

The Redstone Rocket

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VOL. X; NO. 46

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

APRIL 4, 1962

Recruiting For AOMC Will Begin

200 in Specialized Fields Are Needed

The Army Ordnance Missile Command will start a nationwide recruiting program tomorrow with an immediate goal of hiring at least 200 additional civilians in specialized categories.

Maj. Gen. August Schomburg, AOMC Commanding General, said AOMC personnel officials will move immediately to hire qualified personnel to fill existing vacancies.

His announcement removes the block on hiring new personnel put in effect last fall while AOMC underwent a reorganization which consolidated certain of its elements and their functions.

Jack N. McConaha, acting director of civilian personnel said all of the vacancies to be filled are for professional, scientific and highly technical positions in all three major directorates of AOMC — Research and Development, Field Support and Industrial — as well as in the Army Ordnance Missile Support Agency.

The personnel chief said AOMC was particularly anxious to recruit young engineers and scientific personnel although other openings exist in specialized categories such as digital computer programmers and card punch operators. Pay grades — determined by the job opportunities available — cover the complete range of Civil Service wage scales.

"While the recruiting program is under way," McConaha said, "the process of placing AOMC employees in jobs within the new Command organizational structure will continue."

AOMC recently completed the major personnel action involved in its reorganization by assigning more than 8,000 civilian employees by name to job positions in its new organization. Employees not yet assigned permanent positions are being retained in interim positions. (See RECRUITING on Page 3)



COMMAND RESUMED—Maj. Gen. August Schomburg, looking tanned and fit, Monday resumed command of the Army Ordnance Missile Command. The general returned to duty after a vacation in Florida.

Missile Contracts Total More Than \$43 Million

Ten Awards Made To Manufacturers Of Missile Systems

Ten contracts totaling \$43,262,352 were awarded last week for work on the Nike Zeus, Nike Hercules, Pershing, Hawk and Shillelagh missiles, and the Honest John rocket.

The largest single award, \$24,774,481, went to the Western Electric Co., Nike Zeus prime contractor, for continued research and development on the anti-missile missile system. The work on this contract will be performed by Western Electric at Burlington, N. C., Douglas Aircraft Co. in Santa Monica, Calif., and the Bell Telephone Laboratories, Whippany, N. J.

Several subcontractors will share in the award including: Remington Rand Univac at Minneapolis, Minn.; The Physical Science Laboratory of New Mexico State University at Las Cruces, N. M.; and

Sylvania Electronics System, Waltham, Mass., laboratory.

Systems design and development is the responsibility of the Bell Telephone Laboratories.

The Nike Zeus system — the Free World's only active defense against ballistic missile attack in advanced development — is being readied for intercept tests involving vehicles launched by intercontinental ballistic missile boosters.

The tests, scheduled to begin later this year on the Pacific Missile Range, will involve Nike Zeus missiles fired and controlled from Kwajalein Island in mid-Pacific. Targets for the tests will be fired west from California by the Air Force.

The Aeronutronics Division of the Ford Motor Co., received a \$3,570,068 award for continued research and development on the Shillelagh at their Newport Beach, Calif., plant.

Shillelagh is being developed as a lightweight, surface-to-surface missile. (See CONTRACTS on Page 2)

Nike Zeus Intercepts Nike Hercules in Air

Retired Military Men Settle Near Redstone Arsenal

Enough money to build 250 modern school rooms, or about 12 average size new school buildings annually pours into the economy of northern Alabama from a little recognized source.

This is the more than \$3 million which represents the income of the retired Armed Forces personnel who have selected this area and nearby southern Tennessee for their permanent homes after 20, 30 or even 40 years of moving from pillar to post.

In addition, these people have an average of three dependents each, many of whom have generated incomes of their own which they spend in Alabama and Tennessee.

No one can tell exactly what it is, but something is bringing droves of "old soldiers" here.

A childhood home, year-around summertime climate or the hope of economical living for retirement income usually dictates the choice of a home at the end of active military service.

But the north Alabama area frequently has snow, ice and damp weather in the wintertime; and the cost of living in the area has not been unusually low for the past few years.

(See RETIRED on Page 2)

White Sands Test Is One of Series

Nike Zeus anti-missile missile, now in development, has successfully completed another mid-air intercept of a Nike Hercules missile.

The Army said the intercept took place Mar. 28 high above White Sands Missile Range, N. M. Range and altitude of the intercept from the point where the Zeus missile was fired was not disclosed.

A Nike Zeus missile, automatically fired and controlled by ground electronic elements of the missile defense system, got within killing distance of a supersonic Nike Hercules flashing earthward in a ballistic dive from the fringes of space.

A similar intercept had been announced in December.

Brig. Gen. John G. Zierdt, Deputy Commanding General, Guided Missiles, Army Ordnance Missile Command, described the test as a comprehensive evaluation of major components of the Nike Zeus system against a high performance missile target. Neither missile carried a live warhead.

The Nike Hercules, an operational air defense missile, was fired on a ballistic trajectory, to very high altitude in the northern portion of the desert test center, then sent plunging earthward in a southerly direction in a high speed dive.

The Nike Zeus weapons system complex that engaged it is in the southeastern corner of the missile range.

Nike Zeus, under development to defend against attacking ballistic missiles, is undergoing test at White Sands and at two sites on the Pacific Missile Range. Later this year the Zeus complex on Kwajalein Island in mid-Pacific will begin test engagements with target nose cones launched by intercontinental ballistic missile boosters fired west from California.

Pershing Trainer Contract Awarded

The Martin Co., Orlando, Fla. has received a \$1,330,000 award for Pershing missile guidance and control trainers on Mar. 29.

The work will be performed at Martin's Orlando plant.

The Birmingham Ordnance District administers the contract for the Army.

4 Patent Center 'Attorneys' Are Enlisted Men in Army

Young scientists and engineers serving as enlisted men in the Army are doing more than "just pulling a hitch" at AOMSA's Patent Center.

These men who walk an unusual guard post of numbers, chemical formulas, and electric circuits are part of a special program to train technically knowledgeable enlisted men to file patent applications, an extremely intricate and delicate job usually performed by patent attorneys.

This Patent Center is the only patent center in the United States to use enlisted men to fill patent attorney positions, and so far has had outstanding results with the experiment.

Of the four in the original group, two are preparing to be patent attorneys, one has remained to work in the patent office at his same job, and one returned to his old job as an inventor for the National Institute of Health.

The program, begun almost two years ago, now has four new scientific and engineering enlisted men from Tennessee, Mississippi, California, and New York.

Only one of the four new mem-

bers of the program so far is completely converted to the new profession. Pvt. Jerry Hudson, a chemical engineer graduate from the Louisiana Polytechnic Institute said he plans to work toward his law degree after his tour with the Army is ended. Patent attorneys with degrees in chemistry are rarities in the legal profession.

Pvt. David Breeden, an electrical engineer graduate of the University of Tennessee, is not certain he wants to continue in the patent field, but he admits the training he receives in patent work will be beneficial if he pursues his profession as an electrical engineer. "It seems now," he said, "that this type of training is essential to the engineer."

