

SURVEY REVEALS:

Traffic Increased With Opening Of Main Gate

If the traffic around Huntsville seems worse than most other places, it may be due to the fact that so many Redstone Arsenal employees have two cars in their garages.

An Arsenal commuter survey just completed shows that for every four employees there are five cars.

The survey was taken among nearly every member of the Army Missile Command, Marshall

Space Flight Center, Army Ordnance Guided Missile School and their contractors. It was conducted by the Army Missile Support Command, headed by Col. Thomas W. Cooke.

It turned up some highly interesting facts about the average Arsenal employee who finds a car nearly as essential to his job as a pair of shoes. Just about everyone that works on the Arsenal rides to and from in a passenger car.

By sifting the answers with a computer the traffic planners were able to draw a picture of the bottlenecks, the shifting patterns and the proliferation of Arsenal traffic.

But, most important, it pointed out where remedies could be applied to ease a few traffic headaches.

The survey listed the main access roads and asked the commuter to list the one which he

used. One of the greatest votes went to a road that didn't even exist a year ago. That's the new Martin Road extension tying into the Parkway and Whitesburg Drive.

Some 5,690 people said they came onto the Arsenal via the new Main Gate.

On the surface it looks as if the new gate had relieved a lot of other routes. But, such was not the case.

With the opening of the new gate the traffic at Gate 1 dropped only 20 cars and the traffic at Gates 5, 8 and 9 actually went up. The jockeying at Gates 2 and 3 dropped only slightly.

(See TRAFFIC on Page 3)

President Schedules Visit At White Sands

President Kennedy will visit White Sands Missile Range on 6 June during a tour of military installations in the west, according to a recent White House announcement.

The Commander-in-Chief saw the Army's missiles during his visit here last fall but as yet has seen only a few fired.

Indications are that many Army Missile Command systems will be demonstrated and fired for Mr. Kennedy and his official party during the visit to WSMR.

The Redstone Rocket

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VOL. XI; NO. 47

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

April 10, 1963

Sunrise Service Slated

Easter Sunrise services will be celebrated at Redstone Arsenal behind the Post Chapel at 6 a.m. Sunday morning.

Alvin H. Hopson, pastor of the First Baptist Church in Huntsville, will deliver the sermon.

Music will be sung by the Trinity Methodist Church Choir and played by the 55th Army Band.

The service, an annual event at Redstone Arsenal, is open to the public. It is sponsored by the Huntsville Ministerial Association, with the Arsenal Chaplain, Lt. Col. Wilmer R. Bottoms, the host.

The Chaplain has suggested that anyone who plans to attend the service use Gate 1, coming in from Huntsville on Jordan Lane which becomes Patton Road at the Arsenal perimeter. The Chapel is the first building on the left inside the gate.

Dr. Hopson is a native Texan who studied at Baylor University. He has been in Huntsville since 1953, and with the increase in church membership has guided the building program for a new structure on Highway 431, two blocks from the intersection of 231 to accommodate his congregation.

He is active in the Huntsville community as a member of the Huntsville Civic Orchestra Board, the Kiwanis, and Chamber of Commerce. He is also a member of the Executive Board of the Tennessee Baptist Convocation.

He earned his masters and doctorate of Theology at the Southern Seminary in Louisville, Ky.

ARSENAL SCOUTS PARTICIPATE IN COUNCIL EXHIBIT

The Tennessee Valley Council Boy Scout Exposition at the Ft. Raymond Jones Armory Friday and Saturday held five exhibits made by Redstone Arsenal Scouts.

Scout Troop 203 used marksmanship as the theme for their

(Photo on Page 7)

exhibit; 234 was centered around survival; and 308 showed packed frames and camp equipment which the Scouts made themselves.

Pack 234 displayed handcraft items the boys made; Pack 308 used Indian lore as a central theme.

All five units were awarded blue ribbons for their exhibits. Altogether, 148 Arsenal Scouts participated in the exposition.

Zeus Nails Titan Above Atmosphere



READY FOR EASTER—Captain George M. Houser, Army Missile Command Directorate of Missile Intelligence, and daughters Kim, 5, and Lisbeth, 2, stand on the hill behind the Redstone Post Chapel, under the crosses planted there permanently. This is the site of the Easter Sunrise Service to be sponsored jointly by the Redstone Arsenal Chaplain and the Huntsville Ministerial Association. The 55th Army Band and the Trinity Methodist Church will furnish the music. Dr. Alvin H. Hopson, pastor of the First Baptist Church of Huntsville, will deliver the sermon.

The Army's Nike Zeus anti-missile system successfully intercepted a re-entry target vehicle launched by a Titan intercontinental ballistic missile recently in another of a series of continuing development tests, the Department of Defense announced Thursday.

Nike Zeus was fired and controlled from the Army test installation, at the Pacific Missile Range, Kwajalein Island in the Southwest Pacific.

The Army said ground tracking equipment indicated that the target vehicle was within lethal radius of the Zeus operational warhead.

Neither the intercepting missile nor the target vehicle carried a nuclear warhead.

Ground distance from Kwajalein and the altitude at which the intercept took place were not disclosed.

The target vehicle was boosted to ICBM velocity on a 5,000 mile trajectory from Vandenberg Air Force Base, California, using a Titan I ICBM booster fired as a training exercise by a crew of the Strategic Air Command.

The intercept occurred outside of the atmosphere in the terminal portion of the trajectory.

The capability of intercepting single target vehicles launched by ICBM's under R&D conditions is a valuable aid to our understanding of the basic factors involved in problems in this field.

Knowledge gained in the continuing series of Nike Zeus intercept tests from Kwajalein will be of benefit to the Army in the development of the Nike X anti-missile missile system. The Nike X, an advanced version of the Nike Zeus system, will include advanced radar, the Nike Zeus missile for long range intercept and the high acceleration Sprint missile for short range intercept.

Testing of the Nike Zeus system using ICBM launched target vehicles will continue on the Pacific Missile Range.

Standard Time Adopted

The Army Missile Command and Marshall Space Flight Center will remain on Central Standard Time this year, acting in conjunction with the Huntsville-Madison County Community.

A joint announcement to this effect has been made by Brig. Gen. Howard P. Persons, Jr., Commanding General, Army Missile Command, and Dr. Wernher von Braun, Director of MSFC.

Federal Agencies in Washington, D. C., will adopt Daylight Savings Time at 2 a.m. Sunday, Apr. 28.

Pershing Tests Continue At The Cape

Firings Wednesday and Friday the past week again proved the Pershing missile's reliability under varying conditions.

The "Sunday punch" delivered Wednesday chalked up another successful flight from a sloped sandy surface at Cape Canaveral, Fla.

Friday's firing on a relatively long-range mission over the same range impacted a dummy warhead in a preselected target area.

Friday soldiers from A Battery,

2nd Missile Battalion (Pershing) 44th Artillery, Fort Sill, Okla., commanded by Lt. Col. P. W. Powers observed the simulated tactic-

al firing.

Prior to the test the Pershing system was given a 40 mile tactical cross-country march over secondary and hard surface roads. This was followed by a tactical type movement from Orlando to Cape Canaveral.

Friday's missile firing integrated (See PERSHING TESTS on Page 2)

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 876-4161.

All advertising copy and payments therefor are received by Mrs. Zillah T. Heath, Huntsville, Ala., P. O. Box 346, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wanted—is noon of Friday before publication. The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates for the Rocket are \$5.25 a year, or \$2.89 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Hartselle, Ala.

Rocket Ruminations

Business? It's quite simple. It's other people's money.
—Alexandre Dumas the Younger

Service Associations

The Association of the United States Army and the American Ordnance Association come to mind as two organizations which serve the Army and the Missile Command and its elements in many ways.

There are various professional organizations represented by Army personnel here at Redstone. Most of them are serving a definite purpose in their respective areas; but AUSA and AOA are two which concern us all and are open to membership for all personnel.

Membership applications for both AUSA and AOA are currently available. Annual membership in the AUSA is five dollars. AOA is offering a bargain for government membership at \$4.00, dues for one year.

Membership entitles one to receive a regularly scheduled publication from each organization. Both are high quality publications and contain many articles and stories of particular interest to personnel engaged in Army missile development.

It is significant that both AUSA and AOA provide a common ground for a meeting of the minds from government and American industry in connection with weapons development.

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PERSHING TESTS

(Continued From Page 1)

ed service test missions with development evaluation. Usually, service tests are performed after development firings.

Tactical ground support equipment was used to prepare, erect and fire the Army's highly mobile missile. The firing was monitored from the blockhouse, with the system programmer test station performing its tactical countdown functions.

The primary power pack supplied the power and pneumatic pressure necessary to erect the missile and run the countdown.

The Army said the missile fired as planned and that all test objectives were met. These included further evaluation of the missile's inertial guidance system, aerobalistics, and propulsion system.

The Pershing is designed to move overland on tracked vehicles, in helicopters, or in fixed wing aircraft. It is a selective range weapon for field Army support.

The Martin Company, Orlando Division, is prime contractor under the technical supervision of the U. S. Army Missile Command.

Also Friday a test model of the Pershing and a full set of tactical ground support equipment arrived at Orlando, from Alaska where it was used in extensive cold weather tests.

The environmental tests are being directed by Col. O. M. Hirsch, Pershing Project Manager at the Army Missile Command.

In the Martin Company's Orlando plant, the missile and its supporting equipment will be cleaned, repainted, and readied for a continuation of environmental tests at Ft. Sherman, Panama, C. Z.

The Army missile uses inert motors for the tests and cannot be fired.

