

**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. XV; NO. 37

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

FEBRUARY 1, 1967

## RULES SET FOR ELECTION

### Command, Nike-X Funding In FY68 Defense Budget

#### Army Missile Procurement Cash Up

Although it didn't appear by name, the Army Missile Command was heavily represented in the \$75.3 billion defense budget which Defense Secretary Robert S. McNamara sent to Congress last week. The budget did mention several of the Command's missile systems by name, asking funds to continue development of some and go into production with others.

In addition, the Secretary asked Congress to provide funds to continue research and development on some projects conducted by the Command which are not directly related to any specific missile project. Among these were Project Defender which is aimed at developing missile defense systems and Project Agile which is aimed at solving problems encountered in Vietnam-type conflicts.

Among the missile systems for which funds were requested in the budget by name were Hawk, Lance, Pershing, TOW, Nike Hercules, Chaparral, MAW and SAM-D.

It is now up to Congress to study the budget requests and pass on them before funds are made available for use by the Command. Following are portions of the bud-

get as it was presented to a joint session of the Senate Armed Services Committee and the Senate Subcommittee on Department of Defense Appropriations:

"No major change is being proposed for the surface-to-surface missile force from that presented last year. Over the last few years we have taken a number of steps designed to increase the capabilities of our Pershing missile battalions, particularly so that those stationed in Europe might take over the quick reaction alert (QRA) mission now being performed by tactical aircraft. Because of its mobility, Pershing could provide a more survivable capability for the QRA nuclear mission, while the aircraft released from the QRA role could provide our ground forces with more air support in the early stages of a non-nuclear conflict.

"Last year I described to the Committee the steps we were taking to improve the Army's forward area air defense capabilities. These included the deployment of the new gun/Chaparral system, the conversion of a number of Hawk battalions to a self-propelled (See DEFENSE on Page 2)

#### ABM Deployment "Iffy", R&D Steady

Secretary of Defense Robert S. McNamara devoted 10 pages to the Army's 10-year-old anti-ballistic missile defense system development program in his annual budget statement last week.

The decision on Nike-X production was "not yet."

However, for the first time in the history of the project the Defense Department did ask Congress to appropriate production funds to be used in case the decision is reconsidered. Such a reconsideration might hinge on the outcome of "negotiations with the Soviet Union designed through formal or informal agreement, to limit the deployment of anti-ballistic missile systems."

Continued development funds in the coming year were set at \$422 million.

Next month marks the tenth anniversary of the signing of the first contract for development of the Nike Zeus anti-missile missile system—forerunner of Nike-X.

In his budget statement the Secretary revealed new names for two major items of Nike-X hardware.

The improved Zeus long range interceptor missile now in development has been re-named the Spartan. The new name will distinguish it from the older and smaller Zeus which was designed for the Nike Zeus system and carried over into Nike-X. The Spartan will replace the Zeus.

A third phased array radar, called the Perimeter Acquisition Radar (PAR), is being developed for Nike-X for very long range search and acquisition functions, McNamara said.

The Secretary described the major elements of Nike-X as follows:

"The Multi-function Array Radar (MAR) is a very powerful phased-array radar which can perform all defense functions involved in engaging a large, sophisticated attack: central control and battle management, long-range search, acquisition of the target, discrimination of warheads from decoys or "spoofing" devices, precision tracking of the target, and control of the defense interceptor missiles.

"The TACMAR Radar is a scaled down, slightly less complex and less powerful version of the MAR, which can perform all the basic defense functions in a smaller, less sophisticated attack.

"The Perimeter Acquisition Radar (PAR) is a phased-array radar acquired for the very long-range search and acquisition functions involved in area defense. To achieve the full potential of the extended-range SPARTAN, the target must be picked up at much greater distances in order to compute its trajectory before the SPARTAN is fired.

"The Missile Site Radar (MSR) is a much smaller, phased-array radar needed to control the Sprint and SPARTAN interceptor missiles during an engagement. It can also perform the functions of the TACMAR but on a considerable reduced scale. Actually, a number of different sizes are being studied. This "modular" approach will permit us to tailor the capacity of the radar to the particular needs of each defended area.

"There are three somewhat overlapping but distinct major purposes for which we might want to deploy such a system at this time:

a. To protect our cities (and their population and industry) (See NIKE-X on Page 3)

#### Project Manager Killed In Crash

ST. LOUIS, MO. — The project manager for the CH-54 A "Flying Crane" and two other persons from the Aviation Command were killed last week in a plane crash near the Westchester County (NY) Airport while attempting a landing in bad weather.

LTC John F. Denhart, LTC James V. Lowe from the project office, and Melvin W. Rorick, a retired Army aviator employed as a civilian instructor pilot by AVCOM, suffered fatal injuries in the crash shortly before 6 p.m. EST 25 January.

Their twin engine Beech Queenair had been diverted from the Bridgeport, Conn., airport because of fog. It crashed two miles west of the Westchester Airport shortly after the pilot reported he was four miles away and approaching for a landing.

### Biggest Vote In Army-Union History Scheduled

Rules to be posted later this week make more than 7,000 Army Missile Command civilian employees eligible for the Feb. 15 election, the largest employee representation election ever held on a Department of the Army installation.

The election will decide whether or not MICOM civilian personnel want to be represented on an exclusive basis by the American Federation of Government Employees, Lodge 1858, for the purpose of negotiating an agreement, covering all MICOM civilians, concerning grievances, personnel policies and practices, or other matters affecting general working conditions.

Ballots, to be marked in secret, will contain boxes beside the words "yes" and "no". Persons voting will mark an "X" in the appropriate box in answer to this question, also printed on the ballot:

"Do you wish to be represented for the purpose of exclusive recognition under the provisions of Executive Order 10983 dated Jan. 17 1962, by the American Federation of Government Employees, Lodge 1858, Huntsville, Ala."

MICOM has more than 400 eligible civilians at duty stations other than Redstone Arsenal. Ballots for them, together with voting instructions, are already in the mail.

Civil Service rules governing the conduct of such elections, as implemented by the Army, will be used in the Redstone voting.

Forty polling places have been established on the Arsenal. A complete list of polling places and

areas they serve will be published in advance of the election.

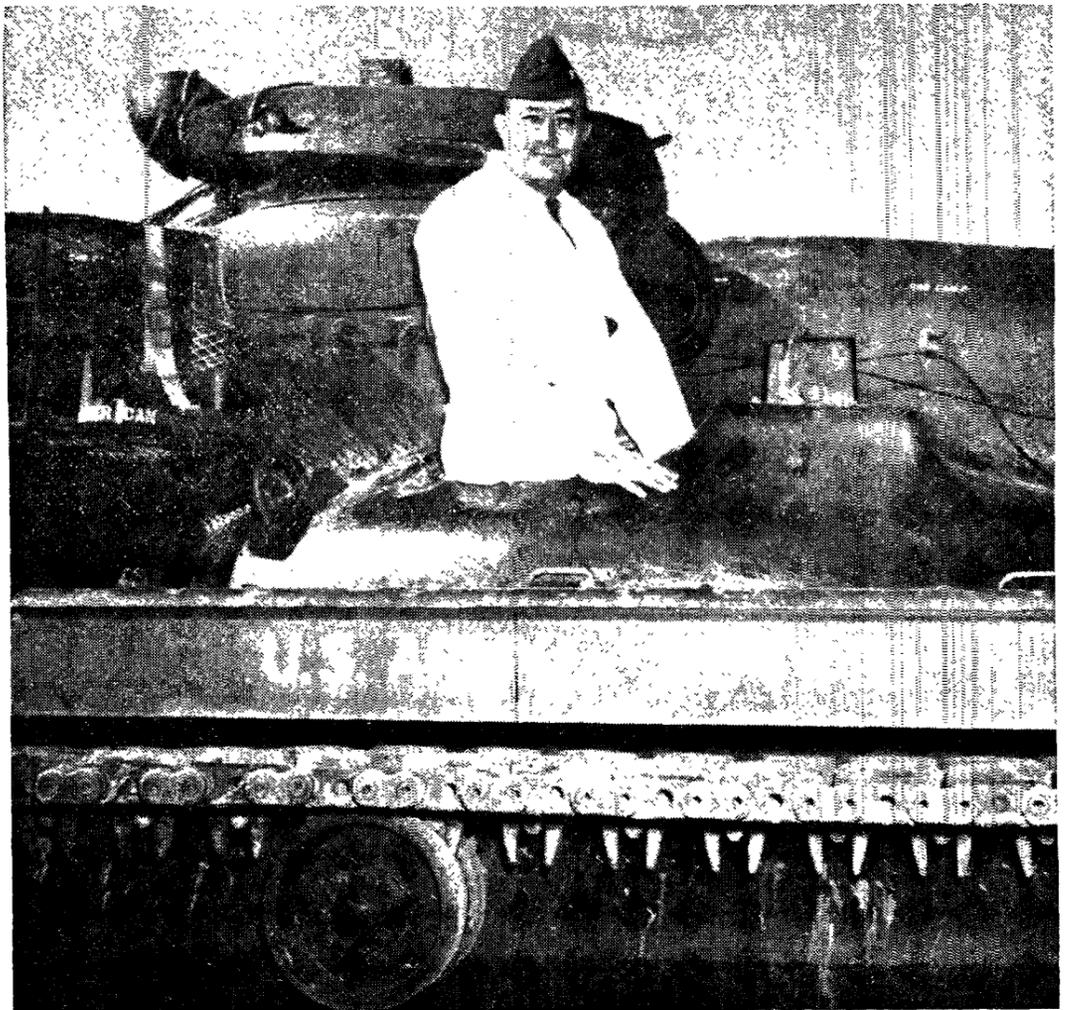
#### ELIGIBILITY

All employees of MICOM under the supervision of the Commanding General, MICOM, who were employed during the pay period ending Jan 28 1967, will be eligible to vote except those in the following specified categories:

Managerial executives; employees engaged in Federal Personnel work in other than a purely clerical capacity; supervisory employees; professional employees, for example engineers who are performing engineering functions; accountants; mathematicians; physicists, and all personnel of the Directorate of Missile Intelligence.

Also not eligible are attorneys employed in their professional capacity, consultants, cooperative students, auditors, public law and supergrade employees, temporary employees whose appointments are for one year or less and employees who have submitted written notice of resignation or who have been discharged after Jan. 28, 1967.

Employees within the voting unit (MICOM) who did not work during the designated payroll period because they were on sick or annual leave or leave of absence (See ELECTION on Page 3)



HE CAN SHOOT, TOO!—Emerging from the M60 tank is Col. Spencer Baen, Project Manager for the Shillelagh anti-tank weapon system. Seconds before this picture was made, Col. Baen fired the new tank killer—his first attempt—in a development test at White Sands Missile Range. He scored a direct hit on a crossing target traveling at 20-miles-per-hour. Col. Baen directs the Shillelagh program from headquarters at Redstone Arsenal, Ala. Aeronutronic Division of Philco-Ford Corporation is prime contractor for the weapon system which is now in production.

# 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.

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for the Rocket are \$6.36 a year, or \$3.50 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Huntsville, Ala. 35640.

## Rocket Ruminations

This generation of Americans has a rendezvous with destiny.  
—F. D. Roosevelt

## Physical Fitness And You

Science, in many ways, has been a boon to man. Perhaps its most apparent success has been in producing devices designed to reduce our physical labor and save time. Americans however, have so vigorously and extensively applied these devices to their everyday life that their physical activity has been alarmingly reduced. The most vigorous activity of many in sedentary jobs is the daily walk to and from the parking lot.

Yet physical fitness, particularly for the soldier, is essential. He, no matter what his assignment, must remain in top condition. Without warning, he may be called upon to tax, not only his mental capabilities, but also his physical strength to the maximum. And, unless his preparation has been daily, that soldier will not be prepared.

The job of keeping in shape is often not an easy one. It requires extra time and initiative. It may mean getting up an hour early to run a mile before breakfast, or working out at a gym during off-duty hours. But the investment of time and energy will bring immediate and long-range benefits.

Regardless of who he is, or where he serves at the moment, every soldier in today's Army must be ready physically to assist in carrying out the Army's mission. He cannot afford to be found wanting. (ANF)

## Honor Graduate

FT. LEE, Va. — Sara W. Jones, contract negotiator in the Missile Command's Procurement and Production Directorate is an honor graduate from the Defense Advanced Procurement Management

Course at the Army Logistics Management Center.

Mrs. Jones was awarded a special diploma, presented by the graduation guest speaker, Navy Capt. Gilbert Young, Deputy Commander (Purchasing), Naval Supply Systems Command in Washington.

