

# IT'S A FACT, 1964 WAS GOOD

An old businessmen's axiom says "Facts and figures speak for themselves."

And certainly facts and figures speak for the U.S. Army's activities at Redstone Arsenal during 1964.

The 40,000 acre Arsenal nestled along the banks of the Tennessee River in North Alabama is "home" for three major Army elements; the U.S. Army Missile Command, which includes the Missile Support Command; Nike-X Project Office; and the Army Ordnance Guided Missile School.

#### Employment High

At the end of 1964, these organizations showed a total employment figure of 13,500 civilian and

military personnel, marking the Army as the largest single employer in the vast Huntsville-Madison County industrial basin.

Working with a 1964 fiscal budget of approximately \$1.4 billion, these Army employees make up a payroll of more than \$100 million. A recent survey showed that some 16,000 transient visitors are badged through Redstone Arsenal's control facilities each month, enabling them to do business or tour government installations. On an average day, about 40,000 vehicles pass through Redstone's gates.

Housing such a vast complex of people and equipment demands fa-

ilities; and there was a substantial growth at Redstone during the year.

The Francis J. McMorrow Laboratories—where much of the in-house work of today results in the missiles of tomorrow—was dedicated. Housing many of the laboratories of the Directorate of Research and Development, this \$4½ million structure provides one of the finest facilities in the country for investigating and developing future Army missile weapon systems.

On hand for the dedication were Alabama Governor George C. Wallace, and a host of Congressional, military and City of Huntsville

dignitaries.

#### Guidance Lab Started

Major General John G. Zierdt, Commanding General of the Missile Command, also paved the way for additional construction when he broke ground for the new Army Inertial Guidance and Control Lab. This will be a new wing to the McMorrow Laboratories and is expected to be ready for occupancy in late 1965.

This center will coordinate all Army programs in the area of inertial guidance, including missiles, aircraft and drones, land navigation and such other things as inertial land surveying and fusing. In addition, Congress has ap-

propriated nearly \$1.5 million for a new Army Calibration Center with construction likely to begin in early 1965.

Along with expansion, there were other highlights for which 1964 will be remembered at the Missile Command.

#### Promotion For CG

Gen. Zierdt was promoted to Major General. Paying a glowing tribute to Arsenal employees, he (See IT'S A FACT on Page 3)

## The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

JANUARY 6, 1965

## 82nd Anniversary Of Civil Service Act To Be Marked

The 82nd anniversary of the Civil Service Act will be observed in Huntsville Jan. 16 with a banquet sponsored by the American Federation of Government Employees. The guest speaker will be the Director of Civilian Personnel for the Department of the Army, Charles F. (Chuck) Mullaly.

Redstone Lodge 1858, AFGE, will host the banquet at 7 p.m. in Fort Raymond Jones Armory. More than 400 Civil Service employees of the Army National Aeronautics and Space Administration in the Huntsville area are expected to attend.

The week of January 10-16 has been set aside this year for observance of National Civil Service Week. The Act was signed by President Chester A. Arthur January 16, 1883. Observance of the anniversary was started in 1934.

"This is a most favorable time for Civil Service employees of the (See 82nd on Page 3)

## Ray Edmondson Named Shillelagh Deputy Chief

Earl R. Edmondson, former chief of the Shillelagh engineering division, has been named Deputy Project Manager of the Shillelagh Missile System, the U.S. Army Missile Command has announced.

Edmondson thus joins Lt. Col. Robert M. Pearce, Project Manager, in directing one of the Army's newest anti-tank weapon systems now under development.

A veteran of 10 years of service at Redstone Arsenal, Edmondson has been connected with the Shillelagh program since 1960. When the weapon system was (See EDMONDSON on Page 3)

## Whitley Named Deputy To TOW Project Manager



ROBERT WHITLEY  
Deputy Project Manager TOW

When some of his friends at the Army Missile Command joke with Robert Whitley about having a firm hold on the missile business, they now can accuse him of having a "TOW-hold."

For Whitley, a native of Birmingham, Ala., has been named Deputy Project Manager of the Army's TOW Weapon System.

A heavy assault anti-tank weapon now in advanced development, TOW is an acronym for tube-launched, optically-tracked, wire-guided missile. The new weapon system will give the soldier a long-range, accurate fire capability against tanks as well as field fortifications.

Whitley was formerly Chief of the Development Division's TOW Branch in the Directorate of Research and Development.

A graduate of Phillips High School in Birmingham, Whitley (See WHITLEY on Page 3)

## Assistant Secretary To Visit

Daniel M. Luevano, Assistant Secretary of the Army for Installations and Logistics, will be at Redstone Arsenal January 14 to address the Tennessee Valley Post of the American Ordnance Association. During the day he will be briefed on the Army Missile Command and its cost reduction program.

The AOA annual dinner meeting is set for 7:30 p.m. at the Squirrel Hill Officers Club.

For five years before being appointed by President Johnson to his present position in June of 1964, Luevano was employed by the California State Government. (See SECRETARY on Page 3)



ASST. SEC'Y LUEVANO

# Firebee To Get Improved Ground Launch System

A new ground launch system for the Army's Firebee target guided missile promises to triple its payload capability and significantly increase its flight time.

The improved Firebee was developed by the Ryan Aeronautical Co. under a contract with the Army Missile Command at Redstone Arsenal, Ala.

Remote controlled Firebees are used as targets in training the Army's air defense missile crews.

The new system which will enable the Firebee to fly for as long as 3½ hours has been successfully tested at White Sands Missile Range, according to Jere Ducote, Chief of the Target Missile Branch in the Missile Command's Directorate of Research and Development. Further test flights are planned.

To increase the Firebee's load carrying capacity, a JATO bottle, with twice the burning duration was adapted. The 11,000 pound thrust JATO will burn for approximately 4 seconds, or about twice as long as JATO units currently in operational use with the Firebee.

Additionally the target's wing tips have been extended to provide greater lift, as a match for the increased payload.



**ADDED MUSCLE-POWER**—A longer burning rocket booster for ground launch, and extended wings give this Army MOM-34D Firebee the added muscle-power to carry as much as 1,000 additional pounds. The "beefed-up" system is being tested for the Army

Missile Command by a Ryan Aeronautical Company team at the Army's White Sands Missile Range in New Mexico. Composite photo shows the fiery tail of the rocket booster as the Firebee target drone blasts from its launch pad at the desert test site.

#### BLOODMOBILE COMING

The Red Cross Bloodmobile will be at Redstone Arsenal between 8:30 a.m. and 2:30 p.m. in Bldg. 7110 Jan. 13.

# 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., Bldg. 5250, Room A-136, Extension 876-1400 or 876-1500.

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## Rocket Ruminations

We are so outnumbered there is only one thing to do. We must attack.

—Sir Andrew Browne Cunningham

## Practically No Accidents

With each year, the odds mount that some of the civilian and military people at Redstone Arsenal will be involved in fatal accidents at Christmas and New Year's. But we made it safely to 1965 and again the record is unmarred.

Only four accidents of any kind were reported during the two-week holiday period. Hospitalization was necessary in one accident—when a civilian employee was injured in a two-car collision near Huntsville. In the only other off-post accident, a man cut his leg with a chain saw. On the Arsenal, there was a two-car collision with no injuries and only \$50 damage to one vehicle, and a worker cut his finger on a power saw.

Missile Support Command Safety Officer Dillard K. Womack says the "Countdown For A Safe Holiday Season" campaign was highly successful. Every one of the 25,000 people at Redstone is commended for living safely and helping others to live safely.

# Secretary McNamara Outlines Plans For Realignment Of Reserve Forces

Secretary of Defense Robert S. McNamara has announced that he has instructed the Secretary of the Army to prepare plans to realign the Army's Reserve and National Guard forces to improve significantly the early deployment capability and combat readiness of the United States reserve forces.

The realignment is designated to bring the Army's Reserve Component structure into balance with the Contingency War Plans and the related equipment program.

The Secretary said the realignment, in addition to producing increased combat readiness on the part of the units in the Reserve and National Guard, would streamline the management structure of the Army Reserve forces, and would result in cost savings approximating \$150,000,000 per year.

The realignment program will involve the transfer of the unit structure of the Army Reserve into the National Guard and the elimination of all units for which there is no military requirement.

The Army Reserve will consist of individuals rather than units and will provide individual trainees for summer camp and mobilization. Under the plan, the paid drill strength will be 550,000 well-equipped, well-trained officers and men.

In making the announcement Secretary McNamara stated:

"I agree with the conclusion of the Secretary of the Army and the Chief of Staff of the Army that changes are needed in the Reserve Component structure to bring manpower and equipment into balance with each other and with our Contingency War Plans, to produce increased combat readiness on the part of the units, and to streamline the management structure for the Army's Reserve forces so that this country will have the best equipped, best trained Army Reserve in the world.

"The realignment will result in savings of approximately \$150,000,000. I have, therefore, requested the Secretary and Chief of Staff of the Army to proceed at once with the preparation of detailed plans to realign the Army Reserve Component structure.

"The Secretary and Chief of Staff of the Army will develop these plans with the advice and assistance of the Section V Committee, the Reserve Forces Policy Board, and Senior Reserve and National Guard officers. The concept of the Secretary and Chief of Staff of the Army is as follows:

"The force structure would consist exclusively of units for which there is a military requirement, including combat and combat support units together with base mobilization base units such as training divisions, garrison detachments and reception station augmentation detachments and would require a paid drill strength estimated at 550,000 men.

"Five independent brigades would be added to the eleven currently in the structure, making a total of 16 independent brigades, which could be deployed as such or in association with other forces in the structure.

"The entire force would be included in the structure for which the Army purchases equipment; as a result equipment would be authorized for two additional divisions and five additional brigades.

"The unit structure of the Guard and Reserve would be merged under the management of the National Guard.

"The U.S. Army Reserve would consist entirely of individuals, rather than units and would provide individual trainees for the units at summer camp upon mobilization.

"The individual trainee program would be increased to the extent that the improved operational readiness achieved justifies the additional cost.

"Other specific actions needed to increase the readiness of the units would be reviewed.

"In developing the detailed plans, the Secretary and Chief of Staff of the Army have assured me that they will give particular consideration to the following:

"Minimizing the impact on local communities and individuals by splitting units when feasible and necessary.

"Providing equal opportunity to Reservists and Guardsmen in the manning of the units of the force.

"Providing to the extent feasible, an opportunity for individ-

uals who desire to serve in the Reserve Components to do so. In this connection a reasonable period of time will be allowed for units concerned to achieve the new authorized strength levels.

"The Secretary and Chief of Staff of the Army have also assured me that the transition to the new structure can be accomplished without reducing the readiness of our Reserve forces and that the resulting organization will provide a great gain in the early deployment capability and combat readiness of our Reserve forces.

"I want to acknowledge the great importance of our Reserve forces and the outstanding service they have rendered to our country. Under the recommended reorganization the units now in the National Guard and those that transfer from the Reserve, as well as the individual trainees who remain in the Reserve, will make an even greater contribution to our national defense."

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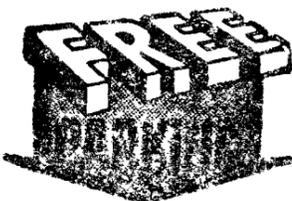
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**IT'S A FACT**

(Continued From Page 1)

said, "You people are the ones who really helped to make this possible."

Lt. Gen. Frank S. Besson, Jr., Commanding General of the Army Materiel Command, parent organization of the Missile Command, flew to Redstone to make the presentation to Gen. Zierdt. Gen. Besson was subsequently promoted, thus becoming the youngest four-star general in the Army.