The Pershing test equipment will be sent to Port Canaveral, in the next few weeks where it will be shipped on an Army vessel through Caribbean waterways to the Panama Canal Zone where it will be subjected to steaming hot weather humidity tests.

The environmental tests are designed to prove out the missile system's capability to operate in virtually any weather conditions or over rugged terrain.

Wednesday Pershing was fired off its mobile transporter-erector-launcher as it would be delivered to the firing site by its helicopter carrier in a simulated tactical firing.

Col. O. M. Hirsch, Pershing project manager, said data available immediately after the medium-range flight indicated all test objectives were achieved. Objectives included further evaluation of the missile's dummy warhead section, inertial guidance system, aerobalistics, and its two-stage solid fuel propulsion system.

The all-weather Pershing is designed for Field Army support. It has built-in selective range capability.

Pershing is designed to move in helicopters, overland in tracked vehicles, or in fixed wing aircraft. Components of the system can be lifted to the firing position by helicopters and assembled in that vicinity.

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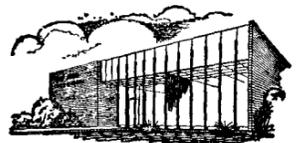
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TRAFFIC INCREASED

(Continued From Page 1)

Where did the extra traffic come from that suddenly began flowing through the Main Gate? That's still the subject of much head scratching.

Here is a table of traffic figures comparing the cars rolling out of most of the gates between 4 and 5 p.m. recently compared with the same time last July before the Martin Road extension was opened.

GATE	JULY 1962	RECENTLY
1	1,200	1,180
3	870	820
5	475	690
8	430	460
9	1,555	2,500

One point to keep in mind is that the survey accounted for people—not cars — that traveled through the gate. However, the figures given in the table above refers to cars.

The survey asked how many people shared their cars with other riders in car pools. This is another figure that may be surprising. The average is 1.5 persons per car pool. That means that an awful lot of Redstone workers come and go solo.

Officials estimate that some of the Arsenal's traffic headaches could be solved if more carpooling was done. It would not only cut down on the bulk of traffic, it would cut down on the acres of parking space needed to accommodate all the cars.

It would also get the vote of most traffic control MPs who do more arm waving during the rush hours than Leonard Bernstein conducting the New York Philharmonic.

Maybe the reason that Arsenal carpools are less than cozy is the fact that so many Arsenal workers own more than one car. There were 28,000 cars reported on the survey. Actually, the Missile Command Provost Marshal and MSFC have more than 38,000 vehicles registered.

In other words, if every employee tried to bring everything in the family garage in the same gate at the same time it would create a traffic jam 100 miles long—less a few yards for the people who scoot around in compacts.

The gate that sees the greatest number of personnel each day is a toss up between the Main Gate and Gate 9. A total of 5,581 people said they came in Gate 9 each morning, and 5,697 said they enter the Arsenal through the Main Gate.

One of these little mysteries cropped up when the respondents put down how they left the Arsenal at night. The figure jumped to 5,926 for Gate 9. Apparently 345 more people prefer to leave by Gate 9 than come in by it. It may have something to do with breaking the monotony by varying the routine—but the Arsenal's traffic experts think the real reason has something to do with traffic.

Gate 1, on the other hand, gets 3,588 people each morning, but on-

ly 3,380 at night. All other gates show nearly the same in and out figures. So, it seems that quite a few employees come in by Gate 1 and leave via Rideout Road and Gate 9.

The changeabout between Gates 9 and 1 may involve such things as congestion in the OGMS area when military personnel are getting off (they go to work earlier and don't affect morning traffic as much), the speedier traffic on Rideout Road and the Decatur Highway, and the heavy traffic from Gate 1 to Governors Drive.

Here is another table showing how the people polled indicated they entered and left the Arsenal.

GATE	IN	OUT
Main	5,697	5,680
1	3,588	3,380
2	2,596	2,524
3	2,495	2,453
5	1,055	1,076
7	1,637	1,630
8	353	333
9	5,581	5,926

What do all these people do with their cars once they get on the Arsenal? For one thing they have 247 miles of paved road and 37 miles of gravel road to drive on. When it comes to parking a motorist has 310 acres, 80 per cent of it paved.

By the way, when the motorist gets out of his car he has nearly 25 acres of paved sidewalks to keep him out of the mud.

One reason for the survey, and perhaps the most important one, is that the traffic conditions on and off the Arsenal are constantly changing. For one thing, the number of new cars registered on the Arsenal averages 45 per day. That's new registrations, not just transfers of tags.

According to Col. Cooke, many of the traffic routes outside the Arsenal are already overloaded. As the Arsenal workforce grows the situation stands to get worse.

He says that not only is the increasing number of vehicles creating problems, but also changing patterns of housing developments in Huntsville and outlying communities are shifting traffic from one route to another. The survey is the latest picture of what the currently popular routes are.

The survey questionnaire mentioned that plans were being formulated to extend Rideout Road to the north to connect with Winchester Road, and possibly U. S. 231 North on the northern edge of Huntsville. This plan was proposed by Col. Cooke. Other routes are also being considered in coordination with City and State. Among these are widening of Memorial Parkway through the center of town and Whitesburg Drive to Governors Drive.

Since the Arsenal lies south of Huntsville, employees living north and northeast of town face the worst traffic conditions. Access routes in these directions, therefore, are getting the most atten-

tion.

It is expected that transportation surveys of the Arsenal, Huntsville and Madison County will give a clearer picture of what overall remedies will be necessary to alleviate present and anticipated traffic problems.

About 95% of the 34,000 questionnaires distributed were filled out and returned.

The answers were processed by computer.

An interesting problem Col. Cooke's office ran into was that they made the questionnaire too good. Many people were inclined to keep it instead of turning it in because of the two fine maps it contained.

The principal map roughly followed the Arsenal boundary on the west and Huntsville city limits on the other sides. Its purpose was three-fold: to show which routes people living in outlying areas use to get to the immediate area of the Arsenal; how many Arsenal personnel live in each section of the city; and routes employees use to enter the Arsenal.

The heaviest traveled route outside the city is Highway 431 south toward Guntersville, Arab, Cullman, Hartselle, etc. A total of 1,492 employees said they came in that road each day.

One of the most surprising routes, in terms of number of people it handles, is the Martin Road extension west through Gate 7. This road connects with Highway 20 and absorbs employees from the vicinity of Athens, Decatur, Hartselle, Cullman, and as far away as Florence. Some 1,150 people said they used this access.

A note of caution here. While these southern routes show more people than the ones from the north, it doesn't mean that traffic in terms of congestion is worse along them. To the contrary, employees coming onto the Arsenal from outlying communities to the north must vie for breathing room with Huntsville city folks.

The other access routes according to the number of people they carry are: Hobbs Island Road, 713; U. S. Highway 72 West, 712; Memorial Parkway North, 631; U. S. Highway 72 East, 419; Winchester Road East, 283; Ardmore Highway, 213; Pulaski Pike, 151; and other

minor routes account for 461.

The city was broken down into 1 mile square blocks and each person was asked to indicate which block he lived in.

And, from all indications, nearly every employed person in the area comprising Holiday Homes, Belmont, Redstone Subdivision, Bon Aire, and the West Huntsville area around 7th, 8th and 9th Avenues wears an Arsenal badge.

This area has by far the largest Arsenal-employed population. A total of 956 persons said they lived in the area.

The second highest concentration of Arsenal employees per square mile fell in the Lakewood-Meadow Hills area just off Memorial Parkway in North Huntsville. Seven hundred and thirty-six of the answering employees said they lived there.

The number of Arsenal employees who live inside the Huntsville city limits is quite high. A total of 12,500 persons said they live in a 44 square mile area which lies almost entirely within the city.

This area is bounded roughly by Winchester Road on the north, the University of Alabama complex and Oakwood College on the west, Monte Sano on the east and Drake Avenue on the south with a two mile wide spur running down Memorial Parkway to Weatherly Road.

Wheels have already been set in motion to remedy some of the traffic problems pointed out by the survey.

Among these remedies are the widening programs for the Memorial Parkway and Whitesburg Drive mentioned before.

Plans are also being generated for a complete transportation survey of Huntsville, Madison County and the Arsenal. According to Federal law, counties with one or more municipalities with more than 50,000 population and cities with a population that great must have a complete transportation survey not later than January of 1965 in order to obtain further Federal or matching funds for roads.

Col. Cooke says the Arsenal has already obtained funds for a transportation survey, but this study will probably be held off until the time that the city and county commence their surveys in order to get a better coordinated overall picture.

Marshall Space Flight Center and Army Missile Command officials have been meeting with city and county representatives on the survey.

No matter what solutions come out of the studies, however, none will be quite so far fetched as one suggested by a harried motorist who proposed a speedboat shuttlebus up and down the Tennessee.

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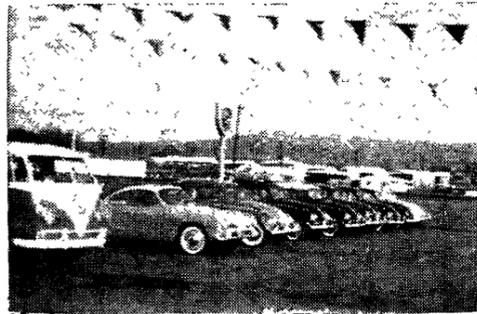
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Gardeners Install New Officers

The Redstone Arsenal Officers Wives Garden Club installed new officers and heard a talk on the care of lawns, shrubbery and roses by James H. Davenport at their meeting in the Squirrel Hill Officers Club last week.

New officers are Mrs. Edward Jamieson, president; Mrs. Ray H. Lee, vice-president; Mrs. James B. Cobb, secretary; Mrs. Peter Neilson, treasurer.