## DEFENSE

(Continued From Page 1)

configuration, the Hawk Improvement Program, and the SAM-D development program. We now plan to initiate in FY 1968 a new development program designed to ensure that the Nike-Hercules can continue to operate effectively in the 1970s. This new program, together with the Hawk Improvement Program, will provide a hedge against possible slippage in the development of the SAM-D which is tentatively planned as a replacement for both Hercules and Hawk.

"Last year we had tentatively planned to start procurement of the Improved Hawk in FY 1968. This system, which includes a new acquisition radar and a higher performance missile, promises significantly increased effectiveness. However, the project has encountered some development problems and the program has slipped. Meanwhile, we will go ahead with production preparations, using the funds provided in FY 1967 and those requested in FY 1968 for production engineering and production prototype missiles.

"The SAM-D, for which funds are requested in FY 1968, is an advanced surface-to-air missile system previously mentioned in connection with both the Strategic and General Purpose Forces. It is designed to provide all-weather defense against the medium and high altitude aircraft threat to both the Army in the field and the continental United States. In addition, it should be able to provide some defense capability against very low altitude aircraft and tactical ballistic missiles. SAM-D is now in the contract definition phase which will be completed this spring. We will then have to decide whether to proceed directly with development of an integrated system suitable for direct operational deployment, to limit development to a prototype system for feasibility demonstration, or to return to concept formulation. The second option would provide additional time to incorporate still more advanced technology and lead to demonstration tests. The first option would lead to full service tests. The funds requested will support any option. The major remaining task is to integrate into a working model a number of components, the feasibility of which has already been verified on an individual basis. The SAM-D program is closely related to the Navy's Advanced Surface-to-Air Missile System program and the development of the respective subsystems and components is being fully coordinated by the two Services.

"The \$5 million requested for "Anti-tank Weapons" will provide for the evaluation of new anti-tank missile concepts. Present efforts are directed toward identifying those system characteristics which together seem to offer the best chance of achieving an effective low cost anti-tank weapon.

"The largest project in the cate-

gory of individual and supporting weapons is the Medium Anti-tank Weapon (MAW), a shoulder-fired 14.5-lb. missile (28 lbs. including launcher) with a shaped charge warhead. The MAW missile is automatically guided to its target by an infrared sighting device linked with the missile by a wire.

"The funds requested for "Air-craft Suppressive Fire Systems" is for work on improved helicopter-borne weapons for our forces in Vietnam, including evaluation of various fire control systems, guns, missiles, and rockets. About half the funds will be used for feasibility demonstrations of presently available missiles and rockets, and most of the balance on advanced fire control systems and optical sighting devices.

### ARMY PROCUREMENT

"The revised FY 1967 Army procurement program now totals \$5,863 million, of which \$2,130 million is included in the Supplemental. The 1968 program totals \$5,881 million. The details of the Army's procurement program are shown on the classified table provided to the Committee.

"Army missile procurement (including spares) will total \$561 million in FY 1967 and \$769 million in FY 1968. The FY 1968 program provides for: ground support equipment for the Quick Reaction Alert Pershing battalions deployed in Europe; Lance missiles and related ground support equipment; initial procurement of the TOW missile system; a large quantity of Shillelagh missiles; and Redeye and Chaparral air defense missiles; and ground support and training equipment for the Hawk missile system.

### PROJECT DEFENDER

(Portions of the Defender Project, including Altair, HiBEX, Prestage, Upstage, and HAPDAR as well as portions of Project Agile below are performed by the Directorate of Research and Development).

"The Defender program is the principal exploratory development effort designed specifically to provide the missile and reentry technology associated with strategic defensive and offensive systems, and to develop concepts for advanced defensive systems against ballistic missile attacks. In FY 1968, a substantial portion of the \$118 million requested for this project will be devoted to missile reentry and midcourse phenomenology. An important series of studies and tests, called the Pacific Range Electromagnetic Signature Studies (Project Press) will be continued in FY 1968, but with some change in emphasis: in the future, more emphasis will be given to problems related to offensive systems.

The FY 1968 budget for Defender also includes \$0.7 million for the last increment of a \$17 million "Altair" radar that will be used for Project PRESS experiments, extending the capability

## University Offers Re-Entry Courses

Engineers, scientists and technical managers with a Bachelor's degree or equivalent experience who want to study re-entry and planetary entry physics and technology will be offered a 40-hour course at the University of Alabama, Huntsville in April.

The course will cover body dynamics, atmospheric properties and re-entry trajectories; fluid flow, plasma formation and heat shields; phenomena observable during atmospheric re-entry; techniques and technology for measuring observable phenomena; microwave interactions with the re-entry vehicle, plasma sheath and wake; simple methods for predicting the duration of communications blackout, and the basic features of radar and optical tracking and data gathering during re-entry.

The course instructor will be Dr. F. H. Mitchell, Jr., an advisory engineer with the IBM Corporation. A number of guest lecturers are also on the agenda. The course will run from Apr. 24-28 from 8 a.m. to 4 p.m.

of the Press system. This radar is designed to provide some of the data necessary for the development of penetration aids for Minuteman and Poseidon and for investigating discrimination criteria. And, as previously mentioned, Project Defender has been an important complement to the Nike-X development.

"Another Defender program, HiBEX (High-G-Boost Experiment), has completed its exploratory phase and this technology will be taken over by the Army for further advanced development work. HiBEX provided significant data on high acceleration technology, which contributed to the development of the Sprint missile. The successor projects to HiBEX, called Prestage and Upstage, will explore technology for high acceleration, maneuverable interceptor missiles.

"Work is also being done on Over-the-Horizon radars and on the development of an inexpensive array radar (HAPDAR) which would have the capability of being hardened and applied to Hard Point Defense systems.

### PROJECT AGILE

"For FY 1968, \$27 million is requested for Project Agile, about the same as FY 1967. This is our basic research and development effort oriented to the special problems of remote area conflict with particular reference to the requirements of insurgency warfare."

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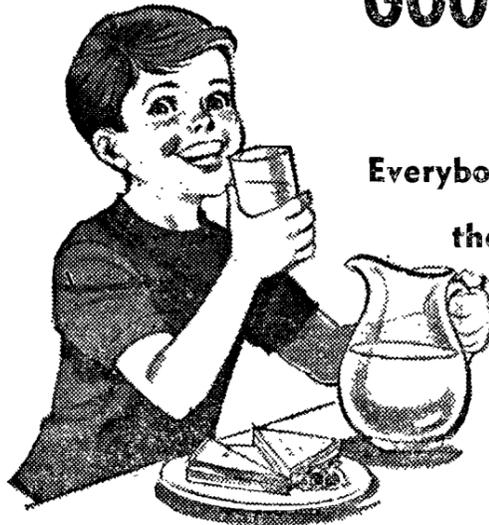
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# Do It Yourself Is Shillelagh Manager Motto

The Redstone Rocket — February 1, 1967 Page 3

## ELECTION

(Continued From Page 1)

are eligible to vote. Persons who have resigned or who have been discharged since the designated payroll period and who have not been rehired or reinstated prior to the date of the election are not eligible to vote.

### VOTING PROCEDURES

The election will be by secret ballot. Voters will be allowed to vote without interference, restraint or coercion. Electioneering will not be permitted at or near the polling places. Violations of these rules should be reported immediately to an observer at the polling place.

An observer will hand a ballot to each eligible voter at the polling place. When voting, you will mark your ballot in secret and fold it. You should personally deposit the folded ballot in the ballot box at the place you vote.

A majority of the valid ballots cast, provided there is a representative vote, will determine the results of the election.

Sixty percent of the more than 7,000 eligible voters must cast ballots in order for the election to be qualified as a representative vote.

Authorized observers at each polling place will consist of an equal number of designated MICOM and AFGE representatives. Observers will act as checkers at the polling place and at the counting of ballots, assist in the identification of voters, challenge voters for cause and see that the election is conducted in a fair and impartial manner.

### CHALLENGED BALLOT PROCEDURES

Under the election rules, a voter's eligibility can be challenged before he enters the voting booth by either MICOM or AFGE observers. Challenges may be based on such factors as the voter is not a member of the unit, is in temporary or casual status, performs a managerial or supervisory function or was employed after the eligibility date or was terminated before the election.

All persons whose vote has been challenged, including those whose names may not appear on the eligibility list at the polling place, may vote in this election. They must, however vote a challenged ballot. Observers may not resolve challenges or argue their appropriateness at the polling place. Challenges will be resolved by appropriate MICOM and AFGE officials prior to the actual counting of the ballots.

When voting a challenged ballot, a small "C" will be marked beside the voters name on the voting list. He will be furnished a small secret ballot envelope, a ballot and a larger challenge envelope. The voter's name and classification, together with the name of the observer making the challenge and the reason for the challenge will be marked on the larger envelope. The voter will then mark his ballot in secret, seal it in the secret ballot envelope and seal that envelope in the larger challenge envelope, which is in turn sealed and deposited in the ballot box.

### VOTING BY MAIL

Mail ballots have been sent to MICOM employees at duty stations outside Huntsville by certified mail, return receipt requested no later than Feb. 10, 1967. In the event a return receipt is not received, the addressee's name will be deleted from the eligibility count.

Eligible employees working at Huntsville who on the day of the election are on annual leave, leave without pay, TDY or who may be hospitalized or confined to their homes because of illness may also vote by mail. They must request a mail ballot either in person or by mail from the MICOM Civilian Personnel Office, Building T-3158, Redstone Arsenal.

Eligible employees may vote a mail ballot by marking it and mailing it to Jack N. McConaha, Civilian Personnel Officer, U. S. Army Missile Command, ATTN:

As boss of the Army's powerful new tank killer which can fire both guided missiles and conventional ammunition from the same tube, Col. Spencer Baen knew everything about the weapon system—except how it felt to pull the trigger!

So he did something about it. The Shillelagh Project Manager at

AMSML-KP, Redstone Arsenal, Alabama 35809.

For a mail ballot to be eligible to be counted, it must have been submitted by an eligible voter and have been received, if mailed, by 9 a.m., Feb. 16, 1967, at the MICOM Civilian Personnel Office, Bldg. T-3158, Room 107.

If used as an absentee ballot and voted in person before the election, it must be voted and deposited in the ballot box in the MICOM Civilian Personnel Office, Bldg. T-3158, Room 107 by close of business Feb. 14.

Any person who is either sent or requests a mail ballot will not be eligible to vote in person on Feb. 15.

All mail ballots will be checked for eligibility of the person who is using this means to vote before they are opened and counted. The challenged ballot procedure shall, where applicable, be used in opening and counting these ballots to resolve any challenges of these voters and to protect the secrecy of the ballot.

Persons voting by mail will receive a ballot, a small envelope and a larger, franked return envelope together with an eligibility statement and a letter of instruction.

In voting by mail, persons should mark either "yes" or "no" on their ballot, fold it and seal it within the smaller envelope. They should also sign the eligibility statement attesting to their belief that they are eligible to vote. The eligibility statement, however, should not be sealed in the smaller envelope with the ballot. The eligibility statement and the small sealed envelope containing only the ballot should both be placed in the larger, franked return envelope.

The voter should then sign his name and payroll number on the outside of the return envelope and mail it to the MICOM Civilian Personnel Office or deposit it in the ballot box in Room 107, MICOM Civilian Personnel, Bldg. T-3158, prior to the close of business on Feb. 14.

All persons who by the terms of the election rules are regularly scheduled to vote by mail ballot, and who actually receive a mail ballot as evidenced by a signed Post Office Department return receipt form, shall be counted as present on the day of the election for the purpose of determining whether or not there has been a representative election regardless of whether or not these employees actually vote.

### BALLOT CUSTODY

MICOM will prepare the ballots. They will be kept in a secure place prior to use. The ballot box will be in the observers' custody from the start of the election until the count. It is anticipated there will be no breaks in the election. In the event of emergency which causes a break, the slot in the box will be sealed by wide masking tape and signed across the tape by the observers.

At the close of the election, the slot in the box will be sealed by masking tape, signed by observers and handcarried to the vault in Room 37, Building 7101.

### COUNTING

By agreement with Lodge 1858, AFGE, six union observers and six management observers will conduct the count on Feb. 16, 1967, in the Conference Room of Building 7101.

Five working days are allowed in which individuals may file objections to the election. Objections, if any, are to be received by the close of business, five days following the date of notification of the election results. Objections, if any, should be submitted to Leonard M. Brockman, Civilian Personnel Office, Building T-3158,

the U. S. Army Missile Command climbed into an Army tank at White Sands Missile Range, N. M., and tried his skill as a gunner.

Although he had never fired before, Col. Baen scored a direct hit on a crossing target traveling at 20 miles-per-hour. His only previous experience handling the weapon system included about four hours of target tracking practice prior to the firing.

"I thought it would be helpful to fire at least one missile myself," the Colonel explained. "This way, I know what it's like and I now have a better feel for the weapon system and its performance capabilities."

