

The Redstone Rocket

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VOL. XIII; NO. 28

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

NOVEMBER 18, 1964

Arsenal-Wide

Spot News

Dial 112

Lance, Sprint, TOW Displayed In Capitol

Lance Is Undergoing Testings

Rugged overland and water tests are now under way on the Army's newest land combat ballistic missile system—the Lance, and the Army has revealed the first actual firing of the battlefield missile is scheduled for early next year at White Sands Missile Range, N.M.

Lance on its light weight launcher was displayed this week in Washington at the annual meeting of the Association of the United States Army. The missile and its self-propelled launcher were displayed for the first time the past year, also during the AUSA annual meeting.

The versatile Lance is now shaking, rattling and rolling its way through some of the most difficult barriers that test engineers have devised at Aberdeen Proving Ground, Md. It has been going up grades that a man would have trouble scaling; pushing through bogs that would stop powerful trucks, and bouncing over

(See LANCE on Page 3)

Fouch Addresses Value Engineers

George E. Fouch, Deputy Assistant Secretary of Defense, will address engineers from across the country this morning, attending the Army's first Value Engineering Symposium for Advanced-In-the-State Of the Art at Redstone Arsenal.

More than 200 people, both civilian and military, have indicated they will attend the two-day event in Rocket Auditorium.

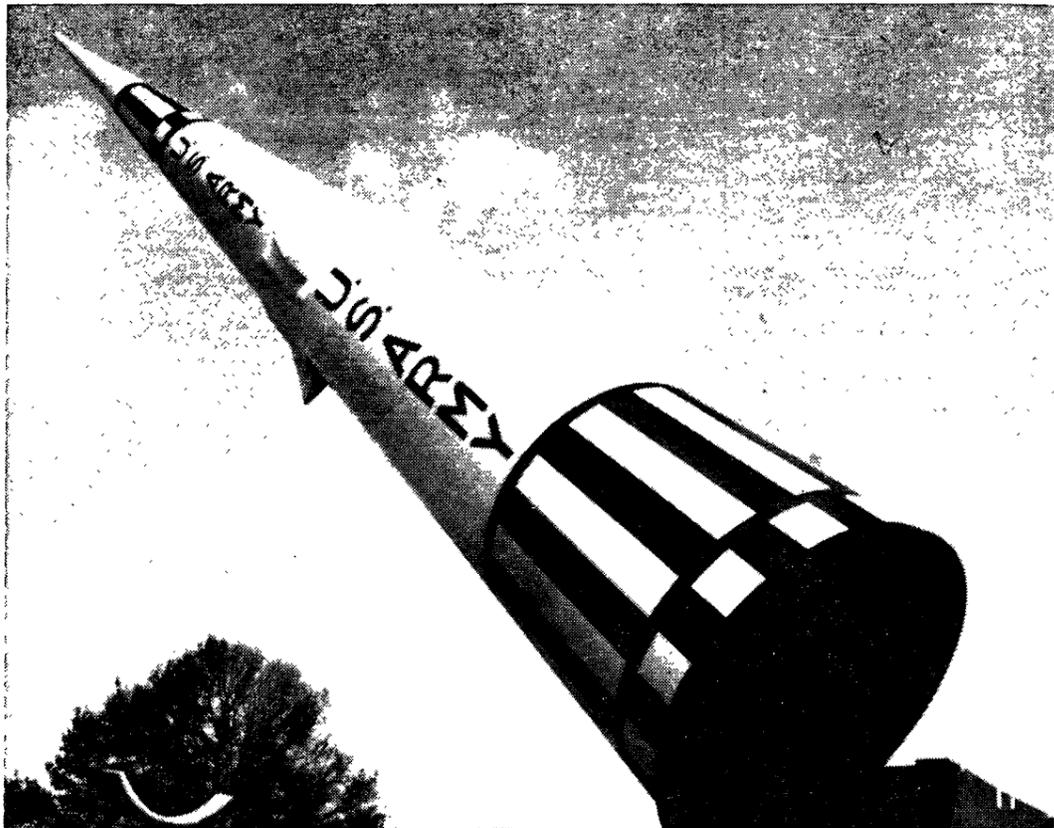
Fouch's keynote address is set for 8:45 a.m., following welcoming remarks by Maj. Gen. John G. Zierdt, Commanding General, Army Missile Command.

Fourteen technical presentations by key personnel from both government and industry will be made during the symposium. One paper, "Decisions For Dollars," will be presented by Donald H. Denholm of Brown Engineering Co., Huntsville.

Because of the importance of Value Engineering to the successful accomplishment of the Command's missions, it is fitting to recognize those Army employees who have contributed to this program. They are:

R&D: D. M. Potter, A. Hunt;
S&M: John H. Mulder, Leon E. Balch, Cene Clapper, L. H. Moore, Jack Simmons, Edward M. Murphy;
P&P: M. E. Ray, William Bright, W. A. Hawse, Bob Ivey, Perry Hopkins, Carl Hanzlik, Frank Cowart, Emmett H. Mayes, Giles P. Wetherill, David L. Gantt, Maurice D. Sanford;

Nike Hercules: Robert Russell;
Redeye: W. Walker;
Sergeant: Donald Q. Dockery;
Pershing: J. M. Brown;
Honest John/Littlejohn/Redstone: Harrison H. Williams;
Anti-Tank/Aircraft Wpns. James S. Phillips.
Hawk: Dwight Brewer;
Nike-X: Steve Zelobowski; and
Mauler: Karl Marx.



ARMY'S SPRINT MISSILE—This is the first picture to be released of the Army's new Sprint anti-missile missile. Shown is a full-scale model of the missile which is under advanced development. The Sprint will complement the Zeus missile in the Army's Nike-X missile defense system. Both will be used to intercept intercontinental ballistic missiles and intermediate range ballistic missiles—such as those launched by submarines—during the terminal portion of the attacking missile's flight. The 27-foot-long Sprint is shorter than the 48-foot-Zeus, but is much higher in acceleration. A two-stage, solid fueled missile, the Sprint will be launched from a below ground cell, as is the Zeus. The Sprint will be ejected from the cell by an expulsion charge placed under it and its booster motor will ignite after the missile is above ground. The Nike-X Project Office says the flight time of the Sprint—from launch to intercept—will be "bare seconds."

TOW IS TANK KILLER

TOW, the Army's newest anti-tank missile weapon, was one of three systems displayed in Washington this week at the annual meeting of the Association for the U.S. Army. A TOW launcher was on show along with a model of the Sprint missile and Lance on its Light Weight Launcher.

In addition to the missile systems, the Army Missile Command's newest target missile — Redhead/Roadrunner — was part of an industrial display in connection with the meeting.

UGF Has \$231,544 In Kitty

With only the final clean up remaining to be completed, the 1964 United Givers Fund campaign has already gained the distinction of being the most successful drive of its kind ever conducted at Redstone Arsenal.

The largest total contribution has already been collected and it is expected that the final report will reflect record performance in every other phase of the drive.

In the next to the last agency chairman report, submitted last Friday, the total contributions had climbed to \$231,544, a very siz-

able increase over the \$206,000 collected last year.

Pledges had been made by 97 per cent of the 12,876 personnel who are included in the drive and total \$236,105. The total pledges represent 89 per cent of the Fair Share goal and the average contribution has been \$18.83.

Heading the list of outstanding agency performers are those turned in by the Supply and Maintenance Directorate and the Ordnance Guided Missile School.

The S and M drive went over the (See UGF on Page 3)

Sprint Is Making Its Public Debut

The Army's newest missile to kill other missiles, the high acceleration Sprint, was unveiled Monday following more than two years of closely guarded development. A full-scale mock-up of the Sprint was put on public display for the first time Monday in Washington, D.C. at the annual meeting of the Association for the U.S. Army.

Designed to operate at hypersonic speeds, the Sprint bears little resemblance to any other tactical missile.

Nearly a perfect cone in shape, it looks like an enlarged missile warhead nosecone.

The Sprint is one of two interceptor missiles which will be used in the Nike-X missile defense system. The other is the long range Zeus missile.

Nike-X is being developed under the direction of the Nike-X Project Office, as a defense against inter-continental ballistic missiles and intermediate range ballistic missiles such as those launched by submarines and aircraft.

Used together, the Sprint and Zeus will allow the Nike-X System to attack and destroy attacking missile warheads at a wide (See SPRINT on Page 4)

Propulsion Review Is Underway

Top experts in rocket propulsion began a week-long meeting at Redstone Arsenal yesterday "to review progress that has been made" and to take a look "at where we are going."

Known as the Working Group on Mechanical Behavior, this group, chartered by the Department of Defense, meets annually to review and recommend research on mechanical behavior of solid propellants—and on the structural makeup of propellant grains.

Dr. Frank N. Kelley, of the Air Force Rocket Propulsion Lab at Edwards Air Force Base, Calif., is working group chairman.

Thomas H. Duerr of the Army Missile Command's Propulsion Laboratory, who is program chairman, says "we will review what has already been done and zero in on technical problems that remain."

Brig. Gen. Charles W. Eifler, Deputy Commanding General of Land Combat Systems, welcomed the group which has representatives from DOD, industry and universities from across the country.

At the conclusion of the sessions a technical steering committee, made up of members from each department of DOD, will get together and make recommendations for the coming year.

On Friday, the group will tour test, research and development areas at the Missile Command.

These meetings are rotated among member elements of DOD each year. This is the first time this group has met at the Missile Command.



ARMY'S LANCE PASSES SWIM TEST—As part of development tests now under way at Aberdeen Proving Ground, Md., the Army's new Lance surface-to-surface ballistic missile system was tested for swimming in this 12 foot deep lake. The self-propelled launcher carrying an inert missile, as shown here, passed the test. In addition to being able to move over the most rugged terrain and ford deep streams, the self-propelled launcher can be carried into battle zones by fixed wing aircraft and air dropped by parachute. Lt. Col. W. E. Mehlinger is Project Manager for the Lance program. Prime contractor for the system is Ling-Temco-Vought's Michigan Division.