Whatever success the Free World has had with its missile programs may be attributed in large measure to the Army's granddaddy of all missiles, the famed Redstone. This renowned veteran was officially retired in October '64 after an illustrious career that extended from defense of the Free World on the ground to putting the U.S. well into the race to explore space.

**Redstone Retires**

As one missile fell from the active ranks, however, another moved in to take its place. In addition to the Pershing, which replaced Redstone, other new names were added to the Army's roster of missile programs.

TOW, Shillelagh and Redeye missile programs became Project Managed Systems. Shillelagh, which was returned to the Missile Command from Rock Island, Illinois, and Redeye moved into production. TOW is in advanced development.

TOW and Shillelagh are both anti-tank weapons, Redeye is a shoulder-fired weapon which gives infantrymen the capability to destroy low-flying enemy aircraft.

Another product of Missile Command ingenuity, the XM-3 rocket sub-system, was deployed to using troops. This sub-system, which provides a launching platform for use on helicopters, utilizes the 2.75-inch rocket which was already in existence.

New leadership came to the Missile Command during '64.

**New Chief Of Staff**

Col. Edwin D. Mohlere was assigned as the new Chief of Staff; Lt. Col. S. W. Josephson took over the reins at the Directorate of Research and Development; Col. B. A. Saholsky at Procurement and Production; Col. R. W. Grote at Supply and Maintenance; and Col. R. W. Mundy at Missile Intelligence.

The Air Defense Fire Coordinating/Distribution Systems Office was transferred to the Missile Command from Fort Meade, Md. This office has a mission wherever the Army has missiles to defend our skies.

Research into areas having possible military application found itself spilling over into important fields with great potential benefit

**WHITLEY**

(Continued From Page 1)

has been connected with the TOW program almost from the beginning and has played a key role in its early development. He came to Redstone Arsenal in 1951.

Prior to taking over as Chief of the Development Division's TOW Branch, he served for a time with the National Advisory Committee for Aeronautics (now NASA) as a research engineer at Langley Field, Va.

Whitley graduated from Auburn University with a B. S. Degree in Aeronautical Engineering. During World War II, he served for 15 months with the U. S. Army Air Corps.

The optically tracked TOW is the first supersonic missile automatically guided in flight by commands transmitted by means of a wire link between the gunner and the missile. The gunner aims a telescopic sight at a target, then launches the missile which follows his line of sight.

For moving targets, the gunner tracks the target with his sight, thus generating signals that correct the missile's course.

To give it greater mobility, TOW is being developed for possible use on a variety of ground vehicles as well as on helicopters. It can also be carried by soldiers.

Hughes Aircraft Co. at Culver City, Calif., is prime contractor for the system. Lt. Col. Ballard B. Small, Jr., is TOW Project Manager and directs the program from the Missile Command.

Whitley is married to the former Ruth Schumann of Cullman, Ala., and they have three children, Jenny, Amy and Robert, Jr.

to all mankind.

**Laser Progress**

In mid-1964 it was revealed that Missile Command scientists, using LASER equipment developed for the Command's Directorate of Research and Development, had assisted National Institutes of Health surgical investigators destroy certain malignant tumors in mice.

Gen. Zierdt said of the cooperative effort:

"The Army spends its research and development money to improve its ability to fight. All of us earnestly hope, however, that some of the discoveries this money underwrites will produce benefits in other forms for the taxpayers who pick up the bills. This type of research is one that all of us in the Missile Command are proud to assist in anyway we can."

As the year came to an end, however, the Army at Redstone wasn't taking time to tally up the results. It was much too busy planning for the actions that are still ahead.



**EARL R. EDMONDSON**

**EDMONDSON**

(Continued From Page 1)

transferred from the Missile Command to the Army Weapons Command at Rock Island, Ill., in 1963, Edmondson and his engineering staff continued their work at Redstone.

Management of the program was returned to the Missile Command late this year.

Edmondson came to Redstone Arsenal in 1954 as a project engineer on rocket development programs, and just prior to 1960, was project engineer on the XA72 rocket grenade development program. Prior to that he was employed by an atomic energy commission contractor at the National Reactor Testing Station in Idaho Falls.

A native of Cleveland, Ohio, Edmondson is a graduate of the University of Arkansas and has a bachelor of science degree in chemical engineering.

During World War II, he served in the 6th Armored Division and traveled across Europe with Gen. George Patton's Third Army. He twice was awarded the Purple Heart in 1944 while serving in France.

Shillelagh is a lightweight, surface-to-surface guided missile which is designed for close in support of troops.

A direct fire missile which is launched from a combination gun-launcher, it is effective not only against tanks but field fortifications as well. It provides high accuracy against moving or stationary targets and can fire either missiles or conventional ammunition.

Shillelagh is capable of being mounted on a wide variety of combat vehicles, including helicopters. One of the first applications of the weapon is on the General Sheridan, a light armored reconnaissance airborne assault vehicle.

Edmondson is married to the former Donna Sue Sanders of Fort Smith, Ark., and they have three children, Earl R., Jr., Rebecca Sue and Mark Kenyon. The Edmondsons live at 1102 Wright Drive in Huntsville.

**SECRETARY**

(Continued From Page 1)

He was consultant to the assembly Interim Committee on Ways and Means of the legislature from 1959 to 1960. During the remainder of his state service he was Chief Deputy in the Department of Finance.

The Los Angeles native enrolled in the University of California in 1944 after serving two years with the Navy in the Atlantic. He received a Bachelor of Arts degree in political science from UCLA in 1948 and later was awarded a law degree by San Francisco Law School.

Luevano went to the University of California in Berkeley in 1954 for five years of service as an administrative analyst. He also was associated with the project to develop International House, a comprehensive program for foreign students at UCLA.

Before going to Washington Luevano served on the staff of Labor-Management Forum, a magazine of the CIO-California Industrial Union Council, and was election examiner for the National Labor Relations Board and technical instructor for the Department of Commerce. For a year he was an editorial consultant for industrial clients and covered the Republican and Democratic national conventions of 1952 for fourteen California weekly newspapers.

**82ND**

(Continued From Page 1)

Redstone Arsenal-Huntsville area to meet with the Army's Director of Civilian Personnel," says Dennis Garrison of Huntsville, National Vice President of AFGE. "The local lodge and management officials who are cooperating in the observance of this anniversary are working diligently to make this an outstanding event."

Garrison, an employee of the Missile Command's Directorate of Procurement and Production, says Alabama Gov. George Wallace and Huntsville Mayor Glenn Hearn have been asked to sign proclamations on National Civil Service Week.

Both military and civilian employees are invited to the banquet. Anyone interested in buying a ticket should contact the local AFGE office at 876-5755.

Everette Brouillette of NASA's Marshall Space Flight Center is president of Redstone Lodge 1858

Jan. 16 also is the third anniversary of President Kennedy's sign-

ing of an executive order setting up a labor-management cooperative program for Federal employees.

May 16, 1963—Maj. L. Gordon Cooper landed safely after completing a successful 22-orbit flight lasting 34 hours and 20 minutes.



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OFFICES FROM COAST TO COAST

# Nike-X Recalls Busy Year

The year 1964 was when the public saw the Sprint missile for the first time; when the MAR radar went on the air; the Nike-X budget made a record; and the Army took over Kwajalein Island from the Navy.

The year 1964 was all that and more for the Nike-X Project Office at Redstone.

## NEW NAME

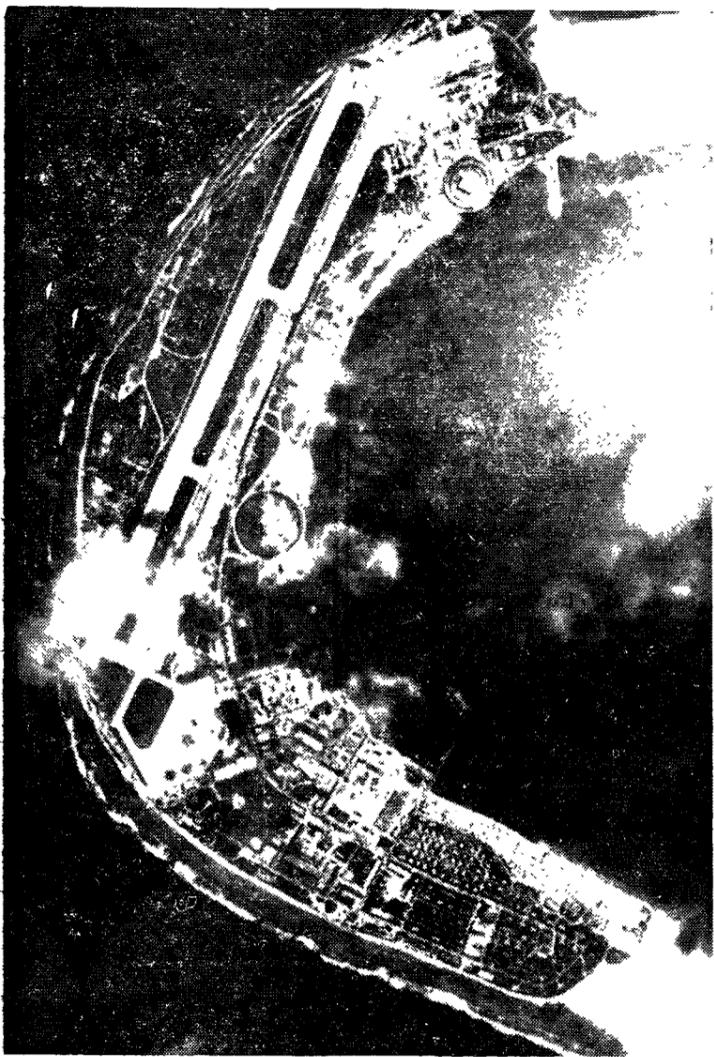
The name itself became official for the missile defense system on February 1—although Nike-X had been used to designate the project for more than a year. Work on the Nike-X system began in 1963 when it succeeded the Nike Zeus anti-missile missile system as the Army's proposed defense against ICBMs and intermediate-range ballistic missiles.

Probably the best news of the year for the project was contained in Secretary McNamara's 1965 defense budget. It asked Congress for \$374 million for Nike-X development for the year and for continued Nike Zeus testing. The Nike-X share came to \$334 million, making it the nation's highest funded defense missile project.

As work on Nike-X development increased, Nike Zeus testing was in the end rows according to Col. I. O. Drewry, Nike-X Project Manager. The Department of Defense had announced seven ICBM target intercepts during 1963 and these were apparently enough to prove the point that intercepts were possible with the earlier system. None were announced in 1964.