This exploit also places Col. Baen in a rather unique category—he is one of the few project managers to actually fire the missile system under his control.

The firing was part of current tests being conducted with Shillelagh, to prove its capabilities. The missile was launched from an M-60 tank, one of several vehicles on which the weapon system will be mounted.

Did he experience any problems?

"None at all," he answered. "With Shillelagh, you just keep your gun sight on the target until the missile impacts."

And, as the Colonel explained it, "I can vouch for the fact that the missile flies to the spot pinpointed by the sight."

Now in production for a variety of armored vehicles, Shillelagh's 152mm gun-launcher can fire either missiles or conventional ammunition—whatever the target requires.

The Aeronutronic Division of Philco-Ford Corporation is prime contractor for Shillelagh.

## NIKE-X

(Continued From Page 1)

against a Soviet missile attack.

b. To protect our cities against a Red Chinese missile attack in the mid-1970s.

c. To help protect our land-based strategic offensive forces (i.e., MINUTEMAN) against a Soviet missile attack.

After studying the subject exhaustively, and after hearing the views of our principal military and civilian advisors, we have concluded that we should not initiate an ABM deployment at this time for any of these purposes. We believe that:

The Soviet Union would be forced to react to a U.S. ABM deployment by increasing its offensive nuclear force still further with the result that: The risk of a Soviet nuclear attack on the U. S. would not be further decreased, and the damage to the U.S. from a Soviet nuclear attack, in the event deterrence failed, would not be reduced in any meaningful sense.

"With regard to the Red Chinese nuclear threat, an austere ABM defense might offer a high degree of protection to the nation against a missile attack, at least through the 1970s. The total investment cost of such a program might amount to \$3.5 billion, including the cost of the nuclear warheads.

"This austere defense could probably preclude damage in the 1970s almost entirely. As the Chinese force grows to the level

it might achieve by 1980-85, additions and improvements might be required, but relatively modest additional outlays could probably limit the Chinese damage potential to low levels well beyond 1985.

"It is not clear that we need an ABM defense against China. In any event, the lead time for deployment of a significant Chinese offensive force is longer than that required for U.S. ABM deployment; therefore, the decision for the latter need not be made now.

In the light of the foregoing analysis, we propose:

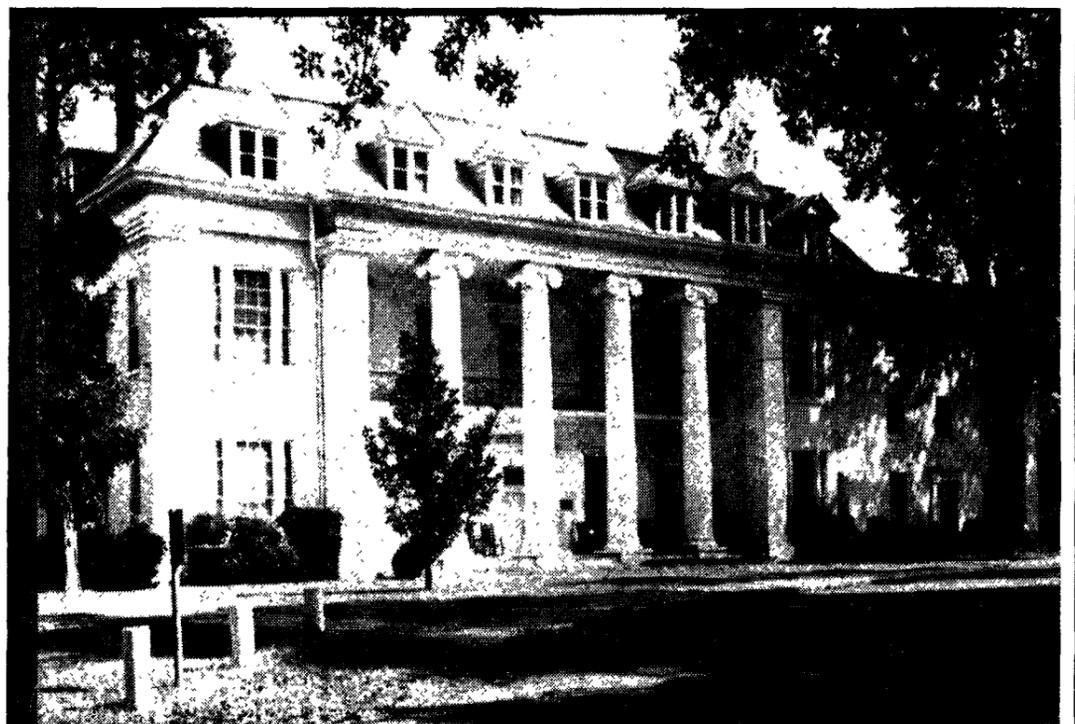
1. To pursue with undiminished vigor the development, test, and evaluation of the NIKE-X system (for which purpose a total of \$442 million has been included in the FY 1968 Budget), but to take no action now to deploy the system.

2. To initiate negotiations with the Soviet Union designed, through formal or informal agreement, to limit the deployment of anti-ballistic missile systems.

3. To reconsider the deployment decision in the event these discussions prove unsuccessful; approximately \$377 million has been included in the FY 1968 Budget to provide for such actions as may be required at that time—for example, the production of NIKE-X for the defense of our offensive weapon systems.

"We are also requesting \$44 million for the Kwajalein Test Site, operated by the Army. Increased support will be given to the Army's NIKE-X and the Advanced Research Project Agency's DEFENDER program at Kwajalein."

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# NCO Wives Install Officers At Dinner Meeting

## SOCIAL and CLUB EVENTS

### Wives To Have Brunch

The Redstone Officers Wives Club, with retired officers wives as hostesses, will have a card party and brunch beginning at 10 a.m. Tuesday at the Redstone Officers Open Mess.

Mrs. William Trachsel is president of the Retired Officers Wives Association. Mrs. Walter Thomas is chairman for this event. Reservations are being handled by Mrs. J. T. Price, 877-4862; Mrs. T. H. Lynch, Jr., 877-5764; Mrs.

T. H. Moseley, Jr., 877-4064; Mrs. R. H. Mullen, 877-4371 and Mrs. R. E. Bischoff, 877-5563. Deadline is Friday noon.

Cancellations will be accepted until noon Monday by Mrs. C. T. Bayer, 877-5735.

### Quality Control Men Will Meet

### Downtown Monday

The Huntsville Section of the American Society for Quality Control will meet at 6:30 p.m. Monday night at the Russel Erskine Hotel for a ladies night program.

The featured speaker will be Kenneth E. Joy, Chief of the Quality and Reliability Management Office, Army Missile Command. Joy's subject will be "Quality Control in Japan". He and Horace Lowers, Chief Engineer, recently toured Japan as guests of the Japanese Management Association. Plants visited included: Honda, Nippon Electric, Nippon Gaisi, Sumitomo, Akai Electric, Toyo Bearing, and Matsu Shita Electric.

Lowers will also be present to add commentary and answer questions. All persons interested in Quality Control, Reliability, and associated fields are invited to attend. Dinner reservations may be made by phoning Jerry Gibbs at 877-8598.

### Drive Safely

### Mrs. Dye Is

### New President

The Redstone Non-Commissioned Officers Wives Club installed their officers for 1967 during a dinner meeting Friday night at the Steak Barn, attended by more than 50 members and guests.

The new officers, who were installed by Col. J. N. Jean, Director of the Arsenal Support Operations Directorate, are: Mrs. Charles E. Dye, president; Mrs. Earl Brennan, 1st vice-president; Mrs. William Clark, 2nd vice-president; Mrs. John Mazikowski, treasurer; and Mrs. Arthur Caldwell, secretary. Mrs. Jean is the Club's honorary president.

Mrs. William Kyle, the outgoing

president, presided at the meeting. The invocation and benediction were given by Chap. (Maj.) Peter T. Farrelly.

Plaques of appreciation were presented by Mrs. Kyle to Sfc. John G. Watson, Jr., the NCO Open Mess custodian, and to M/Sgt. John R. Kaylor, president of the NCO Open Mess Board of Governors.

Col Jean, assisted by Mrs. James Gist, gave certificates and trophies to outgoing officers and chairmen. Receiving certificates were Mrs. Brennan, Mrs. Dye, Mrs. James Harris, and Mrs. Jack Clemons.

Trophies went to Mrs. Frank Reid, Mrs. Gist, Mrs. Caldwell, Mrs. Harry Bullard, Mrs. Phillip Burch, Mrs. James Huff, Mrs.

Kyle, and Mrs. John Bunch.

Mrs. Jean was presented a gavel as the new honorary president, and Mrs. Kyle received a souvenir gavel as outgoing president.

The senior hostess for the event was Mrs. Fatie Roberson. Other hostesses were Mrs. Huff and Mrs. Charles Slaton.

The dinner tables were covered with yellow clothes and centered with ivy and white chrysanthemums. An arrangement of blue iris, white chrysanthemums and stephanotis decorated the head table.

Col. Erwin M. Graham, Commandant of the Missile and Munitions Center and School, and Mrs. Graham were among the special guests at the meeting.



NCO WIVES CLUB INSTALLS OFFICERS—This group was installed as the 1967 officers of the Redstone Non-Commissioned Officers Wives Club Friday night during a dinner meeting at the Steak Barn. They are, left to right, Mrs. John Mazikowski, treasurer, Mrs. Arthur Caldwell, secretary, Mrs. William Clark, 2nd vice-president, Mrs. J. N. Jean, honorary president, Mrs. Earl Brennan, 1st vice-president, Mrs. Edwin Spooner, parliamentarian, and Mrs. Charles Dye, president.

### MRS. W. MATTIS WINS AT BRIDGE

Mrs. William Mattis won the bridge competition Thursday among the Redstone Officers Wives Club sponsored bridge group which meets weekly at the Redstone Officers Open Mess.

Second was Mrs. Thomas Warns. Mrs. R. U. Scott was third. Among the seven tables in play, Mrs. Marshall Rieves scored low.

Reservations to play with the group are being handled by Mrs. Arthur Matthews, 536-9958.

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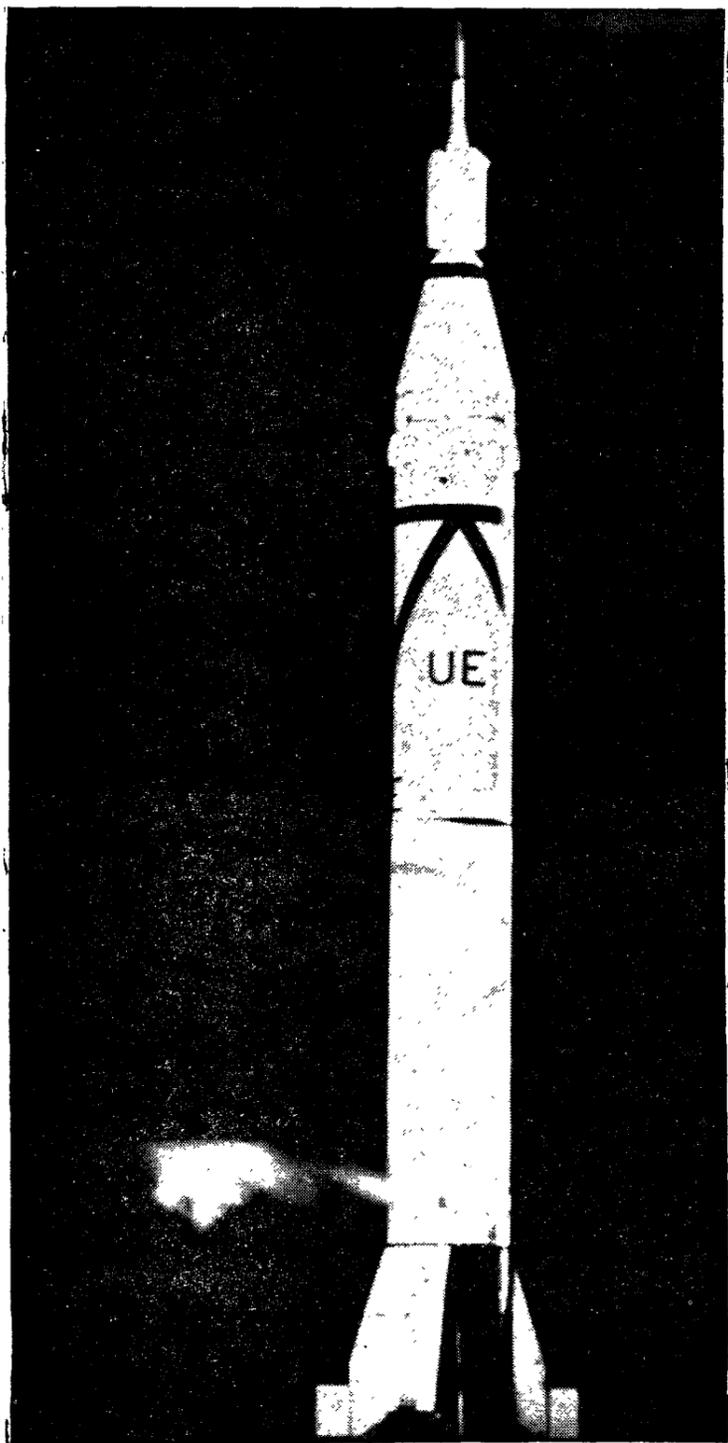
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**HISTORY THAT STARTED AT REDSTONE**—Nine years ago—January 31, 1958—U. S. Army technical know-how launched the Free World's first scientific earth satellite, the Explorer I. Launched just 83 days after the go-ahead was given, the satellite was mounted atop a Jupiter C vehicle with the Redstone missile as the first stage. Explorer I is still whirling its way through space, a tribute to the Army military and civilian personnel at Redstone Arsenal who opened up a new era of technology.

