams in the Comp Center Mixed bowling league. At least that's the way a quartet of Spares have it figured.

With four weeks of the league schedule having elapsed the two gals and two guys that roll their strikes and spares under the Spares' banner have conquered

the Chiefs scored another sweep with the Baker Realtors as their victims.

The Bee's put all five of their bowlers in the 500 class and ended their sweep with a 1059 game and a 2984 series.

everything in their path.

"And the best part of it," according to Hoyard Jess, the top Spare, "we haven't really hit our stride yet. Our opposition just seems to go flat every week and we are able to outscore them by a few pins each game."

Last week was a good example when Jess topped the league with a rather slow 510, more than a few pins below his normal average, as the All-Sports earned the dubious honor of being the fourth consecutive sweep victims of the Spares.

The Lucky Strikes accounted for the only other sweep of the evening as they brushed aside the Skunks. The Strikes gained the league runner up slot, a full six points off the pace set by the Spares. Eudora Traglia shot the high total among the women with a 459 for the Strikers.

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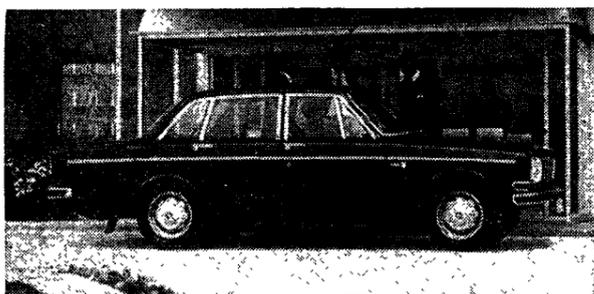
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Arsenal Junior Gridders Tie Two In City League

The Arsenal's juniors gained a pair of ties in their three games played in the Huntsville Parks and Playground Football League, last week.

The 80-pound Hawks were held to a 12-12 deadlock by the Boys Club and the Mustangs had to settle for an 18-18 tie with the Civic League eleven in the 110-pound class while the Rams were absorbing a 21-0 setback to the Boys Club in the 95-pound division.

Larry Silence was the hero of the hour for the Hawks with a pair of touchdown runs. The little scat back broke off tackle midway in the opening period and raced 45 yards for the first score of the game.

After the Boys Clubbers had tallied once in each of the next two quarters, Silence once more put his mates in the game by capping a 58-yard drive by sweeping end for the final five yards.

Bill Willis, Butterball Stewart and Bobo Bearden turned in outstanding defensive performances for the Redstone youths who had dropped their first two games.

A touchdown with less than two minutes to go kept the Mustangs from hanging up their second win in three outings. The Arsenal eleven scored a pair of six pointers in the third quarter to over-

come a halftime deficit only to see their hopes smashed by the later score.

Steve Joslyn provided the offensive spark for the Mustangs by scoring twice himself and passing for the other score. He opened the scoring with a 45 aerial to Zack Golden in the opening period.

Joslyn came back to scamper 20 yards off tackle for the second score that evened the score. A few plays later Bobby Jenkins took a handoff and fired a long pass down the sideline that Joslyn grabbed at full speed and continued into the end zone to complete an 82-yard scoring play.

Another member of the Joslyn family, Ken, shared defensive honors with Ray Nichols, Ed Jones and Kim Romine. Ken spiked two threatening Civic League gestures with timely interceptions.

The Rams were never able to get their offense moving in their game with the strong Boys Club 95-pounders and were forced to spend almost the entire evening trying to stave off continued thrusts into their line.

Craig Willis was a defensive standout in the Ram secondary while Greeley Kyle turned in several unassisted tackles from his linebacking position.



AWARDS FOR SHILLELAGH GUNNERS—U. S. Army gunners who score a hit with the Shillelagh guided missile will receive wallet-sized certificates and lapel pins from Philco-Ford Corporation's Aeronutronic Division, prime contractor for the weapon system. Here, pretty Philco-Ford secretary Pat Connolly shows the items gunners will receive. The Shillelagh program is managed by the U. S. Army Missile Command, Redstone Arsenal, Ala., under Col. Spencer R. Baen, Project Manager.



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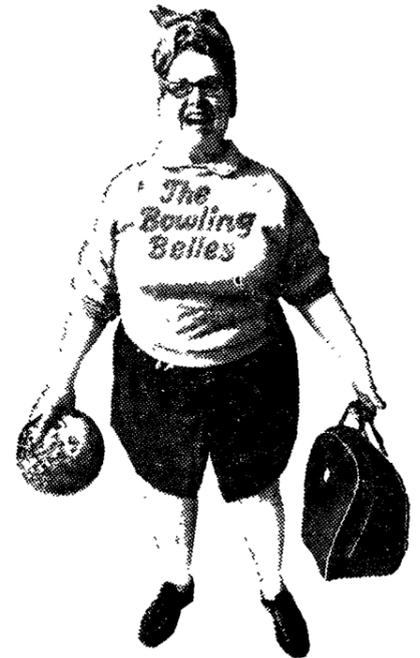
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Chaparral Ends Successful Flight Program

The U. S. Army's Chaparral air defense system has concluded a highly successful guided flight program at the White Sands Missile Range, N. M., the U. S. Army Missile Command has announced.