Outgoing president, Mrs. D. H. Mytinger received a gift of appreciation presented by Mrs. Spencer Ball on behalf of the club.

The next meeting is scheduled at 7:45 p.m. at the Squirrel Hill Club with Philip Brosemer, Post Horticulturist as the principal speaker.

Mrs. F. C. Atkinson, phone 877-4462, is taking reservations and announced that any prospective member is welcome.

Mrs. Mullins Wins At Party Bridge

Party bridge winners Thursday, sponsored by the Redstone Arsenal Officers Wives Club, were Mrs. J. D. Mullins, first; Mrs. J. R. Kingston, second; and Mrs. E. S. Schorsten, third.

Four tables were in play at last week's meeting. Mrs. B. J. Robinson is handling reservations to play with the Group at 10 a.m. Thursdays. Her phone number is 877-4347.

TOASTMISTRESSES HEAR PANEL ON "WHAT'S NEWS"

A panel of experts on "What Makes News" presented their views and answered questions for the Huntsville Toastmistress Club during a dinner meeting at The Plantation last week.

Moderator for the panel was Fred Eiland of the Information Office at the Army Missile Command. Panel members included Alex Thomas, managing editor of the Huntsville Times; J. A. Higdon, general manager of WAFG-TV; Glenn Slayton, announcer on WFIX radio; and Mark Stevens, WAAY radio.

Mrs. G. W. Warren served as toastmistress of the evening. Mrs. R. P. Hearn welcomed 28 guests—all representing clubs in the Huntsville area.

The Toastmasters, Rotaryans, Decala Toastmistress of Decatur, Huntsville Business and Professional Women, the Civic Club Council, Huntsville Little Theater, the Pilot Club, Altrusa Club, Rocket City Toastmistresses and the Disabled American Veterans were all represented.

SOCIAL and CLUB EVENTS

INSTRUMENTATION EXHIBIT TO BE ON APRIL 17-18

Huntsville Section of the Instrument Society of America will be host to Army, Industry and the National Aeronautics and Space Administration Apr. 17-18 at the Ft. Raymond Jones Armory where instrumentation will be on exhibit.

The Army's Lacrosse and Hawk missiles will be among the exhibits.

Meals and technical talks will be presented at the Sahara Motel Restaurant and the American Legion Post No. 37.

Robert H. Coleman will be chairman for the meetings at which papers will be presented between 8:30 a.m. and 11:45 a.m. at the Sahara.

Harlan S. Harman will be chairman for the groups meeting at the American Legion Post No. 37.

Environmental Science Group Plans New Chapter

An organizational meeting for a Huntsville chapter of the Institute of Environmental Sciences will be held at the Sahara Motel restaurant at 7 p.m. tomorrow night.

For a charter, the group needs a membership of 25. Herbert R. Kelly, 876-2481 has full information about the group.

Anyone unable to contact Kelly can make reservations for dinner at the Sahara receptionist desk by noon.

Births at Post Hospital

Connie Elaine Neal, 4 lbs., 11½ ozs., Mar. 27, daughter of Sp5 and Mrs. Hubert F. Neal.

Cheryl Ann Siler, 6 lbs., 6½ ozs., Apr. 1, daughter of Pfc and Mrs. Lawrence C. Siler.

Johnna Kay Ward, 7 lbs., 3 ozs., Apr. 1, daughter of Sgt. and Mrs. John A. Ward.

Melinda Dianna Marler, 7 lbs., 11¼ ozs., Apr. 1, daughter of Sp5 and Mrs. Donald C. Marler.

Sandra Renaye Crutcher, 6 lbs., 10¾ ozs., Apr. 2, daughter of Sp4 and Mrs. Sam D. Crutcher.

Tina Renaye Gentry, 6 lbs., 6¼ ozs., Apr. 2, daughter of SSgt. and Mrs. Ray O. Gentry.

Michael Foster Davis, 7 lbs., 0 ozs., Apr. 2, son of Pfc and Mrs. Charles F. Davis.

Tami Kaye Corkrin, 6 lbs., 1¼ ozs., and Toni Gaye Corkrin, 6 lbs., 8¼ ozs., Apr. 3, daughters of Sp4 and Mrs. Clay W. Corkrin.

SOJOURNERS WILL ENTERTAIN PAST MASTERS FRIDAY

A social hour and dinner meeting of Redstone Chapter No. 353, of the National Sojourners honoring Past Masters of the area Masonic Blue Lodges, is planned for Friday night, April 12.

Penson R. Graham, Most Worshipful Grand Master of the Grand Lodge, Free and Accepted Masons of Alabama, is guest of honor.

The social hour will begin at 6:30 p.m. in the Rocket Room of the Redstone Arsenal Officer's Club. For reservations call Capt. Ernest Schick, 876-0667 or CWO Paul Barclift, 877-3547.

Reserves Will Hear Col. William Graham

Col. William Graham, Liaison officer from the United Kingdom to the Army Missile Command, will speak to the Huntsville Chapter of the Reserve Officers Association of the United States at the Russel Erskine Hotel on Apr. 19.

Joe Hinesley, Army Reserve; Pete Redding, Army Reserve; and Bill Howard, Navy Reserve are handling reservations for the meeting which is open to wives and dates.

Social hour is scheduled at 6:30 p.m. with dinner at 7:30.

BRIGHT ATTENDS VALUE SEMINAR

Net savings of 56 per cent were credited to a value engineering team headed by an Army Missile Command delegate to a recent Value Engineering Seminar conducted at the California plant of General Dynamics-Pomona.

William J. Bright, of the Procurement and Production Directorate, captained one of the five-man teams that were named to study selected missile hardware items during the workshop session.

Another Missile Command representative to the Seminar, George R. Bailey, of the Mauler Project Office, was a member of a team that also reported savings in excess of 50 per cent in a study.

This was the 24th Value Engineering Seminar conducted by

the General Dynamics-Pomona staff and coordinated for the Army Weapon Systems contractors, vendors and Government representatives.

Periods of instruction covered a broad area of interest. These included: The Value Engineering Job Plan; Roadblocks, Habits and Attitudes; Definition of Value; Blast, Create and Refine; and Cost Targets.

Gen. Barclay Will Speak To Engineers

Maj. Gen. John A. Barclay (ret.) will address the Northeast Alabama Chapter of the Alabama Society of Professional Engineers Thursday at a dinner meeting in the Southern Cafeteria.

Dinner begins at 7 p.m. Gen. Barclay's topic is "The Changing Role of the Engineer."

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SPRING FASHION SHOW SCHEDULED AT POST SERVICE CLUB
SP5 George Malliet and Mrs. Dorothy Dawin will model the latest in Spring and Summer fashions for ladies and gentlemen on April 10 at 8:15 p.m. All Military personnel, families and guests are invited to attend.

At the Service Club

By: Brenda Hanson

EASTER . . . The very word brings to mind lilies, quiet sunny mornings, sunrise services, children in bright spring clothing, colored eggs scattered all over the countryside by thoughtful bunnies. In this Easter season, take a moment out every now and then and drop by the club. Easter week offers a variety of programs well suited for a quiet morning, a sunny afternoon, or an entertaining evening.

Today is the day we have been waiting for. . . the Spring Fashion Show. We open the season with models of the latest spring fashions for ladies and mens apparel. Marja's models will show Spring and Summer fashions, and will also model bathing suits. Male models include George Maillett, Tom Patterson, Art Kalin, Jim Dutton and David Izen. Door prizes will be awarded. Don't forget. So we'll look for you tonight at 8 p.m.

Thursday night, the weekly dance class will meet in the main lounge at 7:00 o'clock.

Friday night, the small lounge is reserved for card players at 7:30 p.m. The lounge should be filled with smoke when these players take over the cards and tables filling the lounge.

Then Saturday night is the night for the "Bunny Hop." We will dance Saturday night rather than Sunday night. The "Highboys" will play for the Bunny Hop. The Highboys recorded "Mist of Blue" heard frequently over radio. Dance schedule is 8-11 p.m.

Sunday, "Coffee Call" is 9 a.m. Betty will serve coffee and donuts. Main feature in the evening is an ice cream supper at 8 p.m. Come prepared to crank a freezer, because you may draw the short straw.

Monday night, the Main Lounge, will be set up for game night. Games begin at 8:15 p.m. Two grand prizes are to be awarded.

Miscellaneous

For a run-down of events and happenings at the Service Club, keep an eye on this column for the announcement of the winners of the All-Army Entertainment Contest. These winners will represent Redstone Arsenal at Fort Bragg, N. C.

The winners of the recent Ping Pong Contest were S/Sgt Yves Moello of 3rd ETC first place and PFC Raymond Hebert of 1st ETC second place. Congratulations to both of you.

Until then, we'll see you at the Service Club.

Brenda

Religious Services

HOLY WEEK SCHEDULE OF SERVICES

PROTESTANT: POST CHAPEL
Maundy Thursday — Apr. 11—7 p.m. Special Vigil Communion Service.

Good Friday—Apr. 12 — 1200-1330 hrs.

Observance of Christ's Crucifixion. This will be in three periods: 12:00-12:55; 12:30-12:55; and 1-1:25 p.m. People may participate for brief periods and depart.

Easter—Apr. 14:
10 a.m., 11:15 a.m. and 7 p.m.—Post Chapel Services.

11:00 a.m. and 7:00 p.m.—Regular Redstone Park Services.

EASTER SUNRISE SERVICE
APR. 14

The 6 a.m. Service will be behind the Redstone Arsenal Post Chapel.