The special program set up to train the new scientific and enlisted men in the patent center will require about six months for completion, including a two-week course at the U. S. Patent Office in Washington, D. C., according to Jack Voigt, chief of the prosecution division, who is instructing the men.

"It takes time to train them." (See 'ATTORNEYS' on Page 3)



WATCH YOUR TERMINOLOGY—If it spins, it doesn't turn. If it turns, it is not something that spins. Fine definitions such as this must be made when you are filing a patent application. Four scientific and engineering enlisted men serving at the Redstone Arsenal Patent Center as patent attorneys are undergoing a rigid six months on-the-job training to learn how to file applications. Shown here with their instructor, are (left to right) Jack Voigt, Pvs. Jerry Hudson, David Breeden, Charles B. Kimball, and Roger Aceto.

The Redstone Rocket

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CONTRACTS

(Continued From Page 1)
face guided missile system for close-in support of troops. The Ordnance Tank-Automotive Command, Detroit, Mich., is responsible for system development and the Army Ordnance Missile Command supervises development of the missile.

The Douglas Aircraft Co. received \$3,274,665 to fund production of Nike Hercules missile structures at the Charlotte Ordnance Missile Plant, Charlotte, N. C., a government-owned contractor-operated facility.

An \$1,989,732 award for production of Nike Hercules components was received by the Western Electric Co. The work will be performed at Greensboro and Winston Salem, N. C.

The supersonic Nike Hercules, an air defense guided missile, is now on site at installations around U. S. metropolitan areas.

Two awards totaling \$4,024,270 to the Raytheon Co. will cover production items for the NATO Hawk guided missile production program at Raytheon's plants in Andover, Lowell and Waltham, Mass.

Hawk is a surface-to-air missile system designed primarily as a defense against high performing, low-flying targets, but is equally effective at medium-to-high altitudes. Hawk is deployed overseas with U. S. Forces, and is being supplied to nations in the North Atlantic Treaty Organization.

The Martin Co. was the recipient of two contracts amounting to \$3,500,000 to cover items for the Pershing ballistic missile. The work will be done at Martin's Orlando, Fla. plant.

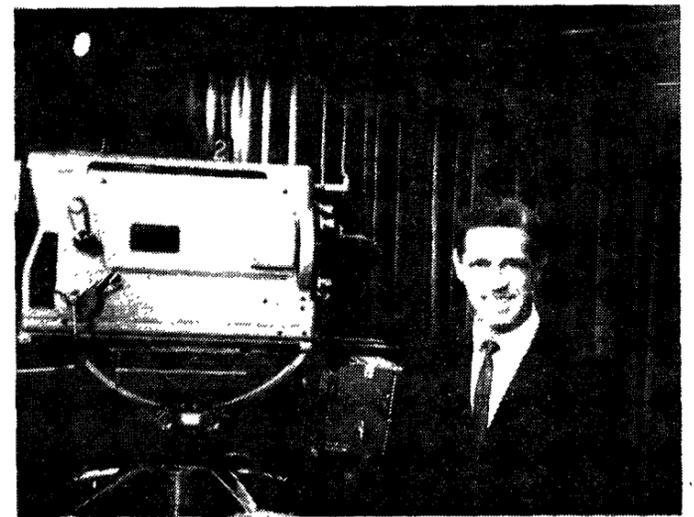
A \$1,081,640 award went to Eclipse-Pioneer Division of the Bendix Corp. for work on Pershing missile components at their Teterboro, N. J. facility.

Pershing is a two-stage, solid propellant, inertially guided ballistic missile being developed to replace the operational Redstone missile.

The American Machine and Foundry Co. received a \$1,047,496 contract to produce components for the Honest John rocket at their Buffalo, N. Y., plant.

The Honest John, a free-flight solid propellant rocket, is designed to provide close fire support for ground combat operations.

The New York Ordnance District will administer the contracts to Western Electric for work on the Nike Zeus and Nike Hercules; the Eclipse-Pioneer contract for Pershing work and the Honest John contract; the Los Angeles Ordnance District will administer the Shillelagh contract; Birmingham Ordnance District, the Martin Co. contracts for Pershing, and the Douglas contract for Nike Hercules; and the Boston Ordnance District, the Hawk contracts.



NEW OGMS-TV PRODUCER—Robert O. Gilmore succeeds Joseph W. Durand as producer at the educational television station of the Army Ordnance Guided Missile School.

RETIRED

(Continued From Page 1)

So it can't be sunshine and cheaper living that attracts people.

Yet, according to the records at the Redstone Arsenal Hospital, approximately 1,000 persons who've retired from the military forces have settled here.

SP6 Eddie M. Siddon, who is in charge of the outpatient service at the Redstone Hospital, stressed that he has no way of knowing how many other retirees may reside in the area who aren't on his rolls, because those who require no medical attention don't report to the hospital.

"By the time they reach retirement age they are more interested in their physical well being, so I expect we have the names of a high percentage of them," Siddon said.

The Army accounts for the largest group of retirees — some 85 percent — with the Air Force running second. The Navy and Marines have only a half dozen or so retirees on the hospital rolls.

Why did these people choose this area?

Col. Harry C. McClain, Redstone post surgeon, who sees most of the patients, says that, aside from those who were coming back to their old home towns, most probably are attracted by the activities at Redstone.

Many of them have found employment with AOMC elements, the OGMS, the MSFC, and the numerous enterprises associated with these agencies at Redstone.

Regardless of the reasons for their settling in the North Alabama-Southern Tennessee area, the retirees are giving the economy a healthy boost.

GILMORE IS NAMED TO OGMS TV POST

Appointment of Robert O. Gilmore as producer at the educational television station at the Army Ordnance Guided Missile School is announced by Col. William J. Macpherson, commandant.

Gilmore, 32, has been a director and writer at OGMS-TV since 1958. He succeeds Joseph W. Durand who transferred to the New York City headquarters of TelePromp-ter Corp. which assists OGMS-TV under contract. Gilmore aided in the production of many of more than 200 missile maintenance lessons which have been prepared, put onto video tape and used throughout the school for the past three years.

Gilmore came here from WFLA-TV in Tampa, Fla., where he was a producer and director for three years. He had previously served as technical director and video engineer at WJNO-TV, Palm Beach.

He is a graduate of the Television Workshop of New York City.