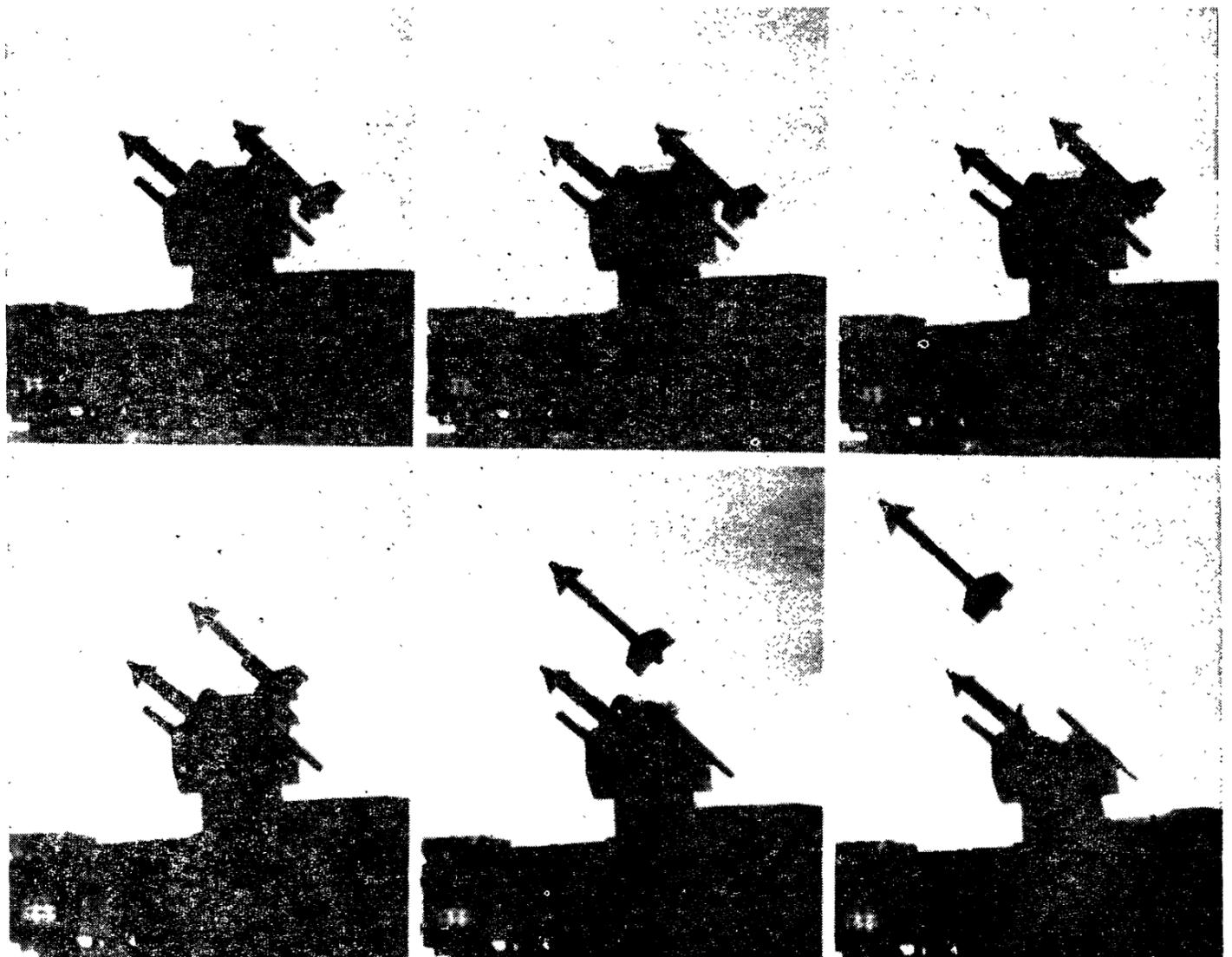
Aeronutronic Division of Philco-Ford Corp., Newport Beach, Calif. is prime contractor to the Missile Command on the Chaparral program, and conducted the White Sands firings for the Army as part of the development flight test program, a major milestone in the Chaparral missile's history. Lt. Col. D. H. Steenburn heads the Command's Chaparral Management Office.

Chaparral is an adaptation of the Sidewinder IC air-to-air missile system to a ground-to-air configuration, to provide maximum air defense against low and medium flying aircraft in forward battle areas.

The Chaparral system is now in the development phase, and also in initial production, by Aeronutronic at its Defense Plant in Anaheim, Calif. Chaparral utilizes a modified Sidewinder IC in a multiple mount, mounted on a highly mobile Army XM-730, self-propelled tracked vehicle. The test vehicle was produced by FMC Corporation of San Jose, Calif., under sub-contract to Aeronutronic.

During the guided flight program just concluded, Chaparral successfully attacked target drones, and a simulated helicopter.

All firings were conducted as part of an integrated test program designed to accelerate the development phase of the Chaparral system. Personnel from the U. S. Army's Air Defense Board and Test and Evaluation Command were part of the launch crew.



CHAPARRAL GUIDED FLIGHT PROGRAM—The U. S. Army Missile Command's Chaparral guided missile system, shown here in a launch series at the White Sands Missile Range, N. M., has just concluded a highly successful guided flight program at White Sands. Target drones and a simulated helicopter were successfully attacked by the Chaparral missile during the guided flight program.

Chaparral utilizes an adaptation of the Sidewinder IC in a multiple mount, mounted on a highly mobile Army XM-730 tracked vehicle, shown here. Chaparral missiles are aimed by a gunner in the turret mount and automatically guide on the target's heat source after launch.

Eight Complete Data Display System Course

Graduation exercises were conducted recently at the U. S. Army Aeronautical Depot Maintenance Center, Corpus Christi, Tex., for personnel completing a course on operations and maintenance of the

The Redstone Rocket —
Page 8 October 4, 1967

Technical Data Display System to be utilized in the Technical Data Library of Project FLAT-TOP.

The course was conducted by the Missile Command and presented under contract by personnel of the Brown Engineering Company. LTC Truitt K. Grant, Deputy Commander at the Center, presented certificates to the eight graduates.

The 320-hour course of instruction included theory and principles of the operation, safety and techniques applied to inspection, adjustment, trouble-shooting and repair of the system and ancillary equipment.

The equipment covered during the intensive instruction was a high resolution closed circuit television system. It included the camera, camera control unit, and the 21-inch monitor; electronic data scanning and copy equipment; and a high speed microfilm data

retrieval system.

The equipment is currently in use in the Technical Data Library on the USNS Corpus Christi Bay and in the Technical Data Branch of ARADMAC.

Personnel attending the course will be responsible for the operation and maintenance of this equipment.

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1000	92.30	48.76	\$40.05
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Don Rubin Readies For Year's Study At Von Karman Institute, Brussels

Don Rubin, an Army Missile Command engineer, has been selected to attend the Von Karman Institute in Brussels, Belgium.

The 30-year-old Aerospace engineer left early this month for a year of advanced study. The Von Karman Institute, which specializes in fluid dynamics, trains some 20 to 30 postgraduate students from all NATO countries every year.

Rubin was among the applicants selected by the school because of

his qualifications and interest in this particular area. He holds both a Bachelor's and Master's Degree in Aeronautical Engineering from the University of Alabama.

He works in the Aerodynamics Branch of the Advanced Systems Laboratory, of the Missile Command's Research and Development Laboratory.