The Redstone Rocket

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Rocket Ruminations

If you do not think about the future, you cannot have one.
—John Galsworthy

WINTER IS AROUND THE CORNER!

The long Indian Summer which has lingered with us past the middle of November may be lulling some of us into thinking that winter will skip us this year.

Don't you believe it! Cold weather may be with us by the time this gets published. It is definitely past time for each of us to get prepared for the rigors of winter.

Last week in a message to all military and civilian personnel the Commanding General reaffirmed policy on excused absence under winter conditions which was originally announced last January.

This policy in part is "it is essential that all employees, civilian and military, prepare their vehicles at the earliest possible date so that they may travel positively and safely under all reasonable expectations."

Whatever it may take to make us road-worthy in bad weather, we have been reminded that now is the time to prepare. When the snow or sleet is falling it will be too late.

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CASH-WORTHY IDEAS—Sp/6 Clay D. Ellison (left) and Sgt. John B. Swank recently won cash awards for their suggestions on cost savings at the Ordnance Guided Missile School. Col. Hobart V. Smith, assistant commandant, presented the checks. Ellison is a bomb disposal specialist in the 13th Ordnance Detachment and Swank is an instructor in electronics at the School.



CARE AND CLEANING—Cadets at the Officer Leadership Training Course at Fort Knox, Ky., clean weapons after range firing. U.S. Army officers and NCO's are training soldiers from seven foreign countries representing Africa and the Middle East in a special course at the Armor Center. Patterned after the Fort Benning Infantry Officer Candidate School, the instruction prepares the students for duties as junior officers in the combat arms of their armies. Two classes per year are conducted.

Brown Named Instructor Of The Year

Frank W. Brown Jr., 2427 Medaris Road, Huntsville, has been named outstanding instructor for October in the Officer Training Department of the Directorate of Individual Training at the Ordnance Guided Missile School, according to Lt. Col. R. H. Lee, director.

Brown has been an instructor in the department for one year. He teaches in the systems division of the Department.

He is a graduate of Wytheville High School, Wytheville, Va.

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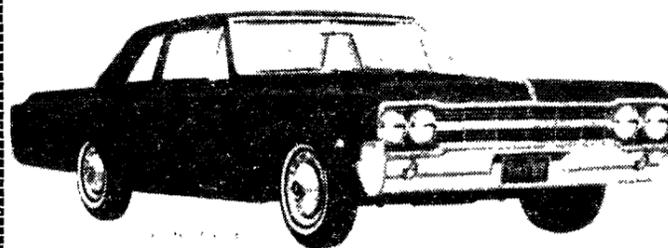
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LANCE

(Continued from Page 1)

rough roads that are designed to strain the suspension system of the Lance's self-propelling launcher and the construction of its light-weight-launcher.

In addition to these ground tests, the full system, which includes an inert missile, has undergone swim tests in a 12 foot deep lake to prove its ability to cross deep streams that might stand in its way.

At the same time the Aberdeen tests are being conducted, another Lance system is in the deep freeze at Elgin Air Force Base, Fla. In environmental tests simulating conditions of the arctic regions, the Lance will operate at temperatures that require men to wear heavy fur lined clothing and boots that cover everything except their eyes and nose.

Ability of the Lance to withstand the bouncing of air drop delivery into battle front areas will

be tested in Yuma, Ariz. In order to prove its ability to hold up under battle conditions, the equipment will actually be air dropped and air transported at the Yuma Test Station.

Other concurrent ground tests will be conducted at the Lance's home ground on Redstone Arsenal; at Fort Sill, Okla., and White Sands Missile Range, N.M.

Lance is a rugged, low-cost missile system conceived in the laboratories at the U.S. Army Missile Command.

Program management is centered at the Missile Command with Lt. Col. W. E. Mehlinger as Project Manager.

Lance utilizes an advanced highly simplified inertial guidance concept. It is the first Army missile selected to use pre-packaged storable liquid propellants which feature the advantage of precise thrust control.

The highly mobile missile system is being developed to replace

the Honest John, the Lacrosse and possibly the Littlejohn missile systems and will complement division tube artillery, extending the division commander's capability for nuclear and non-nuclear supporting fire.

The Michigan division of Ling-Temco-Vought, is prime contractor for the Lance. Development is being done at the Michigan Army Missile Plant at Warren, Mich.



RANGER TRAINING—Republic of Vietnam Rangers are fusing demolition charges under the watchful eye of U.S. Army Advisor Sfc Joseph D. Belyea at Duc My, Vietnam. Sergeant Belyea (Billerica, Mass.) is assigned to the Duc My Ranger Training Center as NCO advisor to counter insurgency instructors.

UGF

(Continued From Page 1)

top in every category with every person taking an active part in the campaign.

The 1,477 military and civilian personnel of the Directorate made contributions totaling \$34,339 against a Fair Share goal of \$34,230. W. P. "Bill" Burnett is the chairman of the S and M drive with Dave Balkin as his alternate.

The OGMS drive is just short of the Fair Share Goal of \$18,507 thanks in part to more than \$1,400 that was contributed by non-assigned personnel, according to

Col. Willard Anderson, chairman for the school.

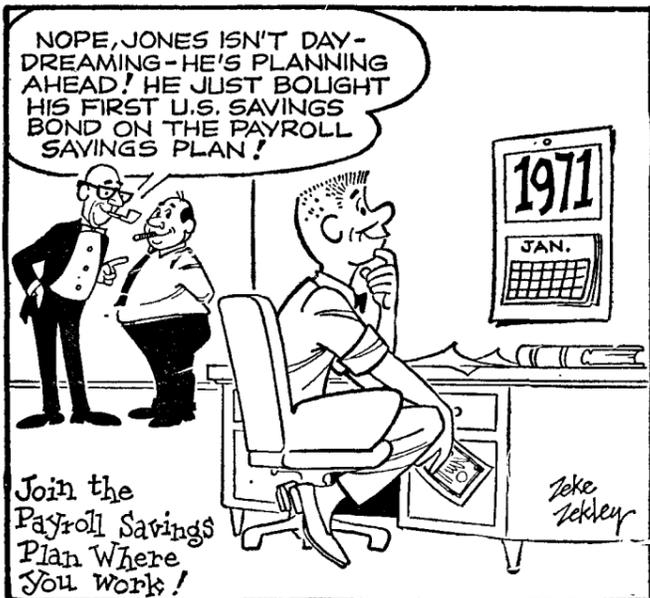
The added contributions brought the OGMS total to \$17,963. The school pledges total \$18,507 with the participation at 100 per cent.

Other organizations boasting 100 per cent participation are: Office of the Commanding General; DCG, Air Defense Systems; Quality and Reliability Management Office; Procurement and Production Directorate; Area Engineers; and non-appropriated activities.

Although they fell slightly below 100 per cent in participation, the Rohm and Haas Company made contributions in excess of the Fair Share goal.