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| O-10 | Gen. | 136.80 | 160.20 | (17) | 171.00 | 201.00 | (17) |
| O-9 | Lt. Gen. | 136.80 | 160.20 | (17) | 171.00 | 201.00 | (17) |
| O-8 | Maj. Gen. | 136.80 | 160.20 | (17) | 171.00 | 201.00 | (17) |
| O-7 | Brig. Gen. | 136.80 | 160.20 | (17) | 171.00 | 201.00 | (17) |
| O-6 | Col. | 119.70 | 140.10 | (17) | 136.80 | 170.10 | (24) |
| O-5 | Lt. Col. | 102.60 | 130.20 | (27) | 136.80 | 157.50 | (15) |
| O-4 | Maj. | 94.20 | 120.00 | (27) | 119.70 | 145.05 | (21) |
| O-3 | Capt. | 85.50 | 105.00 | (22) | 102.60 | 130.05 | (27) |
| O-2 | 1st Lt. | 77.10 | 95.10 | (23) | 94.20 | 120.00 | (27) |
| O-1 | 2nd Lt. | 68.40 | 85.20 | (24) | 85.50 | 110.10 | (29) |
| W-4 | CWO | 94.20 | 120.00 | (27) | 119.70 | 145.05 | (21) |
| W-3 | CWO | 85.50 | 105.00 | (22) | 102.60 | 130.05 | (27) |
| W-2 | CWO | 77.10 | 95.10 | (23) | 94.20 | 120.00 | (27) |
| W-1 | WO | 68.40 | 85.20 | (24) | 85.50 | 110.10 | (29) |

PRESENT

| Enlisted Personnel | PRESENT | | | | |
|--------------------|--------------------|------------------|-------------------|---------------------------|-------|
| | Without Dependents | With 1 Dependent | With 2 Dependents | With 3 or more Dependents | |
| E-9 | Sgt Maj | 51.30 | 77.10 | 77.10 | 96.90 |
| E-8 | 1st Sgt/MSgt | 51.30 | 77.10 | 77.10 | 96.90 |
| E-7 | Plat Sgt/SFC | 51.30 | 77.10 | 77.10 | 96.90 |
| E-6 | SSgt | 51.30 | 77.10 | 77.10 | 96.90 |
| E-5 | Sgt | 51.30 | 77.10 | 77.10 | 96.90 |
| E-4 | Cpl 1 | 51.30 | 77.10 | 77.10 | 96.90 |
| E-4 | Cpl 2 | 51.30 | 77.10 | 77.10 | 96.90 |
| E-3 | Pfc | 51.30 | 51.30 | 77.10 | 96.90 |
| E-2 | Pvt | 51.30 | 51.30 | 77.10 | 96.90 |
| E-1 | Recruit | 51.30 | 51.30 | 77.10 | 96.90 |

RECOMMENDED

| Enlisted Personnel | RECOMMENDED | | | |
|--------------------|--------------------|------------------|-------------------|---------------------------|
| | Without Dependents | With 1 Dependent | With 2 Dependents | With 3 or more Dependents |
| E-9 | Sgt Maj | 85.20 (66) | 115.20 (40) | 125.10 (29) |
| E-8 | 1st Sgt/MSgt | 85.20 (66) | 115.20 (40) | 125.10 (29) |
| E-7 | Plat Sgt/SFC | 75.00 (46) | 102.60 (33) | 120.00 (24) |
| E-6 | SSgt | 70.20 (37) | 96.90 (26) | 115.20 (19) |
| E-5 | Sgt | 70.20 (37) | 96.90 (26) | 110.10 (14) |
| E-4 | Cpl 1 | 70.20 (37) | 96.90 (26) | 110.10 (14) |
| E-4 | Cpl 2 | 60.00 (17) | *60.00 (0) | 96.90 (0) |
| E-3 | Pfc | 55.20 (8) | 55.20 (8) | 77.10 (0) |
| E-2 | Pvt | 55.20 (8) | 55.20 (8) | 77.10 (0) |
| E-1 | Recruit | 55.20 (8) | 55.20 (8) | 77.10 (0) |

1 With 4 or More Years
2 With Less than 4 Years
() Recommended percentage increase
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CITED FOR ACHIEVEMENT

M/Sgt. Robert C. Gibson, Operations NCO of the training literature division of the department of research and curriculum received a certificate of achievement from Col. William J. Macpherson, Commandant of the Ordnance Guided Missile School. During his tour with R&C, Sergeant Gibson did extensive revising of training literature and policies.

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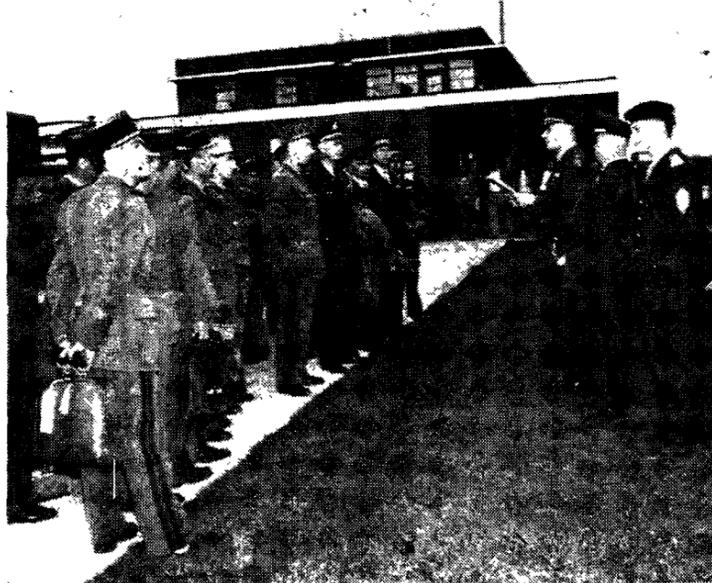
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FRENCH MILITARY SCIENTISTS HERE—Brig. Gen. Jean Doin, chief of advanced scientific and technical studies of the French Army, is welcomed to Redstone Arsenal in his own language by Col. Henry J. Katz, deputy commander of the Army Ordnance Missile Support Agency, in ceremonies last week at the municipal airport. Gen. Doin stands first in center row. Col. Katz is third from right with Col. William J. Macpherson, OGMS commandant, and French Sgt. Jean Pierre Launay who assisted in interpretation during the group's tour of AOMC, OGMS, and NASA facilities.

RECRUITING

(Continued From Page 1)

tions — at their current salary — until permanent assignments can be made.

McConaha said only about three percent of the total AOMC civilian work force remains to be reassigned to permanent job slots and that figure is dropping daily as further personnel actions are completed.

"No positions will be filled in this recruiting program that can be filled with qualified people now

in our organization," he said. "However, these 200 individuals to be hired as soon as possible have skills which we need and are over and above any reassignments yet to be completed within the organization."

McConaha said that about 150 Wage Board — so-called "Blue Collar" — workers with skills that could not be utilized in the new Command organization will be separated as previously announced. Individuals in this group will also be given every opportunity to qualify for positions that remain open.

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'ATTORNEYS'

(Continued From Page 1)
 Voigt said. "But it pays. They usually have twenty or more months to do when they come here, and they more than pay for their education in the work they do not only after their training, but while they train as well. And, of course, some of them may go on to be patent attorneys."

Pvt. Charles B. Kimball, who graduated from San Diego State College with a degree in mechanical engineering, and Pvt. Roger Aceto, who has a mechanical engineer degree from Rochester Institute of Technology, N. Y. say they have found the training very interesting and very beneficial.

Patent applications are extremely difficult to write, according to William T. Murphy, chief of the patent center. They require not only an ability to write and an intense knowledge of the different sciences, but they also require a legal mind.

The patent center has found that this reciprocal trade of knowledge and work for training and a chance to use previously acquired knowledge, has worked well, and, from all indications, will continue to work well.