A native of New York City, Rubin is a transplanted Alabamian—his family moved to Alabama, in 1956. After graduating from

the University of Alabama in 1960, he began work at Redstone Arsenal. Following a two year tour in the Army, he returned to his present position in 1963.

Among other objectives, the Von Karman Institute gives scientists and engineers from NATO coun-

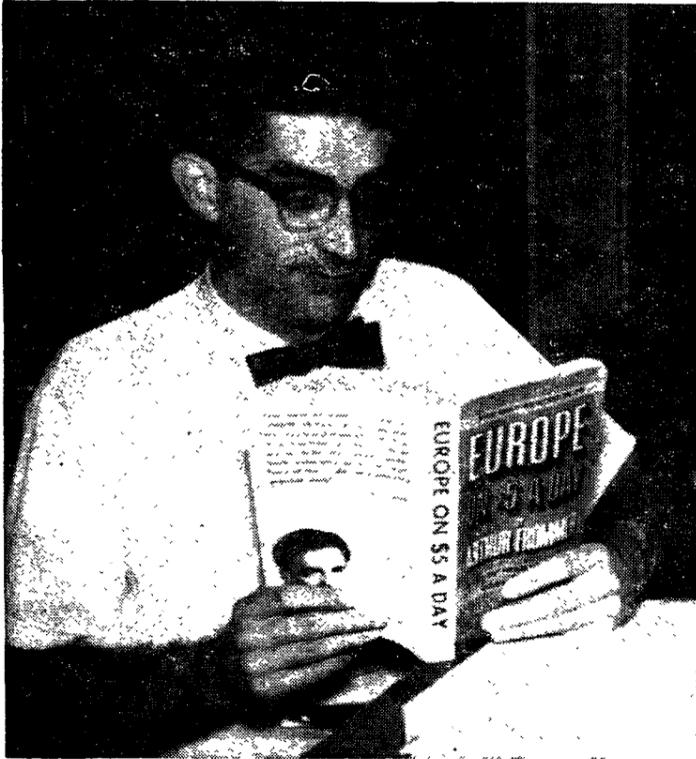
tries specialized training in experimental and applied aerodynamics. Graduates receive upon graduation the equivalent of a master's degree in fluid dynamics.

Since working at Redstone Arsenal, Rubin has had several technical reports published, including "Tabulated Stability Data for a Series of Ring Tail Body Configurations at Mach Numbers from 0.8 to 4.5"; "An Experimental Study of the Force Characteristics of a Series of Cruciform Thrust

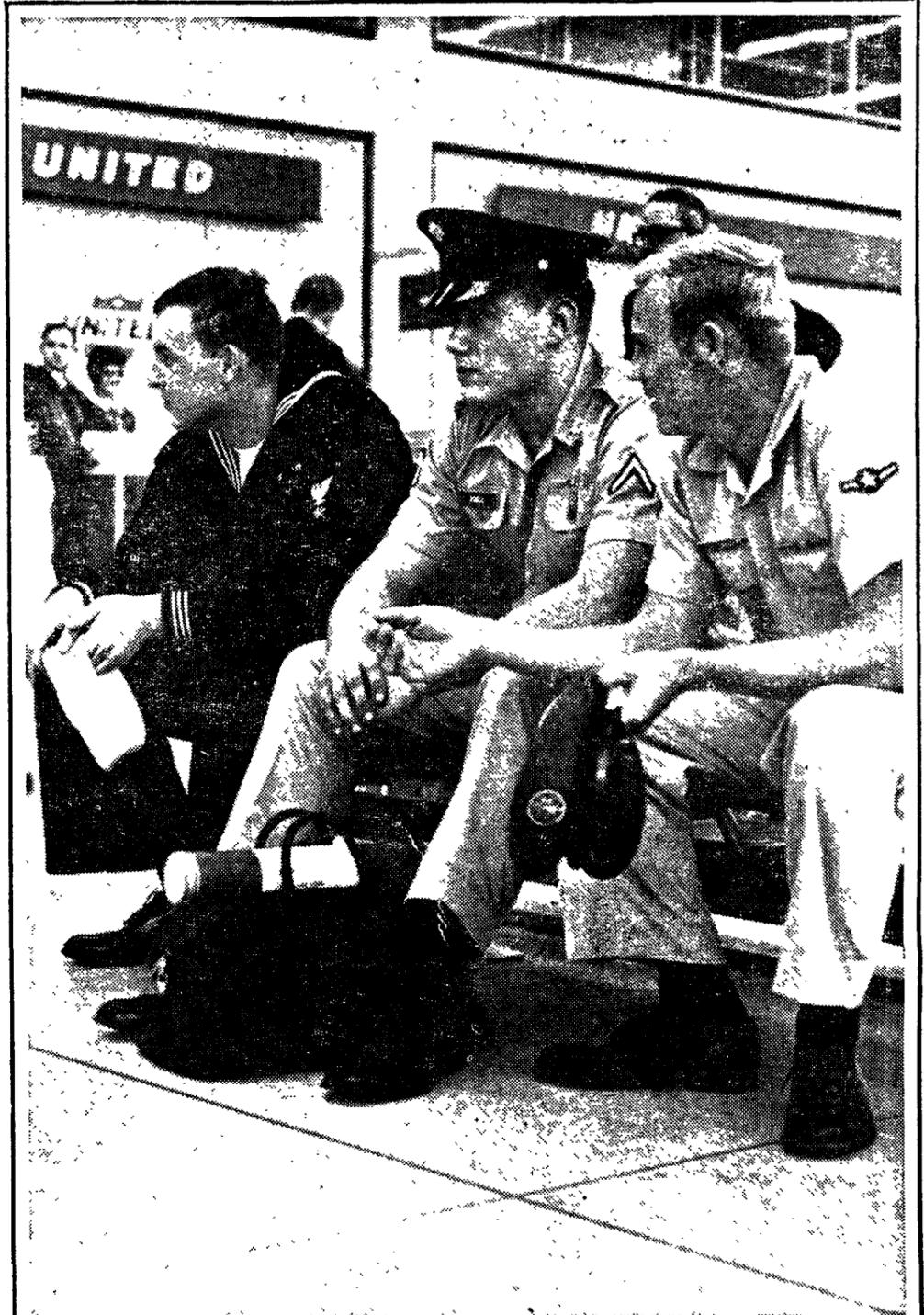
Deflectors Used as Control Devices"; "Exploratory Investigation of the Effect of Ring Tails on Jet-On Base Pressure of a Body of Revolution at Free Stream Mach Numbers of 2.5 and 3.0".