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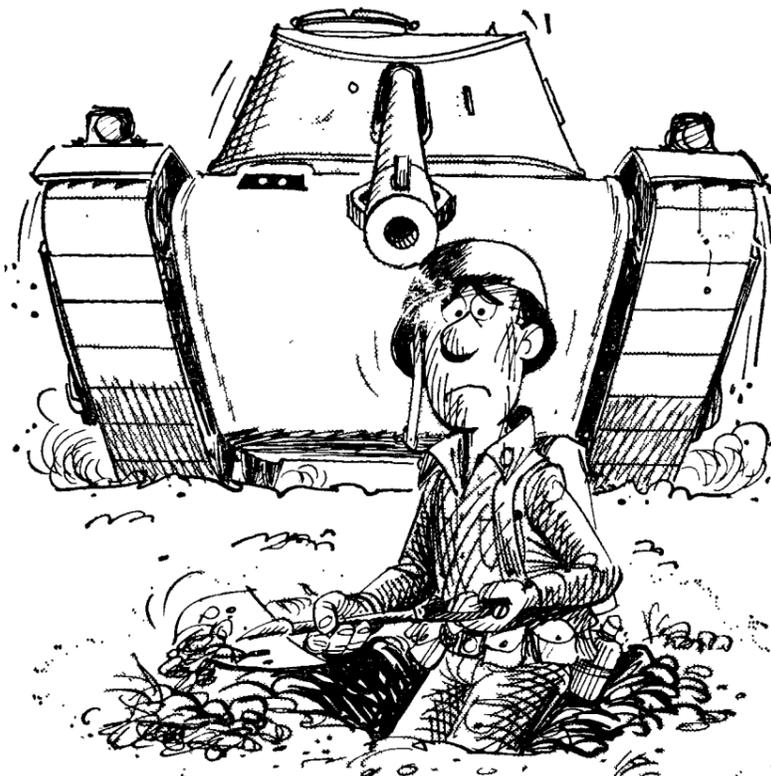
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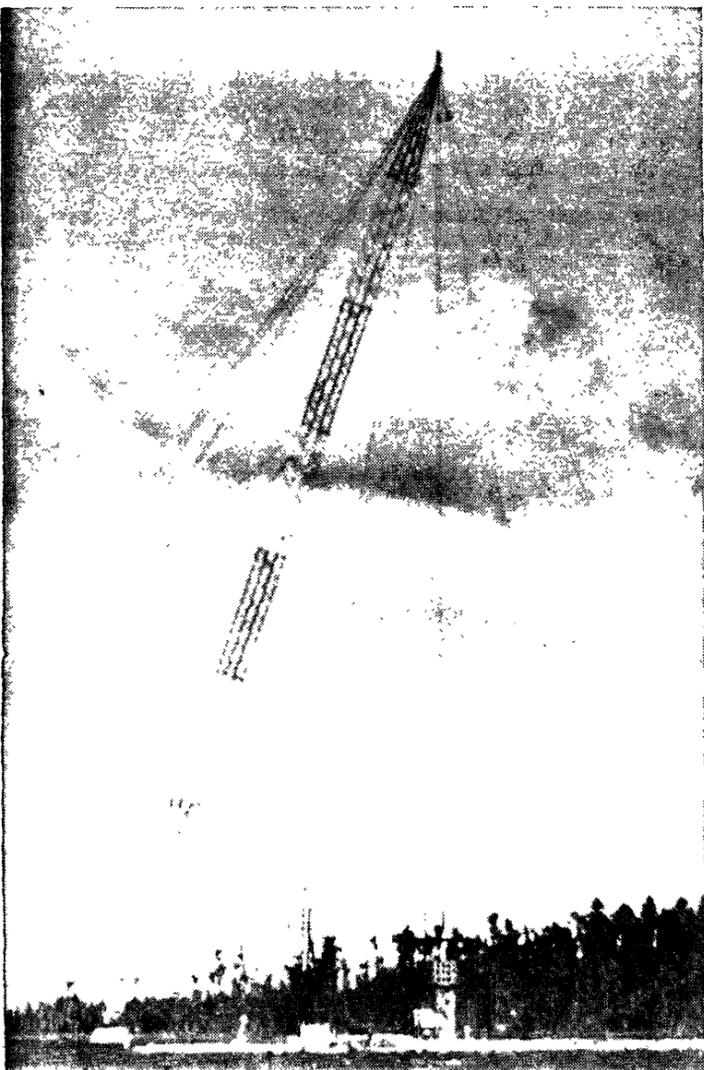
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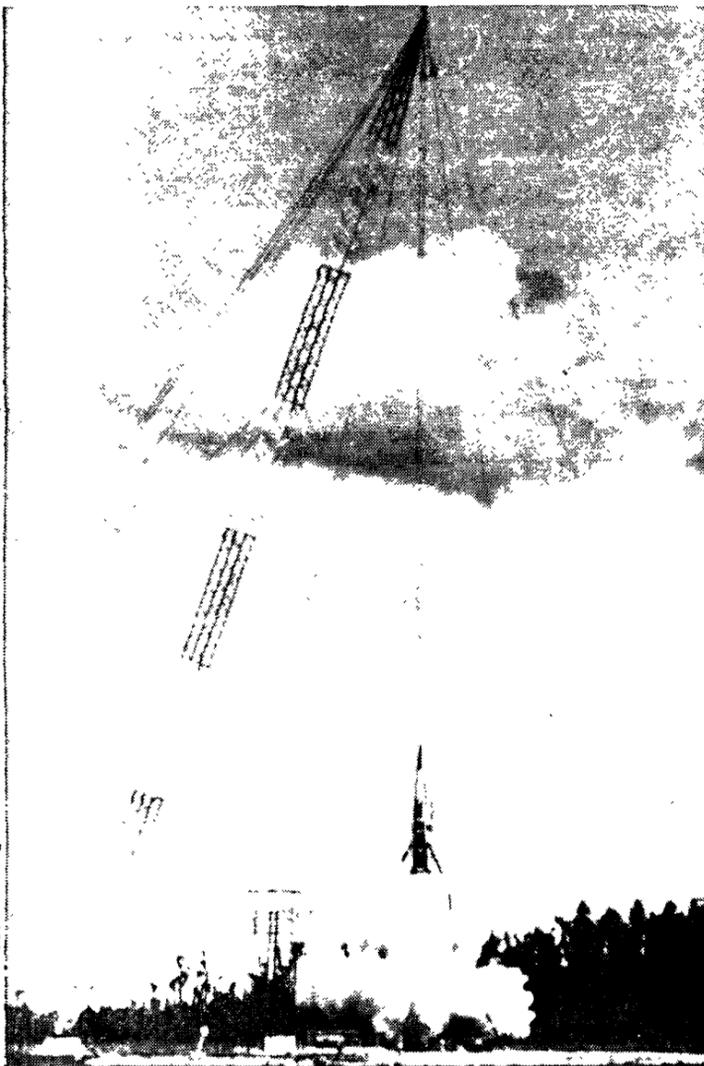
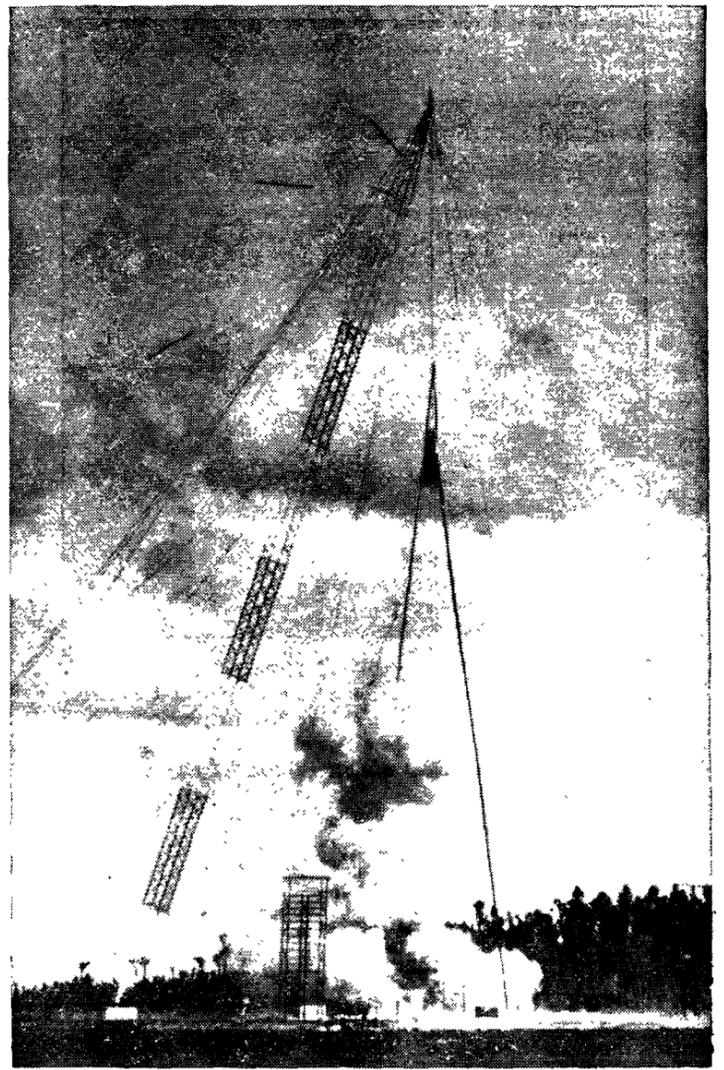
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ARMY MISSILE POP-UP TEST— Tests are being conducted on a "pop-up" launch technique for the Army's Sprint anti-missile missile. Sprint developers feel this technique will result in valuable flight time savings, lighter structure missiles and easier, cheaper to build launching cells. In this series of pictures shot at the test site near Orlando, a dummy Sprint without fins or motors is hurled from its cell by a propellant charge placed under it. The series shows the test cell just before ignition of the charge (top left); the Sprint dummy clearing the cell with positioning wedges flying away (top right); the dummy at the top of its flight where it is arrested by thick restraining belts visible leading down from its base (bottom left); and the dummy suspended in air on parallel cables leading from the top of the slanting boom (bottom right). This pop-up technique differs from the conventional procedure of "flying" a missile out of its cell under its own power.



SPRINT

(Continued From Page 1)

variety of ranges.

Col. I. O. Drewry, the Nike-X Project Manager, says that the Sprint's acceleration — higher than any missile yet flown—will allow it to climb to intercept altitude and destroy a warhead within seconds.

It is powered by a solid propellant booster and a sustainer motor and will carry a nuclear warhead.

The Nike-X Project Office reports Sprint components as well as its configuration have undergone successful static testing.

In addition, successful tests have also been run on the missile's cell ejection system. The Sprint will be the first ground launched missile to be "popped" from its cell rather than flown out.

A hot gas generator installed under the missile in its vertical tubular cell will hurl the Sprint into the air where its booster will ignite and it will pitch over to a flight angle which will take it to a pre-planned intercept point.

Both Sprint and the three-staged Zeus which is nearly twice its length may be emplaced at the same site. Both would be controlled in flight by signals from ground-based computers and radars.

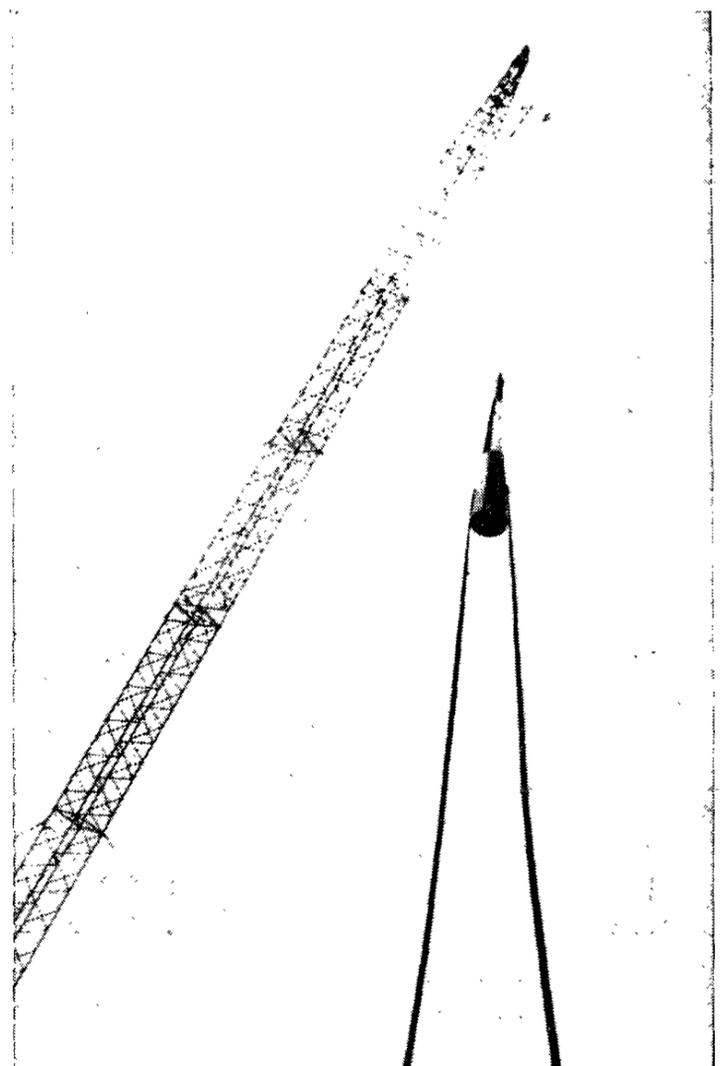
The Nike-X will be capable of controlling a number of interceptor missiles in flight simultaneously.