CATHOLIC—POST CHAPEL
MASS ON MONDAY, TUESDAY AND WEDNESDAY WILL BE AT 11:45 A.M.

HOLY THURSDAY: Mass at 11:15 a.m. and 5 p.m. The solemn commemoration of the Last Supper

Easter Bunny Plans Visit

The Easter Bunny will leave his eggs for hunting at the Post Nursery Saturday — including the golden egg which wins another prize for the lucky member of each age group who finds it.

The most eggs found also wins a prize. The event will be at the Post Service Club if it rains.

Transportation is furnishing two busses from Redstone Park Community House at 12:45 p.m.; and one each from Ripley, Bomford, Wadsworth, Wesson, Skinner and Simpson at 12:45 p.m., from Huges Drive at 1:05 p.m.; at 12:45 p.m. from Dyer, Niblo, Roberts and Crowell and Buffington and Hof; and at 1:05 p.m. from Nike and Jupiter.

will begin at 5 p.m.
GOOD FRIDAY: Stations of the Cross at 5 p.m. followed by the Communion of the Passion.

HOLY SATURDAY: The Easter Vigil will begin with the blessing of the new fire and the Easter Candle at 7 p.m. and close with the Mass of the Resurrection at 8 p.m.

CONFESSIONS DURING HOLY WEEK: Confessions will be heard on Tuesday, Wednesday, Thursday and Friday at 7 p.m.

On Saturday, Confessions will be heard from 2:00-4:00 p.m.

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Sports By Lambert

By SFC Lambert

A recent double elimination Handball Tournament held at the Work-out Facility with 25 officers and Enlisted men competing proved a stiff competition which resulted in games won or lost by one or two points. In the semi-final, Capt. H. D. Verry faced S. Sgt. Irving Lyles in the no loss bracket.

Sgt. Lyles emerged the victor. Capt. Verry moved into the one loss bracket to meet Maj Phillip Burleson and won the first encounter. However, Maj. Burleson came out on top after a grueling match, putting him in the final game with Sgt. Lyles as the opponent.

A fine display of ability by both players made an excellent close to the Tournament. Sgt. Lyles won. The only disappointment to the Tournament was the limited spectator space. Many feel that a gallery promotes more interest.

The emphasis placed on physical fitness these past few months has done much to increase the use of the Special Services Work out Facility. Units have been releasing men in small groups to get two and a half hours of physical training there. Weights and handball seem to be the most popular form of exercise.

Women are using the work-out facility to keep slim and trim. Wednesday is set aside as ladies day. The vibrating machine, the bicycle and rowing machine get the most use from the women.

Several new pieces of equipment have been added to the work-out room. A prone press bench, a whirlpool, a heavy punching bag, new handball gloves, striking gloves, a striking bag and several new tennis rackets.

The Sports Branch is now under the supervision of S/Sgt. Lyles.

Bowling

THURSDAY MORNING LADIES

Team	Won	Lost
Off 'N' On	65	39
Hit 'N' Misses	56½	47½
Misfits	45½	58½
Up 'N' Down	41	63

SCHOOL TROOP COMMAND

Team	Won	Lost
Deuces	79	25
Electrons	77	27
Aces	69½	34½
Strikes	49	55
Ten Pins	43	61
Spares	37	67

Final Standing

RSA OFFICERS

Team	Won	Lost
Slowburners	81	31
Robes	70	42
Bandits	59	53
Spoilers	54½	57½
Medico No. 5	36	75
Alleycats	35½	75½

OFFICERS MIXED DOUBLES

Team	Won	Lost
Bowl Weevils	136	98
D-Yanks	132	102
Bombers	128½	105½
Pin Droppers	123	111
Redstones	115½	118½
D-Doms	107	127
Baby Splits	104	130

OFFICERS WIVES LEAGUE

Team	Won	Lost
Merry Mrs.	61	35
Jumpin Jacks	58	38
Alley Cats	49½	46½
Hi Fr's	48½	47½
Team No. 8	46	50
E-Z Rollers	44½	51½
Gamblers	40½	55½
Happy Bowlers	36	60

EM MIXED

Team	Won	Lost
Kirby & McClure	73	72
Bennett & Fisher	63	61
Belt & Ryan	59½	56½
Hartwell & Hyde	57	53
Cooley & Chervanik	56½	53½
Foster & Krieger	53	52
Jones & Maier	45½	43½
Louis & Mounce	41½	41½

Final Standing

Rain Swamps Soccer Meet

More than an inch of rain on Saturday forced cancellation of the international soccer tournament at the Army Ordnance Guided Missile School here, but the two German Air Force and Army and the Belgium Army teams won informal matches against Georgia Tech and Auburn.

The Air University team flew in from Montgomery Saturday morning but were forced to return immediately when weather reports indicated their home field was closing in. Several of the members of the Squadron Officers School team were to graduate Saturday afternoon.

The German Beta team defeated Auburn in a soggy match played on the Linton Field soccer ground. S. Sgt. Hans-Joachim Oestreich and Pfc August Hagel scored for the Germans in the 2-1 match.

Transferring play to the east end of the drier Parade Grounds, the German Alpha team eked out a 3-2 win over Georgia Tech in an afternoon game played under

OGMS OFFICERS

Team	Won	Lost
Researchers	60	36
ADM	56	40
OTD	51½	44½
Bohunks	49	47
UTC Topplers	42	54
Commoners	29½	66½

TROOP COMMAND EM

Team	Won	Lost
Raiders	69	31
Ohms	63½	36½
S&E's	62	38
Rats	57	43
Jockeys	49½	50½
Curvals	49	51

SATURN BOOSTERS BOWLING LEAGUE A-DIVISION

Team	Won	Lost
Brown Engr Co.	73½	42½
Norris Riddle Furn.	68½	49½
Martin Co.	64	52
Arrow Head Prod.	59	57
Redstone Mach. & Tool	57	58
Hilding Holmberg	56	60
Tenn. Valley Oxy.	56	60
Republic Aviation	50½	65½
Pushovers	49	67
Huntsville Trailer	48	68
200 Games: Mays — 226; Cizer — 204; Mosser — 203; Majors — 224; Vickers — 204; Keeton — 202; King — 214; McKenzie — 204; Davis — 212; Clark — 203.		

B-DIVISION

Team	Won	Lost
Redstone Federal Credit Union	68½	47½
Lockheed	68	48
Tri-Lanes	66	50
Murphree Mrt.	64½	51½
Modern Mach.	60	56
Hayes Top Seven	60	56
C. W. Stewart Machy.	54½	60½
Progressive Welder	53	63
Hayes Designers	45	71
Hayes Excons	40½	75½

Sports Car Buffs

By Doug Mote

The big news this week is the Twickenham Auto Club's (TAC) Economy Run. The event was conducted Sunday, Mar. 31. Twenty two entries were on hand. The entrants drove everything from a 1903 Locomobile to a 1963 Chrysler over the scenic 100 mile course.

When the dust cleared, Pete Walden of Florence had milked 51.54 miles per gallon out of his MGA for the first place trophy. Frank Burnett drove a Model A Ford to first in the classic class with 41.33 M.P.G.

Webb Mayfield of the Army Missile Command carried 500 pounds of cement as a navigator in his Jaguar and walked away with first in the Ton/Miles Per

intermittent showers. SFC Juergen Dahlke, Sgt. Seigfried Schroeder and Sgt. Hubert Geilen scored for the Germans. Later the Belgian Army defeated Auburn 1-0.

Dr. Paul G. Mayer, a member of the Georgia Tech faculty, accompanied the Engineers and worked out tentative arrangements for a return match between the two teams in the near future.

Plans are under way for the formation of a soccer conference with a regular schedule of games. Teams have now been formed at St. Bernard College in Cullman; Shorter and Berry Colleges in Rome, Ga.; Georgia Tech and Emory University in Atlanta; Lagrange College in Lagrange, Ga.; and Andrew and West Georgia Colleges in Cuthbert and Carrolton, Ga.; Auburn University and the Air University in the Montgomery area.

The German Tech and Auburn teams at a dinner at the NCO Club here on Saturday evening.

Gallon class with 75.14 TMPG. Webb also headlines the coming events calendar. He is Rallye Master for the ninth running of the Monte Sano Rallye Apr. 20-21. The Monte Sano is the oldest local sports car event and is jointly sponsored by TAC and TVR-SCCA.

Headquarters will be the Albert Pick Motel. Webb is hoping for a large local turnout to give out-of-towners a run for their money.

Activities begin at 1 p.m. Saturday, Apr. 20, at the Albert Pick. TAC will meet in regular session at the Pin Palace Apr. 18. Dinner will be served at 6:30. business begins at 7:30. Anyone interested in safe motor sports, come join us. For further information about TAC, contact Gene Salyer, 546-4092 (home); Peggy Neal, 534-6973 (home) or Doug Mote 534-6537 (home). Whether you have a big car, little car, other car, or sports car; you are welcome at TAC.

April 8, 1949 — U. S., Britain, and France agreed on the merger of their zones in Western Germany resulting in establishment of the German republic.



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CONGRESSMEN VISIT MISSILE COMMAND—Three Congressmen, members of the House Armed Forces Committee, saw components of missile guidance systems during a recent tour of the Army Missile Command Research and Development Laboratories. Shown looking over gyroscopes in the Guidance and Control Laboratory are, left to right: Congressman Melvin Price (D-Ill.); John McDaniel, Acting Director of Army Missile Command's Directorate of Research and Development; Congressman Richard E. Lankford (D-Md.); H. D. Van Kuren, Chief of Installations and Services Construction Division, Army Materiel Command; Brig. Gen. H. P. Persons, Jr., Commanding General, Army Missile Command. Not shown is Congressman Charles S. Gubser (R-Calif.).