## TOP ANNOUNCEMENT

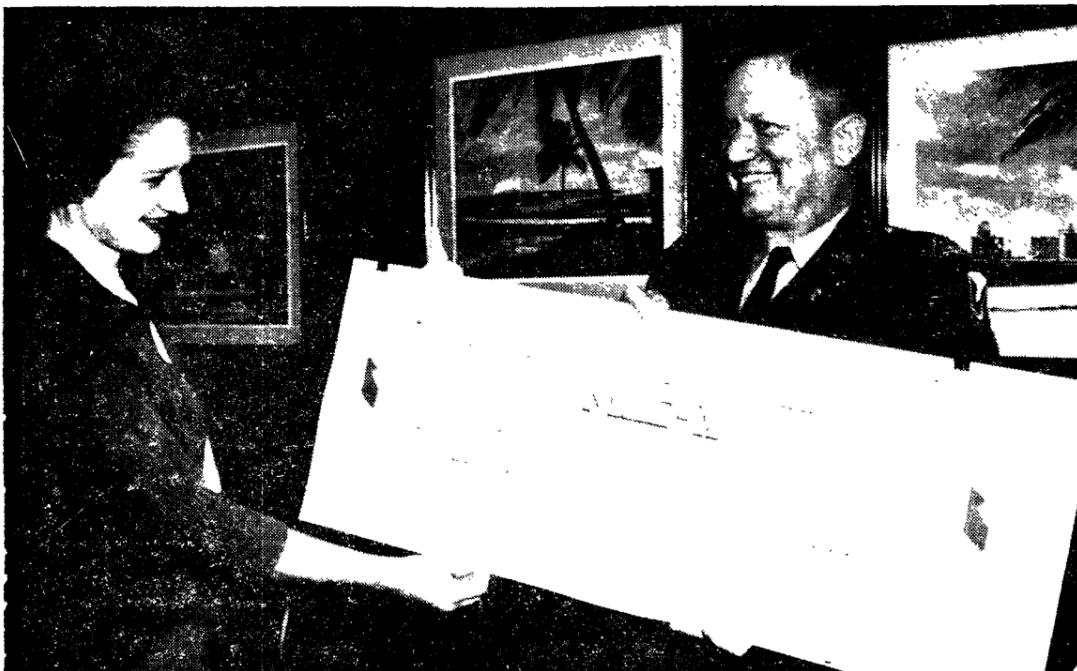
However, there was one inter-  
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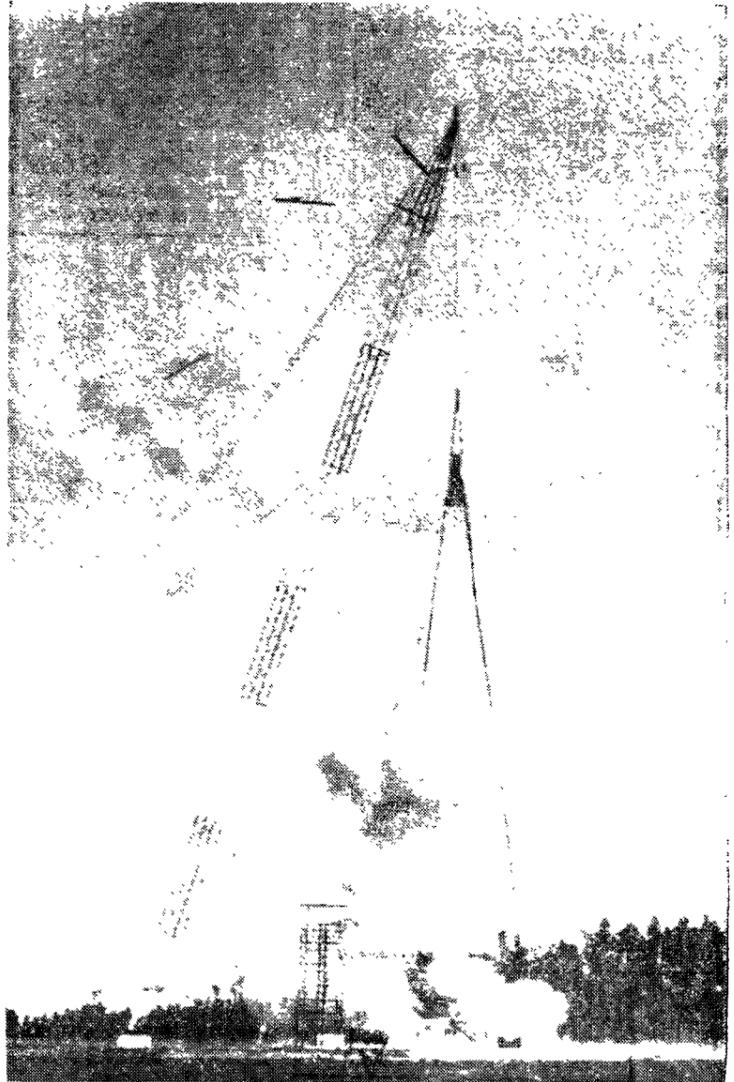
**KWAJALEIN NOW ARMY**—Kwajalein Island, located some 2,000 miles southwest of Hawaii, is one of the Army's most unusual installations. Last July 1 the island—and eight others in the Kwajalein Atoll—became the responsibility of the Nike-X Project Office at Redstone. Kwajalein is used for Nike-X testing, including intercepts of ICBM targets launched at Vandenberg Air Force Base in California.



**SPRINT UNVEILED**—The Nike-X Project's Sprint missile was unveiled in mid-November of 1964. Here Col. I. O. Drewry, Nike-X Project Manager, poses with a table model of the Sprint which will have an acceleration faster than any guided missile yet flown. The 27-foot Sprint and the 48-foot Zeus missile will give the Nike-X System a one-two punch against ICBM warheads.



**THAT'S THE NEW NAME**—1964 was the year that "Nike-X" became the official name of the anti-missile missile project at Redstone. Nike-X succeeded Nike Zeus. Here Col. I. O. Drewry, Nike-X Project Manager displays one of the new signs that went up on Redstone. Looking on is Wilodene Edwards, his secretary.



**SPRINT POP-UP**—The Nike-X Project's Sprint missile did some flying in 1964 tied to the ground. A dummy of the Sprint was popped into the air at a test site near Orlando, Fla. Object of the tests were to try out a cell ejection mechanism which will be used to hurl the Sprint out of its underground launching cell. Here the Sprint dummy has reached the end of its tether and is being held suspended in mid-air while smoke from the ejection charge still partially obscures the launching area.

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**NIKE-X**

(Continued From Page 4)

cept that will stand out as a bold mark in history. In September, 1964, Secretary McNamara revealed that the Zeus missile had been used in an "operational" Army system to intercept a U. S. satellite in orbit. The McNamara statement pinpointing Redstone's Nike Zeus followed by one day a statement by President Johnson announcing that the Army was able to destroy armed satellites—a statement that was reassuring in

the face of threats of "bombs in orbit."

The budget was not the only indication that the Nike-X Project was growing during 1964. On July 1 the Project assumed responsibility from the Navy of the Kwajalein Test Site. The total valuation of the construction and equipment on the nine island complex in the mid-pacific is nearly a half-billion dollars.

The Project has been making use of the Kwajalein site since 1958 for test purposes. All intercepts were made by missiles flown from Kwajalein.

**SHOWN TO PUBLIC**

On Nov. 16, the Sprint missile which had been in development for more than two years and will have a higher acceleration than any guided missile yet flown was officially unveiled to the public. The place: the Association of the United States Army convention in Washington were the Army annually shows off its latest tools for the fighting man. The 27-foot-long, cone-shaped missile will be used with the 48-foot Zeus in the Nike-X system.

Other milestones during the year for the Nike-X were:

March—world's largest permanent magnet, 29 tons, readied for installation in the Nike-X Multi-function Array Radar at White

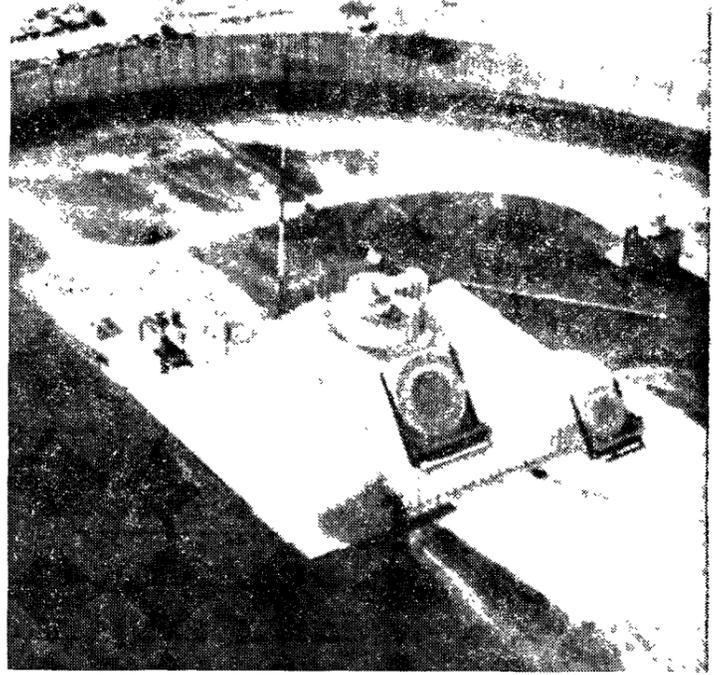
April—The Project announced that a test missile "three times faster than a rifle bullet" was being flown at White Sands Missile Range to test materials for Sprint.

June—Nike-X figured in celebration of the tenth birthday of Nike air defense system on active duty. Preliminary work on the Nike system began in 1944. The first Nike Ajax became operational in 1954.

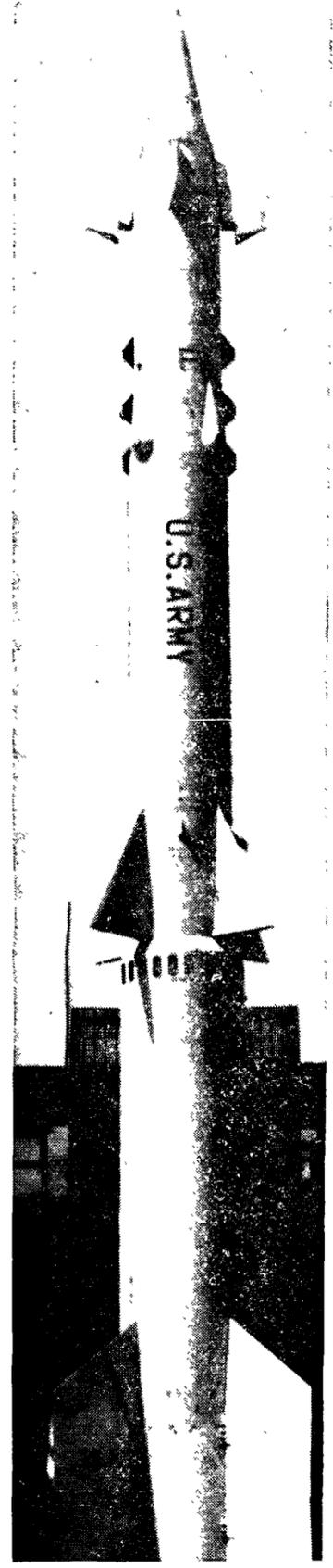
July—work was completed and tests got underway on Multi-function Array Radar at White Sands Missile Range. The first radar of its kind in the Free World, the MAR uses electronic beam steering instead of moving antennas as in conventional radars.

September—the Army's largest contract—for nearly a third of a billion dollars—was awarded by the Nike-X Project Office to Western Electric Co. for continued research and development on the system. The contract for \$309 million was to cover work by Western Electric, Bell Telephone Laboratories and their sub-contractors which number in the thousands.

November—"pop-up" tests to evaluate the launching techniques for the Sprint were underway at the Martin Co. plant at Orlando, Fla. Martin is the Sprint sub-contractor. The tests involved hurling Sprint-shaped dummy missiles into the air by an ejection charge placed under them in the cell. The



Multi-function Array Radar which is now being operated at White Sands Missile Range, N. M. A phased array radar, its beams are steered electronically. The radar transmitter is housed in the small dome and the receiver in the large dome. Rectangular slab on which domes sit is roof of two-story underground building measures 195 by 160 feet.



**THE BIG ZEUS**—The Nike-X Project's Zeus missile during 1964 gained a new distinction. Secretary of Defense McNamara announced that the Zeus had successfully intercepted a satellite in orbit and was operational as an anti-satellite weapon. The Zeus, shown here at White Sands Missile Range, also achieved the Free World's first intercept of an ICBM target.