The concept of using a high acceleration missile for close intercepts is one of three major innovations conceived by the Army for the Nike-X System.

The others are the Multi-function Array Radar (MAR) which will perform the functions of three radars in one and the Missile Site Radar (MSR) which will issue the interceptor missiles their guidance instructions.

Both the MAR and the MSR are phased array radars, the first of this type radar to be utilized by an Army missile system. Instead of using heavy antennas as found in conventional radars, the phased array radars use electronic switching to steer the radar beam.

Western Electric Co. is prime contractor for the Nike-X system and Bell Telephone Laboratories is responsible for design and development. The Martin Company at Orlando, Fla., is the Sprint sub-contractor.



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BROWN HAS 131 AOA MEMBERS—Milton K. Cummings, (right), president of Brown Engineering Company presents A. A. Demetriou, president of the Tennessee Valley Post of the American Ordnance Association, a check representing 131 Brown employee AOA memberships for 1965. Cummings, a former president of the Tennessee Valley Post, encourages Brown employees to participate in AOA activities.

Sperry Will Host Zero Defects Meet

Brig. Gen. Charles W. Eifler, Deputy Commanding General for Land Combat Systems, will represent the Army Missile Command Thursday when the Sperry Utah Company kicks off its Zero Defects program at Salt Lake City, Utah.

Accompanying Gen. Eifler will be Col. J. M. Loomis, Sergeant Project Manager. Sperry Utah is prime

Nov. 11, 1918 — News of German surrender reached U. S. by Associated Press flash at 3:00 a.m. Armistice celebration was the greatest single nation-wide demonstration ever known in the United States. Armistice signed in Forest of Compiègne, France, at 5:00 a.m. to take effect 11:00 a.m.

contractor for the Sergeant missile system. Horace Lowers, Chief Engineer and K. E. Joy, Chief, Quality and Reliability Management, will also attend the program.

Among guests expected for the program will be George D. Clyde,

Governor of Utah, and P. Halpert, vice-president of Sperry Gyroscope Company.

The Missile Command has been actively engaged in an intensive campaign encouraging its major materiel suppliers to adopt the Zero Defects program.

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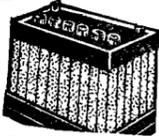
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A generous mixture of talents for details, a flexible sense of humor, and a desire to make people happy are prerequisites for working in the Office Services Division of the Missile Command Administrative Office.

Trying to satisfy the needs of some 1100 people is no small feat. But that is the mission facing V. C. "Mitch" Mitchell and his staff in Office Services.

When the offices in Bldg. 5250 are too hot or too cold, someone calls Mitch. If the chairs, desks and cabinets don't suit somebody, if the plumbing doesn't work, if the amount and kind of office supplies isn't to someone's liking, or if there is almost any kind of a complaint, Mitch's office hears about it.

Mitch, a tall, relaxed man whose wry grin and willingness to be of assistance are his trademarks, grew up about 12 miles from Huntsville. He served in the Navy during World War II with most of his time spent in the Pacific area. Before starting to work at Redstone in July, 1958, he was employed in industry.

His title is "building and supply specialist." He can readily evaluate a complaint and assess its seriousness, traits that make him popular among the population of 5250. He is ever cheerful and willing to do all he can to keep things running smoothly.

Mitch's wife, Peg, works in the Administrative Office of the Army Missile Support Command. They have two boys, Mike, 9, and Donny, 6.

The young man who keeps the records on all non-expendable property is Robert Bright. It is his

business to know where all such property is located and what items are authorized. He is the man who tries to satisfy people by getting the furniture and office equipment they need. Sometimes he gets requests for material which simply is not authorized. Then it falls his lot to tactfully explain that there is no way to get what they've asked for, and to suggest what they might use instead.

Bright is a tall, lanky, crew-cut young man who comes from Albertville. He has been working at Redstone for two years having come from employment in industry. He'd heard about government work, and found a job that gives him an opportunity to constantly associate with people. This he likes, and it's apparent from his ready smile whenever he is approached.

The Brights live in Albertville and have two children, a boy, 3, and a girl, 6. His home territory is ideal for his favorite recreations, hunting and fishing.

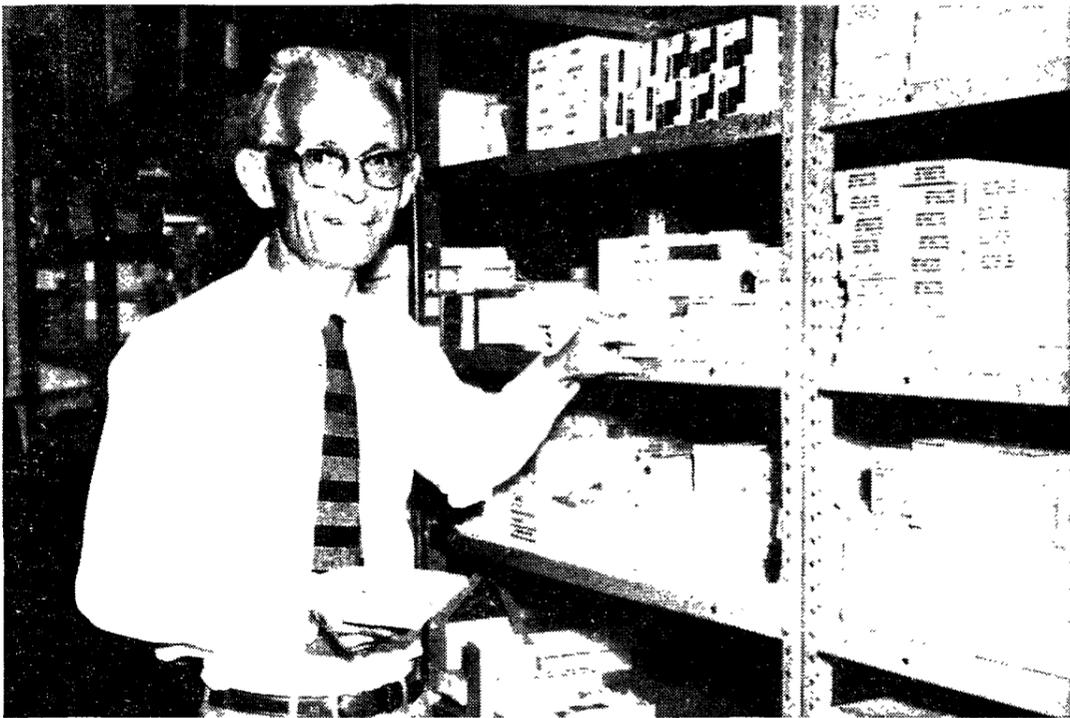
The expendable supplies are the responsibility of William Venable who has had a wide spectrum of arsenal experience. He's been a Post Engineer employee, has worked in Consolidated Supply, Field Maintenance and Visual Arts before joining the Office Services staff in July.

He has the distinction of being a native Huntsvillian, and has lived in the same house in a choice section of Huntsville for about 27 years.

Venable will make every effort to get the supplies people want, and has a reciprocal agreement with other supply rooms. Sometimes he has something others



TAKE A NOTE, PLEASE—V. C. Mitchell, the chief of the Office Services Division in Missile Command headquarters dictates to his secretary, Carolyn Allen. "Mitch" is a popular figure in Bldg. 5250 where he tries to keep everyone happy with their supplies, equipment and service.



THE STOREKEEPER—William Faulkner is the accommodating gentleman in the Supply Room of Bldg. 5250 who can dig out all kinds of items from his well organized shelves. The Supply Room is a part of the Office Services Division of the Missile Command Administrative Office.

lack, and sometimes it is the other way around.

A settled, conscientious worker, Venable enjoys keeping up with football and baseball in his spare time. The Venables have a married daughter living in Tuscaloosa and a couple of grandchildren.

A veteran Redstonite runs the supply room where people line up to get paper, pencils, and such items. His name is William Faulkner. Altogether, he's been working at the arsenal for 19 years including duty at Range 5 and in engineering services.

Faulkner has been collecting coins for several years and now has the most complete set of Mercury dimes in north Alabama. Some of his collections are very

valuable and must of necessity be kept in safe deposit vaults. "I probably have \$5000 or \$6000 worth," he said.

The Faulkners recently built a new home in Athens, and "I sold some of my coin collections to help pay for it," Faulkner says. They have a daughter who lives at home and works for NASA, and a son who is in business in Huntsville.

The little dark-haired girl who takes care of the secretarial work in the Office Service Division is Carolyn Allen. She's been working on the arsenal for two years, but has been in the present office only two months. During the two years, she's had three different jobs, first with NASA then with

an arsenal-based contractor, and the present spot.

Carolyn is from Scottsboro, and commutes daily with her sister who also works on the arsenal.