MARKSMANSHIP EXHIBIT—Redstone Arsenal Boy Scout Troop 203 was one of five units represented at the Tennessee Valley Council Boy Scout Exposition Friday and Saturday at the Ft. Raymond Jones Armory in Huntsville. Left to right are: Dick Smith, Glenn Bass, SFC Sydney Underwood, Billy Katz, and SFC William Laynor. The sergeants are Scout leaders.

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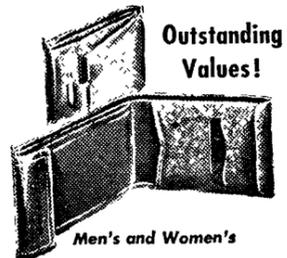
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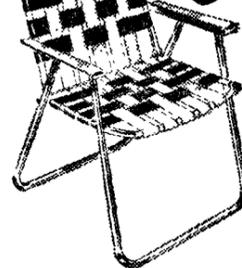
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GERMAN AF OFFICERS COMMENDED AT OGMS—Colonel William J. Macpherson (left), commandant at the U. S. Army Ordnance Guided Missile School presents USAOGMS Certificates of Achievement to Lts. Heinz Werner Rahns and Horst Adomeit, commanders of the first two German Air Force Hawk units to finish formal training at the Missile School. Lt. Col. Dr. John Heinrich Hellmers, German AF Liaison Officer to the school looks on.

GERMAN UNITS END TRAINING

West Germany last Friday received her first Air Force units



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trained to maintain the powerful Hawk air defense missile.

Col. William J. Macpherson, commandant of the U. S. Army Ordnance Guided Missile School here, turned the two Hawk units over to Col. Karl Goetze, chief of German air defense missile training in this country in a formal ceremony at Redstone Arsenal.

The pioneer German units are headed by 1st Lts. Heinz-Werner Rahns of Rischenau and Horst Adomeit of Hildesheim. They have been training here for more than a year and will now join a German artillery battalion training at Fort Bliss in El Paso, Texas.

The Hawk is a supersonic missile that can intercept targets from treetop level to altitudes of several miles, using a special homing device. It has been adopted as a standard weapon by the 15 nations of the North Atlantic Treaty Organization and is being manufactured in Europe.

Earlier, Col. Goetze addressed an international class of 38 missile men completing courses on several weapons. Graduates in-

Defense Transportation Group To Be Hosts To Mayors, Civil Defense

Mayors and Civil Defense officials of Huntsville and neighboring communities have been invited to

attend a special program planned for the next meeting of the National Defense Transportation Association's local chapter.

Charles Brooks, member of the state Public Service Commission and Civil Defense emergency transportation officer for the state, will present a program on Civil Defense.

His presentation will include a new film, "Community Protection Through Civil Defense." The Chapter meeting will be in the Elks Club on Madison St. at 7 p.m., April 18.

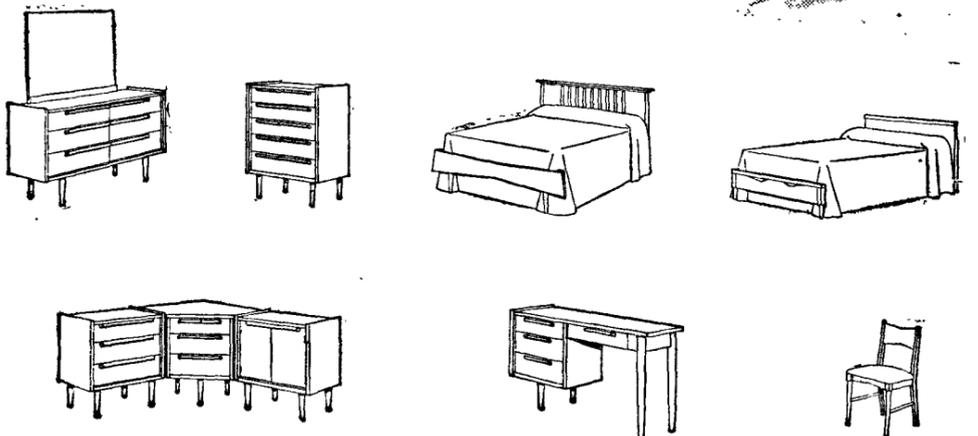
The German officer emphasized his country's determination to meet all its military commitments for the defense of free Europe.

Mayors R. B. Searcy of Huntsville, Mayor Arthur Stewart of Athens and Mayor J. Gilmer Blackburn of Decatur.

Also asked to attend as the chapter's guests were Col. Harris T. Mitchell, Howard Proctor and Ransom Crawford, Civil Defense coordinators respectively for Huntsville-Madison County; Decatur-Morgan County and Athens-Limestone County.

Col. R. M. Allgeier, in charge of Civil Defense-type planning for Redstone Arsenal, also has been asked to be present.

A. B. Green, chapter president, said invitations had been sent to



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Barbara B. Traylor, Secretary (Typing), Directorate of Proc. & Prod.;
Robert G. Cofield, Stock Control Clerk, Consolidated Supply

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OUTSTANDING PERFORMANCE
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Russell Brown, Maint. & Gen.

Fmn. Asst., Post Engineer;
Alvin L. Lang, Program Budget Officer, Control Office.
SUSTAINED SUPERIOR PERFORMANCE
Freida A. Rice, Secretary (Steno), Office of Chief Scientist;
Elsie D. Blair, Secretary (Typing), Directorate of Proc. & Prod.;
Helen F. Hubbard, Secretary (Steno), SERGEANT Project Office;
Lucille B. Sheats, Secretary (Steno), HERCULES Project Manager;
Patty S. Williams, Secretary (Steno), Office of Deputy CG, ADS;
Wanda H. Sharp, Secretary (Steno), Safety Division.

Awards and Decorations

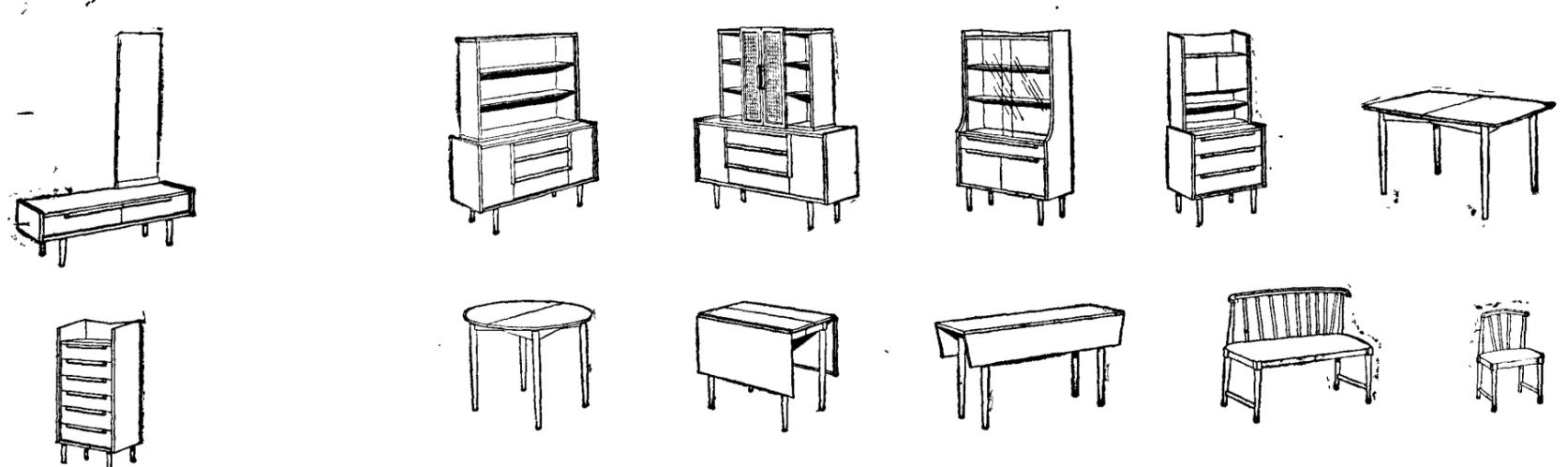
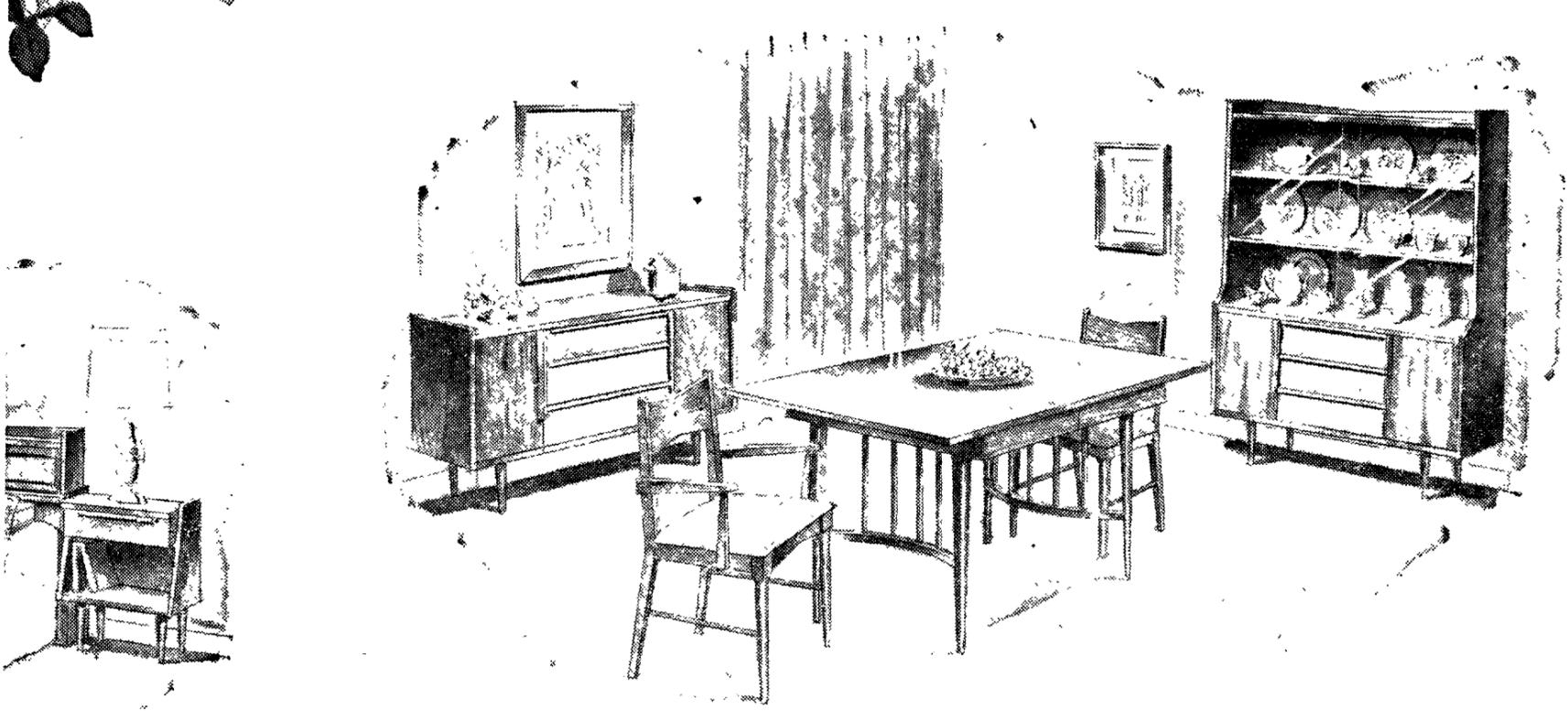
The Army has awarded Commendation Medals to the following:
 First Lt. Clyde L. Ware, Jr., Pershing Project Manager's Office, received a certificate of achievement.
 Lt. Col. Henry E. Attaya, Jr., Directorate of Research and Development;