## Explorer I Circles Earth; Instruments Silent Now

Nine years ago today the whole world became aware of the Army's first satellite in space — Explorer I, launched from Cape Canaveral (now Cape Kennedy) the night before.

The orbiting satellite is clinging to its position far longer than the most optimistic predictions at the time of its launch. It has orbited the earth some 43,000 times and is going around the earth every 102.6 minutes in an egg shaped orbit. It goes out into space about 890 miles and whips back within 210 miles of earth 14 times a day.

The launch vehicle was a Jupiter C (also known as Juno I). The base was the Army's reliable workhorse (now retired): the Redstone Missile.

The total weight when the Explorer I was put into orbit was 30.8 pounds, with 18 pounds of the total in instrumentation. It is six inches in diameter and 80 inches long, including a 47-inch burned out rocket case attached to the instrumented portion.

When the vehicle stopped trans-

mitting data back to earth, the Smithsonian Institution continued tracking it visually. One of the important facts about space which the vehicle discovered was the Van Allen radiation belt.

It first sailed into space in a big loop reaching 1585 miles at the highest point and 223.7 miles at the low point. The first orbit required 114.9 minutes.

Present predictions of reentry into the earth's atmosphere are that the satellite will probably reenter and burn in late 1969.

Many members of the original team that lofted Explorer I are now at the Marshall Space Flight Center or other NASA facilities, and the Jet Propulsion Laboratory scientists are under contract to that organization rather than the Army now.

### SYMPOSIUM SCHEDULED

The American Astronautical Society's 1967 National Symposium has been re-scheduled for June 11-14 in Huntsville. The Symposium, "Apollo and Beyond", is being co-sponsored by the Army Missile Command, the Marshall Space Flight Center and the University of Alabama, Huntsville.

Abstracts of 2,000 words have a deadline of Feb. 20, but authors may request a three-week extension with a preliminary abstract outline of 200 words in the hands of E. U. Clark, Technical Program Chairman, c/o Northrop Corp., P. O. Box 1484, Huntsville 35807 before the deadline date.

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## USMC Open To Qualified Enlisted Men

FORT MONROE, VA.—Invitations to join the long, grey line at West Point are now being extended to qualified enlisted personnel at the start of their Army training.

From the moment they arrive at the reception center, and throughout basic combat training (BCT) and advanced individual training (AIT), highly motivated enlisted men are encouraged by their unit commanders to apply for appointments to the Academy. If accepted they first attend the United States Military Academy Preparatory School, Ft. Belvoir, Va. Commanders observe the leadership potential of qualified trainees during early training.

During the fifth week of BCT and the sixth week of AIT, unit commanders counsel qualified individuals and explain application procedures. If an otherwise qualified soldier has not taken the Officer Leadership Qualification Inventory (OLI-1), the commander arranges for him to take it.

Applicants must have a minimum General Technical Aptitude Area Test (GT) score of 110; Officer Candidate Test (OCT), 115, and OLI, 148, and must be in top physical condition.

The Defense Intelligence School is offering a revised non-residential intelligence course for active and reserve officers, GS-7 and up civilian intelligence employees and enlisted personnel with intelligence related NECs or MOSs. Information or application requests should be sent to: Defense Intelligence School, Non-Resident Course Division, U. S. Naval Station, Anacostia Annex, Washington, D. C., 20390. ANF

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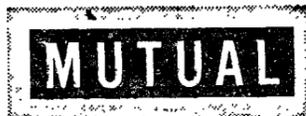
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# Documentation Five Poses Real Threat To F&A

## One-Man Scoring Machine Wins Two

No sooner had Finance and Accounting disposed of one threat to their hold on the CWF basketball league lead than another quintet has appeared on the scene with the promise of going all the way to the league title.

F & A made it four in a row last week by handing Data Processing their initial setback, 53-43, while Documentation took a pair of very impressive wins to go with an early win.

The Documenters followed the lead of Greg Bogue, their one man scoring gang, to a 71-58 win over Project Roads and a 59-44 conquest of Supply and Maintenance.

Metrology Lab took Logistics, 43-20, the Comp Center doubled the score on the Industrial Engineers, 60-30, and Project Roads chalked up their first win at the expense of Intelligence and Security, 42-39, in other games last week.

The Accountants sent ten players into the game against the Processors and all but one scored as they opened up an early lead and held it the rest of the way. Wade Cantrell was high with 15 points and Charley Williams added 11 more. Ben Williams led the Processors with 15 and Jay Stover collected 11.

Bogue poured 27 counters through the hoops and Jim Bunnell added another 17 as Documentation had little trouble in disposing of the Procurement five. Bill Rencher and Emmett McDaniel tossed in 10 apiece for the losers.

Two nights later the Documentation sharpshooter literally tore the bottom out of the hoop with 31 as S & M provided a good bit more opposition. The score was close up to the middle of the final period.

Bunnell hit for an even dozen points and Bob Hubbard fired in 11 more. Bobby Collier was high for S & M with 16 and Dave Cunningham hit for 10.

The Metrology Lab took an early 19-7 lead over Logistics and then used a slow down offense which the losers were unable to cope with. Jim Parker and Orville Lee each tallied 8 points to pace



**PROOF IS IN THE TROPHIES**—Three first place trophies won recently by the Redstone Pistol team are presented to Maj. Gen. John G. Zierdt as proof of bigger things to come. These awards were won in competition against civilian and other military teams in the Steel City Pistol Match at the Magic City Gun Club, Birmingham. The next big event is the National Indoor Pistol Championship, Sectional Match, this weekend in Memphis. Members of the team shown with Gen. Zierdt are, left to right: Sgt. 1st Class

Carl LeBeaumont, Capt. Spurgeon Green, Jr., 1st Lt. Randolph Smith, 1st Lt. Maxwell Westmoreland, Capt. William Greenlee and Capt. Harry Lucker. Capt. Lucker, the team coach, holds the International Distinguished Marksman Medal won in international competition in Moscow in 1958, is on the President's Hundred with rifle, and holds the Distinguished Pistol Shot Badge. He also was Captain of the Army European Pistol Team in 1964-65 and was marksman instructor at Ft. Benning, Ga., in 1959-61.

## Ann Weiner High In Ladies League

Ann Weiner grabbed all the individual honors for the Tuesday Morning Ladies league last week when she led the Four Hopefuls to a three out of four win that prevented the Bowling Bags from easing into the league lead.

Ann chopped down 195 of the Post Lanes' tenpins in the middle

the winning attack that saw eight different players score. Vern Arnold scored 9 for Logistics.

The Comp Center got a 20-point outburst from Ken Johnson as they ran away from the Engineers. Selwyn Hemphill tossed in 9 more while Wade Hinrichs topped the Engineers with 10.

Project Roads outscored I & S in the second and fourth quarters to offset a third quarter hot streak by the losers in hanging up their first win after four losses.

The two ended the first quarter all even at 16-16 and the score was 35-35 after three periods. But I & S was only able to hit one goal and a pair of foul shots in the final period while the Roads crew was scoring 7 points for the win.

Rencher topped the winners with 15 and McDaniel added 12 more while John Stanford paced I & S with 13.

game and totaled 536 for the three games. The loss dropped the Bags two and a half games off the pace being set by the Rare Spares.

The leaders were only able to take two and a half points from the Do Nothings as Mary Kramer, for the Spares, and Inga McCool traded 190 games.

The only other 500 series was

Page 6

The Redstone Rocket — February 1, 1967

put together by Ginny Payne. Lanueva hit a 189 game and a

whose 503 paced the Splatter Pins 463 set. to three wins from the Queen Pins.

Erna Metcalf turned in a 475 as the Tipsters won three from

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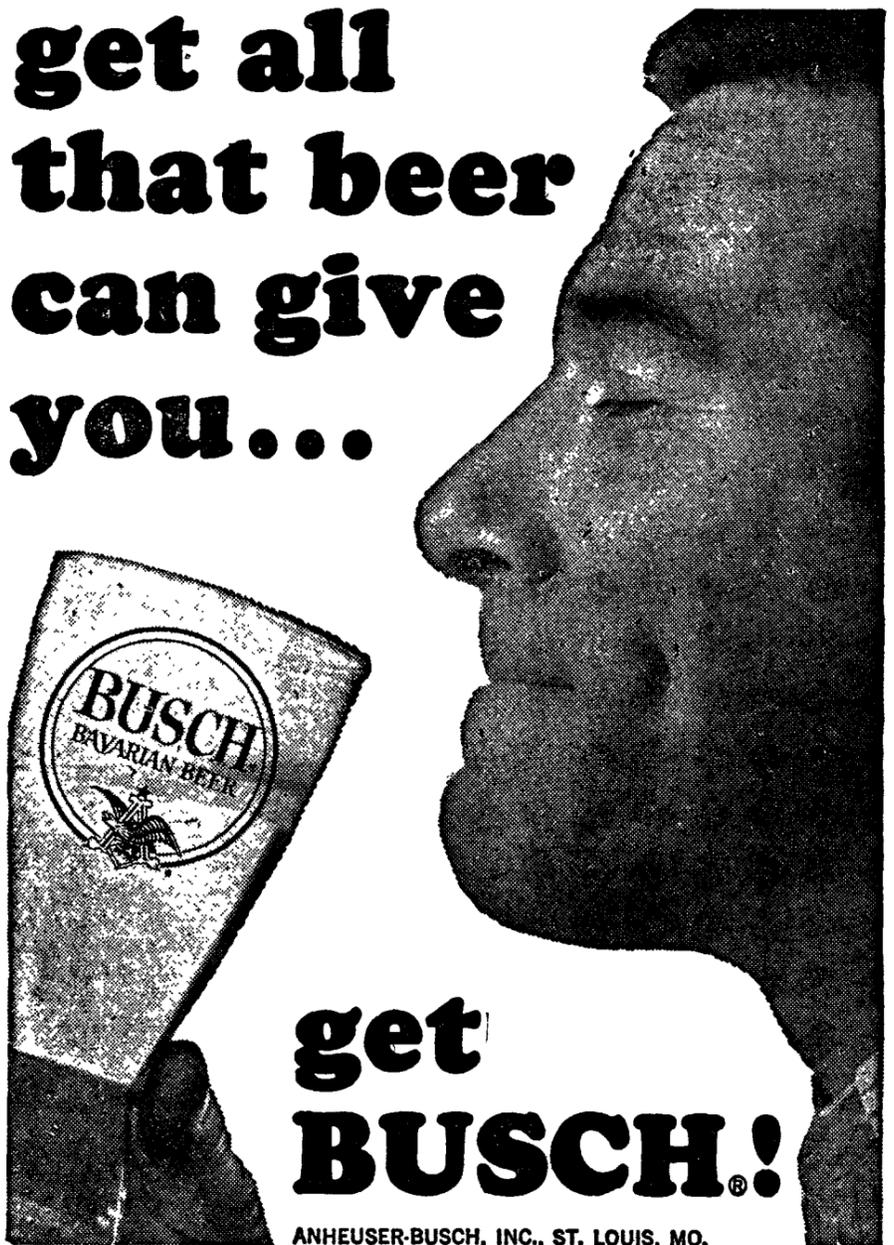
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# Stewart Leaves Mark On Two Civilian Loops

Fred Stewart provided most of the civilian bowling league fireworks last week with a pair of Honor Roll counts in two different Huntsville bowling houses.

The veteran maple mauler was the picture of consistency as he fired four games in the 200 bracket and had a low game of 190 posting consecutive totals of 601 and 603 in the Supply Management and Field Service leagues.

On Monday night Stewart strung together games of 202, 199 and 200 at the Starlite as the league leading All-Sports Trophies protected their lead by splitting with the runner up Pin Busters.