His Master's thesis at Alabama dealt with "The Effect of Various Boattail Shapes on Base Drag and Drag Reduction at Mach 2.5, 3.0 and 3.5."

Rubin is married to the former Linda Jean Thoeny of Birmingham.



IT'S GOOD TO KNOW!—Looking for helpful hints on travel abroad is Don Rubin, an Army Missile Command engineer. Rubin has been selected for a year of advanced study at the Van Karman Institute in Brussels, Belgium. He works in the Aerodynamics Branch, Advanced Systems Laboratory of the Missile Command's Research and Development Directorate.



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Quartermaster Officer Tells Students About Viet Nam Supply Lines

Keeping one soldier in operation for a single day in Vietnam requires at least 50 pounds of food, clothing, ammunition and petroleum products, a member of the faculty of the Army Quartermaster School told graduates of the Missile and Munitions Center and school at Redstone Arsenal Friday.

Lt. Col Thomas H. Stone, chief of the combat service support branch at the Quartermaster School at Fort Lee, Va., told the 103 graduates from the U. S. Army and Marine Corps and Denmark that 26,000,000 pounds of supplies and equipment is

being moved into Vietnam each day for the U. S. forces there.

About 90 percent of the troops there are eating fresh meat, vegetables and fruit daily, and hot meals are delivered by helicopter to the front lines.

The ratio of supply personnel to combat troops has been cut from eight "men behind the man behind the gun" to five, he said.

Two graduates received the outstanding student award of the Association of the U. S. Army for averages of 96 or better in their courses. They were: Staff Sgt. Harvey A. Schoenman of Pittsburg, Pa., with 97 in Hawk

radar. and Pvt. Thomas E. Hitzhusen of Rockwell, Iowa, with 96.1 in ammunition storage.

Among the graduates was Pvt. Michael York of St. Louis, Mo., a cousin of Sgt. York, the famous Army hero of World War I.

Cited as honor students in their respective courses were: Pfc. Larry D. Johnson of Athens, Ala. with 87.4 in Nike test equipment; Pfc. Robert L. Daffler of San Antonio, Texas, with 88.1 in Hawk radar; SP4 Billy B. Hockey of Oskaloosa, Iowa, with 93.9 in Hawk missile and launcher repair; Pvt. Charles H. Barnard Jr. of Manchester, N. H., with 87.9 in Sergeant ballis-

tic missile rocket motor and structures; and Pfc. Allen R. Webster of Barnsdall, Okla., with 89.9 in combat missile systems repair.

Lt. Col. Donald S. Hanline, director of new missiles and literature at MMCS, presided at the ceremony in the Redstone Arsenal

MORE THAN 600 Army nurses are with the Army Medical Service team in Vietnam. They are working with some 50 medical units and teams, varying from those at fixed installations to the newly developed MUST (Medical Unit Self-contained Transportable) hospital.

Theater. National anthems of graduates were played by the 55th Army Band.

Theater Schedules

WED., Oct. 4
"The Girl and the General" (M)
THUR.-FRI., Oct. 5-6
"Waterhole No. 3" (M)
SAT., Oct. 7
"Alvarez Kelly" (M)
SUN.-MON., Oct. 8-9
"Hour of the Gun" (F)
TUE., Oct. 10
"Tobruk" (F)

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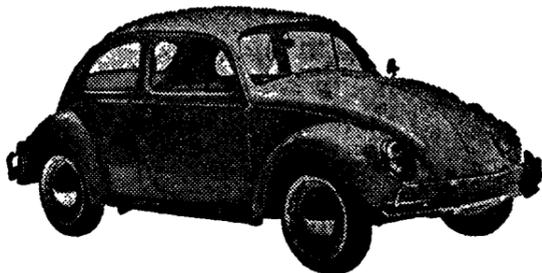
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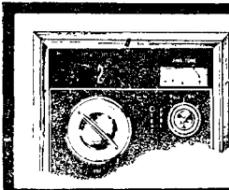
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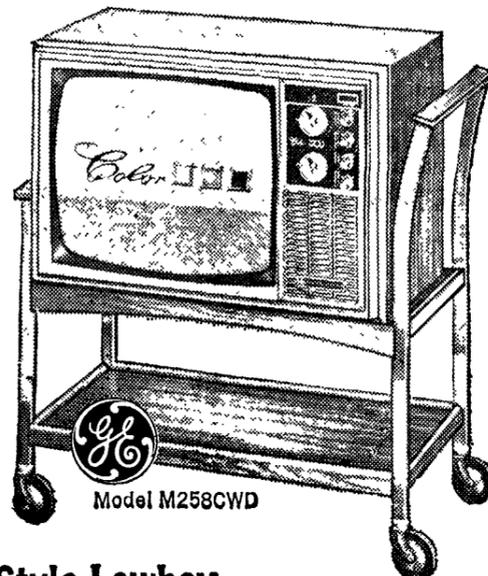
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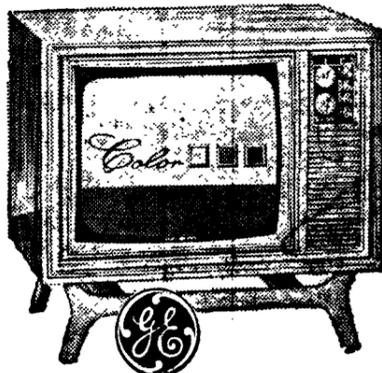
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M950CWD

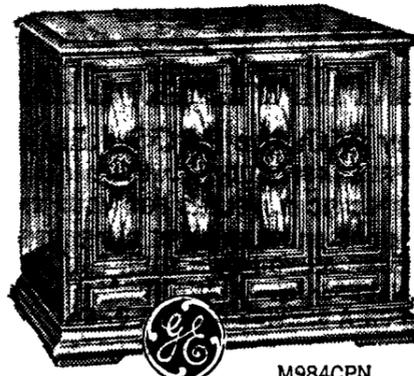
The Beverly Hills In Danish . . . selected hardwoods. Big 22-inch diagonal picture; 268 square inch picture with 25,000-volt picture power. Also available in Early American Maple, French Provincial Cherry and Spanish Pecan veneers.