Manufacturers Told Government Approach To Value Analysis

Richard C. Robbins, Value Analysis Office, AOMC, spoke in Andover, Mass. to representatives of Army Senior Commands in the Boston Ordnance District, and Raytheon design engineers from the Lowell, Andover and Bedford plants.

His presentation was "The Government Approach to Value Analysis and Engineering."

Studies have been underway each Thursday for the past month to determine means of eliminating all unnecessary cost from a product or service in the Hawk system while at the same time maintaining its necessary function, reliability and timeliness of delivery.

AOMC is now passing along information to all Army missile manufacturers on the subject and have realized cost reductions and vast savings.

Capt. Butterworth Is Hawk Liaison Officer at Paris

Capt. James R. Butterworth, resident Nike Zeus project engineer at Point Mugu, Calif., for more than a year, has been reassigned to the Army Ordnance Missile Command's NATO Hawk Liaison Office in Paris, France.

Capt. Butterworth will report to his new assignment April 30.

A native of New Rochelle, N. Y. Capt. Butterworth entered the Army in 1950. In 1952, he took instruction in guided missiles at the Army Ordnance Guided Missile School and later was assigned to the old Guided Missile Development Division, the forerunner of the Army Ballistic Missile Agency

After tours of duty at Pueblo Ordnance Depot, Fort Bliss and Korea, Capt. Butterworth was assigned to the Army Ordnance Missile Command at Redstone in 1958. In 1960, he became resident Nike Zeus project engineer at Point Mugu.

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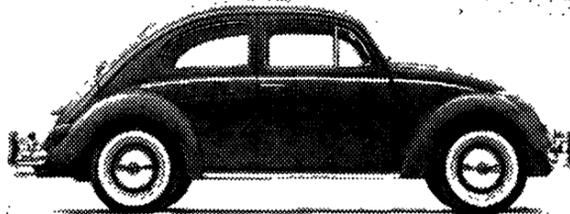


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FLY-BY-WIRE—James Cooper (left) and Alvin Reid of the Army Ordnance Missile Command's Test and Evaluation Laboratory examine some of the spent copper-coated wire that they use to fly SS-11 and ENTAC missiles on the test ranges at Redstone Arsenal.

Missiles 'Fly by Wire' On the Arsenal Range

Concentration Is Required to Guide Missile to Target

Although Lt. Col. John Glenn was the first American to "fly by wire" in space, two Army Ordnance Missile Command employees have been flying missiles by wire on the ground for several years now.

James Cooper (no relation to astronaut Gordon Cooper) and Alvin Reid are gunners for the SS-11 and ENTAC anti-tank missiles, which use fine, copper-coated wire to guide them to their target.

The wire is mounted on bobbins in both sides of the missile—large versions of the sewing machine bobbin. The wire unreels from the bobbins as the small missile roars

off downrange.

As Glenn controlled his space capsule in pitch, yaw, and roll, the gunners control the same maneuvers on their missile by moving a small metal stick in a rubberized mounting, known as a "joy stick."

Guiding a missile by hand is a delicate business requiring a great deal of concentration. And—not so surprisingly, perhaps—each gunner has his own method of putting the missile on target.

"The first thing you must do is stabilize the missile between you and the target," Cooper said. "Then it's easy to guide the missile into the tank."

The two gunners use different altitudes for guiding a missile downrange. Cooper likes to guide his missile high and ease it down

to the target. Reid is a "rabbit-chaser—a low angle of flight missile flyer.

"If a missile starts out high," Reid explained, "It's hard to control a dive because the heavy warhead up front keeps pulling you down.

"I got so close to the ground on one dive, the missile exhaust set the grass on fire when I pulled it up."

Cooper, of course, has the opposite viewpoint.

"Al tends to go to extremes with his low-level maneuvers," Cooper said, chiding his partner.

"Once he put a missile into the top of a tree, bounced it out again, and then went on to hit a moving target."

The gunners, who have fired missile after missile against still and moving targets in test shots and demonstrations, don't miss very often.

"Four hits out of five tries is the average," said Reid. "It's just like playing golf. On days when you feel good, you're hitting on target all the time."

Occasionally, the rocket steersmen overshoot the target. Since

OGMS Foreign Students Visits Colorado, Texas

Fifteen student officers of the Ordnance Guided Missile School, including seven foreign officers, were special guests of the Denver, Col., Chamber of Commerce last Sunday.

The officers were conducted on a tour when they stopped in the Colorado city en route to a field study of weapon support activities

they can't make their missiles turn completely around and they don't want to waste a shot, if they miss one target they continue downrange to another. With miles of wire in the bobbins, the missile has plenty of room to roam before it comes to the end of its "string." After the rocket gets more than 1,000 meters downrange they use binoculars to watch its flight.

"It's no harder to hit a moving target than a stationary one," Cooper said, "as long as you have good control of the missile."

"Concentration is the key to guiding a missile," Reid said. "Sometimes I'm so absorbed in steering the missile that I find I'm still moving the stick a couple of seconds after it has hit the target."

at the Pueblo Ordnance Depot and the Army Air Defense Center at Fort Bliss, Texas.

The group included Lt. Col. Tore Augland, Maj. Lief Hasner and Maj. Rolf Selset of Norway; Lt. Col. Che-fu Chen and Lt. Col. Chien-jung Lang of China; and Lt. Col. Otto A. Schmidt and Maj. Erich Wedler of Germany.

They were accompanied by Lt. Col. R. A. Robinson, chief of operations; Maj. B. E. Dahrling, chief of officer and special training; Capt. T. B. Christiansen, Chief, Nuclear Weapons Logistics Section; Lt. D. T. Ivey, Instructor, Nuclear Weapons Logistics Section; and Lt. F. M. Tate, Instructor, Nuclear Weapons Logistics Section, at OGMS.

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Calibration Van Is Rolling Laboratory

Work Can Be Done On Site Instead Of in Laboratory

Should you happen to see an Army truck on the Arsenal, with a white van which seems much too wide for the rest of the truck, don't jump to the conclusion that somebody goofed on the design. It was made that way for a reason.

This unique departure in truck design has enabled the Calibration Center of AOMSA to offer greatly increased calibration service to facilities in the field.

AOMSA Commander, Col. Thomas W. Cooke, has announced acquisition of two special vehicles, with telescoping van bodies, to serve as laboratories-on-wheels. The new trucks will enable teams of Calibration Center technicians to travel throughout the Arsenal,

and occasionally elsewhere, calibrating laboratory and shop equipment on the spot.

The mobile labs will greatly reduce the time and effort involved in bringing both electrical and mechanical test devices to the laboratory for calibration. The trucks can be parked next to the various facilities, expanded to provide working room inside the vans and equipment, a few pieces at a time, can be brought just outside the buildings for calibration.