LET'S CHECK THE RECORDS—These two keep all the records of both expendable and non-expendable property in the Office Services Division of the Missile Command Administrative Office. Standing is Robert Bright whose bailiwick covers such material as desks and chairs, and seated is William Venable, the keeper of files on paper, pencils and such material which is consumed during the normal run of business.

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Army Photographers Will Have Chance To Compete

Army photographers have been invited to enter the Armed Forces "Picture of the Year" photo competition sponsored jointly by the National Press Photographers Association, the University of Missouri School of Journalism and the World Book Encyclopedia.

The competition will be staged to focus attention on the art of photojournalism. The contest is for military photographers only.

Entry deadline has been set at Dec. 31. Photographs entered must have been published by the news media or military newspaper this year. The contest is restricted to military-assigned photographers and information personnel on active duty.

Photos can be entered in the categories of news, feature, pictorial, portraits, picture stories or sports.

Complete rules for entry may be obtained at the Public Information Office of the Army Ordnance Guided Missile School, 876-3244.

Mayor Proclaims Christmas Seal Week In Huntsville

An official proclamation, signed by Mayor Glenn H. Hearn, Saturday designated the week of November 16th as Christmas Seal Week.

In special recognition of the work of the Madison County Tuberculosis Association, the Mayor urged all residents to contribute to the Christmas Seal Campaign now in progress.

Two outstanding problems in the control of tuberculosis in this area were cited by the Mayor who said, "Efforts to find the unknown cases of TB among people over 40 must be intensified, as a large part of the TB problem is now among our older citizens, especially men. Our community also needs increased rehabilitation facilities to help the growing number of TB patients who are recovering from the disease to once again become productive members of society."

Post Library
NORMA E. SHORT
 Librarian

NON-FICTION

- Appel, Benjamin, With Many Voices.
- Clark, Kenneth Bancroft, The Negro Protest.
- Dickler, Gerald, Man on Trial.
- Dodes, Irving Allen, IBM 1620 Programming for Science and Mathematics.
- Fontaine, Robert Louis, The But-toms Keep Coming Off.
- King, Edmund James, Communist Education.
- Maritain, Jacques, Moral Philosophy.
- Raymond, Jack, How to Serve and get Ahead in the Armed Forces.
- Robinson, Jackie, Baseball has done it.
- Schrader, Herbert L., No other way.
- Watkins, Floyd C., Yesterday in the Hills.

JUVENILE

- Adelberg, Doris, Lizzie's Twins.
- Adler, Irving, Numbers old and new.
- Brooks, Anita, The Picture Book of Salt.
- Burnett, Frances (Hodgson), A Little Princess.
- Crane, Caroline, Light Down the River.
- Hsiung, Thelma, The Adventures of Little Brother.
- Kavaler, Lucy, The Wonders of Fungi.
- Miner, Lewis S., King of the Hawaiian Islands.
- Selsam, Millicent (Ellis), The Doubleday Guide to Wild Flowers.
- Shepherd, Walter, Electricity.

Four Researchers To Read Papers

Four researchers at Redstone Aisenal will present papers on rocket propellants Nov. 18 and 19 at a symposium sponsored by the Navy Ordnance Test Station, China Lake, Calif.

William Guthrie of the Army Missile Command's Directorate of Research and Development Propulsion Laboratory will give a paper on "Some Techniques for the De-

sign of the Internal Ballistics of Spinning Rocket Motors."

Dr. Lewis J. Hurt of the Rohm and Haas research laboratory at Redstone will present a paper on "One Dimensional Model for the Ignition of Double-base Solid Propellants."

Dr. M. H. Murphy, Thiokol Chemical Corp., and Dr. H. M. Shuey of Rohm and Haas will also attend the meeting, titled "Symposium on Behavior of Propellants under Acceleration Fields."

It is an unusual work situation when there is not more than one way to achieve an objective.

No matter how efficiently a task may be performed, if the objective is inappropriate the resources used are wasted.

Each year the Post Office adds to its delivery system 1.5 million city addresses, 100,000 rural addresses, and 75,000 business addresses.

CORRECTION

Lt. Col. Sanley W. Tyler, Executive Officer, Procurement & Production Directorate was elected to the office of the third vice president, Redstone Chapter No. 353, National Sojourners instead of Lt. Col. Stanley W. Taylor. We apologize, colonel.

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SAN DIEGO	Leave Huntsville	3:50 pm	
	Arrive San Diego	8:57 pm	
Minimum Fare \$113.85			
DALLAS	Leave Huntsville	7:35 am	3:50 pm
	Arrive Dallas	12:25 pm	7:35 pm
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Mrs. McCravey Tells About Early Huntsville

Fall Is Theme Of Luncheon

Mrs. Alice McCravey, octogenarian and long-time resident of Huntsville, told the Redstone Arsenal Officers Wives Club about early settlers, Civil War incidents, and some of the outstanding antebellum buildings still in existence during the November luncheon at the Squirrel Hill Officers Club last week.

Among the more than 200 members and guests at the meeting was Mrs. McCravey's granddaughter, Mrs. Alex Mitchell.

Wives of officers assigned to the Supply and Maintenance Directorate were in charge of the lunch under the direction of Mrs. Leonard Carlson.

Mrs. Joseph P. Bohn, Mrs. J. Garcia, Mrs. Angelo Ferranti, Mrs. William Brooks, Mrs. Jack L. Sauer and Mrs. Kenneth C. Johnson poured during the social hour.

Mrs. C. L. Ferrell was in charge of the menu, helped by Mrs. Brooks.

The decorating committee, with Mrs. Jack Sauer, chairman, Mrs. Harold Rogers and Mrs. Johnson, used fall flowers in ratan bird

cages, and ratan trees trimmed with artificial fruit. These were used as door prizes. Mrs. Johnson and Mrs. Garcia were on the latter committee.

The speaker was introduced by Mrs. John T. O'Keefe, wives club president.

ELECTION IS COMING

Friday the Golf Group will meet for lunch and the election of officers for 1965. Golf Group members are wives of active and retired officers in the Redstone Arsenal area who compete Wednesday mornings on the Arsenal course. The lunch is scheduled at 12:30 p.m. at the Squirrel Hill Officers Club.

NCO Wives To Help The Needy

Members of the NCO Wives Auxiliary at Redstone Arsenal held a business meeting last Thursday night at the NCO club, and voted to help needy families at Thanksgiving and Christmas.

A former president of the Auxiliary, Mrs. Toby Mountz, was welcomed back at the meeting. Her husband, Sgt. Mountz, has recently returned from Korea and been re-assigned at Redstone.

Auxiliary members and their husbands will have a Thanksgiving dinner at 7:30 p.m. Nov. 21 at the NCO Club. Hostesses for the event are Mrs. Charles Brady, 877-5347, and Mrs. O. V. Bridges, 828-3394.

Those wishing to attend the dinner should call either hostess to make reservations.

SAME Meets Tomorrow

The Society of American Military Engineers will meet tomorrow night at 6:30 at the Squirrel Hill Officers Club.

Arthur J. Rogers special assistant to the chief, Facilities and Design Office at the Marshall Space Flight Center, is scheduled to talk about the design of NASA's Mississippi Test Facility.

Rogers, a native Mississippian, graduated from the University of Mississippi in 1954 and spent the next two years as a Navy officer with a Destroyer fleet.

He joined NASA in 1960.

Mrs. Gulbranson Wins At Bridge

Mrs. I. V. Gulbranson was the winner among the nine tables of competitions at the Thursday meeting of the Bridge Group sponsored

Mrs. Wachslar Wins Fall Ringer

The Fall Ringer tournament among the Golf Group sponsored by the Redstone Arsenal Officers Wives Club ended with Mrs. William Wachslar winning the first flight and Mrs. C. D. Sterner the second.

In the first flight second place was a three-way tie with Mrs. E. I. Donley, Mrs. Frank Napper and Mrs. W. D. Lewis evenly scored.

Runnerup in the second flight was Mrs. R. W. Mundy.

At the end of the tournament Mrs. J. G. Zierdt was judged the most improved golfer.

by the Redstone Arsenal Officers Wives Club.

Second high was Mrs. Dan R. Davis followed by Mrs. Harry Garmmon, Mrs. E. E. Hayes scored low.

Reservations are handled by Mrs. A. J. Matthews.

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At The Service Club

By Molly Patterson

A final reminder to all Military Personnel and their friends of the Third Army Showmobile—"Talent on Parade" scheduled at 8:15 tonight at the Post Service Club. This show will consist of the cream of all the talent in Third Army Area—So be on hand to enjoy an evening of fine entertainment for all.

The Service Club staff has planned a very tasty buffet for all the enlisted men and their friends Friday, at 5:30 p.m. This may be a nice change from the Mess Hall—Who knows!

Every Sunday morning at the Service Club you can count on coffee and donuts—so sleep late and have "brunch" at the Service Club at 9 a.m. You can also listen to your favorite tunes, play games and just be lazy in general. Got to rest up for the Record Hop Sunday night—Got a couple of new "Disc Jockeys" that really give you the kind of music that makes you "wanta" dance. Pfc Robert Schwartz, 4th ETC and Sfc Van Den Bosscha, 2nd ETC—So come on over, but don't forget your tie.

Monday night, of course, is game night with a brand new prize. November 24 Delbert Baily is putting on a "one man" show called "Comedy and Music"—Delbert is a "WIZ" on the piano besides all his other talents — so don't miss his performance. Show time 2015 hours—Happy Thanksgiving to all!

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TO GET CHARTER

The American Association for Contamination Control will hold a charter dinner meeting and its first annual ladies night at the Willowbrook Country Club tomorrow at 6:30 p.m.

J. J. Novotny, vice president of the Southeast Region of the American Association for Contamination Control, will present the charter and introduce the officers of the newly-chartered organization.