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# SOCIAL <sup>and</sup> CLUB EVENTS

## Wives Club Sponsors First College-Age Mixer

More than 60 young people attended the first college-age mixer sponsored by the Redstone Arsenal Officers Wives Club on December 26 in the Chez When Room at the Officers Club.

The party, from 8 to 10 p.m., was planned by Mrs. Rawlins Colquitt, and was given to afford college students home for the holidays an opportunity to get acquainted.

Refreshments were served from a buffet table decorated with silver Christmas ornaments, silver candelabra and a red swag.

A receiving line headed by Maj. Gen. and Mrs. John G. Zierdt welcomed guests as they arrived,

then the guests joined the line thus giving everyone a chance to meet.

Chaperones for the mixer were Col. and Mrs. Colquitt, Lt. Col. and Mrs. Stanton Josephson and Lt. Col. and Mrs. Alfred Holston.

## Professional Engineers Schedule January Dinner

The Northeast Alabama Chapter of the Alabama Society of Professional Engineers will meet, January 14, at the Huntsville Industrial Center at 6:00 p.m.

Guest speaker will be Lewis C. Pattillo, Member of the Board of Registration for Professional Engineers and Land Surveyors, State of Alabama. He is with G. W. Jones & Sons, Civil Engineers, Huntsville. Pattillo is a retired Brig. General in the U.S. Army Reserves and a member of Reserve Officers Association. Pattillo will give the functions of the State Registration Board and the requirements necessary to become a registered engineer in the State of Alabama.

All members and engineers interested in becoming registered in Alabama are urged to attend. Reservations can be made by calling Bennie Shultz at 881-4588.

## Newcomers Coffee Set For January 12

The Officers Wives Club will have a Newcomers' Coffee at 10 a.m. January 12 in the Hawk Room of the Redstone Officers Club.

For reservations call Mrs. S. Josephson, 877-4960. Mrs. W. Mehlinger, 877-5250, Mrs. C. Powell, 877-5647 or Mrs. C. Richards, 877-5575 by noon on Friday. Cancellations should be phoned to Mrs. A. McNeil, 877-4364 by noon next Monday.

Mrs. John S. Farrington is chairman for the event.



FOR A HAPPIER HOLIDAY—Mrs. E. E. Roy of the Catholic Women's Sodality at Redstone Arsenal presents a \$164.42 check to Father Mark Sterbez, St. Joseph's Mission in Huntsville, to provide assistance for needy families in his parish during the holiday season. Chaplain (Major) William T. Condon, the Catholic chaplain at Redstone looks on during the ceremony at the Redstone Post Chapel. Mrs. Roy was chairman of the Sodality committee which raised the money through Christmas card sales. Other members of the committee included Mrs. E. F. Otto, Mrs. Orville O'Neal, Mrs. Ray Sandoval, Mrs. Carlos Valez, Mrs. Robert Bitoni, Mrs. R. Cancel, Mrs. Russell Cogwell, Mrs. Robert Cosentino, Mrs. Stanley Fraggee, Mrs. R. H. Lee, Mrs. E. Carranto, and Mrs. J. R. Moore.

## SCHLEIHAUS, MISS TEMPLE WIN AT BRIDGE

At Monday bridge last week Glen Schleihaus and Miss Pat Temple won for the men and women's divisions respectively during play at the Squirrel Hill Officers Club.

Eight tables of players were in competition in which John Tyson and Mrs. R. U. Scott took second places.

Mrs. Scott, 772-3273, handles reservations to play with the group.

## REDSTONE GARDEN CLUB SELECTS BEST CHRISTMAS SEASON DECOR

Col. and Mrs. Thomas W. Cooke, 3 Wadsworth Drive, received the Redstone Garden Club's top award for their outdoor Christmas decorations which featured use of greenery and wreaths.

Honorable mention went to Lt. Col. and Mrs. J. Thompson, 301 Hughes Drive, for their green and gold door decorations; Col. and Mrs. Cyril Sterner, 46 Ripley Drive, for greenery at doors and windows; and Maj. and Mrs. J. P. Geurts,

419 Hughes Drive, for their candy cane pole, wreath and Santa with reindeer.

There were five homes with outstanding decorations. They were those of Capt. and Mrs. Bill McCarty, 271-B Wesson Circle, Warrant Officer and Mrs. Raymond Reier, 273-B Wesson Circle, Capt. and Mrs. E. E. Roy, 369 Roberts Drive, Lt. Col. and Mrs. L. M. Anderson, 49 Ripley Drive, and Maj. and Mrs. William Cole, 304 Hughes Drive.

## Dr. Farish To Speak At Dinner Meeting

Dr. Preston T. Farish, a Marshall Space Flight Center astro-biologist will be guest speaker January 20 at a meeting of the Redstone Chapter, Society of American Value Engineers.

The dinner meeting is set for 7 p.m. at the Knights of Columbus Hall in Huntsville. Anyone interested in attending should contact Aubrey Smith at 876-1292 for a reservation.

Dr. Farish will speak on "Marshall Manned Flight Awareness Program." He heads the Awareness Program in Marshall's Saturn/Apollo Systems Office.

### MEETING SET

The Society for Non-Destructive Testing has scheduled a meeting at the Pin Palace at 6 p.m. Jan. 14.

Jimmy St. Claire will be the principal speaker, talking on "Infra-Red."

Reservations to attend the meeting are not necessary according to O. D. Hartley. Anyone desiring more information can contact him at 876-0217, or Paul Duran, 876-7203, or E. J. Magnusson, 876-9725.

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## JANGOS Give Party For Kiddies

Members of the Junior-Army-Navy Guild Organization (JANGO) at Redstone Arsenal sponsored a Christmas party, Dec. 23 for Huntsville's needy children.

About 50 children were guests at the party held at the Redstone Officers Club. Santa Claus was present to distribute gifts, and refreshments were served by the hostesses. The JANGOs raised money for the party through a bake sale. They hope to make the children's Christmas party an annual event at the Arsenal.

The Redstone JANGO Guild is made up of daughters of Army officers, both active duty and retired. It is the only Army JANGO Guild in the United States outside the Washington, D.C. area.

Mrs. John G. Zierdt is the JANGO advisor at Redstone, and Mrs. William H. Roedy is the chairman.

Sgt. Roy Hancock was Santa Claus for the party. Others who assisted in making the party possible included: Col. C. D. Sterner, president of the Board of Governors of the Redstone Officers Open Mess; Phillip D. Riblet, catering manager at the Mess; Lt. Col. Carl Hansen of the Army Missile Support Command; and Stanley Wilkins of Post Transportation.

The Redstone JANGO Guild was founded last Spring. In order to receive their caps as full-fledged JANGOs, the girls served as nurses aides at the Army Post Hospital and Dental Clinic and at the Red Cross Bloodmobile. They were capped late in September.

## Texas Firm Gets Pershing Contract

The U.S. Army has announced the award of a \$1,302,134 contract to the Intercontinental Manufacturing Co., a small business concern in Garland, Texas, for production of Pershing missile motor cases.

The contract will cover work for a twelve month period and will be performed in the company's Garland plant.

The Pershing is a two-stage, solid propellant ballistic missile which provides selective range capability for Army field troops.

The contract was negotiated by the Army Missile Command's Procurement and Production Directorate.

The Pershing program is managed from headquarters at the Army Missile Command. Col. Edwin I. Donley is the Pershing Project Manager.

## Nike Hercules Contract Awarded

The Army has announced the award of three contracts totaling \$2,744,511 to fund work on the Hawk and Nike Hercules missile systems, and continue a research project.

The Western Electric Co. received \$1,379,188 to cover production of Nike Hercules equipment at their Burlington, N.C. plant for an 11 month period.

The Raytheon Co. was awarded \$1,165,372 for work on the Hawk missile at Ft. Bliss, Texas. The contract covers a 12 month period.

A \$199,951 award went to Thiokol Chemical Corp. for continuation of a research project at the corporation's plant at Redstone Arsenal.

The Nike Hercules and Hawk are operational missile systems. Both programs are managed from headquarters at the Army Missile Command, Redstone Arsenal. Col. Rawlins M. Colquitt is the Hercules Project Manager, and Col. George McBride is the Hawk Project Manager.

The Army Missile Command Procurement and Production Directorate, headed by Col. B. A. Saholsky, executed the contracts.



SINGING ALONG WITH SANTA—Well, some are, anyway, during the Christmas party for Huntsville's needy children which the Redstone JANGO Guild sponsored on Dec. 23. This group repre-

sents the younger children who attended the party held in the Squirrel Hill Officers Club. Approximately 50 children in all were on hand to receive gifts from Santa and enjoy the refreshments.



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MRS. JOHN G. ZIERDT talks with Mrs. Lyndon B. Johnson during First Lady's visit to Marshall Space Flight Center last March.



1964 SAW THE ARMY MISSILE COMMAND playing a prominent part in the non-military job of cancer research. William McKnight, right, of the Electromagnetics Laboratory, and Dr. John Peter Minton, surgical investigator of the National Cancer Institute, National Institutes of Health, demonstrate for Gen. Zierdt how a Missile Command laser was used in treating cancer in mice. First announcement of this achievement came in March, 1964.



VISITING DIGNATARIES come to the Missile Command all through the year. Here, Brig. Gen. Howard P. Persons (center) briefs Air Vice Marshall Murray D. Lister of the Royal Canadian Air Force (right), and Brig. Gen. John G. Turner, Assistant to Vice Marshall Lister. July 1964.



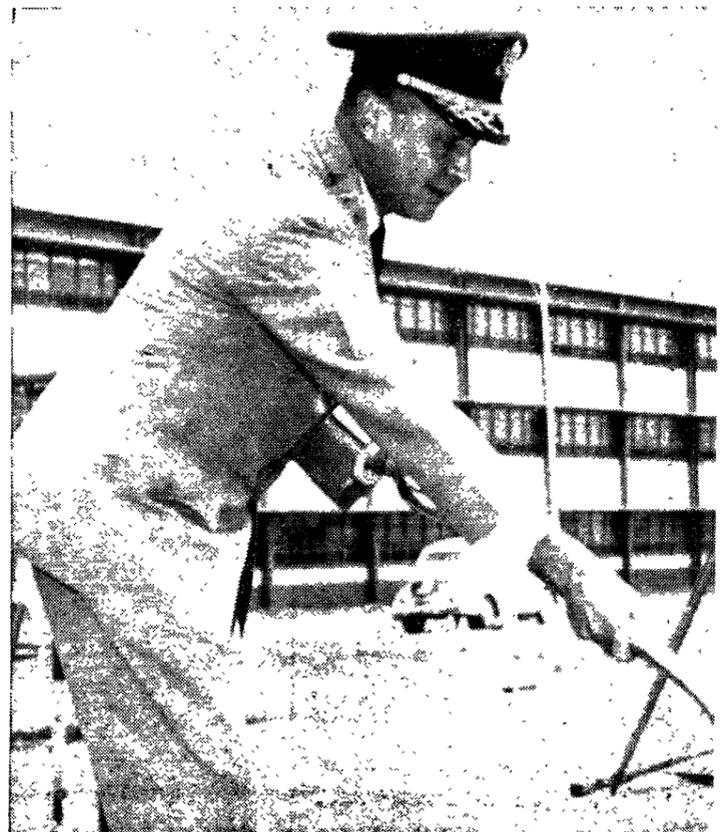
A NEW YEAR AND A NEW STAR—Lt. Gen. Frank S. Besson, Jr., Materiel Command, and Mrs. Zierdt share the honors of promoting Major General. Jan. 1964.