Two nights later he assaulted the Parkway maples while bowling in a substitute role for the Guided Muscles. His games of 202, 190 and 211 paced the Musclemen to a 1135 final game and a 3110 series.

Howard Jess chipped in with a 258 for the big last game and ended the set with 593 and Nick Sparks totaled 557 for the same team. However, it was good for just a split as the league leading Banner TV five did a little pin spilling of their own in the first two games.

Bill Couch had a 216 and a 584 total and Jim Haight chipped in with 549 for the TV-men.

Ralph Poehler shot a 225 and a 596 series as the Expeditors won all four from the Satellites and Bill Fickling had games of 210 and 201 as the Keglers split with the Wheels.

Despite his Monday night heroics Stewart was forced to take a back seat in the individual race when D. B. Smith hit his fifth Honor Roll count in the Supply Management league. D. B. hung up a 602 in leading the Brick and Tile men to a clean sweep over the Pearsall Flowers.

Tom Lindsay helped the sweep along with a 554 and Gary Phillips added 546 more to the attack. The Pearsall men went down after a fight as Dick Williams turned in a 555 and Dick Gore fired a 547.

The Auto Center made a move toward regaining the lost lead by

winning three from the Debuggers as Cliff Cline shot a 557, Walt Young felled 556 sticks and Hal Williams turned in a 549. Cecil Bunch paced the losers with 227 and 560.

The Ramblers and the Bombers continued their stumbling act in the AMC League with the former dropping a trio to the Tigers while the latter was able to win just a half point.

Hal Williams guided the Ramblers to their lone win and ended with a 548. His mates have dropped three of the last four matches but still lead by three points as the Bombers have had even tougher sledding in recent weeks.

Bob Brand and George Thurlow carried on a personal duel to spark the Bomber-Rejector match. Thurlow shot a middle game of 244 and ended the evening with a league leading 562, nine more pins than Brand was able to muster.

However, Brand came within a whisker of grabbing the final game with a pair of strikes and a nine-pin count in the final frame. A stubborn 8 pin hung up on the last ball to result in a tie game.

## CFW Basketball

### How They Stand

	W	L
Fin & Acct	4	0
Documentation	3	0
Data Processing	3	1
Comp Center	4	1
Sup & Maint	2	2
Metrology Ctr.	2	3
Intell & Scy	1	3
Logistics	1	4
Project Roads	1	4
Ind Engineers	0	3

### Leading Scorers

G	Pts.	Avg.
Bogue	3	86
Whittaker	3	55
Stanford	4	65
Johnson	5	69
C. Williams	4	52
Bunnell	3	32
Gist	4	42
Hemphill	5	50
Collier	3	29
McDaniel	5	46

## Strikes Hold Lead With Late Rally

A closing rush gave the Lucky Strikes one point in their match with the Wheezers and kept the Hopefuls from closing the first place gap to a single point in the A-B-C Officers League last week.

After losing the first two games and trailing midway through the third, the Strikes suddenly found themselves and rallied for a single point while the Hopefuls were taking all four from the first half winning Saturn five.

Don Vanderheyden didn't help his 186 average much but still led the Strikes with a 538 and Ray DeBolt had a 537. Wiley Cooper shot a 539 for the Wheezers and Johnny Johnson whipped in with 537.

The Black Jacks followed Frank Riley's 515 lead to a trio of wins from the Pin Splitters and the Mixers won three from the War Hawks as Jerry Keefe led with 513.

In each of the latter matches the top individual performed in the losing cause. Duane Ready shot a 534 for the Splitters and Rich Higdon totaled 532 for the Hawks.

## Percy Leads Way For Rounder Win

The Rounders regained sole possession of first place in the MMCS Officers bowling league last week with a three out of four win over the Squirrel Hill Mob while the Black Jacks were being held to a split by the Hubs.

Rob Percy turned in games of 211 and 216 and a three-game total of 583 in leading the Rounders to their win. Clark Holloway chipped in with a 524 and Al Leonard contributed 523 to the leader's attack.

The Jacks were never able to mount a sustained attack and had to settle for a split, with George Earle in the lead with a 501. Lin Varney had 500 in the losing cause.

Runner up honors for the week went to John Harris whose 560

## STC Bowlers Keep Honor Roll Pace

The STC bowling league continued its hot Honor Roll pace last week when Darrell Watson used a pair of bog 200s to negotiate the magic 600 figure and three others came within a mark or two of cracking the list.

The military bowlers provided five Honor Roll counts during the last two sessions of the first half race. Watson was the initial entry as the second half of the season got underway with three clean sweeps.

He opened with a 236 and added

## All-Sports Hold Mixed League Lead

The Alley Cats had the top bowler in the Comp Center Mixed League last week but the All-Sports Trophies had the most team strength and used it to take three of the four points when the two teams met.

Randy Sumner was the leading male bowler for the week with a 560. Sue Todd had the top total among the gals with a 505 to go along with the 531 that Wayne Spruill put together in keeping the All-Sports four on top.

Neil Hamilton came within a pin of Sumner's leading total and Jim Collins added a 506 as the Hits n Misses win three from the Bad Gnus. Bill Jones shot a 243 game to spark the Gnus to their single win.

The runner up Skunks took three from the Spares with Howard Jess leading the way with 521 and the Lucky Strikes won a trio from the Squares. Bobby Beal totaled 532 with a 226 game in the losing Spare effort.

provided the Satellites with an even split with the Bad Gnus. The final match of the week was a 3 to 1 win for the Swags over the Rocket Rollers as Jerry Whittaker turned in a 510 report.

a 218 before closing with 190 for a solid 644 total as B Company No. 1 won all four points from 6th ETC.

John Kasper fell just short of 200 in each game but ended with a 592 as C No. 1 took all four from 4th ETC as Bill Belt, a previous Honor Roll bowler, added a 553 to the winning attack.

The third sweep was scored by Headquarters No. 1 as they set out to add the second half crown to their first half win. Mike Hamer, who has hit 600 on two occasions, shot a 549 and Ed Ratliff had three pins less.

Ken Allen had games of 218 and 206 and totaled 575 in leading 2nd ETC to three out of four from Nike FMTE and Ed Waldrup shot a 233 game and a 571 as Headquarters No. 2 took a trio from Company A. Al Villanueva turned in a 541 effort in the losing attack.

## Hercules Contract Tops \$2.4 Million

The U. S. Army has awarded a \$2,421,000 contract to Intercontinental Manufacturing Co., Inc., of Garland, Texas, for support equipment for the Nike Hercules air defense guided missile system.

The firm fixed price contract calls for delivery of rocket motor metal parts. Work will be performed at Garland.

The Hercules system is managed by the Army Missile Command, under E. L. Smock, Acting Project Manager. Negotiating the contract for the Army was the Missile Command's Procurement and Production Directorate headed by Col. S. C. Holmes.

Now deployed around key areas in both the United States and overseas, Nike Hercules has proven successful in tests against high performance aircraft at a variety of altitude and has successfully intercepted short range ballistic missiles.

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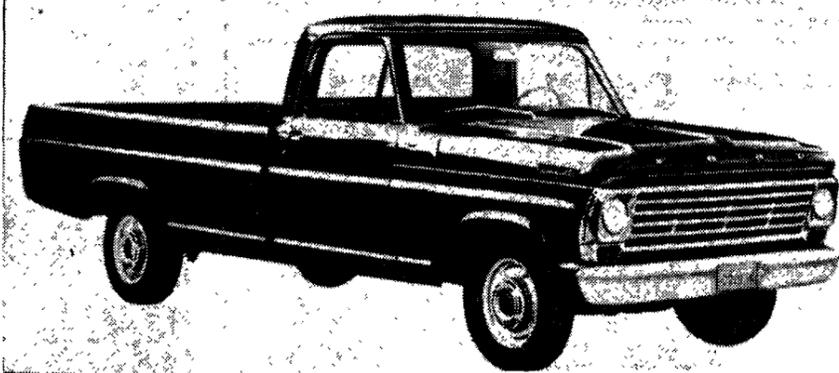
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# Missile Mentor Guides Guided Missiles

## System Coordinates Fire Power From Surface To Air

Missile Mentor, a faster, more reliable and less expensive electronic system coordinating the firing of Nike Hercules and Hawk surface-to-air missiles in defense of American cities, was unveiled today by the U. S. Army at operational sites across the country.

Employing new high-speed general-purpose computers and electronic display consoles, Missile Mentor gives air defense commanders more information than they have ever had on which to base battle decisions.

The new system, which provides a strong ring of defense around American cities against air attack, was manufactured by Hughes Aircraft Company under a \$12 million contract with the Army Missile Command. Technical supervision was provided by the Missile Command's Air Defense Control and Coordination Systems Office.

With its solid state components and circuitry, Missile Mentor reflects the rapid development of air defense electronics know-how over the past decade.

It also represents a substantial dollar savings to the Army and

taxpayer when compared to the cost of operating and maintaining the older systems it replaces.

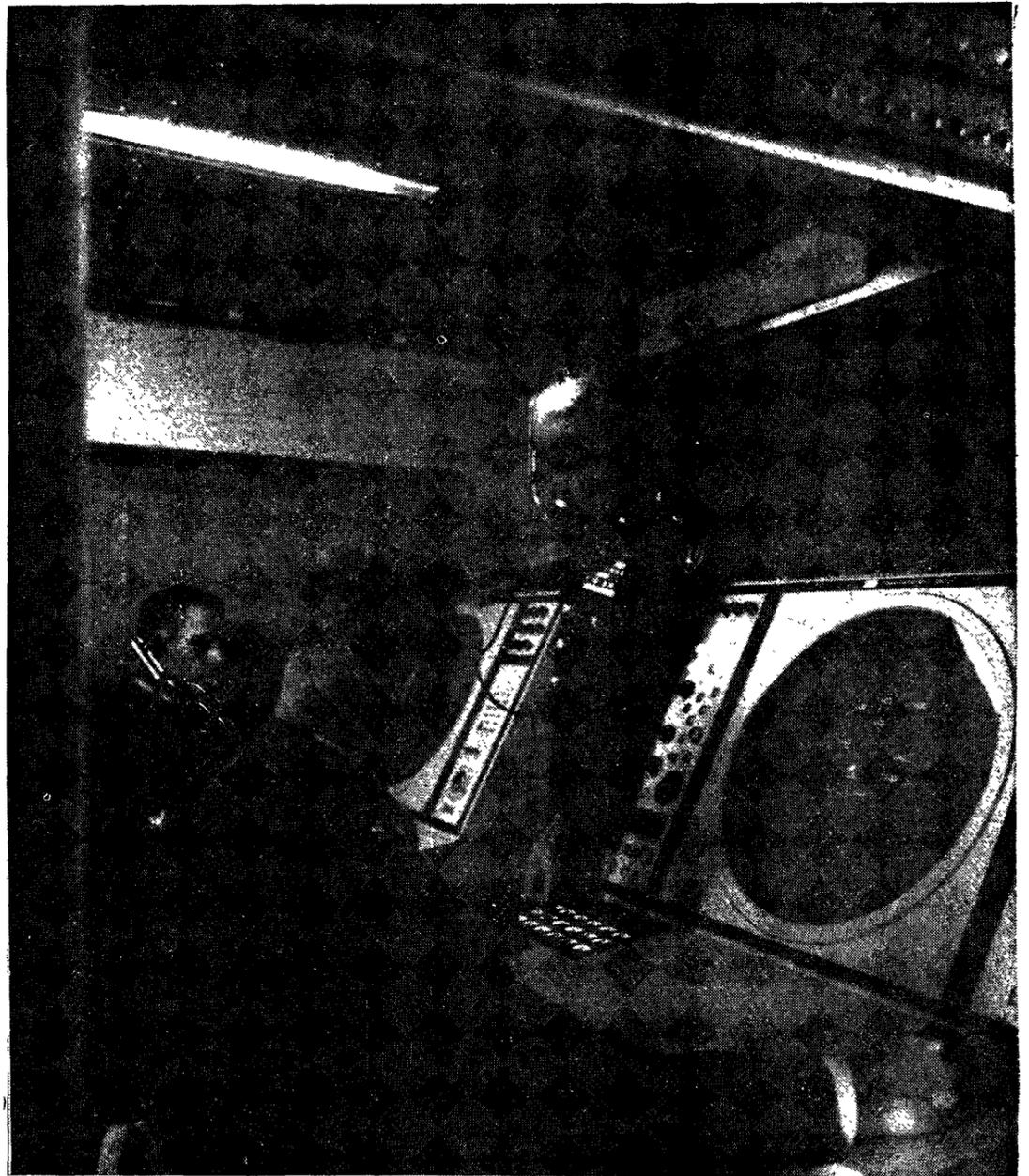
For example, the cost of a single Missile Mentor is approximately one-tenth that of a single Missile Master system which costs in excess of \$10 million per site. In addition, operating and maintenance costs for the new system, designated AN/TSQ-51 by the Army, are less than \$250,000 annually which is about one-fourth of the older system's operating cost.