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WAC Warrant Joins Communications Division



TO SPEAK — A senior officer whose job is to help keep the Army moving will speak Friday to graduates of the Army Missile and Munitions Center and School at Redstone Arsenal. He is Col. Orman E. Hicks, Deputy Director of the Maintenance Training Department, U. S. Army Transportation School at Ft. Eustis, Va. Col. Hicks will address 115 officers, enlisted men and civilians. The formal graduation ceremony will begin at 9:30 a.m. in Post Theater No. 1.

The only Wac warrant officer in the Signal Corps is now Chief of the Communications Center for the Army Missile Command. She is one of only 17 WAC warrant officers in the Army.

CW3 Joan Blakely was assigned at Redstone Arsenal following a split European tour which began in Heidelberg, Germany and ended in Italy.

Miss Blakely had two previous assignments in Heidelberg and has grown accustomed to the language. A single year in Italy did little toward developing her into a linguist, but it did afford her a chance to travel the Middle East and Africa a bit. She was the Intelligence and Security Officer S-2 for Headquarters, USASTRATCOM-EUR Signal Group (Mediterranean) at Camp Darby near Livorno and Pisa, Italy.

A cryptographic technician who studied at the Army's Cryptographer School at Ft. Gordon, Ga., Miss Blakely's assignment was the first outside the communications field.

Her first impression of Heidelberg was antiquity with the impressive medieval castle overlooking the town. Now, modern angular architecture nestles beside the medieval structures. On a clear summer night when the town is blacked out and the castle is lighted by flairs for the thousands of tourists who flock in, the populace can drink root beer at an A and W

root beer stand while eating a hamburger. The meat is airlifted from the U. S. daily.

During her German assignments, Miss Blakely drove through a great deal of Europe, but she missed Spain and Berlin. Her profession would restrict her moving about in Berlin and she felt that she would feel slightly cheated if she saw only part of the city. As for Spain, she still hopes to visit that country one of these years.

In Italy, units from the group spread across the mideast in places like Ankara, Turkey; Teheran, Iran and Asmara, Ethiopia. The security for these units was her responsibility. If the flight on which she started landed in Egypt, she was confined to the airport but in most countries American personnel were allowed to move about freely.

However, Miss Blakely had one flight to Asmara which she won't forget. The plane landed at Karthoum, Sudan at 7 in the morning in heat so unbelievable that she says she expected to see her flesh blazing when she looked at her hands and arms.

Fellow passengers were Arabs. The plane left Karthoum for Asmara, stopping a number of times at desert outposts where there was no obvious reason to land. Everything was unloaded. Each time they landed, the plane was fumigated and the odor of goats temporarily removed.



CW3 JOAN BLAKELY

Miss Blakely grew up at Maynard, Iowa—a pinpoint town near Oelwein which is almost halfway between Waterloo and Dubuque. Since then, her family moved to Seattle. When her first tour of duty was finished she became a civilian employee for the Army at Seattle where she did the same kind of a job. She was a cryptographer. The Army lured her back to

active duty and now she'll stay for 20.

The battery of tests she took when she first enlisted placed her in a profession where pressure builds, where there is a personnel shortage, and where she can use her vibrant energy and wit. She agrees with the analyst who sent her to school after the initial tests. The slot is right.



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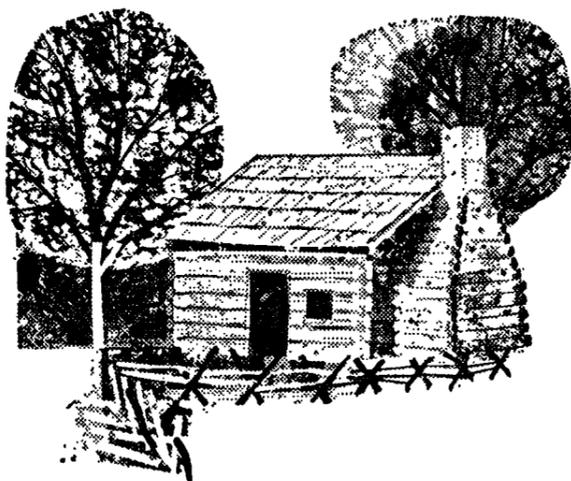
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Firebee Proves Workhorse Target For Army Missiles

The U. S. Army's Firebee, a workhorse in the medium performance category of the target missile family, has recently chalked up 1000 research and development flights, most of them at White Sands Missile Range, N. M.

The swept wing, subsonic bright reddish-orange target reached this record over an eight-year time span.

Firebees in one form or another are popular with other services and for annual service practice with troops, but the 1000 score represents only the firings in support of development testing of Army air defense missiles.

The Firebees are also used to try out modifications in target development.

There has been some type of Firebee target missile in existence since the late '40's, and it has been constantly improved and modified to fit the needs of the missiles that try to knock it down.

In various roles the versatile Firebee carries infrared sources for testing such missiles as Chaparral and Redeye, sometimes it has tow targets aboard, sometimes miss distance indicating equipment, and numerous other accessories as required: It can be flown in formation to stimulate attacking aircraft.

If Firebees survive flight without being blown to bits by at-

tacking missiles, they are recovered by parachute for re-use. One Firebee was flown 32 times before its usefulness ended.

It is ground launched in the Army role with the aid of a rocket motor. The Firebee is powered in-flight by a turbo-jet engine with 1700 pounds of thrust.

The version of Firebee used by the Army is officially designated MQM-34D, and is built by Ryan Aeronautical Co.

At the U. S. Army Missile Command, development of the Firebee is the responsibility of the target Missile Branch, Development Division of the Research and Development Directorate.

Raye E. Stanley is the project engineer for Firebee Serving under Jere Ducote, Chief of the Target Missile Branch. Stanley became interested in target missiles after he graduated from the University of Tennessee, went into the Army, and was assigned to the target missile office at White Sands. After being released from Army duty, he worked for a Memphis chemical company before coming to the Missile Command five years ago.



FIREBEE SCORE: 1000 FLIGHTS

University Offers Seminar On Vietnam

The first of a six-session seminar on Vietnam sponsored by the University of Alabama in Huntsville will be held from 10 a.m. to noon, Thursday tomorrow. The lecture-discussion series will be conducted in Room 108-109 in Graduate Studies Building, according to Dr. Frances Roberts, coordinator.