BRIG. GEN. C. W. EIFLER holds patent certificate for his invention of a training device. He and a fellow officer developed invention three years ago. The patent was received in December.



JOHN L. MCDANIEL Research and Development of Commerce Frigate select Ross Bass December.



THE CG TOSSES THE FIRST SHOVEL of dirt, breaking ground for J. McMorrow Missile Laboratories. May, 1964.



...nding General of the Army  
...ssile Command's boss to



**JANGO PRESIDENT** Mary Elizabeth Eifler works at the Bloodmobile. A 1964 Redstone event was establishment of the Guild, the only JANGO Guild on an Army post in the U.S. outside the Washington area.



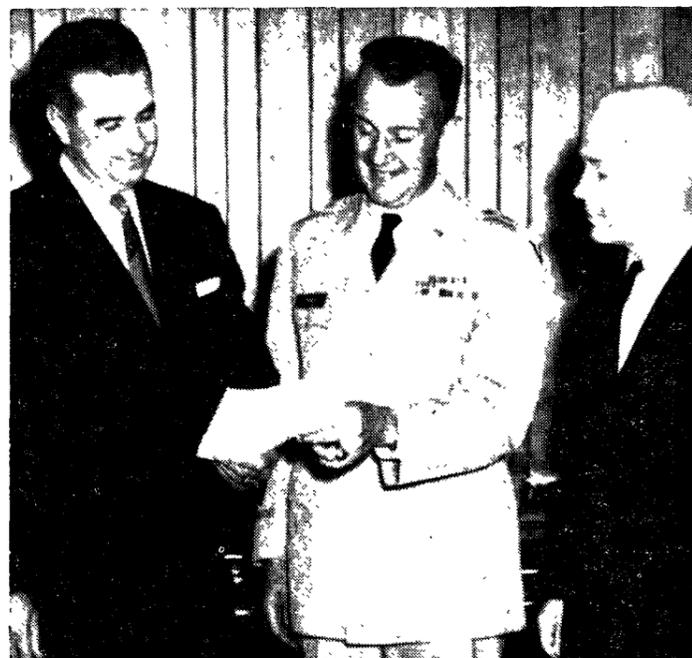
**RECEIVE ACHIEVEMENT AWARDS**—William B. McKnight, Ralph W. Hawkins, James R. Dearman and William F. Otto were among 23 Army engineering and scientific personnel to be awarded the 1964 Army Research and Development Achievement Awards. All are from the R&D Electromagnetics Lab. August 1964.



...echnical Director of the Directorate of  
...nt, emphasizes a point to under Secretary  
...b. Roosevelt, Jr., and Tennessee Senator  
...their visit to Redstone Arsenal in Septem-

**PEOPLE  
MADE  
NEWS  
AT MICOM  
DURING  
1964**

Redstone Rocket — January 6, 1965



**IN MAY**, Gen. John G. Zierdt, University of Alabama President Frank Rose (left) and Harry F. Vincent discussed a \$103,854 research grant to the University's Research Institute. The grant covers two research projects to be performed for the Missile Command at the Institute.



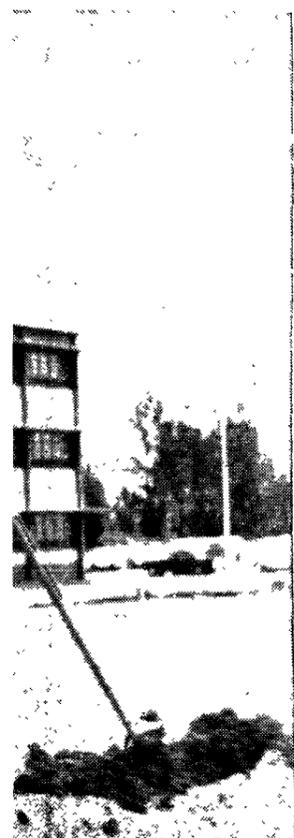
**LINDA WOOD AND MICHELE BULLARD** receive first scholarships ever awarded by the NCO Wives Auxiliary, September 1964.



**MEETING AT THE MISSILE COMMAND** in August to discuss the Advanced Planning Briefing for Industry were, left to right, Dr. Finn J. Larsen, former Assistant Secretary of Army for R&D, Maj. Gen. W. B. Bunker, Deputy CG of the Army Materiel Command, and Lt. Col. S. W. Josephson, Director of R&D for the Missile Command.



**FORMER HUNTSVILLE MAYOR R. B. Searcy** receives Army's highest civilian commendation, and Huntsville Banker M. B. Spragins is awarded plaque recognizing services of Army Advisory Committee, in October.



...y IG&C wing to the Francis



**CHRISTMAS ON KWAJALEIN**—Christmas at the Nike-X Project's tropical Kwajalein Island test site was like Christmas back in Huntsville when it came to trimming a tree. Two Christmases ago the family of Lt. Col. William Nelson celebrated at their home on Redstone where he was the anti-missile missile project Executive

Officer. Note, however, the Kwajalein Christmas attire of bright Muu-Muus, bermuda shorts and open sandals. Pictured from left are: Davey Nelson, his brother Jim, Lt. Col. Nelson, Mrs. Nelson, and their daughter, Nancy.

## Movie Schedule

WEDNESDAY, 6 January  
"The Gorgon" (M-YP)  
THURSDAY-FRIDAY, 7-8 January  
"Woman of Straw" (M-YP)  
SATURDAY, 9 January  
"You're Never too Young" (F)  
SUNDAY-MONDAY, 10-11 January  
"PT 109" (F)  
TUESDAY, 12 January  
"Signpost to Murder" (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.

had some difficulty thawing her turkey.

Still, these and others we have mentioned are only surface differences. Christmas is a feeling—a spirit. That spirit wasn't missing on Kwajalein.

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### No Chimneys, No Snow

## But Santa Comes To Kwajalein

Back before Christmas the Rocket asked the Nike-X Field Office on Kwajalein Island to report on how the holiday went out there where snow, Christmas-type trees and chimneys for Santa to slide down are as scarce as coconut trees are in Huntsville.

This is how it went.

While people in many parts of the United States had a white Christmas to make the season complete, the weather at the Kwajalein Test Site was no indication at all of the season.

On this mid-Pacific atoll, site of field tests for the Nike-X anti-missile system, the temperatures were in the low 80's as they are all year round. The palm trees rustled to the trade winds, and since this is the beginning of the dry season, skies were clear.

This un-Christmaslike climate hardly stirs up thoughts of sleigh bells, reindeer, and stockings hung by the chimney with care.

For the some 3,000 Americans stationed on this coral atoll 2100 miles from Hawaii, the lack of seasons may make it a different Christmas, but it doesn't dampen their Christmas spirit.

Actually, the Christmas spirit began earlier on Kwajalein than it did in the United States. Because of the mailing time required for packages, residents were busy Christmas shopping by early in October in Kwajalein's one department store, known commonly as "Macey's 'Toyland,'" complete with aluminum Christmas trees and other decorations, was open by mid-October.

Christmas cards had to be ordered far in advance. Some people design their own Christmas cards, which in the past have included pictures of Santa Claus arriving at Kwajalein via surfboard, outrigger canoe or water skis, and wearing bright red Bermudas.

Frozen turkey (all meat on Kwajalein is bought frozen) were purchased at the island "commissary" and were in home freezers weeks in advance of Christmas dinner.

Aluminum Christmas trees were not the only variety obtainable on Kwajalein, however. Some of the more imaginative islanders were able to fashion fine Christmas decorations out of palm fronds, and for those for whom no Christmas

would be complete without an evergreen tree, a supply of traditional Christmas firs arrived by ship shortly before the holiday season.

As in American communities, many homes and business buildings were dressed with outdoor Santa Clauses, Christmas trees, wreaths, lights, and other decorations. There was also an island-wide contest to pick the best exterior decorating jobs in several categories. Kwajalein has a higher percentage of trailers than most American communities, however, and the trailer homes produced a variety of colorful and imaginative Christmas designs.

The Marshallese people, who are predominantly Christian, have come to share many of the more American Christmas traditions.

Most of the Marshallese in Kwajalein Atoll live on Ebeye Island, a short distance up the reef from Kwajalein Island, and many work for the Americans on Kwajalein.

Many Marshallese also exchange Christmas gifts with their American employers.

It used to be that Kwajalein claimed the distinction of having the first midnight Mass anywhere in the world because of its nearness to the west side of the International Date Line. Parents could also tell their children that Santa Claus started at Kwajalein because Christmas came there first (a day ahead of the U.S.)

But, at the end of this October, a "loop" was put in the date line and Kwajalein is now on the same calendar day basis as the States. Since Kwajalein time is behind U.S. time, Santa had to make Kwajalein one of his last stops this year.

On Christmas day, most Kwajalein residents attended church services in the Island Memorial Chapel, a cross-shaped structure used by all major denominations. The chapel is a fine example of native-style architecture, with wide eaves sweeping down to within a few feet of the ground and with open sides.

In the American homes on Kwajalein, Christmas was pretty much celebrated as it is by Americans everywhere—a tree, gifts, a Christmas dinner, visits by friends and

ing masks, or water skis, instead of sleds, sweaters, and snow skis. The youngsters may have worn "go-aheads" (shower clogs) instead of slippers as they came out to look under the tree in the morning. The stockings had to be hung on the wall because there are no chimneys. And mother may have

The gifts under the tree were liable to be surfboards, snorkle-

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"Ship 'n Shore"

### At The Service Club

By BETTY HAYES

Welcome back everyone!! It is good to see your smiling faces again after the holiday vacation.

As I walk through the Service Club, the topic of conversation is the good times spent at home during Christmas leave. Let me remind you that the good times have not ceased simply because your leave is over. We have planned a variety of entertainment for the month of January, which all of you will enjoy.

Many of you have mentioned that you would like to learn to play bridge. The opportunity to learn is open to you tonight at 7:30 p.m. when the Staff Member

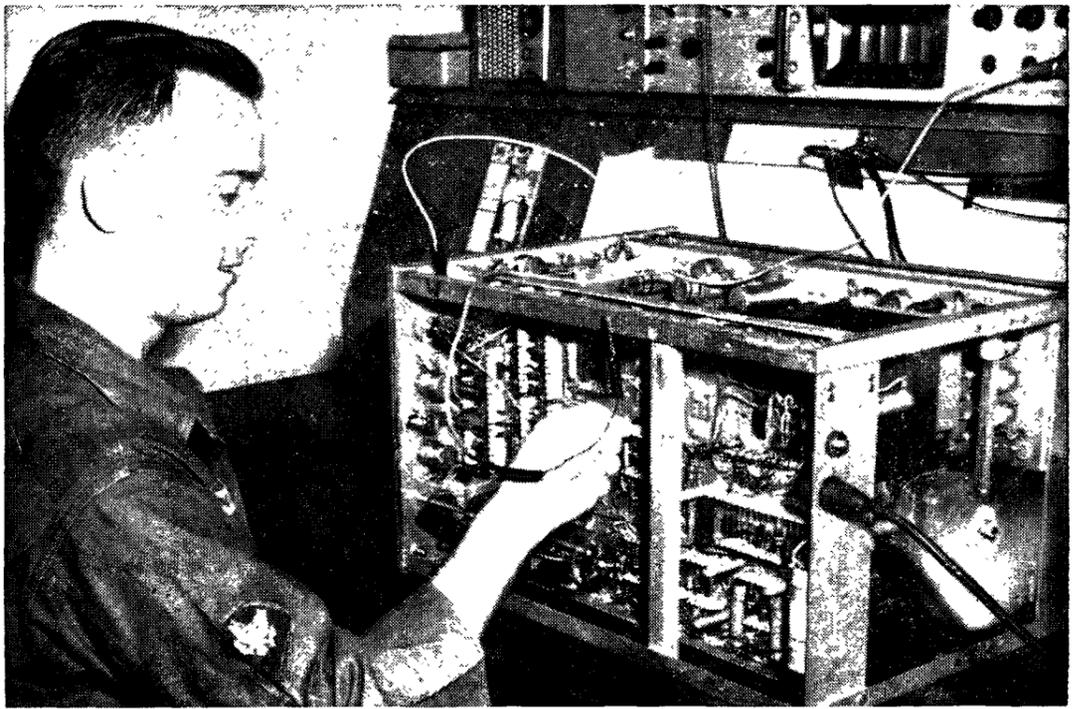
on duty is prepared to give you the basic instructions.