Lt. Col. Melvin L. Kirchhofer, Post Dental Surgeon;
 Lt. Col. Stanley L. Nyhan, Army Missile Support Command, assistant for personnel and administration;
 Capt. William D. Burroughs, Army Missile Support Command, Troop Command;
 M/Sgt. Wesley O. Hemphill, Hercules Project Office, earned Medal with 196th Ordnance Det., Germany, 1960-62.



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CERTIFICATES OF ACHIEVEMENT—(Left to right): Horace R. Lowers, Chief Engineer at the Army Missile Command; Brig. Gen. Howard P. Persons, Jr., Commanding General; and William F. Otto discuss the Certificates of Achievement awarded Lowers and Otto at the recommendation of the Department of the Army. Lowers had been recommended for the Rockefeller Public Service Award last year; Otto for the DA Research and Development Award. Both were considered at Army level and were recommended for the highest award presented locally.



ZERO DEFECTS IS AIM—Quality Assurance and Reliability members of the National Security Industrial Association spent last week studying the Army Missile Command's programs in this field to evaluate the management and report to the Commanding General of the Army Materiel Command, Lt. Gen. Frank S. Besson. Heading the investigations for missiles Quality Assurance and Reliability was A. McMaster (center), Director of Reliability and Quality Control, Pomona Division, General Dynamics. With him are Horace R. Lowers (left), Chief Scientist at the Army Missile Command and Kenneth E. Joy, Chief, Quality Assurance Division, Directorate of Production and Procurement. They are holding "Zero Defects Pins."

Missile Command Scientists Awarded Certificates Of Achievement By CG

Two Army Missile Command scientists have been awarded Certificates of Achievement by Brig. Gen. H. P. Persons, Jr., Commanding General. One was for achievement in Army research and development, the second for public service.

William F. Otto was cited for successfully establishing the feasibility of automatic command guidance for infantry type anti-tank weapons.

He is an electronic engineer in the Missile Command's Electromagnetics Laboratory of the Research and Development Direc-

torate. Otto's development was forwarded to the Department of Army for consideration for the Army Research and Development Award.

Horace R. Lowers was nominated for the Rockefeller Public Service Award in 1962. His recommendation also reached the top level for consideration.

Lowers is the Chief Engineer for the Army Missile Command, and in this capacity advises the Commanding General in developing programs of outstanding difficulty, responsibility and national significance in the missile, rocket and related fields.

Otto graduated from Ohio State University and took graduate work at the University of Alabama. Lowers taught at Ohio State after graduating from Clarkson College and taking graduate studies at George Washington University. He also attended the Industrial College of the Armed Forces and completed the Weapons Orientation Advanced course at Sandia Base, New Mexico.

Two others received nominations for these awards and will receive certificates of achievement: John

L. Tidd for the Research and Development Achievement Award and James E. Norman for the Rockefeller Public Service Award. Both have since transferred to other government agencies.



PRESENTS AWARD—Col. R. W. Van Wert, (right) Director, Supply and Maintenance Directorate, Army Missile Command, recently presented the Technical Publications Excellence Award to S/Sgt. R. C. Waller. Sgt. Waller is with the Air Defense School, Air Defense Combat Development Agency, Fort Bliss, Texas. The award was for outstanding contributions to the preparation of technical publications. He is the first military man to receive the award outside of the Army Missile Command.

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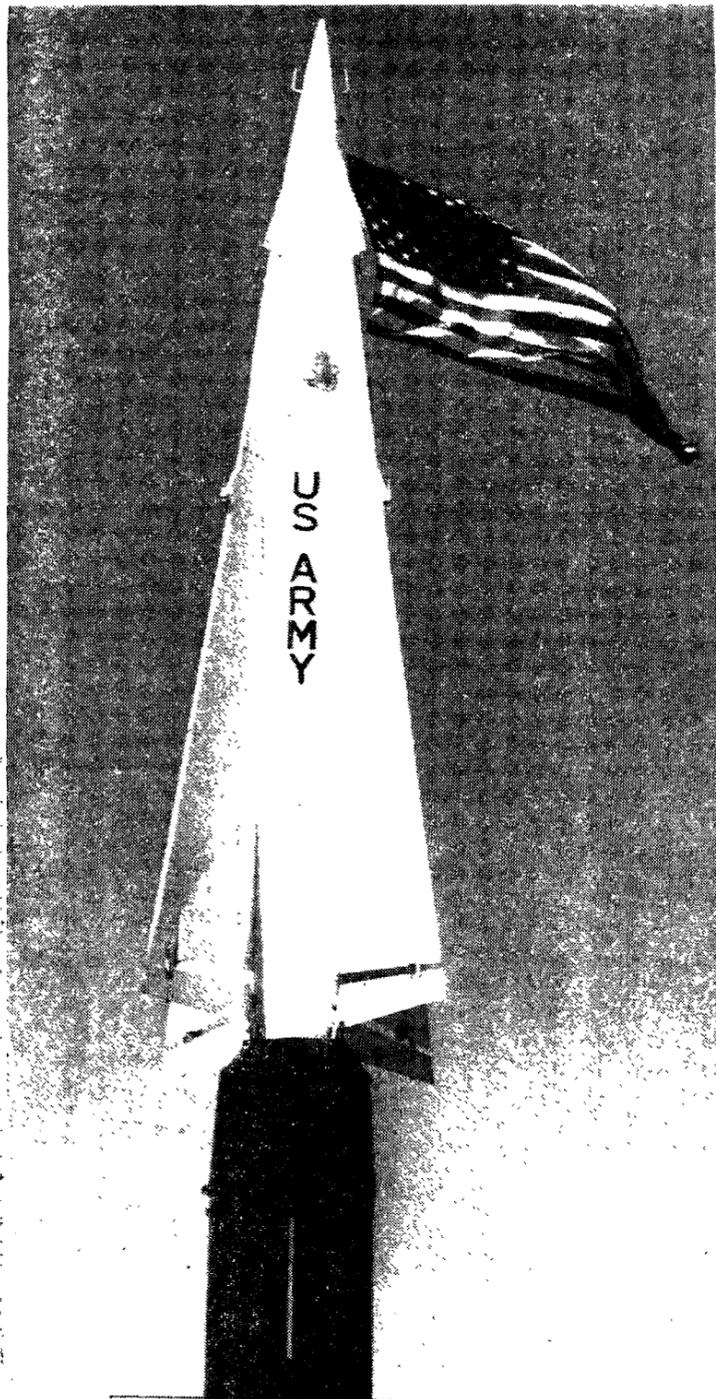
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WHERE ARE YOU?—Given a little bigger missile this might be an ideal way of planting the flag on the moon. Anyway, it looks like an ideal way for Army missiles to do a little flag waving. **CLUE:** Far from being a stunt, you can see this any day near one of the Arsenal gates. (See answer on page 16).

Materiel Command Cites Regulations About Questions

The following guidance has been passed to the Missile Command from the Army Materiel Command concerning personnel receiving questionnaires from civilian sources.

Attention is called to AR 360-5 Section 38 with special reference to Paragraph b., Responses by individuals which states:

"No individual may represent or in any way indicate that he is expressing an organizational or Army preference; moreover, he will not release any safeguarded information."