Dr. Gibson Johnson, visiting lecturer in Far Eastern History, will begin the series with a lecture on Vietnamese history before the arrival of the French with emphasis on cultural ties with China.

Other topics to be given by Dr. Johnson are: "The Period of French Imperialism and Vietnamese Nationalism;" "World War II and the Return of the French to Power;" "Final Breakdown of the French Regime;" "American Involvement: Eisenhower Period;" "American Involvement: Kennedy-Johnson Period."

The seminar will meet each Thursday morning through November 9. A "dutch luncheon" for those who wish to participate will follow each session.

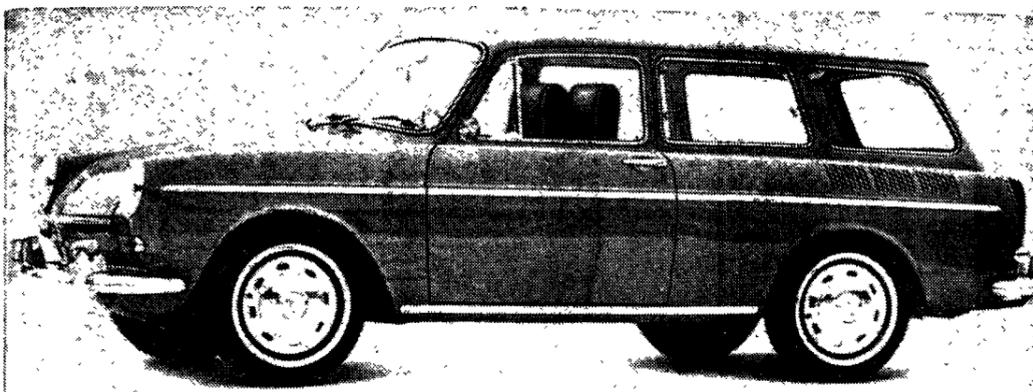
Persons desiring to attend should call the UAH department of history (837-4700, Ext. 365) for further information.

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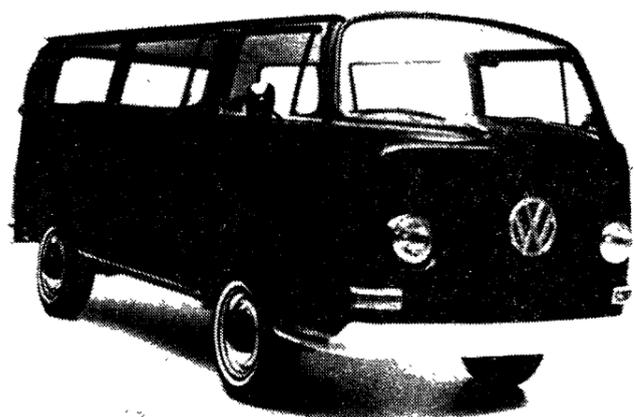
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Career Development Starts For 19 Federal Employees

Employee development and training activity starting last week is taking nineteen Missile Command civilians away from their normal duties for career study at military schools and contractor plants across the country.

The personnel were selected for the training under the Command's career development program administered by the Training and Development Division of Civilian Personnel.

Almost half of the group went to Ft. Lee, Va., this week for advanced training at the U. S. Army Management Logistics Center.

John Fitzpatrick and James Wilkerson (P & P) are enrolled in the Advanced Procurement Management course along with Jeanne Scales (Chief Counsel).

The Supply Control Analysis class includes five employees of the Supply and Maintenance Directorate. They are Frances Mc-

Farland, Bernard Kirkland, Adonis Brown, William Bridges and Marion Czachowski.

Billy Boland (S & M) is at the Army Management Engineering Training Agency, Rock Island, Ill., for the COBOL class, and Jack Moring (DASO) is taking the Army Stock Fund course at the Army Quartermaster School, Ft. Lee.

Robert Hawkins (P & P) and John Murphy (Chief Counsel) are in Washington for schooling at the U. S. Naval Materiel facility. The former is in the Cost Price Analysis class and the latter is attending the Procurement Executive refresher.

David Hayles (R & D) is attending a workshop on Negotiating and Implementing Agreements offered by the U. S. Civil Service Commission in Dallas and Donald Jackson (Hawk) is enrolled for a Public Opinion class at the University of Oklahoma.

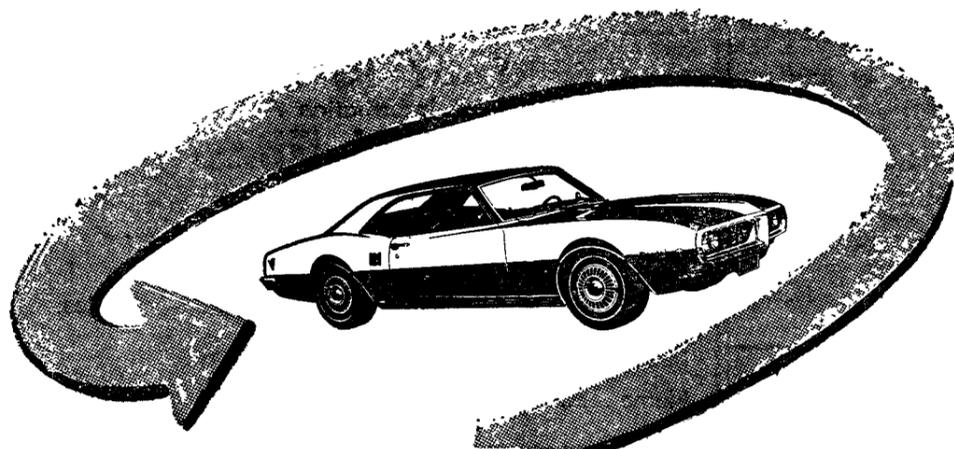
Charles Moore (DASO) who will be in charge of the equipment at the new Post Bowling Lanes is attending the Brunswick Corporation's Pinspotter Maintenance School at Muskegon, Mich.

Robert Kirkpatrick (Hawk) and Bill Gipson (DASO) are at Ft. Bliss

for Self Propelled Hawk New Equipment Training presented by the Raytheon Co., and Marvin Jones (R & D) is studying Digital Communications with the RCA Institutes at Dallas, Tex.