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VALUE ENGINEER STUDENTS—Vernon S. Robeson (left) and Capt. Joseph P. Bohn (right) discuss a model of the REDEYE shoulder fired anti-aircraft weapon with Mr. Harlon D. Filloon, Director of Cost and Value Control for General Dynamics/Pomona,

prime contractor for the missile. Robeson and Capt. Bohn recently attended the 32nd Value Engineering Seminar conducted by General Dynamics/Pomona. Both were awarded certificates of graduation.

**Computer Is Worldwide
Network For Logistics**

A new computer which provides worldwide logistical support for troops in the field has been put into operation at the U.S. Army Missile Command.

Maj. Gen. John G. Zierdt, Commanding General, officially activated the computer within the Supply and Maintenance Directorate. He was assisted by Col. R. W. Grote, Director of the Supply and Maintenance Directorate; Brig. Gen. H. P. Persons, Jr. Deputy CG, Air Defense Systems; and

Ralph A. Pfeiffer, Jr., vice-president, IBM Corporation.

Requisitions for missile parts from commands around the world now are received, key-punched on a tape and fed into the computer. The requisitions then are 'punched out' to the depot storing the particular part, thus cutting down on the process involved in the logistical operation.

Officials pointed out that material readiness is the prime concern of all commodity commands within the Department of Defense, and the Missile Command has taken a giant step forward by placing the computing equipment in the hands of the directorate primarily responsible for the success or failure of its logistic support role.

Activation of the operation

Movie Schedule

WEDNESDAY, 18 November
"Jason and the Argonauts" (M-YP)

THURSDAY-FRIDAY, 19-20 Nov.
"The Lively Set" (F)

SATURDAY, 21 November
"Goliath and the Sins of Babylon" (M-YP)

SUNDAY-MONDAY, 22-23 Nov.
"Dr. No." (M-YP)

TUESDAY, 24 November
"Charade" (M-YP)

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.

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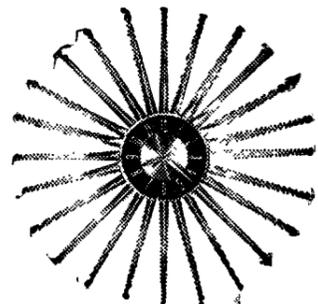
marked another first in the history of the computer is the only one of the Arsenal. The 'memory' unit is its kind here.

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COPELAND RETIRES AFTER 17 YEARS



John L. Copeland, a member of the Civilian Police Branch of the Provost Marshal Division at Redstone Arsenal, received a certificate of appreciation from Col. William Luk, Provost Marshal, during a retirement ceremony for Copeland.

The latter had been an active member among federal employees for more than 17 years.

He joined the security force at Redstone Arsenal in 1951 and had served as a member of the Auxiliary Military Police Unit at the Arsenal during World War II.

Copeland is a veteran of World War I, serving with the 117th Infantry, Company H, 30th Division. The unit was one of the first to break through the Hindenburg Line during the campaign.

Copeland lives in Decatur. He promised his former co-workers that he would make good use of the fishing outfit they gave him as a token of esteem.



JOHN L. COPELAND

U. S. Savings Bonds are the choice of millions of Americans for building toward economic security for themselves, their community and the nation. al Italy.

TO SPEAK—U.S., German, French, Italian and Belgian missile students at the U.S. Army Ordnance Guided Missile School, will hear Lt. Col. J. G. Waterman, who will serve as keynote speaker at graduation ceremonies Friday. He is the Army Defense Command Liaison Officer at the Army Missile Command.

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Dr. Hartman To Talk Here

Dr. Lawton M. Hartman, Director—Research Management Studies in the Office of the Deputy Director—Defense Research and Engineering—for Research and Technology, Department of Defense, is to speak to the newly formed engineering management group of the Huntsville Section of the Institute of Electrical and Electronic Engineers. Dr. Hartman's talk Tuesday will be "Sense and Nonsense in R&D Management."

The group is concerned with engineering management and administration as applied to technical, industrial and educational activities in the field of electrical and electronics engineering. Engineers and scientists with interests in this area are invited to attend, the meeting will be held at the Redstone Officers' Club at 7:00 p.m., following a social hour at 6:00 p.m. For reservations call Mr. S. M. S. Alvi 536-4461, Ext. 426 or 311.

Alabama Memorial Fund Contributions To Be Made Easy

Army personnel at Redstone Arsenal will be given a convenient means of contributing to the USS Alabama Battleship Memorial Fund on upcoming pay days.

Information packets about the memorial, to be established at Mobile, Ala., will be distributed to civilian employees with checks and pay records on Nov. 25 and Dec. 3. Military personnel will receive the information on Dec. 30.

Each packet will contain an envelop addressed to the USS Alabama Battleship Memorial Fund for the convenience of those who desire to make a contribution to the memorial for Veterans of World War II and the Korean conflict.

Alabama Governor George C. Wallace, honorary chairman for the memorial fund drive, has called on Redstone personnel to help put the fund raising campaign over the top.



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REFORM JEWISH Services are
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For further information con-
cerning Jewish Services — con-
tact Rabbi Stein, 534-4771.

CHRISTIAN SCIENCE SERVICES
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Wednesday Services are held at
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Minister, collect 776-2791.

GREEK ORTHODOX SERVICES
SATURDAY — Worship Ser-
VICES are held on the second Sat-
urday of the month at the Post

Chapel, Bldg. 3714, between 0930-1030 hrs.

MONDAY — Choir Practice —
1930 hrs, Post Chapel, Bldg. 3714.
For further information con-
cerning Greek Orthodox Services,
contact Mr. Jacovides, 876-5272.

CATHOLIC
SUNDAY — Masses — 0730,
0845, 1230 & 1700 hrs. (Chapel
Nursery open during Masses at
Post Chapel only).

TUESDAY — Catechism classes
from 1830-1950 hrs, in Chapel An-
nex, Bldg. 3151. Novena Services
—1930 hrs. Confessions — 2000
hrs. Choir Practice — 2000 hrs.

\$1.7 Million Earmarked
For Nike Hercules Work

The Army has announced the award of a \$1.7 million contract to Western Electric Co. for work on the Nike Hercules air defense mis-

DAILY MASS — Tuesday thru
Saturday — 1100 hrs.

BAPTISMS — by appointment
only.

SATURDAY — Confessions —
1800-1930 hrs.

sile system.
 Work will include engineering services, modifications and servicing of missile ground guidance equipment. It will be performed at the company's North Carolina shops and at White Sands Missile Range, New Mexico.

The missile system is managed by the Nike Hercules Project Office, Army Missile Command, Redstone Arsenal. Col. R.M. Colquitt, Jr., is Project Manager.

Nike Hercules is an operational missile system on guard against

high altitude aircraft at sites in the United States and a number of Allied countries.

Veterans comprised some 51 percent of Federal employees world-wide and 54 percent in the United States at the end of 1961. About 65 percent of male Government employees and 8 percent of female workers in the United States were veterans.

Nov 1, 1941 — Atlanta General Depot officially activated.

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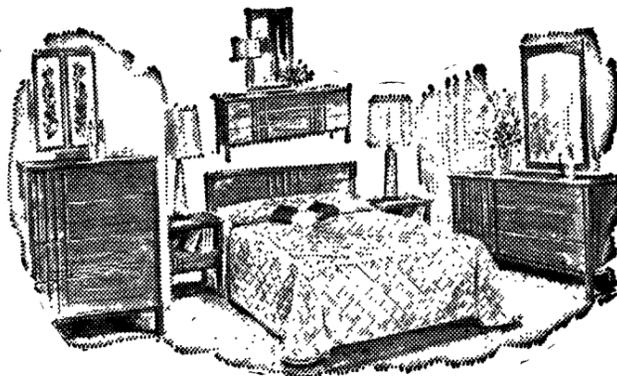
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SEES MICOM LEADERSHIP—Brig. Gen. Allen T. Stanwix-Hay (right) from the Office of the Assistant Secretary of Defense for Installations and Logistics was at the Army Missile Command, Redstone Arsenal, Ala., last week to see how technical data such as blue prints and drawings are handled. The Command is a leader in this field. Here Harry Patterson of the Command's Directorate of Research and Development Documentation Branch discusses some data handling equipment with the General who is the Director for Technical Data and Standardization Policy. At center is Brig. Gen. C. W. Eifler, Deputy Commanding General of the Missile Command for Land Combat Systems.

Gen. Levitan Predicts Men Trained By Army Will Be Needed To Push Buttons

The hand that rocks the cradle may soon be pressing a missile firing button to keep the baby cleaner.

That prediction was made to graduates of the Army Ordnance Guided Missile School Friday by Brig. Gen. Selig J. Levitan, Army Reserve leader of New York City, upon completion of a short tour of duty here.

Gen. Levitan told 37 officers and men completing missile maintenance courses that they will soon see electronic innovations originally developed to guide missiles through the air being applied to a whole new line of household appliances.

A former legal associate of New York's Senator Jacob J. Javits, Gen. Levitan told the missile men that their training illustrates the benefits to the national economy of Army research and development work.

The "industrial fallout" from Army research is already being applied to communications satellites, to a metal-working torch that reaches a temperature three times stronger than previous tools, as well as to new medical techniques.

New household appliances will use micro-electronic devices developed to time and guide the flight of rockets, he said.

Gen. Levitan told the graduates that they need not fear displacement by automation, for their training here had qualified them to become a new kind of industrial executive who is qualified to apply

Corps and to keep abreast of new research programs.

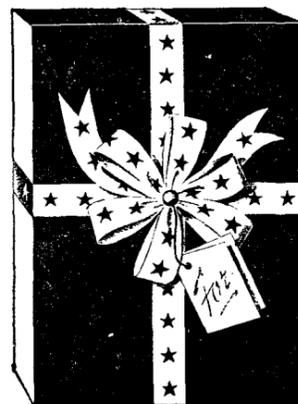
The nation needs a sophisticated citizenry to understand sophisticated research discoveries, he declared.