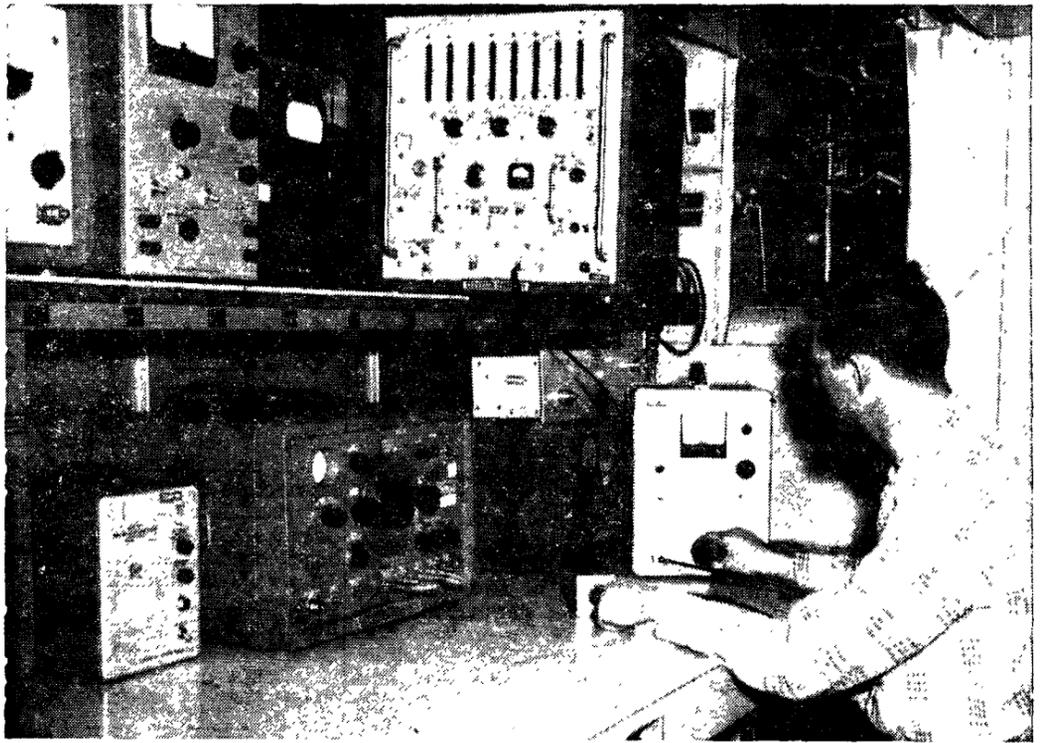
A five-man team of technicians will be assigned to each of the units, with other five-man teams using other type vehicles pending the arrival of additional vans. Equipment which cannot be tested with the van facilities will be brought to the central laboratory, as in the past.

The vans are built on standard 2½-ton Army vehicles, measuring 17 feet in length by 8 feet in width when "folded up" for driving. Expanded they are 16 feet wide, and provide five working areas inside.

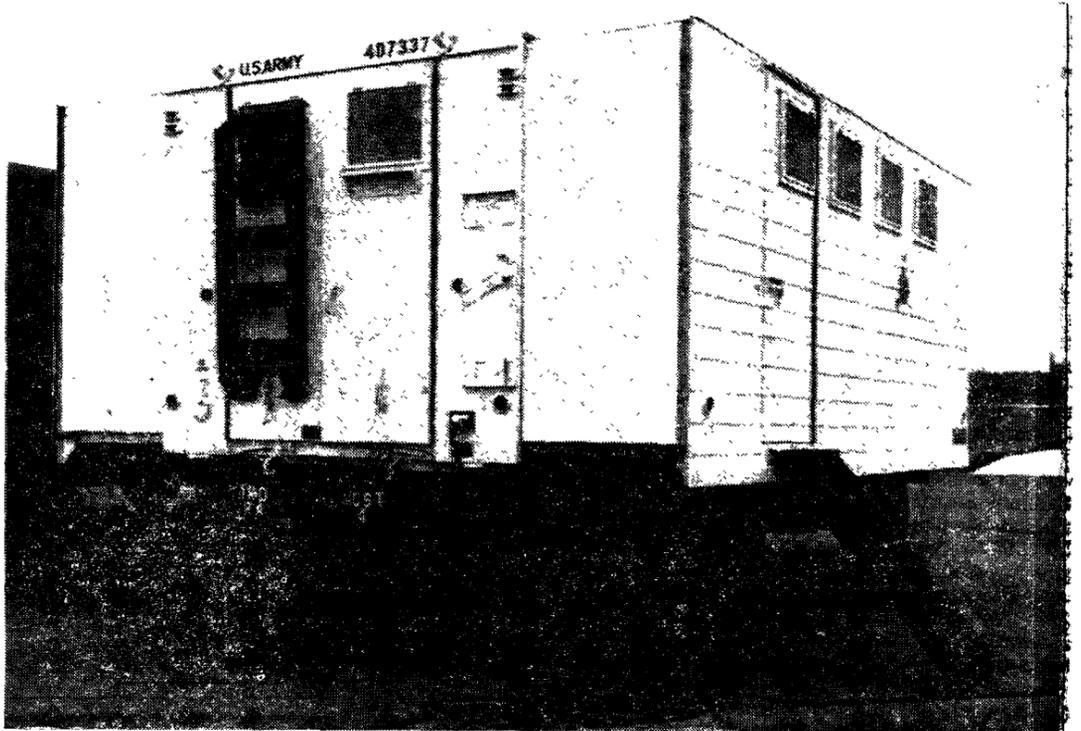
The self-contained units have rigged environmental controls and fluorescent lighting. Power is provided by a portable generator pulled behind the truck, enabling the team to set up for operation at any accessible place.

When the team reaches a testing location, the van is expanded in just a few minutes. The walls move outward on the sides, forming a framework for the floor and roof panels and those for the extensions of the front and rear walls. The operation is mechanical, with a built-in crank operating the side walls.