"An individual who receives a request for information from a person outside the Department of Defense which pertains to military matters or matters specifically directed to his military status or if the inquiry is worded unclearly or the recipient is uncertain about the propriety of a reply, will refer the request to his unit commander. The commander may approve or disapprove reply to the request in accordance with these regulations. In doubtful cases, the commander will refer the request through channels to the Chief of Information, Headquarters, Department of the Army."

Inspector General Inspects School

The Third Army Inspector General team, headed by Col. William F. Curren, IG, arrived at the Ordnance Guided Missile School Monday, Apr. 8, to begin a four day inspection of the Missile School.

Lt. Col. Hobart V. Smith, CONARC, also accompanied the team.

Making up the team, which will inspect records, buildings and personnel of OGMS, consists of Col. Curren, Col. Jeff Hollis, Lt. Col. Louis Hicks, Lt. Col. Paul Lyle and Lt. Col. James Morrow.

Also Maj. Charles Breed, Maj. David Miller, M/Sgt. John Stephens, SFC Clarence Stone, and SFC Ralph Stevens.

The temporary headquarters for the inspection team is located in the conference room of the OGMS Library.

Upon arrival at OGMS, the team was welcomed by Col. William J. Macpherson, commandant, and were briefed on student and personnel status and on the Army Industrial Fund.

Colonel Curren then explained the Annual General Inspection procedures and the team moved to their headquarters to begin the inspection of the Missile School.

April 9, 1942 — Bataan peninsula fell to the Japanese after a heroic defense by a greatly outnumbered force.



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TRAINING REVIEW—Lt. Col. L. M. Anderson, Chief, Personnel and Training Office, receives a program from Glaydell Jackson, Training Office secretary, before a Command Training Review session Wednesday. Col. Anderson opened the meeting with an address stressing the importance of the training mission within the Army Missile Command. Accomplishments and future training plans were discussed with representatives from all functional directorates and project manager offices.

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The Red Cross Bloodmobile will be at Bldg. 7110 from 8:30 a.m. until 2:30 p.m. next Wednesday.

Gray Ladies and staff aides from Redstone Arsenal will be at the various Bloodmobile stations;

the Huntsville-Madison County Chapter will furnish the canteen unit; and the professional staff, including doctors and nurses, will be from the Birmingham Blood Center.

April 4, 1949 — North Atlantic Treaty signed in Washington, D. C.

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Soldier's Job Has Strange Twist From Construction To Star Shoots

PFC Herbert Wise used to build dams for the Army when he was a civilian, but now he shoots the stars to tell where Army missiles are going.

Wise is one of the many soldiers whose civilian occupations have been given a strange twist to make them useful in a missile age Army. He works in the Army Missile Command's Directorate of Research and Development Test and Evaluation Laboratory.

The Waynesburg, Penn., civil engineer has a considerable knowledge of precise measuring devices such as the transit and theodolite.

Tool Engineers Warned Against Becoming Stagnant

"To compete with surging economics and increased productivity of western Europe and Japan, engineers today must apply sound principals of value engineering in research, development and production," an Army Missile Command engineer said Tuesday.

Arthur E. Harvey, chief of the Missile Command's Value Analysis Office, told tool and manufacturing engineers, "... too many people become content with their developments and contributions, then deteriorate into a stagnant liability rather than an aggressive asset."

Harvey made the remarks to explain the reluctance of many engineers in accepting the advice and recommendations of value engineers in improving designs and cutting costs.

"But, in spite of the difficulties, the hard facts are that this relatively new type of engineering is paying its own way."

He told the group that the earlier value engineering was applied, the greater the savings.

"The hardest time to change a design is after it has been released for production," he said.

A theodolite is an optical instrument which can practically measure the distance between a man's eyes from a mile away.

Wise shoots the stars to establish an exact reference line for missile flights. The most stable thing to get a bead on in drawing this line down a missile range is one of the heavenly bodies that is so regular you can set your

watch by it.

Not every star will do. He usually uses Polaris—the so-called North Star.

By measuring how far the missile veers from the reference line engineers can determine how accurate the missile's guidance system is. If the system were perfect, the missile would never leave the perfectly straight line.

The lines Wise lays down are nearly perfect. The precision theodolite he uses may allow it to be off two inches in three miles, but he takes several shots of the star and averages them. This is complicated a little by the fact that Polaris is only in the best position for shooting during two 12 minute periods each 24 hours and he can only take his sights at night.

Measuring a missile's flight against a reference line gets even trickier when the missile is tied down and never leaves the ground. In this case you don't measure where it went, but where it might

have gone.

Why worry where missiles go that never leave the ground? Because the guidance instruments put aboard a missile are so delicate that they detect the rotation of the earth and think that it is the missile veering off course.

The guidance system corrects for this apparent error by tilting the missile. The reference line which Wise lays down is used to determine how much correction the guidance system made.

Wise worked for the Army Corps of Engineers before coming into the service.

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A. R. Deschere Discusses Management Philosophy

A course in "Management Dynamics" was conducted the past week by the Training and Development Division, Civilian Personnel Office, Army Missile Support Command.



A. R. DESCHERE

Participating in the three-day session were both army and contractor personnel.

Alan R. Deschere, general manager of Rohm and Haas, was keynote speaker, discussing "Philosophies of Management."

Col. William F. Register, Jr., Deputy Commander, AMSC, welcomed the manager-students to the special course.

Participating in addition to Deschere were: Dr. B. E. Bess, Occupational Health Service; W. V. Gudaitis, Guidance and Control Lab; Graham L. Shovelton, Civilian Personnel Office; Harry Hepler, Procurement and Production Directorate; Dr. David C. Sayles,

Task Group Studies Labs

A task group of Department of Defense scientists started a two-day study yesterday of the Army Missile Command's Directorate of Research and Development laboratories.

The group, which includes 12 scientists, will meet with officials of the Directorate to discuss budget, program, facilities and personnel. Willis B. Foster, representing the Director of Research, Development and Engineering of the Army Materiel Command, heads the visitors.

ment laboratories.

Their visit will continue a study of utilization of government research and development facilities.

John L. McDaniel, acting director of Research and Development

Harry F. Vincent, R&D Project Director; and members of the Technical Program Control Office will brief the task group.

April 6, 1917 — U. S. declared war on Germany. Diplomatic relations with Austria-Hungary were terminated April 8. Diplomatic relations with Turkey were severed April 20, but war was never formally declared on either Turkey or Bulgaria.

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Page 14 The Redstone Rocket — April 10, 1963

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FOR SALE—24 ACRE FARM: 14 miles to Redstone Arsenal on Highway 36, 3/4 mile to Cotaco High School. House, barn, well, creek, spring, level land with 850 feet frontage on Highway 36, 12 to 15 building lots of one acre or more, \$8,000. Call or write E. M. Pierce, 773-9804, 67 Hwy. Somerville, Ala. tfc

ABS SECRETARIAL SERVICE — 408 Clinton Avenue, W., Huntsville, Ala. Phone 534-6451. CALL US FOR: Photocopying, mimeographing, transcribing (Dictaphone), telephone answering. Employment applications prepared (Government and other). Notary Public. (Our office or yours). tfc

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. tfc

FOR SALE — The Gibson mandolin, violin, Civil War Rifle, shoos good, muzzle-loader, and 4 good wagon wheels, good running condition. Phone 773-6032. tfc

OLD COINS—I buy old coins—old gold coins; Indian head pennies, complete sets; Canadian coins. DARRELL SANDERS, Grand News Stand, Clinton Ave., downtown Huntsville. tfc

FIT, FASHION AND FINE SAVINGS at BUS-ANN'S, downtown Huntsville. Truly your family shoe store. tfc

CAMP DUNROAMIN—FAYETTEVILLE, TENN.—FOUR happy, healthy WEEKS for GIRLS 8-14. Stone Lodges, Cement Swimming Pool. Excellent Instruction in Swimming, Tennis, Badminton, Archery, Crafts, Folk Dancing. FAMOUS for GOOD FOOD and personal attention of experienced Directors. C. A. GEARISH, Box 401, Fayetteville, Tenn. Telephone 433-1935. 4-10c

FOR SALE—15' Cherokee, red and white boat, 40 h.p. Scott motor, heavy duty trailer, excellent condition. Call 881-2165 after 6 p.m. Mondays thru Fridays—Week-ends, anytime. tfc

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Theodore Blocker
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4. Mobile Homes

1959 SOUTHWESTERN MOBILE HOME. Must sell this week. 50x10, 3 bedroom, electric stove and water heater, washer. One owner. Original cost \$7,500. 881-1639. tfc

5. Houses, Lots - Sale

FOR SALE—House and lot—3 bedroom, living room and dining room cob., kitchen and bath. Carport and utility room. Located 2 1/2 miles west of Hartselle just off of Highway 36. See MRS. N. E. BAILEY or phone 773-9512. tfc

FOR SALE—Six room split level. 1700 square feet. Den, 18x24; two large bedrooms; two baths; separate utility room; carport; shady patio; 1/2 acre lot, fenced; separate two-car garage and shop. Moss' Chapel Road. Phone 773-8705. 4-18c

FOR SALE BY OWNER—Two spacious family homes in Decatur, walk to public and parochial schools. At 651 Sherman St., four bedrooms, three baths, gas furnace, radiator for heat, carpeted. At 633 Jackson St., four bedrooms, three baths, central air conditioning, new gas furnace, radiator heat Phone 355-0405, Decatur, Ala. tfc