In operation, the system consists of two standard military vans, or trailers, which are parked together to form an Army Air Defense Command Post. In some defenses, one or more single, van-mounted Remote Radar Integration Stations are being used to greatly enhance the area of defense coverage.

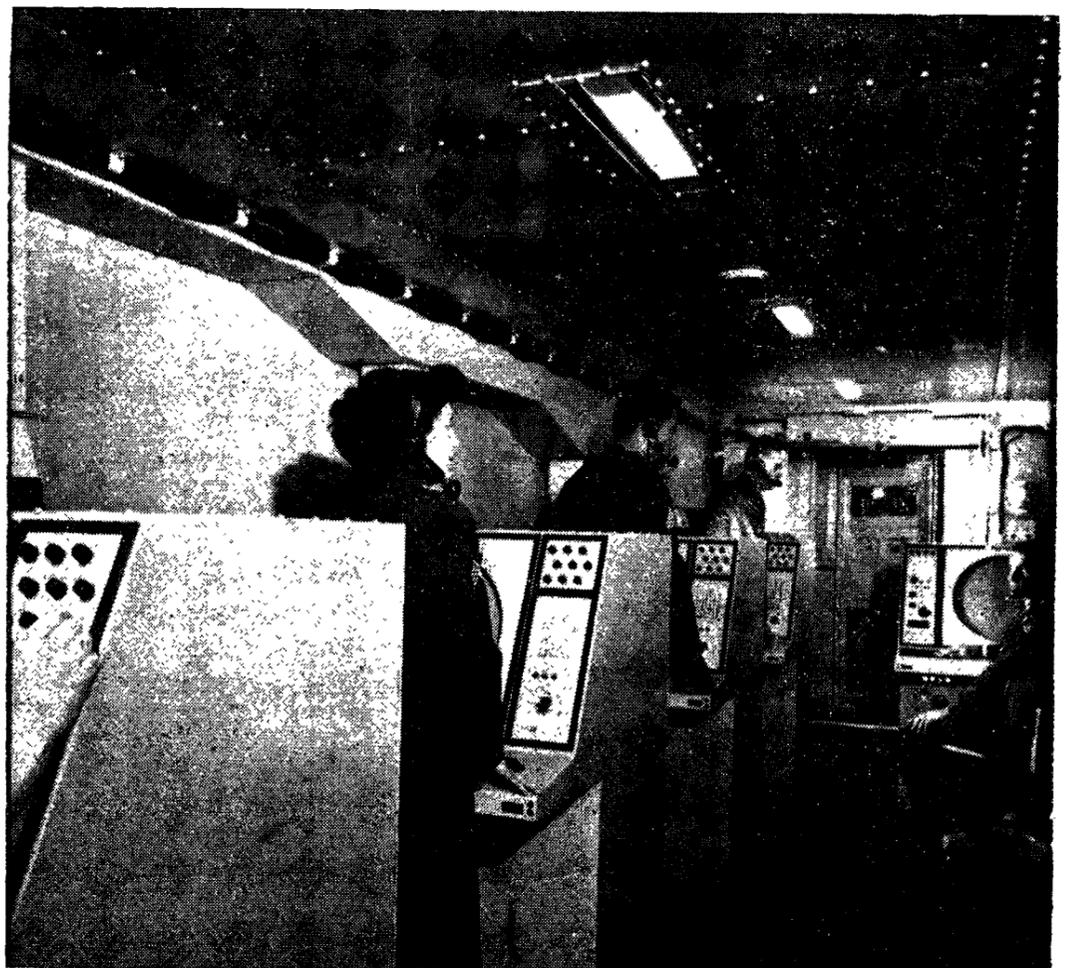
An additional advantage of the system is its built-in flexibility. The equipment may be used in the vans and moved quickly to another site if needed or, where the situation requires, may be removed in whole or in part from the vans and quickly installed in permanent buildings or underground shelters.

The Army demonstrated its new Missile Mentor systems today in Pittsburgh, New York, Detroit, Boston and Miami. The system will be operated by the Army Air Defense command, Milwaukee, Washington-Baltimore,

American Air Defense Command which is the multi-service command responsible for the defense of the United States and Canada against air attack.



**COMPUTER-QUICK REACTION**—Faster and more reliable than the old Missile Master system it replaces, the U. S. Army's new Missile Mentor fire coordination and control system for its surface-to-air missile batteries uses general-purpose display consoles (above) and a high-speed general-purpose computer to detect and track enemy aircraft and coordinate the firing of missile batteries. The new system is now operational at a number of sites throughout the United States providing a ring of defense around American cities. It was designed and built by Hughes Aircraft Company, Fullerton, Calif.



**MISSILE MENTOR**—Army personnel run through a defense exercise inside one of two mobile vans that make up Army Air Defense Command Post (AADCP) of new computer-controlled air defense fire distribution system, which coordinates the firing of surface-to-air missile (SAM) batteries. Use of general-purpose displays (pictured above), and computers in another van, represents the first employment of such devices in an Army air defense system and assures greatly increased flexibility. The systems, called Missile Mentor and designated AN/TSQ-51 by the Army, were built under a \$12 million contract from the Army's Missile Command (MICOM) by Hughes Aircraft Company, Fullerton, Calif. They have replaced the Army's older Missile Master systems and coordinate the firing of Nike Hercules and HAWK missile batteries. Operating personnel are under the command of Army Air Defense Command (ARADCOM).

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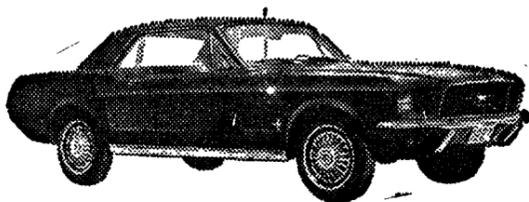
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## Benefit Association Offers New Travel Accident Policy

A new travel-accident insurance plan will be made available starting in February to both military and civilian employees of the Army at Redstone Arsenal.

Applications are now being accepted by the Redstone Benefit Association which is administering the plan. The Continental Insurance Company has been selected as insurer.

All military and civilian personnel assigned to the Army Missile Command, Nike X Project Office or the Missile & Munitions Center & School are eligible for membership, including those not physically located at Redstone Arsenal.

Two basic plans are offered, according to William R. Heflin, President of the Redstone Benefit Association. Plan I provides protection 24 hours a day, while working, traveling or staying at home. Plan II is a limited plan, providing protection only while

traveling. Wives and dependent children may be insured under either plan. In addition, pilot and crew members insurance is available for those desiring it.

Booklets describing the program and types of coverage, along with attached application forms, are now being distributed. Completed applications and checks for the first quarter's premium should be mailed anytime during February to the secretary-treasurer of the Redstone Benefit Association.

Enrollment units, and special information, may be found in the various headquarters' buildings Feb. 6-17 from 11 a.m. to 1:30 p.m. each day.

## Contract Let

The U. S. Army Missile Command today announced the award of \$1.7 million to Hughes Aircraft Company for continued work on the Army's newest fire coordination system, Missile Mentor.

Missile Mentor, designated AN/TSQ-51 by the Army, is a faster, more reliable and less expensive electronic system to coordinate the firing of Nike Hercules and Hawk surface-to-air missiles in defense of American cities.

The \$1.7 million will be used to provide engineering services on the new system manufactured by Hughes' Data Processing and Products Division at Fullerton, Calif.

Technical direction is being provided by the Missile Command's Air Defense Control and Coordination Systems Office at Redstone Arsenal.

## Training Agency Receives 'Thanks'

For the past 13 years the Army Management Engineering Training Agency at Rock Island Arsenal, Ill., has provided graduate level training in their career fields to some 50,000 Army civilians and military personnel.

Included among the AMETA graduates during that time have been over 1,500 Redstone personnel who were selected to attend the school for advanced training in one of approximately 50 courses that cover every phase of Army logistics.

Last week a team of MICOM personnel went to Rock Island to brief the AMETA faculty of the missions of the various Redstone-based agencies, and to orient the student body on the present and future employment possibilities at the Arsenal.

Miles Hardenburg, of the Quality and Reliability Management Office, headed the briefing team and personally conducted most of the briefings. He was assisted by William Willoughby, of the same office, and John Todaro, a management intern assigned to the Lance Project Office.

Their all-day presentation included several locally produced films and placed special emphasis on research and development activities being performed here.

During the course of his briefing, Hardenburg presented a set of Army missile models to A. Lynn Bryant, Director of the school, in recognition of the excellent training that the agency had made available to MICOM personnel.

# ZERO DEFECTS CORNER



it's up to you!



The first recipients of a new Command monthly Zero Defects Achievement Award are Buell Hanners (right) and William Jennings of the Arsenal Support Operations Directorate. Hanners and Jennings are both employed as Engineering Draftsmen in the MICOM Patent Center. During the past two years working as a team they prepared 326 sheets of patent drawings without a single error. They have demonstrated outstanding skill and ingenuity in the preparation of these drawings

since many patent ideas are received in abstract form and must be clearly depicted by drawings.

Their drawings must comply with very exacting standards set forth by the U. S. Patent Office and must pass a rigid inspection by a U. S. Patent Examiner.

Hanners and Jennings were selected for the February award from a group of 21 nominees considered by the MICOM Zero Defects Program Council for the most outstanding Zero Defects achievement. Individuals and small teams

are eligible for the award. Each monthly winner will be recognized in the "Zero Defects Corner" column and a photograph and statement of their ZD achievement will be displayed on General Zierdt's Zero Defects Display in Headquarters Building 5250. Heads of major organizational elements are urged to submit names of employees with significant Zero Defects achievements on Form SM1-1097 to H. R. Lowers, Chairman of the MICOM ZD Program Council, for consideration of future monthly Zero Defects awards.



**HISTORY MAKER**—Sergeant First Class Willard Aycox, right, becomes the first man to re-enlist in the 599th Ordnance Company (Ammo), activated Sept. 1 at the Missile & Munitions Center & School. Administering the oath is Capt. Richard E. Barber, Commanding Officer of the 599th. The ammunition company is undergoing 13 weeks training under the Directorate of Unit Training (DUT) at MMCS. Sgt. Aycox, 43, and a veteran of 25 years service, took the "re-up" oath for six more years.

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# Arts Council Notes Need New Civic Arts Center

Rocket City residents like their rockets and missiles and their football and fishing, but their cultural interests are also high. This interesting fact was revealed by a recent survey made by The Arts Council of Huntsville.

According to Erik Fris, Executive Director of The Arts Council, 27 member organizations of the Council put on a total of 197 performances, exhibits and presentations during the 1966 calendar year. These include practically every phase of cultural activity: art exhibits, community theatre, children's theatre, community concerts, symphony and choral groups, Broadway theatre plays, opera films, foreign films, chamber music, barbershop singing by male and "Sweet Adeline" groups, youth orchestra concerts, photographic exhibits, community ballet, national ballet, antiques fair, Jay-

cees fair, Tech writers and artists seminar and exhibit, A & M College Lyceum series, University of Alabama Cultural Series, gem and mineral shows, and various musical programs.

It was emphasized that all of the presentations were those open to the general public, and The Arts Council survey revealed an estimated total attendance of 111,025 to the events.

"1966 was a banner year for cultural growth and offerings in the community," Fris said. "There were 43 more performances presented in 1966 over the year before, with an increased total attendance of 30,395 over the year before," he added.

The Arts Council report pointed out that the figures do not include many other cultural offerings open to the public which were presented in the community

# Gen. Paul To Talk To Sojourners

Brig. Gen. T. T. Paul, Director of Plans and Programs in the Office of the Army's Chief of Research and Development, will speak at the Redstone National Sojourners meeting at the Redstone Officers Open Mess Friday night.

Gen. Paul, when he was stationed at Redstone Arsenal, was a member of the local chapter 353. His talk, "Zap Charlie", treats the effect of helicopters on Army's research and development effort.

The General was on the staff of the Commanding General of the Army Ballistic Missile Agency

by organizations not members of the Council. Many of these were commercial, such as the Huntsville Entertainment Series. Presentations included in the survey are by non-profit, educational organizations who have qualified for membership in The Arts Council.

The Arts Council survey points out that the total attendance to community cultural events approximately equals the estimated 140,000 Huntsville population.

"It also reveals clearly the need, growing yearly, for the proposed Civic Arts Center facilities, which will include an auditorium, theatre, art museum galleries and adequate workshop, rehearsal and instruction space," Fris pointed out.

Huntsville Arts Council is a member of Associated Councils of the Arts, the national organization, and is recognized as one of the most active arts councils in America in services rendered the community and its 44 member organizations.

from 1955 until the missions were transferred to the Marshall Space Flight Center in 1960. Since then he has had assignments in Washington, Hawaii and Japan, before his present assignment.