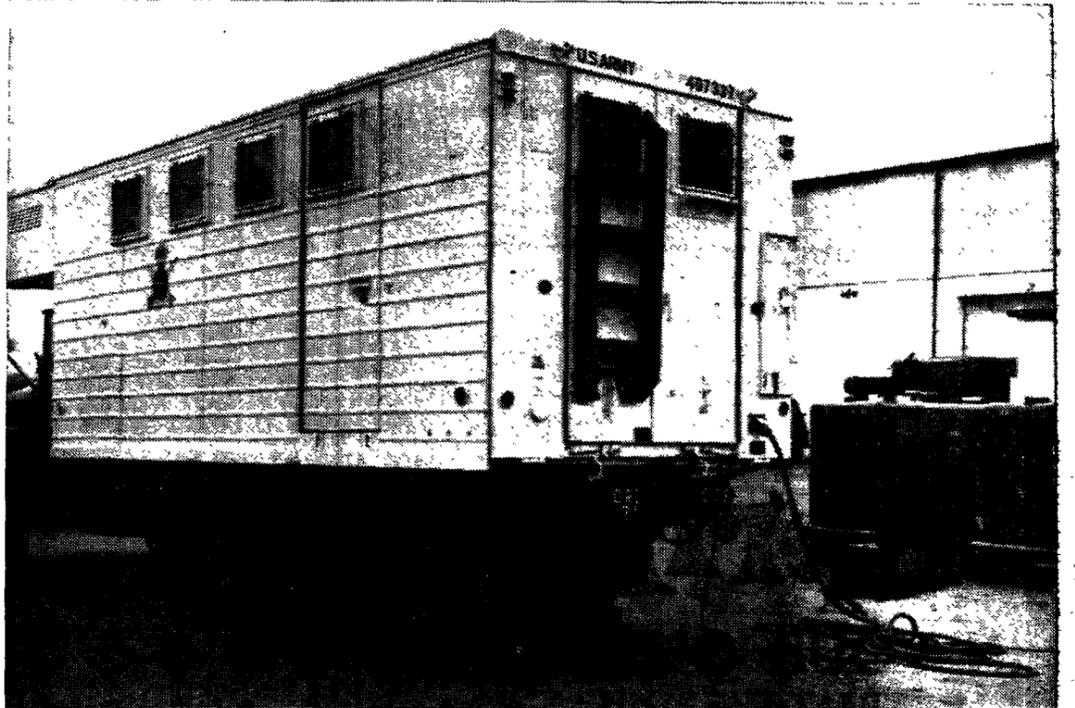
Although the sides of the van



WORKSHOP ON WHEELS—Calibration technician Fayette M. Lasley calibrates equipment inside the new mobile laboratory. Four work areas such as this are provided inside van when expanded.



READY FOR WORK—Special van stands with sides expanded, measures twice its normal width. Extra space is used for technicians to calibrate laboratory and shop equipment on-the-spot.



SET TO ROLL—Here's how new laboratory-on-wheels looks when sides are brought back in for traveling from location to location. Standard 2½-ton Army chassis carries van, pulls power generator (not shown) behind.

extend four feet on each side, there is no problem of balance or stability, as the bulk of weight remains in the center of the van, directly over the chassis. When a

particular job is finished, the van few minutes the team is ready to is once more folded up, and in a move to another location.



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Sports By Handy

POST PISTOL TEAM:

The Post Pistol Team attended the National Mid-Winter Pistol Match in Tampa, Florida on the 13 through 19th of March. Team members are Sp4 Peter T. Gregg, Co. A OGMS; Sp4 Rudolph F. Planthaber, Co. A OGMS; Sfc Francis H. Guercki, Hq & Hq AOMSA; and Lt. John W. Coleman, Troop Command, AOMSA.

Sp4 Gregg firing in the Expert Class .22 caliber competition achieved First place in slow fire; First place in timed fire; First place in .22 aggregate; and third place in National Match Course.

Sp4 Planthaber, Sharpshooter in the .22 caliber competition won Second place in rapid fire. Military personnel at Redstone Arsenal are urged to try for the team by calling Lt. John Coleman, 876-2089 for information.

BASKETBALL:

Third Army Basketball Tournament ended with the unbeaten Ft. McClellan team defeating Ft. Benning for the Championship. Ft. McClellan made it a clean sweep with a sound victory over a hot and cold Ft. Benning 90-74. McClellan showed consistency throughout the tournament and was undoubtedly the best team. At half-time McClellan had a lead of 47-32. Benning came out strong and managed to cut this to eight points, but found itself unable to continue the press.

BOWLING:

Tournament of Champions will be rolled at the Arsenal Bowling Lanes, Bldg. 3619, on Apr. 16, 17 and 18, at 6:30 p.m. Participation is limited league championship teams, in all male leagues on post for the 1961-1962 season.

Only military personnel (active duty or retired) may participate. Eligible non-ABC members can pay an unattached membership fee of \$1.50 and be covered by ABC high score protection. Teams from leagues of less than five man teams may use regular substitutes or complete the team from runner-up teams in their leagues.

Any man who was on the roster of a team eligible for the tournament at the end of the current season will be permitted to bowl with that team. However, only five men will bowl each team game. Averages for each participant will be highest league average at the end of the current season at the Post Bowling Lanes, providing 12 or more games have been bowled to establish averages.

Bowlers not meeting the above condition must use the highest league average (12 games or more) for the past two seasons, or bowl

at scratch (200 average Handicap will be 70% of the difference between bowler's average and 200.

Championship will be determined by highest total pin fall, including handicap. In case of a tie for first or second place, three more games will be bowled on one pair of lanes. High game will rate duplicate prizes. No blind scores nor late starters will be permitted.

Team captains will draw for starting lanes each day. Team will move to the right one pair of lanes after each game. Each team will bowl three games per day for a total of nine games.

A minimum of five (5) games must be bowled during the tournament to qualify a player for an individual award. For the high average, a minimum of seven games must be bowled. No individual is eligible for more than one individual award. The cost is \$.30 per lane or a total of \$2.70 per individual.

Competition in this tournament is governed by ABC Rules.

The Special Services Officer rules on protests, disputes, or complaints. His decision is final, unless an appeal is made to the ABC. Trophies include one for each member of the championship team, and the runners up, Championship Team, Runner-Up Team, individual high handicap game, individual high handicap series, and individual high handicap average.

League secretaries are urged to get their leagues up to date. Team scores and outstanding individual in the league will be reported. Full name, rank, and unit, of the individual is desired and his accomplishment.

Standings on Mar. 20 for the leagues at Redstone Arsenal Bowling Leagues:

| RSA Scratch Trio League | | | |
|-------------------------|-----|------|--|
| Team | Won | Lost | |
| Strikes | 70 | 35 | |
| Pick-Ups | 69 | 36 | |
| Proprietors | 67 | 38 | |
| Havolinas | 65 | 40 | |
| Splits | 58 | 42 | |
| Rusty Needles | 42 | 63 | |
| Unknowns | 36 | 59 | |

| Thursday Morning Ladies League | | | |
|--------------------------------|-----|------|--|
| Team | Won | Lost | |
| Sleepers | 60½ | 39½ | |
| Dreamers | 51 | 49 | |
| Four Pins | 51 | 49 | |
| Bowlettes | 48½ | 51½ | |
| Bottoms-Up | 40 | 60 | |

| RSA Junior League | | | |
|-------------------|-----|------|--|
| Team | Won | Lost | |
| Alley Fiends | 22 | 14 | |
| Cat Pins | 21 | 15 | |
| Channel Rollers | 20 | 16 | |

| | | |
|----------------|-----|-----|
| Splitters | 20 | 16 |
| Sharpshooters | 18½ | 17½ |
| Unpredictables | 18 | 18 |
| Foul-Ups | 17½ | 18½ |
| Lucky Strikes | 10 | 26 |

Officers Mixed Doubles League

| Team | Won | Lost |
|--------------|------|------|
| D-Yanks | 151 | 83 |
| Pin Droppers | 146½ | 87½ |
| Hi-Counts | 136½ | 97½ |
| Bombers | 123½ | 110½ |
| Bowl Weevils | 115½ | 118½ |
| Pin Poppers | 92½ | 141½ |
| Red Stones | 86½ | 147½ |
| D-Doms | 83 | 151 |