Cardboard capers is the theme program on Thursday, Jan. 7, at 7:30 p.m. Bridge, pinochle, and hearts are three of the favorite card games which will be played that evening. Bring your partner with you; you may be the champion for the evening.

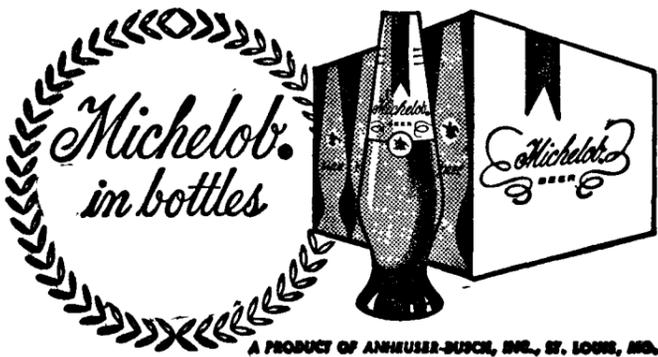
On Friday evening small games including monopoly, sorry, and parcheesi will be played at 8 p.m.

Coffee will be served to you on Saturday afternoon, at 3:30 p.m. while you are writing that special gal; watching TV; playing cards; or reading a magazine.

Saturday evening, at 8 p.m. you have a chance to prove that you know the popular hits of today and yesterday when we play "Name the Hits." After several tunes have been identified, you have a chance



**SOLDIER OF THE MONTH**—Sp4 James B. Thomason, has been named Redstone Arsenal Soldier of the Month by Col. Thomas W. Cooke, Commander, Army Missile Support Command. Sp4 Thomas checks out a scope at his workbench in the Maintenance Support Division where he is an instrument repairman. Thomason entered the Army in July, 1963, and received his basic training at Fort Ord, Calif. He was previously assigned at Ft. Gordon, Ga. As a civilian he attended Modesto (Calif) Junior College where he majored in electronics. His parents reside in Huntington, Calif.



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to name the mystery tune. If you know the tune, you will be awarded the grand prize, which is a pen and pencil set. Mark your calendar for the event.

Sunday morning, January 10, at 9 a.m. coffee and donuts will be served.

After popular requests the Showmen will return to play music

for your dancing pleasure on Sunday afternoon at 8 p.m. for the Winter Wonderland Swing.

Once again an evening of games will be played on Monday, January 11 at 8 p.m.

Delicious goodies will be prepared for the pot luck supper, which will be served to you and your guests on Tuesday, January

12 at 5:30 p.m.

Molly, Al, and I would like to wish you a Happy New Year. We promise you programs for 1965 which will make your leisure time at Redstone Arsenal memorable and enjoyable.

See you at the Service Club.

## JANUARY IS . . . Station Wagon Month

● Higher Trade-in Allowances

NOW BEING OFFERED ON

## New 1965 Volkswagen Station Wagons

"NOW IS THE TIME TO BUY"

### Universal Motors, Inc.

PHONE 539-7456

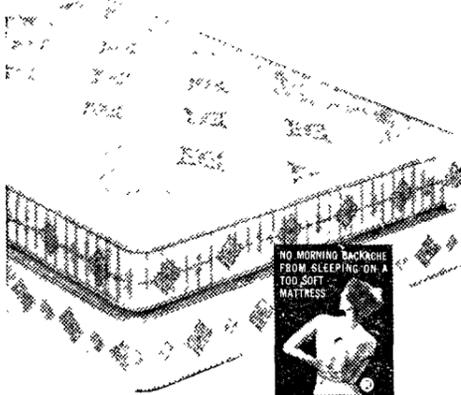
2305 North Memorial Parkway



**NEWLYWEDS!**  
You can do without most anything but the right kind of rest...

Get the best mattress you can...

## SEALY POSTUREPEDIC®



Here's why more and more couples are furnishing with Sealy Posturepedic. It gives good, firm support designed in cooperation with leading orthopedic surgeons. New Duro-Edge® border wire prevents sagging edges and extends comfort from border to border. Choose extra firm or gently firm Posturepedic... both are beautiful in new Starlight Sateen covers. Start with the best today!

Full or twin size  
Machining foundation same price **\$79.50**

**SPECIAL BRIDES' OFFER!**

Come in for your copy of our informative new booklet: "Comfort and Beauty for the Bedroom" available for a limited time at only 25c.

CHARGE ACCOUNTS INVITED

CONVENIENT TERMS ARRANGED

## Hale Brothers Furniture Co.

106 Jefferson Street—Downtown Huntsville—Pho. 536-8508 or 536-8509  
● You Can Pay Your Telephone Bills Here!

# money

Just tell us how much money you need to meet all your seasonal expenses! Phone before noon to arrange for your money the same day! Do it now!

Under State Supervision

LOANS UP TO \$300

**MUTUAL**

FINANCE

106 South Side Square

Phone: 536-8591

109 Holmes Ave., N.E.

Phone: 534-0611

In Decatur

121 East Moulton St.

Phone: EL 3-4413

Pay all your bills with a CONSOLIDATION LOAN. This way, you will have less to pay out each month and only one place to pay. Phone us today for prompt, courteous service!

LOANS \$301 AND UP

**MUTUAL**

INDUSTRIAL FINANCE

106 South Side Square

Phone: 536-8591

109 Holmes Ave., N.E.

Phone: 534-0611

In Decatur

121 East Moulton St.

Phone: EL 3-4413

# Spare Parts For Missiles Ready Around-Clock

When an Army missile system anywhere in the world goes out of action because of parts failure, a new organization being established at the Army Missile Command will be able to locate the part required to repair it and issue a shipping order within an hour or less—day or night.

The organization—known simply as the Stock Control Division of the Directorate of Supply and Maintenance—will maintain a master register of every missile peculiar part in every warehouse in the United States.

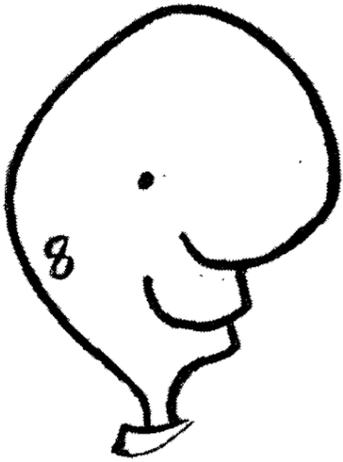
The one-hour or less capability is designed to support urgent, high priority used requirements. For this purpose, the new division will have personnel on duty 24 hours a day, seven days a week.

The Stock Control Division is rapidly emerging as an operating entity as a result of implementation of the TASAMS (The Army Supply and Maintenance System) concept which centralizes all military property accountability and certain related supply and financial functions. These functions are presently being performed by U.



**RUN STOCK CONTROL**—A new organization at the Missile Command, run by these seven managers, is keeping track of every missile part in Army warehouses in the United States. All told, these parts are valued at about three-quarters of a billion dollars and on an emergency basis the new Stock Control Division in the Directorate of Supply and Maintenance can find any part in an hour or less—day or night. Howard G. Odell (center) is acting chief of the Division. With him his branch chiefs are, left to right: Arthur Ward, Robert VunKannon, Frank Flash, John Hann, Ralph French, and L. E. Hughes.

## A PORTRAIT OF ---



**PRIDE**

because he bought from

**CLEAN CARS, INC.**

501 Madison St.

539-1769

## Potful of bills?



## Get an HFC Bill Payer Loan

Clear up last year's left-over bills or this year's new ones right now. HFC's world-wide money service can help you wherever you're stationed—through 1400 stateside offices—or overseas by one-step air mail service. So never borrow money needlessly, but when you must, do as 150,000 servicemen do each year: See Household Finance!

Ask about credit life and disability insurance on loans at group rates

**LOANS UP TO \$300** —with up to 24 mos. to repay

**LOANS UP TO \$2000** —with up to 30 mos. to repay

Cash You Get	MONTHLY PAYMENT PLANS			
	6 paymts	12 paymts	18 paymts	24 paymts
\$ 50	\$ 9.23	\$ 5.02		
75	13.84	7.53	\$ 5.45	
100	18.46	10.05	7.27	\$ 5.90
200	36.92	20.09	14.54	11.81
300	55.09	29.87	21.54	17.42

Above payments include principal and interest. Life insurance is available at group rate on loans above \$100.

Cash You Get	MONTHLY PAYMENT PLANS		
	12 paymts	24 paymts	30 paymts
\$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

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



HUNTSVILLE OFFICE

706 Heart of Huntsville Shopping Ctr.  
PHONE: 539-4496

Hours: Mon., Tues., Wed., Fri. 9:30 to 5:30—Thurs. 11 to 8 P.M.  
Loans made to residents within a 100 mile radius

S. Army Depots.

The Stock Control Division was activated Oct. 1, 1964, with Howard G. Odell of Decatur, assigned as acting chief.

The TASAMS concept will be fully implemented by Feb. 1, 1965.

The Division will hold accountability for major items and supporting parts of missile materiel valued at approximately three-quarters of a billion dollars formerly accounted for by six U. S. Army depots.

Division employees include: L. E. Hughes, special assistant to Odell; Ralph French, chief, Supply Operations Branch; John Hann, chief, Materiel Utilization Branch; Robert VunKannon, chief, Data Bank and Control Branch; and Ralph Witherington, Carl Laney, Wesley Allen, W. D. Duncan, William Warren, Mrs. Elizabeth Nicholson, and Mrs. Helen Gant.

Employees recently transferred from other depots are: Arthur Ward, chief, Field Support Branch from Toole Army Depot; Frank Flash, chief, Stock Accounting Branch from Fort Worth Army Depot; William Konan from the Oversea Supply Agency, New York;

Taxpayers checking U. S. Savings Bond refund lines on the 1964 tax forms (1040 or 1040A) automatically assure themselves of two advantages: An easy method of holding onto their tax-refund dollars; a sure way of making them grow one-third larger at Bonds' maturity.

James Bowman from Erie Army Depot; and Robert Murphy, also from Tooele.

Dale P. Stockstill, formerly of Headquarters, U.S. Army Supply

and Maintenance Command, Washington, D.C., has been appointed accountable property officer for the Missile Command Field Service Account.

## Pre-Inventory Clearance

# SALE

NOW IN PROGRESS

Reductions Up to . . .

# 50%

Storewide Bargains!



the Town & Country SHOPPE

DOWNTOWN HUNTSVILLE



## Simplicity

In

## Styling For

## The Busy

## Working Girl

## Always Ready To Go.

PHONE 536-3941 or 536-0779

OPEN EVENINGS BY APPOINTMENT

PLENTY FREE PARKING — EXPERT STYLISTS

# GRADY'S BEAUTY SALON

"Corner Governors Drive and Seminole"  
2009 SEMINOLE DRIVE, SW



Downtown — Parkway City — Heart of Huntsville

# ANNUAL JANUARY CLEARANCES OF DISTINCTIVE MENSWEAR

# SALE

## Sport Shirts

Every Sport Shirt is from our regular stock of quality name brands and every one is priced to move during this event—You will find pure silks, banlons, Dacron-Cotton blends in all the handsome colors of this season.