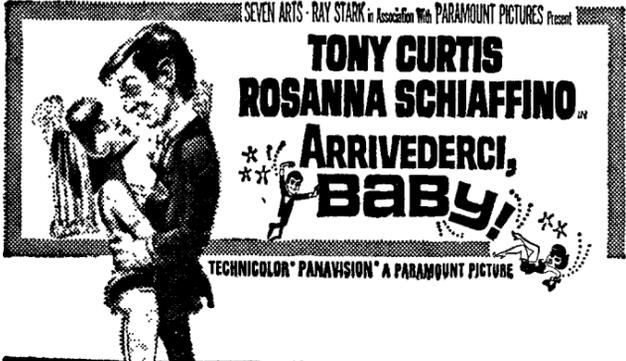
The meeting is open to guests. Reservations are being handled by Charles Rollins, 876-1303, Seth Mize, 876-7878, John Graham, 876-4138, Theo Combell, 876-0115, and Earl Hicks, 876-6148.

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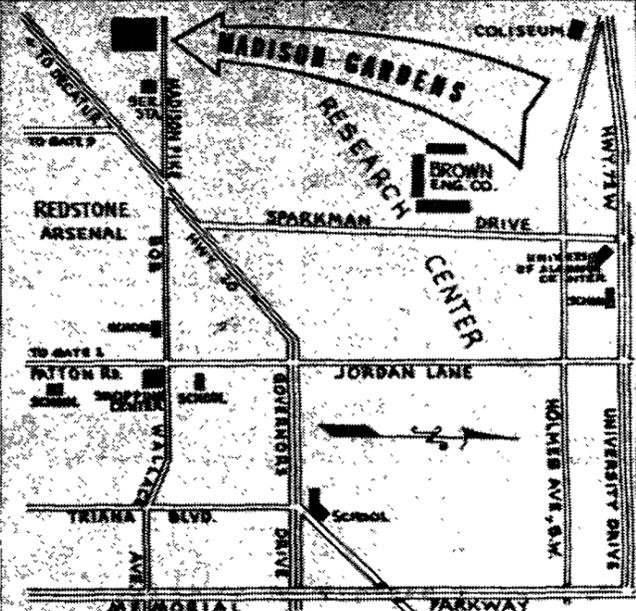


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# Credit Union Declares 5% Dividend

The Redstone Federal Credit Union again voted a five percent per year dividend for its shareholders at the annual meeting last week in the Morris Auditorium at the Marshall Space Flight Center.

The Board of Directors elected

table officers with H. B. Carpenter, President, Luther F. Adams, first vice president, C. B. Babcock, second vice president; J. W. Herring, secretary, and James G. Thomas, treasurer. Babcock is one of the three new members on the Board of Directors. He is from the Thiokol Chemical Corporation. I. W. Herring and Mrs. Kathy M. Lyle, both of NASA, were also elected. Lawrence D. Craig, outgoing director, was appointed chairman of the building committee.

The year-end reports indicate assets in excess of 19 million and a \$2.6 million asset growth dur-

ing the year. Membership increased 3,254 bringing the total to 31,479. The members are from the Army, Marshall Space Flight Center, and related contractor organizations.

**MOVING EXPENSES** — Public Law 89-516 amends the Administrative Expenses Act of 1946 to provide for reimbursement of certain moving expenses of employees, and to authorize payment of expenses for storage of household goods and personal effects of employees assigned to isolated duty stations within the continental United States.

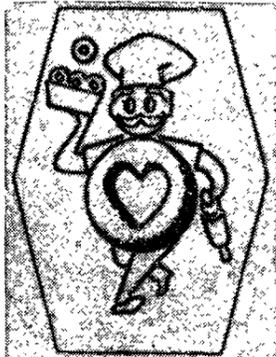
# Ordnance Man To Lecture At Officers Call Tomorrow

The chief of the Ordnance Branch of the Office of Personnel Operations of the Department of the Army in Washington will conduct an Officers Call program here tomorrow. All Army officers and warrant officers at Redstone Arsenal are encouraged to attend. Col. Keith L. Lewis will speak on latest developments in officer

assignments and will discuss current trends in the selection of officers for duty positions. An open discussion period for questions of a general nature concerning officer assignments will be held after the formal presentation. The meeting will be held in the main ballroom of the Officers Open Mess at 3 p.m. tomorrow.

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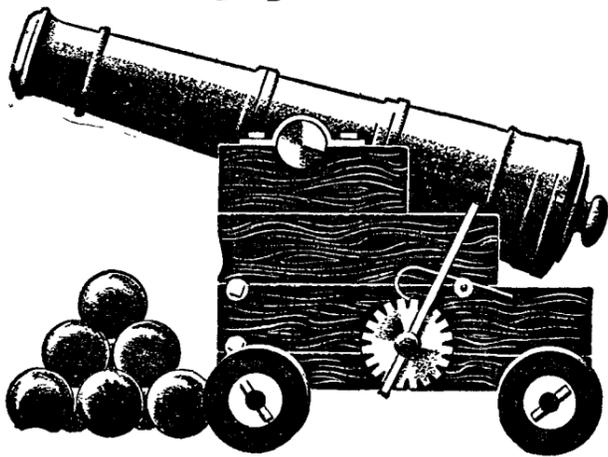
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\$500	\$46.81	\$24.73	
700	64.92	34.30	
1000	92.30	48.76	\$40.05
1500	137.80	72.80	59.80
2000	181.96	96.13	78.96

Above payments include principal and interest. Life insurance is available at group rate on loans above \$100. Loans up to \$300 under state supervision.

Payments above include principal and loan charges if repaid according to schedule, but do not include life and disability insurance, available at group rates.

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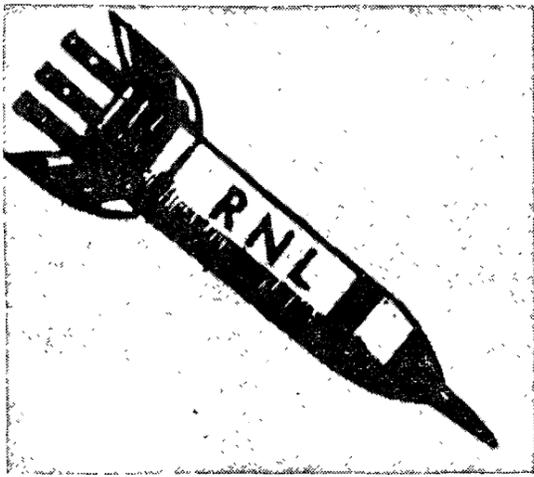
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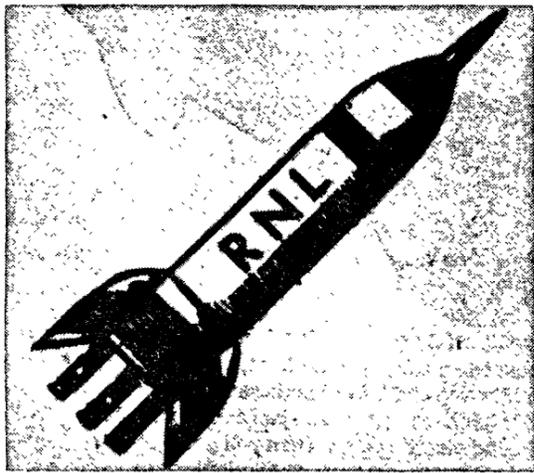
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# Twenty-Two Attend Schools To Help Advance Careers

Twenty-two Arsenal civilians started off-post training sessions this week at military schools, contractor plants and leading universities in seven states and the District of Columbia. Their periods of enrollment range from one week to three months.

The local students were selected for the post graduate level schooling under the Missile Command's career development program administered by the Training and Development Division of Civilian Personnel.

Two of the locals are enrolled in the graduate schools of leading American universities for advanced study in their career fields. They are Charles Brown, of the Metrology Center, and Richard Godmere, who works in the Shillelagh Project Office.

Brown is at George Washington University for graduate work in Metrology and Godmere is enrolled for Management Development at Harvard.

Six others are enrolled in the Project Manager's course at the Army Logistics Management Center, Ft. Lee, Va.

They are Roger Williams and George Lambert (Nike-X), Kenneth Buchsbaum (ADS), Alfred Johnson (C & DP), Francis Marsden (TOW) and Charles Hale (MAW).

David Hayles and Raymon Dotson (R & D) are at the same school to attend the Scientific Management Seminar.

Virgil Irelan (R & D) is spending the week at RCA Institutes, Inc., in Washington to study Digital System Engineering, and Niles Prestage (Post Engineer) is in Chicago for the 1967 National Plant Engineering Conference.

William Garner (R & D) is enrolled for Operations Research Appreciation at the Army Management Engineering Training Agency.

## Employees Attend Week's Seminar

Sixteen U. S. Army employees from the Missile Command and Nike-X Project Office have completed a week-long seminar sponsored by the U. S. Civil Service Commission.

The program, "Executive Seminar for Scientists and Engineers," was held in Huntsville and consisted of a series of talks and workshops on topics that include the economics and organization of research and development, computerization, operations and systems analysis and communications.

Speakers heard during the five-day session included representatives from southeastern colleges and universities, business and the Civil Service Communication's regional office in Atlanta.

Attending the seminar from the Army were: Grady Kennedy, James Martin, Virgil E. Tritt, John H. McArthur and Robert W. Fleagle of the Research and Development Directorate; Harold S. Epperly and Melvin Levkoff of the Shillelagh Project Office; Robert J. Cloyd, Management Science and Data Systems Office.

David J. Greer, MAW Project Office; James F. Crawford, Lance Project Office; Marcelo Lara, Hawk Project Office; Paul E. Grivet, Nike Hercules Project Office; Donald P. Casey, Supply and Maintenance Directorate; Stanley L. Morgan, Production and Procurement Directorate; and William W. Watts and Lee O. Webster of the Nike-X Project.

cy, Rock Island, Ill., and Noel Holmes (Mertology Ctr) is at Aberdeen Proving Ground, Md., for Basic Packing at the Joint Military Packaging Training Center.

Francis Gaines (VAAP) and John Wipfli (Hawk) are attending the Army Intelligence School at Ft. Holabird, Md. Gaines is taking the Basic Industrial Security course and Wipfli is attending the Industrial Security Orientation.

O. K. Bailey (DASO) is at the Army School, Ft. Knox, Ky., for a course in Command Maintenance Management Inspection while Frank Richardson (P & P) is at Kelly AF Base, Tex., to study Price Analysis and Negotiation.

Another pair who are taking advanced training with the Air Force are Carl Rand (Nike-X) and Clarence Landrum (P & P). They are attending the School of Systems and Logistics at Wright-Patterson AF Base, Ohio, to study Industrial Property Administration.

The Navy's procurement procedures are being studied by Renter McGouirk and Joseph Robinson (P & P). They are enrolled for the Defense Procurement Executive course offered by U. S. Naval Materiel at Washington, D. C.

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## SAFETY INTERNS TRAIN ON JOB

Trainees in the Safety Career Management Intern Training Program are periodically scheduled for one week visits to Redstone Arsenal in teams of two persons for an On-the-job phase of the program.

## Goods, Services Cost \$27.4 Million

The Army Missile Command spent \$27.4 million last month for goods and services to support the Army missile program at Redstone. Of this, more than \$1 million went to Huntsville merchants and national companies based locally.

Birmingham and other Alabama cities received orders valued at more than \$80 thousand. The rest of the money went to firms in states across the country.

Repairs and maintenance for a variety of equipment and buildings, office supplies, clothing, food, electric current, laboratory furnishings, and missile repair parts are among the thousands of items purchased.

Orders and contracts for these expenditures are executed by the Missile Command's Procurement and Production Directorate, and do not include the awards for \$1 million or more for entire missile systems.

Sponsored by the Army Materiel Command Safety School, the career trainees will form the employment ranks of safety offices in the future. It is a program to provide highly qualified personnel to safety offices. Background of the individuals run from engineering to psychology.

In phase one of the program, the employee receives six months of study in all aspects of safety

management and application. In phase two the students spend three months performing work at AMC installations to receive practical training in special safety applications. Some approaches students take in the areas of guided missiles and rockets, industrial, munitions, motor vehicle, nuclear, installation safety management, and health and hygiene.



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WANT AD RATES—\$2.50 minimum per weekly insertion, covering first 25 words. 5 cents per word for all over 25 words. Cash with copy, except where open account basis is previously established. 25c service charge added for credit. Mail copy with payment to Mrs. Vergie Robinson, P. O. Box 346, Room 217 Times Bldg., Huntsville. Deadline is Friday noon, before Wednesday publication.