OGMS Officers League

| Team | Won | Lost |
|-------------|-----|------|
| Hawks | 67 | 33 |
| Researchers | 57 | 43 |
| OTD | 54½ | 45½ |
| Bohunks | 51 | 49 |
| Signalers | 46 | 54 |
| Alley Cats | 46 | 54 |
| Troopers | 40½ | 59½ |
| R&C No. 2 | 38 | 62 |

RSA Officers League

| Team | Won | Lost |
|----------------|-----|------|
| Bandits | 75 | 33 |
| Industrialists | 62 | 46 |
| Alley Cats | 53 | 55 |
| Spoilers | 52 | 56 |
| Robe's | 52 | 56 |
| King Pins | 48 | 60 |
| Slow Burners | 46 | 62 |
| Medico No. 5 | 44 | 64 |

RSA Enlisted Mens League

| Team | Won | Lost |
|------------------|-----|------|
| ABMA | 71 | 29 |
| ARGMA No. 1 | 60 | 40 |
| Special Services | 57½ | 42½ |
| Medics No. 1 | 49½ | 50½ |
| ARGMA No. 2 | 47½ | 52½ |
| 55th Army Band | 45½ | 54½ |
| Hq AOMSA | 43 | 57 |
| Medics No. 2 | 26 | 74 |

Officers Wives League

| Team | Won | Lost |
|----------------|-----|------|
| Rock-Rollers | 55½ | 44½ |
| Alley Cats | 54 | 46 |
| Unpredictables | 54 | 46 |
| Cherry Pickers | 53 | 47 |
| Rockets | 53 | 47 |
| Missilettes | 47 | 53 |
| Untouchables | 42 | 58 |
| Head Pins | 41½ | 58½ |

RSA Enlisted Mixed Doubles League

| Team | Won | Lost |
|----------|-----|------|
| Four H's | 69 | 35 |

| | | |
|----------------|-----|-----|
| McSchletts | 65 | 39½ |
| Mor-Rum | 56 | 48 |
| Cool-Toms | 54½ | 49½ |
| G. E. R. M. S. | 53½ | 50½ |
| Spoilers | 47 | 57 |
| Hot Shots | 40 | 63½ |
| Team No. 8 | 31½ | 72½ |

School Troop Command League

| Team | Won | Lost |
|-------------|-----|------|
| Co. B No. 2 | 70 | 34 |
| Signal | 66 | 38 |
| Co. B No. 1 | 57 | 47 |
| Hq & Hq | 54 | 50 |
| Co. A No. 2 | 48 | 56 |
| 2nd ETC | 48 | 56 |
| Co. A No. 1 | 42 | 62 |
| 1st ETC | 31 | 73 |

Army-Air Force Officers

| Team | Won | Lost |
|---------------|-----|------|
| Lucky Strikes | 133 | 75 |
| Jupiters | 132 | 76 |
| Pin Splitters | 117 | 91 |
| AF Juplos | 109 | 99 |
| King Pins | 94 | 106 |

| | | |
|------------|----|-----|
| OGMS | 85 | 115 |
| Black Jack | 81 | 127 |
| Raiders | 71 | 137 |

PICNIC AREAS:

"Picnic time" is just a few days away. Put in reservations for the Tennessee River Picnic Area at least ten days ahead. The Area is scheduled to open on the May 1, weather permitting. The Sports Branch, 876-2943 is taking reservations. Normandy Farm is not reserved. Only military units, personnel and dependents are authorized use of picnic areas.

SWIMMING POOL:

Special Services Swimming Pool is tentatively scheduled to open on May 1. Schedules of swimming classes and open swimming for military personnel and their dependents will be published by the then.

Notices of swimming classes rules will be published soon.

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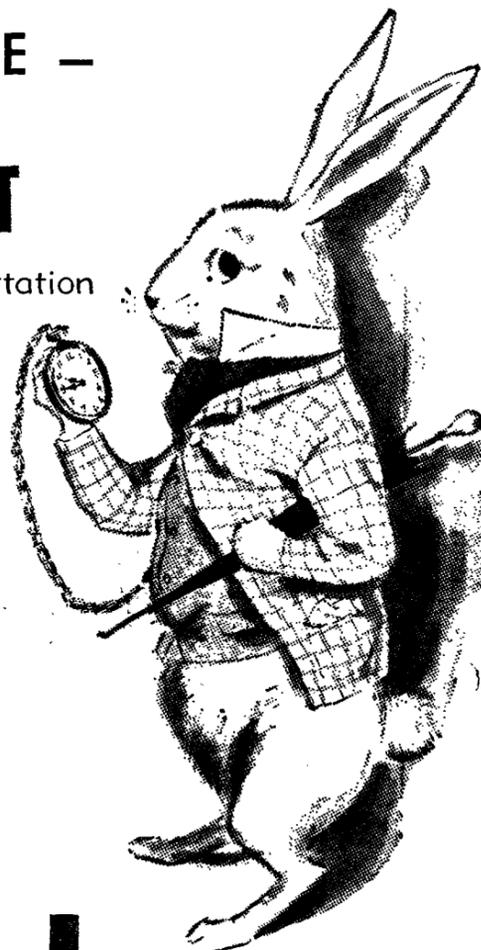
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The Sports Car Buffs

By Pat Patterson

The talk of the Sports Car world this week is Sebring 1952, so for those of you who were not there, or have no inkling of what happened, here is a run down.

Joakin Bonnier of Sweden and Lucian Bianchi of Belgium drove their flame red Ferrari to victory in the 1962 version of this 12 hour endurance race. In covering 206 laps, or 1,030 miles their twelve cylinder prototype car averaged 89.142 mph, far short of the record for the course but still enough to win.

The favorite Moss-Ireland Ferrari was disqualified after seven and one half hours when they were reentered two laps too soon during a pit stop, which they claimed was just for tires and brakes. Both were very perturbed about the situation and stated the pit steward broke the seal after the car stopped and the mechanics seeing the tank open naturally assumed they were to gas up.

Pit Steward Chief, John Baus, stated the mechanics must have made a mistake. "My stewards don't open the gas tanks unless someone tells them to," he said. I also can vouch for this, having worked as a steward at last year's race and in talking to Harvard Eng, who worked this year, confirms Mr. Baus' position.

Second place went to last year's winner, Phil Hill, Calif. and Olivier Gendebien of Belgium. Their second place overall, while driving a Ferrari GT Berlinetta, netted them a first in the GT class and won many valuable points for Ferrari towards the manufacturer's championship.

The Index of Performance went again this year to Porsche when Americans Bruce Jennings, Frank Rand and Bill Wuestoff brought their diminutive car in for third overall.

The best finishing American-made car was the sixth place, Chevrolet-powered, Chaparral pi-

loted by Ronny Hisson of Texas and Chuck Daigh of California. The Corvettes, the US's only production sports car, could do no better than 18th position.

An estimated crowd of 25,000 race fans saw the rapid pace and heat take their toll as only 35 of the original 65 entries were still running at the finish.

While many of us wished we could have been at Sebring, circumstances did not permit the trip, so we organized a Sebring of our own. Starting with a Rally from Huntsville we converged on the Hardiman's residence in Florence where our Sebring course is located.