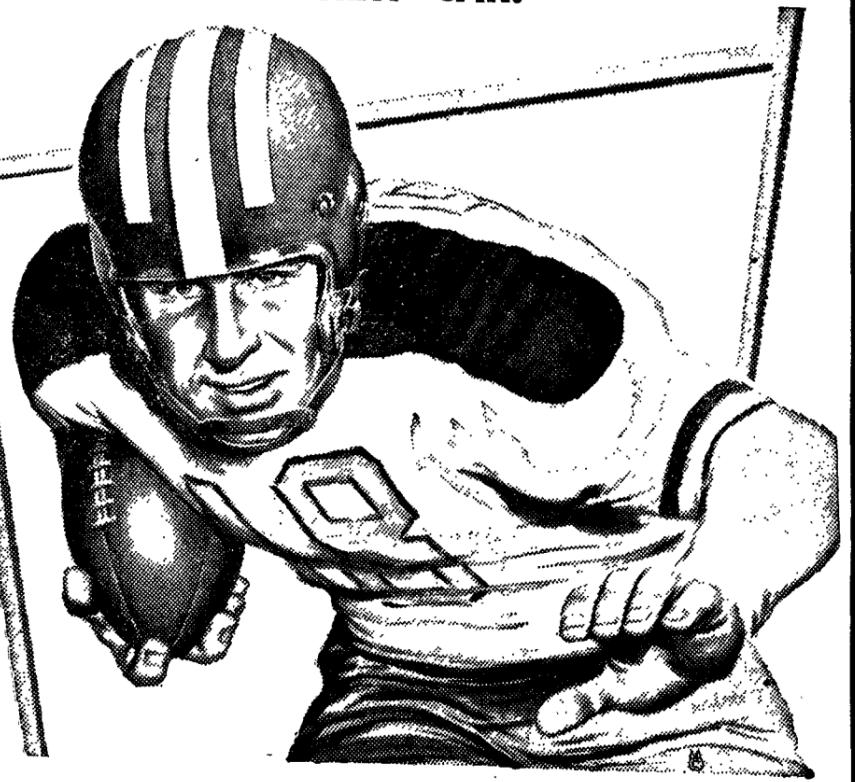
EXHIBITION ON DISPLAY

History of aviation highlights from the days of Kitty Hawk to supersonic flight are depicted in a special exhibition of watercolors now on display at the Smithsonian Institution. They are the work of John T. McCoy, 58-year-old colonel in the Air Force Reserve. (AFPS)

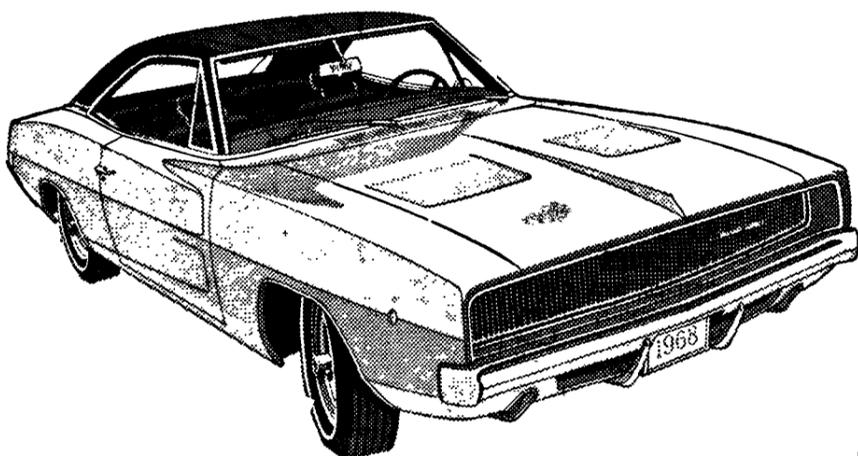


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Jerrel Haislip of the Maintenance Support Division, ranked first in a class of 35 students that completed a 12-week Instructor course on the Land Combat Support System at the Radio Corporation fa-

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cility in Burlington, Mass.

The missile maintenance technician posted an average grade of 98.6 in the opening class of the course. Other personnel attending included instructors from the Missile School, maintenance engineers and contractor and military personnel who will operate and repair the first deployed LCSS.

Being developed by RCA, the LCSS is a grouping of automatic electronic test and repair equipment to provide direct, general and depot maintenance support for the Lance, Shillelagh, TOW, and Dragon weapons systems.

The training effort is performed by both contractor and government instructors under the supervision of the New Equipment Training Division of the Supply and Main-

tenance Directorate.

The Land Combat Support System is managed by the Missile Command under Col. Cyril Sterner, Deputy Commanding Officer for Land Combat Systems.

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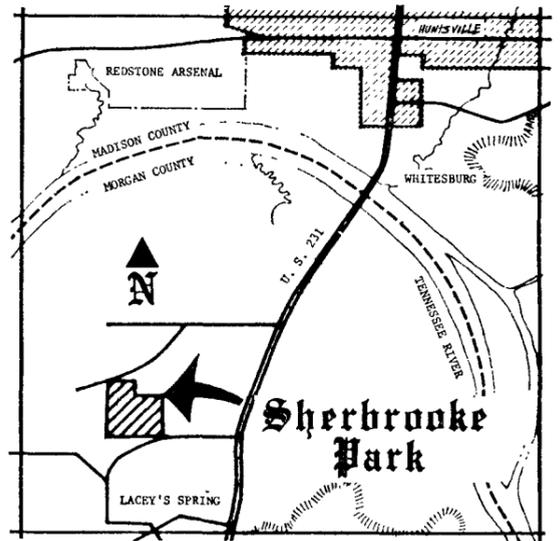
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Rocket Propellant Conference Set

Representatives of the United States, United Kingdom and Canada will meet at Redstone Arsenal Wednesday and Thursday to review the status of research and development efforts on "smokeless" rocket propellants.

The first day's meeting is scheduled for the auditorium in the Gorgas Laboratory (Building 7770) and will begin at 9 a.m. Presentations will be made by Thiokol Chemical Corp., Hercules, Inc., and Rohm & Haas Co. There will also be a tour of the smoke assessment facility.

On Oct. 5, a meeting will be held in the Review Room of the Rocket Auditorium (Building 7120) to permit further informal exchange of information among the participating representatives.

The following foreign participants are expected: Dr. Roderick MacDonald, Canada; Dr. J. Pwling, and G. W. Stocks, United Kingdom. Australia, the other participant in the Technical Cooperation Program will not be represented at this meeting.