The general awarded honor graduate certificates to Lt. Joseph A. Petrolino Jr., Jackson, N.J.; Private First Class Richard E. Shertzer of Hershey, Penn.; and Pvt. Ribert G. Councilman of Garland, Texas.

the new missile techniques to everyday manufacturing processes.

He urged them to retain their commissions in the Army Reserve

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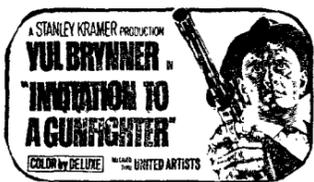
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Golfers Hold Scotch 4-Some Tourney

The annual mixed scotch 4-some tournament sponsored by the Golf Group of the Officers Wives Club at Redstone Arsenal ended with Col. Ed Donley and Mrs. W. Blackmon scoring the lowest putts and landing closest to the pin on hole number 8 of the Arsenal course.

Among the 26 couples competing winners included: Col. and Mrs. R. M. Colquitt, Maj. and Mrs. W. D. Lewis, Col. and Mrs. R. W. Mundy, Warrant Officers and Mrs. Gerreld Pratt, Col. Glenn Bass and Mrs. Frank Napper, R. R. Javins and Lella

Mullins, Maj. Gen. and Mrs. J. G. Zierdt and Mr. and Mrs. Rob McIntosh. Cocktails were served in the Hawk Room at the Squirrel Hill Officers Club before the Sunday buffet supper. Mrs. H. H. Hewitt was chairman for events at the Club.

Astronauts Sought In Army

The National Aeronautics and Space Administration is seeking qualified Army officers and enlisted men for its scientist-astronaut program. Details from applications to the program were made public recently by Col. William J. Macpherson of the Army Ordnance Guided Missile School.

submitted by Dec. 11, 1964. The program will cover a three-year period including training on high-performance aircraft and helicopter pilot training, accumulation of flying time and approximately one year of refresher training in the individual's scientific field.

Assignment to NASA will be for six years.

HOLE-IN-ONE

Maj. Don Goettel, playing in a foursome with Hugh Watson, Bob Nix and Chuck Palmer, shot a hole-in-one, on No. 8 at the Redstone Arsenal Golf course. He used a No. 3 iron.

Sept. 26, 1945 — The first missile was tested at White Sands Missile Range (then known as "Proving Ground"), an installation now under U. S. Army Test and Evaluation Command, one of AMC's seven sub-commands. It was a wartime "Tiny Tim" modified to simulate the WAC Corporal, a sounding rocket being developed to probe the upper atmosphere.

Applications are open to career-committed Army personnel who were born in the United States after Aug. 1, 1930; have a bachelor's degree and a doctorate in the natural sciences, medicine or engineering, or equivalent training and are no more than six feet tall. Applications may be obtained from any post office and submitted with a standard physical data and medical examination report form to the Office of Personnel Operations, Department of the Army, Washington, D.C. Applications must be

sonnel are eligible for membership in the Sportsmen Club. Details about the organization and the meeting tomorrow night can be obtained from SFC Jim Frick, 877-3411.

Judo Tournament To Be Nov. 21-22

A unique method of self defense, which uses an opponent's momentum to his disadvantage, will be demonstrated this weekend when several top performers from throughout the South stage their 1964 Judo Promotional Tournament at Redstone Arsenal.

More than 150 representatives from six states will participate in the two-day event, Nov. 21-22, at the Redstone gymnasium.

The competition is being held primarily for the contesting and examination of member judo participants for promotion to a higher standing, according to Col. David Marcelle, project officer for the tournament.

Holder of a third-degree black belt himself, Col. Marcelle, Finance and Accounting Officer for

the Army Missile Support Command, said the meet also will serve as a means to evaluate and test non-member hopefuls.

Jim Takemori, president of the Washington Judo Club, will direct the tournament. Also present will be Jim Bregman of the United States who won a bronze medal for his ability in the 1964 Olympics just completed in Tokyo. Bregman will talk about the Olympics and will assist in the tournament promotion.

For the spectators, actual demonstrations will be staged Saturday from 1-3 p.m., Col. Marcelle said. There is no admission charge but spectators are asked to be seated prior to 1 o'clock.

Much of the other activities will include such things as explanations

of theory and terms as well as written examinations for those who seek promotion, Col. Marcelle said.

Sportsmen To Elect New Officers For Coming Year

The Redstone Arsenal Sportsmen Club will meet at 8 p.m. tomorrow night in the Teen Club across from the Squirrel Hill Officers Club.

This is the annual meeting to nominate and elect officers for the coming year. Committee reports will be made and a vote will be taken on proposed amendments to the constitution.

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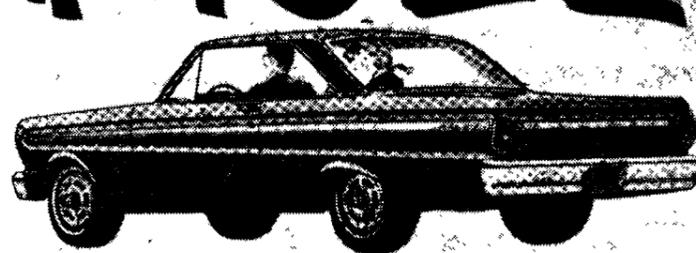
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Page 14 The Redstone Rocket — Nov. 18, 1964

1. For Rent

FOR RENT—New 2-bedroom brick completely or partly furnished waterfront on both Elk and Tennessee River. Carpool to Redstone would consider parking 2 trailers. Phone 247-5692. tfc

FOR RENT—Trailer space on Guntersville Lake 11 miles northeast Guntersville Highway 79. Call Guntersville 582-4702 or write Tanglewood Acres, Route 3, Scottsboro, Ala. for information. tfc

FOR RENT—4000 sq. ft. workable area of office space, second floor Quick Building. Available July 1. 117 Greene St., Downtown Huntsville. Phone 534-5127 or 534-4531. tfc

FOR RENT—3 room unfurnished apartment, 3 extra large rooms and bath to couple. Phone 534-4404. tfc

ROOMS FOR RENT—Single and double for men with good habits, completely and newly decorated, economically priced. Central Y.M.C.A. Dial 534-6452. tfc

FOR RENT—TV's portables, UHF-VHF, by day, week or month. 1964 models. Phone 536-9761 Central TV and Stereo Co., Inc., corner Governors Drive and Parkway. Open 8 a.m. to 9 p.m. daily. Phone 534-8689. tfc

FURNISHED—1 or 2 bedroom apartments on dead-end street away from noise, yet very convenient to Gates 1, 8 and 9. Call 536-0775. tfc

2. Cars For Sale

1961 VALIANT V200—4-door, stick shift, private owner must sell for \$865.00. Phone Mrs. Lurie, 852-5673 or 539-2323. tfc

1960 PONTIAC Catalina—White sports coupe, auto., radio, heater, power steering and brakes. Phone Mr. or Mrs. Byrd, 881-2473. tfc

FOR SALE—1963 VW Karmann Ghia Model 1500, Blue/white, low mileage, WSW tires, AM/FM Blaupunkt radio and seat belts. \$2300.00. 409 Hughes Drive, RSA, 877-5264. tfc

3. Miscellaneous

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WANTED TO BUY—Used canoe in good condition. Phone Smith, 534-7456. tfc

WANTED — Students we have openings for 5 students at Nitas and Daves Beauty College. Tuition can be financed. Earn top wages, be a professional trained by trophy winner Nita Hetherington. Call Nita & Daves's Beauty College, 539-2461 or come by Governors Drive across from Butler High School. tfc

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FOR SALE—Newly reupholstered couch and chair, like new condition. Phone 539-0382. tfc

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BELMONT SUBDIVISION — 2803 Morgan St., S.W. 3 bedroom partial brick, 2 car garage, fireplace, 2 baths Convenient to Arsenal and schools. \$3,050 equity or refinance for \$850.00 down. FHA. Call owner, 536-9452. 11-18-p

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Marines Hold Ceremonies To Commemorate Founding

About 50 U. S. Marines at Redstone Arsenal observed the 189th Anniversary of the Corps Saturday, in a series of celebrations.

Ceremonies began at 7:15 a.m. when Col. W. J. Macpherson, Commandant of the Ordnance Guided Missile School, congratulated the Marines at a formation at the school. The 55th Army Band was on hand with martial music.

At 6:30 p.m., they had a formal mess dinner with Col. Thomas W. Cooke, Commander of the Army Missile Support Command and Redstone Arsenal, as guest of hon-

or. Dinner was followed by a dance and the traditional cake-cutting ceremony before an assembly of 200.

Marines have been a part of the Huntsville community for almost 10 years, assisting the Army in the development of such missile systems as Lacrosse, Hawk, Redeye and Honest John.

The Marine Corps is also monitoring several other systems which may be used by the Corps, which calls itself the "nation's force in readiness."

Four Marines are permanently



BIRTHDAY PRESENT—Five Marines from Redstone Arsenal admire the first stripes given them on the 189th anniversary of the founding of the U. S. Marine Corps. The new privates first class are, from left: Thomas E. O'Neill, Jr., Arthur J. Lapierre, Donald L. Bryhn, Melvin J. Aichholz and Ronald M. Lepri. At right is Lt. Col. Martin Pearson, officer in charge of the Marine detachment at Redstone.



189TH ANNIVERSARY—Marines provided a ceremonial escort for the celebration of the Corps' 189th birthday last week, and Lt. Col. Martin Pearson uses his sword to cut it for the 200 Marines and their guests at Redstone Arsenal. From left (clockwise) are: Col. Pearson, Pfc J. U. Pence, Pvt. D. F. Colton, Pfc. T. E. O'Neill, Jr., and Pvt. J. A. Setterberg. Other members of the Corps stand at attention in the background. There are approximately 50 Marines at Redstone Arsenal.

stationed at Redstone and represent the Commandant of the Marine Corps. Two others are on duty in Huntsville with the Marine Recruiting Service.