FOR SALE—New nice 3 bedroom house, 1 1/2 ceramic tile baths, completely air conditioned, access lot to lake. Minimum FHA down payments. Price \$16,250.00. Will build homes in Arab and Gunterville and finance up to 97% FHA and 100% G.I. CORNELIUS REAL ESTATE & INSURANCE CO., Marshall County's leading mortgage broker. 521 N. Broad Street, Gunterville, Ala., Phone 582-3027. tfc

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IN HENDERSON SUBDIVISION
One brick house on large lot—three bedroom, kitchen, living, dining, bath & garage. Price \$10,500. Small down payment, rest financed.
One brick house on 1/2 acre lot. Three bedroom, living & dining room, kitchen has beautiful cabinets, 1 1/2 bath with storm doors and windows. Price \$10,000. Conventional or GI financing.
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Bill Tunstill, Mgr.
Henderson Builders Supply
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Ardmore Highway
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100' GUNTERVILLE LAKE FRONT — Beech Creek, wooded lots, access to water, \$500.00 and up. Waterfront lots, \$1,000. and up. TY DORMAN, Gunterville, 582-3654 or Huntsville 876-3297. tfc

FOR SALE—For gracious year round living, completely furnished 2 bedroom, 2 bath, split level type home on Gunterville Lake (Brown's Creek Subdivision.) Property consists of 2 acres of wooded, fenced-in land and a 2 slip boat house. H. W. CLAYTON REALTY CO., Gunterville, Ala. tfc

FOR SALE—80 acres, 1 mile S.W. of Gunterville Lake. Has 8.5 acre lake and large pine timber, \$10,000.00. \$1,000.00 down — or will sell 1/2. TY DORMAN, Gunterville, 582-3654. 4-17c

FOR SALE—Two bedroom shingle house, One mile from Gate 5 & 8. \$2950 Equity, 4 1/2% FHA, 16 yrs. left. Total payments \$34.25. TV antenna & two air conditioners. 3404 Marks Drive, SW. Phone 881-2693. tfc

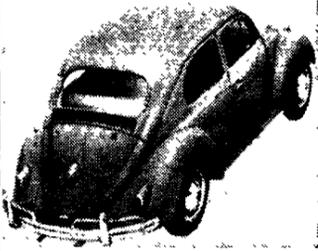
FOR SALE OR RENT—Modern 3 bedroom home with one acre of land 5 miles south of Florette on Highway 67. CLYDE CRAWFORD. Phone 586-3342. tfc

March 13, 1942 — The first woman with Army rank corresponding to colonel, was Julia Ottensson Flikke, Army Nurse Corps, who received the relative rank of Colonel, Army of the United States, on March 13. She was appointed to the Army Nurse Corps March 8, 1918.

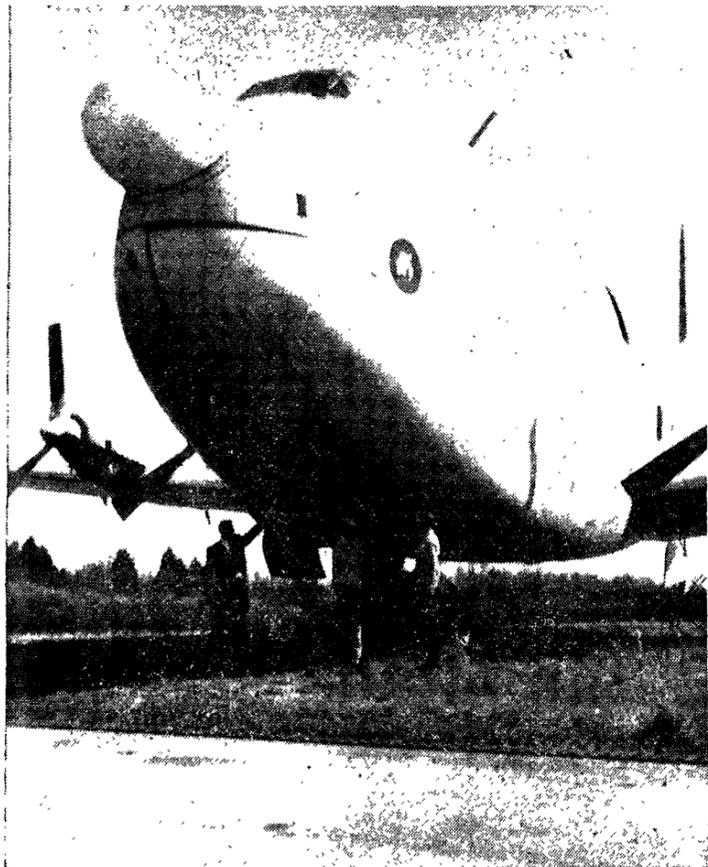
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Globemaster Is A Dodo—Plays Vital Role In Experimental Missile Moves



VALUABLE DODO—This land-bound C-124 Globemaster hasn't been off the ground since 1956 but it's one of the Army Missile Command's most valuable planes. The plane is used for loading tests by missile engineers who are constantly seeking to make their products air transportable. Here John Williams of the Directorate of Research and Development points out the huge doors that drop down to allow missiles and their ground equipment to be trundled into the plane's house-sized hull. William Payton, center, and Alvin Robison, right, also of the Missile Command, take part in the loading exercises.

The Army Missile Command uses a number of planes large and small in its hemispherical operations but one of the most important is a dodo bird that hasn't been off the ground since 1956.

The plane is a C-124 "Globemaster" that looks from the outside like it was ready to take to the air like any other C-124. This would be difficult, however, because it is parked a half-mile from a runway and its insides have undergone more surgery than a medical school dummy.

Missile engineers with a goal of designing nearly everything from radars to missile systems for air transportability use the craft for loading tests.

In time its cavernous hull has been jammed with Jupiters, Redstones, Sergeants, Pershings and

pretty soon a Lance, tracked vehicle and all, will be rolled through its gaping doors.

The Jupiter C that put the Free World's first satellite in orbit in the plane before it was shipped to Cape Canaveral.

The plane was obtained from the Air Force which built it as an experimental model. Among other things, it has four turbo-prop engines which makes it unique among other C-124's. Much of the flight equipment was removed and put to use by laboratories of the Directorate of Research and Development.

Its size makes the plane ideally suited for its missile role. When missile builders here want to get an idea of how their systems would fit in a smaller plane they just build temporary partitions inside the C-124.

William Watson, chief of the Research and Development Directorate's Ground Support Equipment Laboratory which stuffs and

unstuffs the plane, estimates a ground-built mockup for loading purposes would probably cost \$100,000.

The value of the plane, however, because of its age and non-flight condition, is recorded on property books as "less than \$200."

Ninety Federal employees recently became "teachers for a day" in seven Washington area school systems. They replaced social science teachers who were attending a conference. Federal employees selected as personable, articulate, and knowledgeable, discussed their obs. careers in Government, and missions of Federal agencies with some 20,000 high school students in 250 classes.



GERMAN SERGEANT UNIT HONORED AT OGMS—The second German Sergeant missile unit to be trained at the U. S. Army Ordnance Guided Missile School was honored at a recent ceremony. Col. William J. Macpherson (left), commandant of OGMS, is shown here presenting a Certificate of Achievement to Capt. Horst Feldt (right), commanding officer of the German unit. The unit will be transferred to Ft. Sill, Okla., where it will be joined with a firing unit now in training.



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PROMOTED—Mrs. Marvin L. Worley pins the silver leaves of a lieutenant colonel on her husband during a promotion ceremony in the Directorate of Procurement and Production at the Army Missile Command. The new lieutenant colonel is chief of the Directorate's Engineering Division. He is a native of Decatur, Ala.



SEES ASCENSION ZEUS SITE—The governor of St. Helena Island recently visited the Nike Zeus target tracking radar site on Ascension Island in the mid-Atlantic. The site is a field facility of the Zeus Project Office at Redstone Arsenal. This photo, taken during a tour of the island shows, left to right, M/Sgt. Willard G. Johnson, Jr., assistant Army project engineer on the island; J. C. Westcott, site manager for Western Electric Co.; Governor Sir John Field; and Capt. Howard B. Thompson, resident Army project engineer.

Engineering Chief Gets Promotion

Marvin L. Worley was promoted to lieutenant colonel last week with Col. E. V. Lau officiating at the ceremony. Mrs. Worley pinned the silver leaves on her husband's collar.

Lt. Col. Worley is chief of the Engineering Division, Directorate of Procurement and Production at the Army Missile Command. He is a native of Decatur, Ala., and a 1956 graduate from the University of Georgia.

The Colonel is an horologist (the science of measuring time or art of constructing clocks, dials and other devices). He has a large collection of clocks and other measuring instruments from all parts of the world. He is also a tennis player and golfer.

Lt. Col. Worley entered military service in 1941. His decorations include the Bronze Star Medal, the Army Commendation Medal and an Oak Leaf Cluster

earned during tours in Europe and Korea.

The Worley family, including daughters Carol, 19, and Debra, 4, live on Post.

Movie Schedule

- WEDNESDAY, April 10
"Can Can" (M)
 - THURSDAY-FRIDAY, April 11-12
"El Cid" (F)
One performance 6:30 p.m.
 - SATURDAY, April 13
"Play it Cool" (F)
 - SUNDAY-MONDAY, April 14-15
Walt Disney's "In Search of the Castaways" (F)
 - TUESDAY, April 16
"Trial and Error" (F)
- Two shows nightly at 6 and 8:30 p.m., Saturday matinee at 1 p.m., and Sunday matinee at 2 p.m.

ANSWER TO WHERE ARE YOU

The picture was taken in front of Bldg. 3300, which is the Army Ordnance Guided Missile School headquarters. Now you see how it was taken. The flag pole was hidden behind the missile by the photographer.



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