Chairman and moderator for the conference is Dr. D. C. Sayles of the Army Rocket Propulsion Technology and Management Center.

SCHOLARSHIPS AWARDED

More than 1,600 Army ROTC scholarships will be awarded for the 1968-69 school year, making the total above 4,000. Army said 800 new four year scholarships are to be awarded on a competitive basis to outstanding high school graduates and approximately 845 two-year awards will be made to select college students who have completed two years of ROTC training. (AFPS)



L. L. RON GOBER

L. L. Gober Transfers To St. Louis

Lewis L. (Ron) Gober, a veteran of the Army Missile Command's missile and rocket programs, leaves Redstone Arsenal this week after nearly 12 years.

Gober, who is chairman of the Missile Support Study Group, Land Combat Support Systems, reported Monday for a new job in St. Louis, Missouri, where he takes over as Chief Engineer for the Mobility Equipment Command.

Since he began work at Redstone Arsenal in 1956, Gober played a prominent role in the development of several missile systems, including Pershing, Lance, Sergeant, Honest John and Littlejohn. In addition, he served for more than three years as Deputy Project Manager for the Mauler weapon system.

"I've had a chance to work with most of the members of the Missile Command team and it has been a most gratifying experience," Gober said. "It is a great team and the accomplishments have been many. But the new job is a challenge and I'm looking forward to it."

As chief engineer for the Mobil-



JOINS NURSING STAFF—Maj. Naomi Higgins of Dayton, Tenn., is the most recent addition to the nursing staff at the U. S. Army Hospital here. The Major has just returned from an extended tour with the 43rd Surgical Hospital in Korea. She has been in the Army since 1960 and has been assigned in France and at Valley Forge, Penna. At present, she is living on post.

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Owner

Career Development Lures 28 To Advanced Training

Twenty-eight military and civilian personnel departed from their regular duty stations this week to embark upon advanced training courses under the Missile Command's career development program.

The local personnel will spend up to ten weeks at military schools, contractor plants and leading colleges in eight states and the nation's capitol. The training is approved for the purpose of assisting the individual personnel to maintain currency in their career fields.

Two schools at Wright-Patterson AF Base in Ohio is providing training for eight of the Redstone personnel with two officers studying at the Defense Weapons Systems Management Center and six civilians attending the School of Systems and Logistics.

The Lance Project Manager, Col. Arthur Pottle, and LTC Richard Cox, of R and D, are attending the Defense Weapons Systems Management course at the former school.

Jack Vess (P & P) is enrolled at the latter for Advanced Contract Administration, and Kenneth McVay (MMCS) is taking the Maintenance Management Information System course.

Walter Slay (S & M) and Louis Nevels (Chaparral) are studying Defense Data Management, and Lowell Mann and Jack Austin (P & P) are members of the Quality Control Management class.

Another four are in Rock Island, Ill., for classes at the Army Management Engineering Training Agency. George Melochick (MMCS) is taking ADP Appreciation, Samuel Hersley (MMCS) is enrolled for Organizational Planning, and Anna McLemore (Hawk) is studying PERT/Cost in a class that also includes Nelson McGahee (S & M).

The AMC Ammunition School, Savanna, Ill., is providing training for another quartet from Redstone. William Harrison and SFC Jimmy Norles (MMCS) along with James Marlbut (DASO) are in the Basic Guided Missile Ammunition course and SFC Glen Morain (MMCS) is included in the class on Technical Ammunition.

Burris Hankins (Inst & Svs) is at Dugway Proving Ground, Utah, for CBR Weapons Orientation, and Jackie Rousseau (P & P) went to Frankford Arsenal in Philadelphia for Basic Electricity.

John Custer (C & DP) is in Washington for Auditing in the ADP Environment with the Civil Service Commission, and Thomas Warren (DASO) went to Melbourne, Fla., to study Relay Control Systems at Radiation, Inc.

Carl Pinyerd (Pershing) is in Norman, Okla., this week for Ethics and Public Responsibility at the University of Oklahoma, William Hay (Spec Asst) spent Tuesday in Nashville attending a Collective Bargaining seminar at the Vanderbilt School of Law.

The remaining six are attending classes at the University of Alabama in Huntsville this week to study Logistics Engineering. They are Neal Roberts, George Rudd, Glenn Arney, John Torzille and Melvin Tack, all of S & M, and George Burchfield, an employee of the Land Combat Commodity Office.



TALK WITH ARMY'S TOP MAN—Officers of the Association of Huntsville Area Companies get acquainted with Maj. Gen. Charles W. Eifler prior to a briefing session with the Commanding General of the Army Missile Command. Members of the association met with Gen. Eifler at Redstone Arsenal recently to acquaint him with the organization's activities in the Huntsville area. Left to right are L. C. McMillan, Executive Secretary; Clinton H. Grace, President of AHAC, and Gen. Eifler.

Two R&D Men On Conference Agenda In D. C.

Two members of the Advanced Sensors Laboratory at the Army Missile Command made presentations at the jointly sponsored Ninth Annual North American Air Defense Command and the Association of Old Crows Conference in Washington, D. C. last week.

Lloyd W. Root, Jr., and Floyd M. Belrose presented a paper on "Capability of Threat Air Defense Systems." Both United States and Canadian scientists and military men were scheduled to attend.

The meeting was opened with a welcome by Gen. Joyce B. James, Deputy Chief of Staff, Communications, Electronics, NORAD. At the banquet sponsored by Old Crows, Lt. Gen Jack C. Catton, U. S. Air Force, was the principal speaker.

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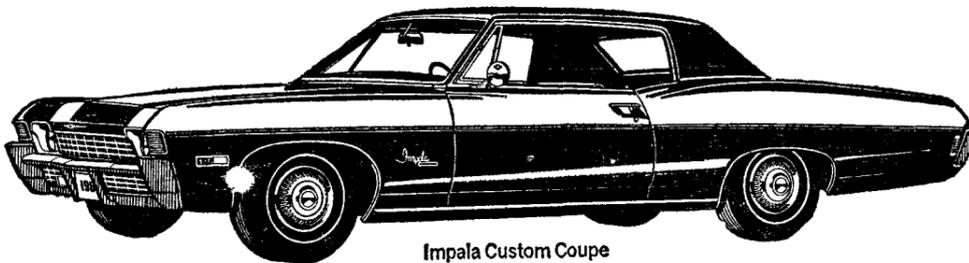
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