- \$4.95 Values ..... NOW \$3.88
- \$5.95 to \$6.95 Values ..... NOW \$4.88
- \$7.95 to \$8.95 Values ..... NOW \$5.88

## Pajamas

Our complete stock of pajamas now reduced for this special clearance sale.

- \$3.95 Values ..... NOW \$2.88
- \$4.95 Values ..... NOW \$3.88
- \$5.95 - \$6.95 Values ..... NOW \$4.88
- \$7.95 - \$8.95 Values ..... NOW \$5.88

## Jackets

- Were \$10.95 ..... NOW \$7.88
- Were \$12.95 ..... NOW \$10.88
- Were \$29.95 ..... NOW \$19.88

## Hats

FELT & CASUAL

- \$11.95 Values ..... NOW \$8.88
- \$15.95 Values ..... NOW \$11.88
- \$19.95 Values ..... NOW \$14.88

## Dress Shirts

Our entire stock of Famous Brands — wash and wear—cotton dacron and cotton blends and all dacrons. Wide selection of collar styles and colors.

- \$4.50 Values ..... NOW \$3.58
- \$5.00 Values ..... NOW \$3.88
- \$5.98 Values ..... NOW \$4.88
- \$6.50 Values ..... NOW \$5.28
- \$7.95 Values ..... NOW \$6.58
- \$8.95 Values ..... NOW \$7.88

## Sweaters

- \$10.95 Values ..... NOW \$7.88
- \$12.95 Values ..... NOW \$10.88
- \$29.95 Values ..... NOW \$19.88

## Shoes

Nationally Advertised Brands

- \$15.95 Values ..... NOW \$12.88
- \$19.95 Values ..... NOW \$16.88
- \$21.95 Values ..... NOW \$17.88
- \$22.95 Values ..... NOW \$18.88
- \$23.95 Values ..... NOW \$19.88
- \$24.95 Values ..... NOW \$20.88

## Suits

You'll notice two things in particular about your Bill's suit. First, that its superb styling freshens up your whole appearance; and second, that everyone's eyes confirm this . . . constantly! Watch the men who shop Bill's.

- \$39.95 Values ..... NOW \$28.88
- \$49.95 Values ..... NOW \$38.88
- \$59.50 Values ..... NOW \$44.88
- \$69.50 Values ..... NOW \$54.88
- \$89.50 Values ..... NOW \$68.88

The above are examples of the Reductions in our Suit Department. You will find our regular price range is from \$39.95 to \$210.00.

## All Weather Coats

Most of these coats have zip-out lining to make them ideal for all-weather comfort.

- Were \$19.88 ..... NOW \$12.88
- Were \$24.95 ..... NOW \$19.88
- Were \$39.95 ..... NOW \$28.88
- Were \$49.50 ..... NOW \$39.88

## Sport Coats

For casual living and informal business wear there is nothing finer than our selection of quality crafted sport coats.

- \$29.95 Values ..... NOW \$19.88
- \$39.95 Values ..... NOW \$28.88
- \$49.95 Values ..... NOW \$38.88

## Slacks

- \$ 9.95 Value ..... NOW. \$ 6.88
- \$10.95 Value ..... NOW \$ 7.88
- \$11.95 Value ..... NOW \$ 8.88
- \$12.95 Value ..... NOW \$ 9.88
- \$13.95 Value ..... NOW \$ 9.88
- \$14.95 Value ..... NOW \$10.88
- \$15.95 Value ..... NOW \$11.88
- \$16.95 Value ..... NOW \$12.88
- \$17.95 Value ..... NOW \$13.88
- \$18.95 Value ..... NOW \$14.88
- \$19.95 Value ..... NOW \$14.88

This sale includes all of Bill's regular BRAND NAME MERCHANDISE. The price of every item has been reduced for clearance. Ties, socks, underwear, etc., are all on sale even though not listed here.

You are invited to come in tomorrow and take advantage of this event . . . and please feel free to expect all of Bill's regular services.



# READ THE WANT ADS! USE THE WANT ADS!

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.

## 1. For Rent

**FOR RENT**—modern 3-bedroom house in Arab, Ala. paved streets and sidewalks near school. Rent \$75.00 mo. Phone 536-4332 after 5 p.m. ttc

**FOR RENT**—1 bedroom furnished apartments conveniently located to arsenal. Reasonable rent. Phone 539-7421 or 534-0748. ttc

**FOR RENT**—Trailer space on Guntersville Lake 11 miles northeast Guntersville Highway 79. Call Guntersville 532-4702 or write Tanglewood Acres, Route 3, Scottsboro, Ala. for information. ttc

**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. ttc

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

**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. ttc

## 3. Miscellaneous

**MODERN HEALTH CLUB SERVICES**—Central Y.M.C.A., 203 South Greene St. is offering massages, turkish baths, electric heat, cabinets, ultra-violet and infra-red lamps, diathermy sun lamp, swimming pool. Graduate masseur in charge. Phone 534-2444. ttc

**I BUY OLD COINS**—Canadians, U. S. Coins, Proofsets, gold, complete collections. Darrell Sanders, Grand News Stand, Clinton Avenue, Phone 534-5412. ttc

**GWENN'S HEALTH SALON**, No 13 Traylor Island—Massage, Steam Bath, Reducing—Open 10 a.m. to 8 p.m. Experienced masseuses. For appointment, phone 534-9651. ttc

**ABS SECRETARIAL SERVICE**, 915-F Franklin St. SE (Franklin Center) Phone 534-6451 For: Photocopying, Mimeographing, Transcribing (Dictaphone) telephone answering Employment applications prepared (Government and other) Notary Public Our office or yours ttc

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

**PIANO REPAIRING**, tuning and refinishing over 12 years experience. Parris Piano Service. 907 Meridian St., Phone 539-2906 ttc

## NEW UHF CONVERTERS \$11.97

North Alabama's largest sales and service dealer for Zenith, RCA and Motorola TV and Stereo. Our prices are equal to or lower than advertised so called "discount or wholesale" prices. Price, then compare. Our merchandise is visually priced tagged at all times. We accept trade-ins. Used TVs sold for \$20 and up. We service all makes and models. Picture tubes, 21 in. 90 degrees, \$21.00 exchange with 1 year guarantee. TV rentals by day, week or month 1964 models. Open 8 a.m. to 9 p.m. daily.

**CENTRAL TV & STEREO CO.**  
Cor. Governor's Drive & Parkway  
Phone 536-9761

**LOST**—A ladies Hamilton watch with black band, believed lost in or near Bldg. 4488 or at Heart of Huntsville Mall Dec. 31, 1964, reward. Phone Mrs. Parker 534-7129 after 5 p.m. ttc

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

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

## 4. Mobile Homes

**FOR A NAME BRAND Mobile Home** come to Texas Auto Sales, 1003 Meridian St., next door to Ray-Piermon Mercury. \$2995.00. Payments as low as \$42.67 monthly. ttc

## 5. Houses, Lots - Sale

**FOR SALE**—3-bedroom house 2 baths, Den, garage \$88.50 mo 4205 Concord Road off Cloverdale 5 minutes to Arsenal. Phone 837-4802. ttc

**ADD-A-ROOM**  
WE FRAME IT!  
YOU FINISH IT!

Members of the National Home Builders Association.

**GEORGE WILLIAMS CONTRACTORS, INC.**

Your Specialist Andy Varnon  
Days 534-0677—Nights 536-3802

**MONEY**  
For  
**HOME LOANS**  
**FARM LOANS**

Ask for details on the low-cost long-term real estate loan plans now available.

• Also All Types of Insurance

**GATES**  
Insurance Agency  
303 Terry-Hutchens Bldg.  
Office Phone—534-0371  
Home Phone—534-6308

**SPORTS CARS**

WE HAVE THEM . . .

MOST POPULAR & BEST SELLING SPORTS CARS IN U. S. A.

- M.G.B. Prices start at \$2658. P.O.E.
- Austin Healey 3000 MK3
- Austin Healey Sprites
- M.G. Midgets
- M.G. 1100 Sedans

See Them At

**STOCKTON Motor Co.**

511 MERIDIAN ST., NO.  
PHONE 539-6587

**Sharp's Barber Shop**  
Located In Mall  
Holiday Plaza Shopping Center  
Cor. Jordan Ln And  
Bob Wallace  
Hours Mon.-Fri. 9 a.m. to 8 p.m.  
Sat. 8 a.m. to 7 p.m.  
Your Business Appreciated

**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.

852-0131

**WHEEL ALIGNMENT**  
**\$4.88**  
(With This Ad)  
Reg. \$6.50 Value)  
Fast Service - Expert Wheel Mechanic  
All Work Fully Guaranteed  
**U. S. TIRE SERVICE**  
Across From Butler High  
DIAL 539-3482  
Open 7 a.m. to 6 p.m.

**Allied Van Lines**  
WORLD'S LARGEST MOVER  
Local and Long Distance Moving  
FREE ESTIMATES Phone 539-1742  
**DECATUR TRANSFER & STORAGE, INC.**  
2117 Holmes Ave., NW  
**HERTZ RENTAL TRUCKS AVAILABLE MOVE YOURSELF**

3 Bedroom, 2 bath, 2 car carport, carpet & central air \$21,000.00  
3 Bedroom, 1½ bath, garage and central air .....\$17,000.00  
4 Bedroom, 2 bath, 2 car garage, 77x28 with central air \$19,000.00  
4 Bedroom, 2 bath, 2 car garage, 72x32 with central air.  
Several 2 and 3 Bedroom from \$7,500.00 to \$14,000.00  
Farms—\$75.00 to \$200.00 per acre.  
FHA and GI FINANCING

**ATHENS REAL ESTATE**  
310 W. Forrest Street — Athens, Alabama  
Phone 232 0444 — 232-5145 — 232-2729

**Mobile Home Lots FOR SALE**

**PINEHILL MOBILE ESTATES**

HURRY! ONLY A FEW CHOICE LOTS LEFT!

1. Located 7 Miles From Redstone Arsenal.
2. Large ¾ Acre Wooded Lots.
3. State Approved Community Water System.
4. Septic Tanks On Each Lot.
5. School Bus Service.
6. Garbage Pickup Available.
7. Beautiful Mountain View.

BUY FOR LESS THAN RENT—  
**\$150.00 Down**  
PAYMENTS AS LOW AS \$29.29

DIRECTIONS: Go south on Hwy. 231 past Tenn. river bridge, turn right on Hwy. 36, go 1 mile and turn left on first county road and follow signs.

**Call Bob Pritchett**  
Days — 539-7456

**6. Pets**

A K.C. BLACK Miniature Poodles champion blood line 8 weeks old, call 877-5358. ttc

---

**Typewriters APPROX. 300**  
Phone 881-5510  
8:30 to 5:30 ttc

**ARE YOU BUYING OR SELLING? MORTGAGE LOANS**

Maximum FHA and VA — Maximum Terms  
Conventional Loans 5½% - 5¾% — 25 Yr. Terms

**W. B. Leedy and Company, Inc.**  
401 Lowell Dr. Suite 6  
Huntsville, Alabama  
Phone 539-3404

**A HOME IS A HOME WHEN YOU BUY THE FINEST**  
—IN—

**UNIVERSITY MEADOWS**  
3 Bedrooms, 1½ Baths, Attached Garage or Carport. 100% G.I. OR MIN. DOWN F.H.A.  
**\$14,550 to \$15,900**

**OAKMONT**  
Only 14 left for Immediate Occupancy. 4 Bedrooms, 1½ & 2 Baths. Veterans move in for \$200.00 F.H.A. as Little as \$650.00  
**\$16,700 to \$19,500**

• THE BEST IN QUALITY

We sincerely dedicate ourselves to offer the best home for the least possible price. Our homes are regularly inspected at every construction stage by the Veterans Administration and are closely supervised to insure you, the Home-Owner, of a quality home.