Page 14 The Redstone Rocket — February 1, 1967

## 2. Cars For Sale

1966 Buick Skylark Super Sport, large engine, 19,000 miles, full power and air, bucket seats, 876-5963 or 355-0292 Decatur. 1tc

1963 VW 113 sedan, \$895. Phone 539-7454. 1tc

CADILLAC—'62, 4 door, 6W, auto. power, air condition, \$1250. Phone 539-7454. 1tc

## Glen Park APARTMENTS

**Furnished or Unfurnished**  
Lovely 2 bedroom, living room, kitchen and ceramic tile bath, including air conditioning and TV outlet. Convenient to schools, churches and shopping.  
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## Jackson County

320 acres more or less of timberland 18 miles North of Scottsboro just off Hwy. 79 in Hytop community. Abundance of hardwood timber.

Price \$50 Per Acre  
**100 ACRES**

18 miles north of Huntsville, 2½ miles east of Hazel Green on Black Top Highway. This is red land farm. 75 acres in cultivation, 25 acres in pasture, 8 room brick building with all modern conveniences. 4-room tenant dwelling ..... \$55,000.

**E. G. WILLIAMSON**  
Real Estate Broker  
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1960 VW convertible sedan, \$650. Phone 539-7454. 1tc

## 3. Miscellaneous

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**3/4 ACRE WOODED LOTS**  
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**No Money Down \$32.00 MO.**

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Days 539-7454  
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GOLF CART—Built by Mardi-Car, Inc., gasoline engine, good condition, \$395. Phone 539-7454. 1tc

## 5. Houses, Lots - Sale

SALE—TRADE—LEASE—13 acres with good house, pleasant community, will help finance, phone Union Grove, 753-2583. 1tc

GUNTERSVILLE, Waterfront lots near Sherwood Forrest. Trailers permitted, paved street \$1,000 10% down, easy terms. Ty Dorman Gunterville, Ala. 582-3654. 1tc

WILL SELL 10% interest in 69.31 acres, Monte Sano Sub-division for \$3,900 excellent profit potential, terms available, call Ty Dorman, Gunterville, Ala. 582-3654. 1tc

## Sandhurst PARK \$12,900

3 bedroom, partial brick, includes carport, large storage, GE oven, terrazzo floors, tile window sills. These new homes being built in Huntsville's new low-cost community planned for 500 homes. Swimming pool, recreation grounds, and shopping center, adjoins Gate 2 at the Arsenal. 1tc

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FOR SALE—3 bedrooms, 1½ baths, one block from new school, FHA or VA loan \$15,500 Owner, 881-2361. 2-15-c

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\*rear axle \*front axle assemblies  
\*brake system \*electrical system

## SEDANS



1965 VW 113 Sedan  
Panama Beige, 13,000 miles a real sharpie  
**\$1495**

1961 VW  
113 Sedan. Really Sharp  
Reduced to **\$795.00**

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Clean and ready to go!  
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CAMPERS and STATION WAGONS

1965 VW Station Wagon, deluxe model, very clean, extra clean.  
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1963 VW Deluxe Station Wagon  
Really Nice **\$1295**

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Station wagon, solid white. For fun or business you can't beat this one. **\$1595.00**

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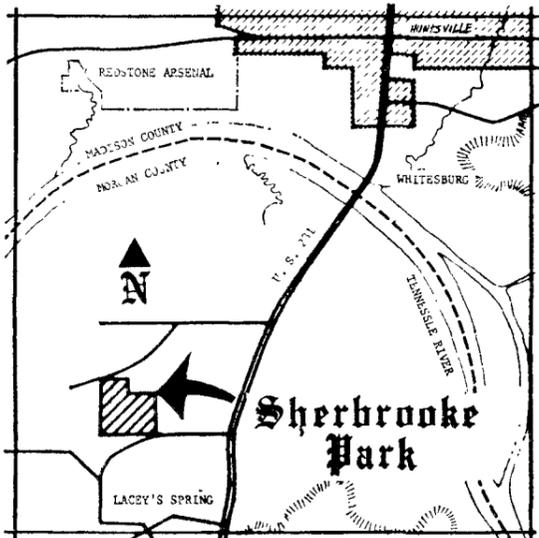
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Lacey's Spring, Ala.

# Korean Guests At Local First Christian Church

The Huntsville Council for International Visitors is an active organization—just ask some surprised Korean soldiers at the Army Missile & Munitions Center & School.

Mrs. Harriet Leech, executive secretary of the Council recently arranged for the Korean students to be dinner guests of the Women's Group of Huntsville's First Christian Church. The Koreans received an extra helping of American hospitality when the local ladies adopted a struggling new church in their Asiatic homeland.

The pressing needs of the 80-family Itaewon Methodist Church near Seoul had been described to the ladies by Warrant Officer Carlos Valez who came to Redstone recently after duty in Korea. He had taught English to the Korean teenagers at the church.

The World Outreach Committee of the First Christian Church decided to adopt the small Korean Church. Earlier, the Women's Group had been entertaining the Korean students at Redstone Arsenal, planning social events that

would enable these men to see what American family life is really like. They have already shared a Fellowship Supper this month, and such American naturals as barbecue hamburger cookouts are on the menu.

It hasn't been a one-way street however. Several Korean officers and soldiers have presented programs on their country's culture,

language, geography, history and politics to the Church here.

According to Mrs. Lloyd Martin, Chairman of the World Outreach Committee, the help rendered the Itaewon Methodist Church has been well received. The Korean minister, Rev. Jong Soo Laa, sent Mrs. Martin a letter warmly expressing the appreciation of the whole congregation.

The Huntsville Council for International Visitors is now located in the new Madison County Court House and assists in the reception of all foreign visitors to the community.

## ATTENTION SERVICEMEN

FREE estimates for claims purposes on any damaged electronic item, brought to our store. We will outfit your home with one item or any selection of RCA Victor TV, stereos, radios, tape recorders, or RCA Whirlpool washers, dryers, refrigerators, freezers, dishwashers, or air-conditioners. No down payment necessary, 90 days as cash, or financing up to three years with first payment not due for 45 days. All ranks welcome, no exceptions. If you don't have credit established, let us do it for you. Every item is guaranteed to be the best in price, quality, and serviceability. TV rentals also available. Regardless of what you need, come in and ask for Chuck Salvo (USA-Ret.), co-owner, and let me be of assistance.

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DR. H. M. PHILPOTT

## Auburn President Schedules Talk

Dr. H. M. Philpott, president, Auburn University, will be the guest speaker at the next meeting of the Redstone-Tennessee Valley Chapter of the Armed Forces Communications and Electronics Association (AFCEA). At the Redstone Arsenal Officers' Club Feb. 7, at 6:30 p.m.

For reservations call C. F. Owens, 876-9283; T. L. Collins, 876-3488; or C. J. Bartkoviak, 876-0723.

## Team Visits

A three-man team, traveling under the auspices of the Federal Council for Science and Technology, visited Redstone Arsenal Monday and Tuesday to gather information on the U. S. Army Missile Command's training program for degreed employees.

Members of the team, whose visit here was sponsored by the Missile Command's Research and Development Directorate, were C. Guy Ferguson, NASA Washington D. C. headquarters, Karl Norris, Director of the Instrumentation Laboratory, Department of Agriculture, and Dr. John Adkins, Deputy Chief Scientist, Office of Naval Research.

While at the Missile Command, the team met with Brig. Gen. Lawrence C. Harvey, Jr. Deputy Commanding General, Air Defense Systems, and Col Nils M. Bengtson, Director of Research and Development for the Missile Command.

Later they were briefed by John S. Hinkle, Chief of Training and Personnel Office, John L. McDaniel, Technical Director of Research and Development, and other R&D officials prior to a laboratory tour.

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EXAM PREPARATION**  
Our Graduates Have Been  
Successful  
New Class Now Forming  
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# Cameramen Will Have Show At Service Club Feb. 4-14

Arsenal shutterbugs will have the opportunity to exhibit their favorite photos when judging begins in the first annual Redstone

## DONORS FLOCK TO BLOODMOBILE

The second largest monthly response on record got the Arsenal off to a running start for another banner year of support to the Red-Cross blood donor program.

A total of 817 volunteer donors reported to the mobile unit last Wednesday and contributed 769 pints of whole blood to the program. The turnout was second only to the 832 participants that answered the appeal in August of 1965.

The January response marked the 26th consecutive month in which the quota of 500 pints has been exceeded.

The Missile Command furnished 351 volunteers during the first visit of the new year and 227 more answered the call from the Missile and Munitions Center and School. The Marshall Space Flight Center was represented by 178 participants.

Twenty-two contributors from the Thiokol Corp. reported to the Blood Bank, nine came from Rohm and Haas and five employees of the Nike-X Project Office answered the call. The remaining 25 volunteers were drawn from dependents living on post.

### Arsenal Photography Contest.

The competition, open to all military personnel stationed at the Arsenal, runs from Feb. 4 to 14 with entries accepted at the Service Club. Photos will be on display in the club Feb. 16-24.

Categories for the contest will be black and white commercially processed, black and white photos processed by the entrant, and color transparencies. All entries must have been taken by the contestant but official military photos will not be accepted. Contestants may enter a maximum of three photographs per category and awards will be given for each of the three categories.

Lt. Dwight Sinila, School Troop Command Athletic and Recreation Officer, explains that detailed contest rules are available in all company day rooms or from him in the S-2/3 Office, bldg. 3210. He emphasizes that all interested personnel should obtain a copy to insure compliance with the rules of the contest.



**SHUTTERBUG ENTRIES**—SP5 Robert O. Farley, Headquarters Company, Missile & Munitions Center & School, examines some of the photos he will enter in the first annual Redstone Arsenal Photography Contest. The competition will be held Feb. 4-14 with entries accepted at the Service Club. All military personnel may enter. Awards will be given in each of the three categories.

## MOVIE SCHEDULE

### Theater No. 1

WED., Feb. 1  
"The 10th Victim" (M)  
THUR.-FRI., Feb. 2-3  
"The War Lord" (M)  
SAT., Feb. 4  
"Terror of the Mad Doctor" (M-YP)  
SUN.-MON., Feb. 5-6  
"Tobruk" (F)  
INCREASED ADMISSION: adults 50c, children 25c  
TUE., Feb. 7  
"Renfro Valley Barn Dance" (F)  
Two shows nightly at 6:00 and 8:30 p.m. Saturday matinee at 1:00 p.m. Sunday matinee at 2:00 p.m.

### Theater No. 2

FRI., Feb. 3  
"Tobruk" (F)  
SUN., Feb. 5  
"The War Lord" (M)  
TUE., Feb. 7  
"Hot Rods to Hell" (M-YP)  
One show only at 7:00 p.m.

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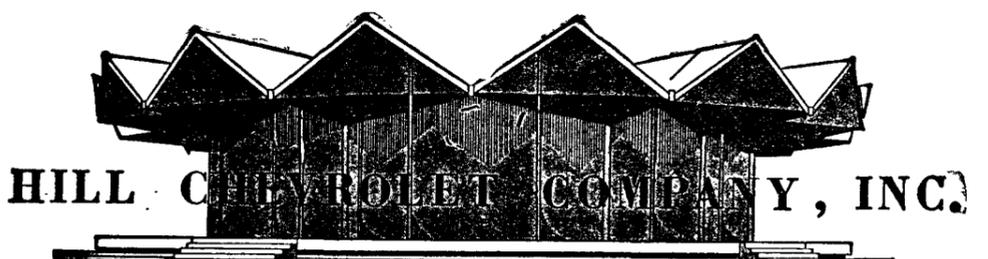
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Equipped with: Air condition, powerglide, pushbutton radio, tinted windshield, whitewall tires, seat belts, V8 engine, back-up lights, all safety equipment.

**All of This for \$2839.**

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## CARS - WAGONS

1966 CHEVY CHEVELLE 4 Door, auto, 6 cyl., radio, heater, 4,500 miles.

1965 MUSTANG, maroon 289 engine, auto trans., radio, heater. .... \$1695

1963 CHEVROLET IMPALA Station Wagon, 6 pass., air cond., power steering and brakes. .... \$1395.00

1962 FORD Galaxie XL, full power and air, solid white. Clean as a pin. .... \$1295.00

1962 CHEVY Super Sport, 2-dr. Hardtop, full power, air. Reduced to \$1195.00

1965 MG MIDGET ROADSTER. See this one. \$1395

1961 CADILLAC 6W, power & air. New shoes. Special! ..... \$1250.00

1960 VW Convertible, Solid white, top like new, good condition. .... \$695.00

GOLF CART—Built by Mardi-Car, Inc., gasoline engine, good condition \$395.

1963 RENAULT DAUPHINE, 4 dr., auto. trans. (push button) nice little car ..... \$595.00

1959 VW 113 Sedan, solid little automobile ..... \$595.

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