In addition, 35 Marines are attending the Ordnance Guided Missile School, studying missile systems currently relating to the Fleet Marine Force. Some 400 Marine students have studied at the school during the past five years.

Lt. Col. Martin Pearson, senior Marine officer at Redstone, is on the staff of the Army Missile Command and the Ordnance Guided Missile School and is Officer-in-Charge of the Marine Detachment. He is a 20-year artilleryman with a master of science degree in missile engineering from the Naval Academy Postgraduate School.

Commenting on the future of Huntsville's land-locked "soldiers of the sea," he says: "Marines are in the missile business to stay—and Redstone means missiles."

"The Army and the Marine Corps, as sister services with a common interest in many areas of land combat and air defense war-

December 26, 1799 — Presidential Eulogy in which George Washington was termed "first in war, first in peace and first in the hearts of his countrymen" was delivered before both Houses of Congress by Henry Lee of Virginia.

Sept. 9, 1963 — U.S. AMC General Order No. 51 authorized establishment of a Command Communications Information Systems—1970 (CCIS-70) Project Manager's staff office in Europe.

fare, look to this arsenal for the weapons we need to equip our forces."

"Marines will be here," he said, "for many years to come."

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Terms Cash or 25% down and balance financed for up to 7 1/2 years at 6% interest with monthly payments.

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SALE NO. 2
Saturday, Nov. 21
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Off West Clinton Street, behind Meadow Gold Dairies, across street from Sandlin Hardware.

Now Occupied By Lambert Steel
Divided Into Several Offices
Immediate possession. See sign on property. FREE 1965 Ford Falcon purchased from Woody Anderson Ford will be given away to some lucky person attending these sales. Nothing to buy.

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Pre-Sale Inspection Invited Col. R. P. "BOB" KELLER, Auctioneer

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Butler To Produce 'King'

The music department of Butler High School will present Rodgers and Hammerstein's "The King and I" November 20, 21, and 22 in the school auditorium.

The cast of sixty players consists of guest actors as well as students from the high school.

Anna Leonowens will be portrayed by Eulaila Young of Nashville, Tenn., who played this part with the Peabody College Summer Opera, and who recently appeared in the Huntsville Community Chorus's presentation of "King David."

Charles Tedford, choral director at Butler, will play the part of the king and is also the stage director.

James Goodman, director of instrumental music at Butler, is in

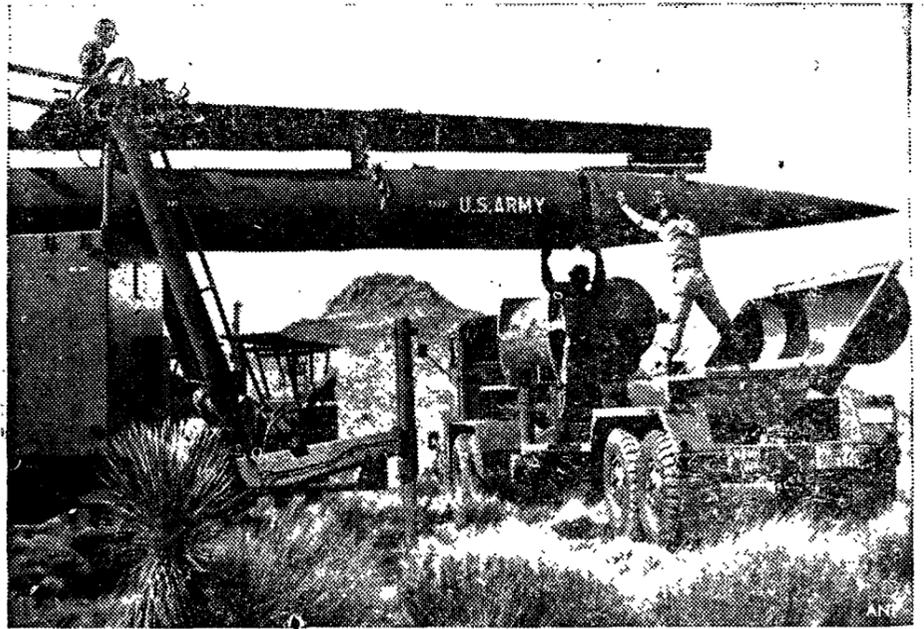
charge of set design and will conduct the twenty-eight piece orchestra to be comprised of Butler musicians as well as string players from Huntsville.

Choreography is being directed by Don Hendren, principal of Joe Bradley Junior High.

Leading children's roles will be played by William Henson, son of Mr. and Mrs. William G. Henson, and Eddie Cohen, son of Mr. and Mrs. David Cohen. Children from the University Place school will play the parts of the small princes and princesses.

Tickets are available at Traylor Music Company, Butler High School, The Record Shop at Parkway City, The Book Inn at Heart of Huntsville, Hilding Holmberg Men's Wear, Downtown, or by calling 539-6396.

Butler students who will play leading roles will be Sheila Marchant, Anna Johnson, Susan Thomas, Johnny Henderson, Harry Palmer, and Roger Teater.



FIELD MISSILE—The U.S. Army's compact and highly mobile SERGEANT missile mounted on its transporter-launcher is prepared for a test firing. The SERGEANT is an inertially guided, surface-to-surface missile with both atomic and conventional capabilities. The missile consists of four major sections, each section being interchangeable with similar components of other SERGEANT missiles. The rocket motor section uses solid-propellant fuel and furnishes the entire thrust during flight. Sperry Utah Company is the prime contractor.

Aeronutronic Will Produce Shillelagh

Two contracts, totaling more than \$26 million and calling for production of the Army's Shillelagh anti-tank system, have been awarded to Aeronutronic Division of Philco Corporation, the Department of Defense has announced.

At the same time, it was announced that Aeronutronic, a subsidiary of Ford Motor Company, was awarded a \$7,515,212 increment to a previously awarded contract for continuation of research and development of the missile system.

The larger of the two contracts, for \$20.6 million, calls for plant activation, tooling costs and initial production of missiles and guidance and control equipment. The second, for \$5.6 million, is to cover engineering support services related to the program, with special emphasis on those design changes that will lower production costs.

Most of the work will be performed at a government owned plant in the Los Angeles area of Lawndale, Calif., which is operated by Aeronutronic.

Shillelagh is an accurate, front-line weapon system which will be used initially on the Army's new General Sheridan light armored, airborne assault vehicle. It is designed for use against hard-point targets, either moving or stationary, such as tanks or front line field fortifications.

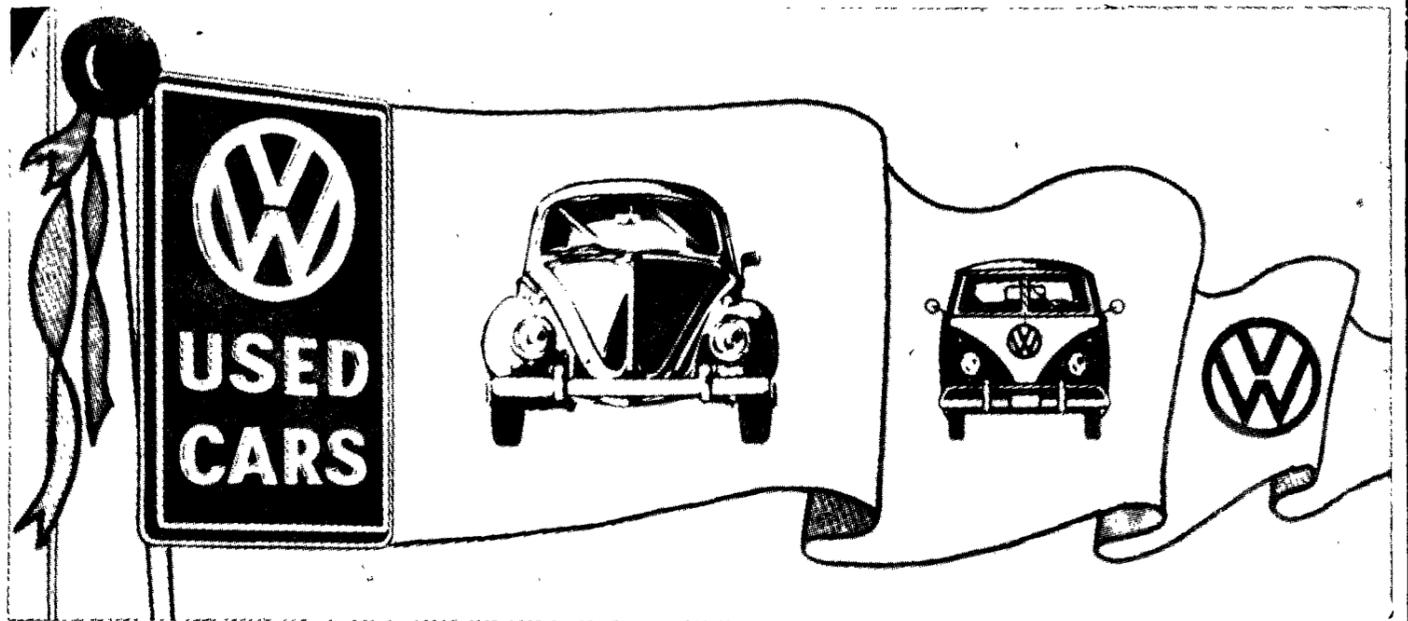
Another advantage of Shillelagh is its ability to fire either missiles or conventional ammunition rounds.

The U.S. Army Missile Command manages the system under Lt. Col. Robert M. Pearce, Project Manager. Aeronutronic is prime contractor.

Contracts were negotiated by the Missile Command's Direct Support (Guided) Division of the Directorate of Procurement and Production and the Los Angeles Procurement District. The latter will administer the contracts.



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