**Hunter & Mitchell REALTORS — 539-1759**  
HOME PHONES  
Homer Edwards—536-7838 Noble Fowler—536-1867  
Jack Ivy—534-5377 Clarence Thrasher—534-2326

**1965 MODELS**

NOW IN STOCK!

●  
47 Ft. x 10 Ft.

Two bedrooms, front kitchen, Northern built, fully insulated. Hillcrest by Skyline Homes Corp.

**\$3395**

**\$295 Down — \$56.85 Per Mo.**

Above include delivery to your lot, light line, 2 Butane bottles filled, and completed service policy.

**JOY HOMES ON WHEELS**  
DIAL 536-7345  
Across From Parkway City  
2310 South Parkway

## MORE INSURANCE IS POSSIBILITY

World War II and Korean Conflict veterans in Alabama whose service-connected disabilities have not been adjudged severe enough to merit compensation payments, may still be eligible to purchase National Service Life Insurance when it goes on sale May 1, 1965.

Mr. Neil R. Smart, Manager of the Alabama VA Regional Office, said today that all veterans whose service-connected disabilities are rated at zero percent should contact the office to get complete information.

They may visit or write to the office at 474 South Court Street, Montgomery, or telephone 263-7521, extension 232, between the hours of 7:45 a.m., and 4:30 p.m., he said.

## Army Extends Deadline For Educational Loans

With only a small number of applications received the Department of the Army has extended the deadline for applying for U.S. Army Educational Assistance Loans in the program year of 1964-65 until 29 January.

Forty non-interest bearing loans for a four-year period are offered annually to eligible dependents of Army personnel on full-time active duty. The student may attend the college of his choice as long as it is an accredited institution and located within the United States.

The amount of the loan is based upon the financial need of the student as determined by the Na-

tional Merit Scholarship Corporation. Loans range from a minimum of \$250 to a maximum of \$1,500 per year. Repayment begins one year after leaving college and is made over an eight-year period.

### Eligibility Defined

Students who are dependents of Army military personnel and who have been notified by N.M.S.C. that they are commended students or semi-finalists are eligible to make application for an Army Educational Assistance Loan.

A commended student is one who is commended by the N.M.S.C. for scores attained on the qualifying test, but who is not selected as a semi-finalist. Semi-finalists are those students whose scores on the National Merit Scholarship Qualifying Tests are sufficiently high for them to be continued in competition for a Merit Scholarship after the first screening process.

Applications are available from all Army personnel offices.

### Mailing Instructions

Applications should be completed in duplicate with the original forwarded to National Merit Scholarship Corporation, 990 Grove Street, Evanston, Illinois 60201, ATTN: U.S. Army Educational Assistance Program, and the duplicate forwarded to the Adjutant General, Department of the Army, ATTN: AGPN-GO, Washington, D. C. 20315.

The Department of the Army emphasizes that the completion of a loan application is not a binding commitment. Making application merely establishes eligibility for a loan. A student can withdraw his application at any time or reject a loan if one is offered.

Also, beginning with the 1964-65 program year, the Army will sponsor scholarships to all eligible dependent students of Army personnel who are declared finalists in the Merit program. Last year only 40 scholarships were awarded out of approximately 117 finalists.

## Gen. Rich To Be Guest Of Reserve

Lt. Gen. Charles W. G. Rich, Commanding General of Third Army, will be the guest speaker a week from Saturday night at a dinner meeting of the Huntsville Chapter of the Reserve Officer's Association.

The meeting will be held in the Redstone Officers Club. Lt. Gen. John L. Edgar is president of the Huntsville Chapter.

Tickets may be purchased by calling J. V. Klima, 876-0264; Edgar at 876-7104 or Pete Reeding at 876-1410.

ENJOY "OK" USED CAR SAVINGS  
B-U-Y W-I-T-H  
WARRANTED CONFIDENCE  
HILL CHEVROLET CO.

## Procure Mites Bowl Way To Top

The Procure Mites bowled their way to first place in the Tuesday Night Officers League during the first half of the season, after winning 26 of the last 28 games.

Three members of the top team were individual winners. Capt. Richard T. McGovern won the series scratch with 581, and Lt. Col. Stanley W. Tyler took the series handicap with 639. Capt. Leonard L. Friesz finished first in the game handicap with 252.

Other teams placed in this order: Team Five, Managers, Circuit Breakers, Foul Bowlers and Defenders. The Procures won the

team series handicap with 2,541. Team Five won the team game handicap, scoring 870.

CWO Joseph Hopkins, bowling on Team Five, scored 237 to win first place in the individual game scratch.

The second half of the season at Redstone's Bowling Lanes starts on January 12. CWO Raymond Reier, secretary of the Tuesday Night Officers League, says new team and individual bowlers are needed and any officer interested should contact him at 877-4378.

HAPPY COMBINATION FOR HAPPY NEW YEAR—U. S. Savings Bonds! They combine guaranteed return, liquidity, safety, and a direct contribution to America's security and your own.



## Here's money to pay those bills

Write off that whole pile of bothersome bills . . . get a loan from us. Pay it back in monthly installments, easily budgeted out of income. Whatever your financial needs, you're sure of the right answer here . . . plus prompt, friendly and confidential service, always.

CONSOLIDATE YOUR BILLS—PAY ONE SMALL NOTE!

## Guardian Discount



PHONE 539-2787

1004 MERIDIAN ST., NO.

HUNTSVILLE

JANUARY IS . . .

## Station Wagon Month

● Higher Trade-in Allowances

NOW BEING OFFERED ON

## New 1965 Volkswagen Station Wagons

"NOW IS THE TIME TO BUY"

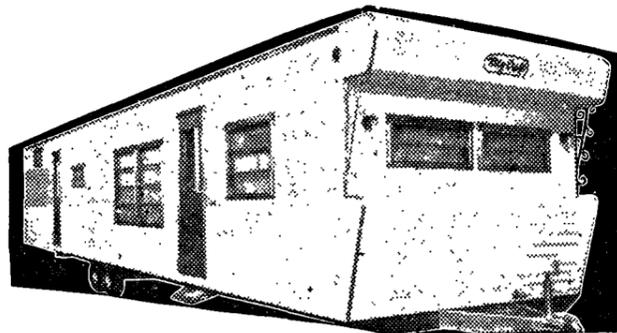
## Universal Motors, Inc.

2305 North Memorial Parkway

PHONE 539-7456



## NO DOWN PAYMENT



## On Mobile Homes . . .

Texas Mobile Home Sales Takes The Lead in Huntsville!

## CAN YOU QUALIFY?

You must be over 19 years old, married, steady employment and have a good credit rating.

We Have 8 Brands of Quality Mobile Homes

8 WIDES 10 WIDES 12 WIDES

Come See Us at Texas and Save . . .

## Texas Mobile Home Sales

1003 Meridian Street

Phone 536-6121

## Mid-Winter Service Specials

FIAT . . . . . Complete Tune-up \$5.99

PLUS PARTS

JEEP . . . . . Complete Tune-up \$6.99

PLUS PARTS

HAVE YOUR CAR READY TO GO IN ANY WEATHER!

"WE SERVICE ALL MAKES OF CARS"

## HOLIDAY MOTORS, INC.

"Your Authorized Fiat-Jeep Dealer Sales & Service"

701 OAKWOOD AVENUE

PHONE 536-2734

# PE Works Light Formula; It Pays To Turn 'Em Off

To turn the lights off or let 'em burn, which is cheaper? This is a question people have been asking almost since Thomas Edison invented the electric bulb in 1879.

Most people agree that regular incandescent lights should be turned off every time they're not in use. Today's controversy—detected by a sound of clicking switches, some on, some off—seems to be centered around fluorescent lights.

The Post Engineer's Office of the Army Missile Support Command at Redstone Arsenal has come up with its answer: Yes, it pays to turn off the lights.

Says Niles A. Prestage, Chief of the Post Engineer's Utilities Division, "Until recent years it did not pay to turn off fluorescent lights. However, it does pay now to turn off any light if for periods of an hour or more."

The Post Engineer's Office has a formula used in figuring whether it would be cheaper to leave a light on or turn it off. Among the factors are lamp wattage, the electricity rate, price of the lamp, labor cost for lamp replacement, average lamp life and length of burning time.

At Redstone, where TVA electricity costs six mills of a cent per kilowatt hour, it has been determined that the break-even point is approximately 20 minutes for the average fluorescent lamp. If a fluorescent light on the military post would be off less than 20 minutes, then it is cheaper to leave it on. However, if the light would be off more than 20 minutes, then it is best to flip the switch.

"Six mills may sound like a drop in the bucket," says Prestage, "but if you take into consideration the thousands upon thousands of fluorescent lights in use each day at Redstone, then it adds up to a lot over a period of time."

Explaining that it did not pay several years ago to turn off the cool, bright fluorescent lights,

Prestage says the change was brought about by lower-priced and better lamps. "With today's prices and longer lamp lives, most fluorescent systems can be treated the same as an incandescent system as far as 'turn them off or let them burn' is concerned," according to the engineering official, who is secretary of the Utilities Conservation Committee at the Arsenal. "You save dollars in power, increase the life of the lamp and reduce the cost of replacement."

The tubular electric lamps are coated on their inner surface with a fluorescent material known as phosphor and certain mercury vapor. When the light switch is flipped on, a starter in the end of the lamp starts an arc and the vapor is bombarded by electrons. This provides ultraviolet light, which in turn causes the phosphor to radiate the visible light close-

# Gober To Attend Manager's School

It's back to school for the Army Missile Command's Lewis L. Gober.

The Deputy Project Manager of the Mauler Missile System will report January 4th to Wright Patterson Air Force Base in Ohio where he will attend the Project Manager's School, sponsored by the Department of Defense.

The three-month school provides, among other things, guidance in missile management as well as orientation in the overall defense mission of DOD.

Filling in for Gober during his absence will be William J. Mill-

ly resembling daylight.

Back when it was better to leave a fluorescent light on than turn it off, Prestage explains, the switching on and off soon burned out the starter. Also, an added boost of electricity was needed to get the light glowing. Lamps didn't last long, either. Years of progress have made a difference.

# Col. Simpson Appointed Sheridan Project Manager

Col. Paul A. Simpson is now Project Manager for Sheridan. Before his present assignment he was director of Maintenance Operations in the Supply and Maintenance Directorate at the Missile Command.

The General Sheridan is a new lightweight, air transportable highly mobile armored reconnaissance vehicle armed with the Shillelagh weapon system which is managed by the Missile Command. Lt. Col. Robert M. Pearce is the Project Manager for the weapon system which uses both a guided missile and conventional ammunition. Shillelagh is suitable for both anti-tank and infantry support roles.

The General Sheridan vehicle possesses a high degree of cross country mobility, a swimming ca-

sap who is director of the Mauler Program Management Office.

Col. B. R. Luczak is Project Manager of the Mauler system.

pability, and a cruising range to permit independent operations at extended distances. It can be employed at night and under conditions of limited visibility.

Appointment of Col. Simpson to manage the vehicle project was made recently by Gen. Frank S. Besson, Jr., Commanding General of the U.S. Army Materiel Command.

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