This course is a miniature version of the original and is set up on a table top in "Doc" Hardiman's living room. I am speaking, of course, of the small scale road racing sets I have mentioned in this column before. There were many preliminary races and finally worked it's way down to the top eliminators, Dr. Hardiman and this writer. I can safely say that I as thoroughly trounced by "Doc" and then had the honor of presenting him with the winners trophy.

The rally was won by the lone car that ventured from Florence to run. A. Lynch and his wife Jean came in with the amazingly low total of 3 penalty points.

A good time was had by all and it took our minds off of the fact that we were unlucky enough to miss the real Sebring this year.

In the line of future activities, the Twickenham A. C. will meet tomorrow night at Clark Steadman's, located at the corner of Jordan Lane and Holmes Avenue. Some will gather for dinner around 6:30 P.M., while the business will get underway near the 7:30 P.M. mark. Try and make this one as we will more than likely have a first hand report on Sebring as well as the trophy presentation for the "das Bild" Rally.

This coming weekend will see the meeting and pre-meeting ral-

Mrs. Crane Captains Winners of Dog Fight

Twenty-four members of the Golf Group sponsored by the Redstone Arsenal Officers Wives Club participated in the "Dogfight" competition at the Arsenal course on Wednesday.

The winning team was captained by Mrs. Glenn Crane with teammates Mrs. W. H. Wishart, Mrs. William Whitten, Mrs. C. W. Goldrey, Mrs. J. L. Fishback and Mrs. R. J. Scofield.

The Spring Ringer tournament began on Apr. 1 and will end on May 31.

SODALITY MEETS FRIDAY AT CHAPEL

The Redstone Catholic Women's Sodality will meet in the Social Room of the Post Chapel at 10 a.m. Friday.

Mrs. William Egan will present the annual report of the International Relations Committee. Mrs. Pedro Sanchez from Cuba and Mrs. William Shaw of South Vietnam will be interviewed on the effects of communism in their countries.

The Rocket Nursery will be used for child care during the meeting instead of the Chapel Nursery. Members must make their own reservations with the Rocket Nursery. Mass will be celebrated at 11:15 in the Post Chapel following the meeting.

lye of the Bon Heur Car Club in Florence on Saturday night and the possibility of a Slalom on Sunday. There is nothing definite on the latter at this writing however I will have all the details by the time you read this. Contact me for details at 876-4852 (days) or 877-5663 (nights).

Remember, all you who want to race, that the Alabama Region, SCCA is holding their drivers school at Courtland the following weekend, April 14 and 15. If you want to race, this is a must attend event.



Comptroller People Receive Assignment

Permanent assignments of key personnel in the Comptroller's office have been announced for the Army Ordnance Missile Command.

Personnel and their assignments: R. C. Lowery, Deputy Comptroller; D. F. Karas, chief of pricing and internal review division; S. J. Farber, chief of the accounting division; G. A. O'Reilly, chief of the planning and analysis division; F. T. Porges, Chief of the Systems Division; and H. M. Williams, Chief of the Administration Office.

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SOCIAL ^{and} CLUB EVENTS

Entertainment Section

By SP4 Brett Combs

My colleague, Pvt. Art Kalin, and myself have been busy these past few weeks preparing activities for your enjoyment.

This week we started rehearsals for our production of "The Drunkard," which will be presented May 10 and 11 at the Service Club. Most of the main characters have been cast, but those who are interested in performing bit parts, please contact us here at the Service Club. Our production team has also started work on the set. Anyone desiring to participate on this end of the show will be more than welcome. I hope those who will see the show, and I hope you all do, will enjoy it as much as we are enjoying it. Do make plans to see it.

I think this is the appropriate time to mention the winners of the Post-Wide Talent Contest. Pvt. Allen Kindth played the piano and won the instrumental solo.

The "Four Pints" took the group instrumental. Comprising the "Four Pints" were Aksel Pedersen at the piano, Gilberto Morales on trumpet, the bass was played by James Milner and Raymond Mancinelli at the drums.

Arthur Kalin walked away with the solo vocal category, while the "Three Buttons" sang to top the vocal group. Aksel Pederson, Raymond Mancinelli and Walter Seymour performed as the "Three Buttons." I would like to thank the judges, Capt. A. Fellers, Pfc. Paul Schattell and SP4 Paul Kruck for their time and sincere effort in judging the competition.

The square dance classes are going fairly well. There is a good possibility that we might have a square dance outside. It should be a lot of fun. Make it a point to come by on Tuesday nights for the classes.

If any additional information is desired on the above items, please contact SP4 Brett Combs or Pvt. Art Kalin, 876-4531.

Toastmasters Plan Convention in April

Convention for District 48 Toastmasters International is scheduled in Huntsville Apr. 27-28.

Chairman and co-chairman for the event respectively are William J. Millsap, Deputy Chief of Programs Control Office, Research and Development, AOMC, and Thomas G. Roberts AOMC physicist in R and D.

A tour of AOMC facilities and of the Marshall Space Flight Center is scheduled Friday.

Toastmasters, an educational organization in self-development representing men from all walks of life, will highlight the convention with a banquet and speech contest on Saturday night. Another R and D man, Holland Gilmore, Program Specialist, will represent North Alabama.

Chemists to Talk About 'Dirty Air'

The Alabama Chapter of the American Institute of Chemists will meet tomorrow in Huntsville, to hear a panel discussion on "Dirty Air—Fallout and Smog."

The meeting will be at the Holiday Inn on South Parkway, Huntsville.

The panel will be composed of seven persons having a different reason for being concerned with fallout and smog so that several view points can be recognized.

The panel includes Col. Robert W. Allgeier, Intelligence-Operations and Security, AOMSA; Dr. William W. Carter, Chief Scientist, AOMC; Mr. Ramsom E. Crawford, director-coordinator, Huntsville-Madison County Civil Defense Corp.; Dr. Otis F. Gay, Madison county health officer, Huntsville Mayor R. B. Searcy; Dr. Burton S. Shook, chief, Occupational Health Service, AOMSA; Mr. George L. Wyatt, Industrial Hygienist, OHS, AOMSA.

Moderator will be Dr. David C. Sayles, technical staff, propulsion laboratory, AOMC.



SPRING FASHION SHOW—Mrs. Lou Smotherman and Miss Peggy Neal select clothes to be shown in the Spring Fashion Show at the Rocket Service Club while SP4 Brett Combs looks on with approval.

Fashion Show Scheduled at Service Club

A Spring Fashion Show is scheduled at the Rocket Service Club Tuesday, Apr. 10 at 8 p.m. under the direction of Miss Molly Patterson, Recreation Director, and Miss Betty Hayes Program Director.

Clothes will be furnished by two local Huntsville Merchants and will include both men's and Ladies Spring and Summer fashions from cocktails to casuals.

Hunter Todd of Radio Station WFIX and Redstone Arsenal will be narrator. A local beauty salon in Huntsville will create exotic hair styles for the models. There will be door prizes for both the ladies and men attending the Show. All Military Personnel, their families and friends are invited.

Show time is 8 p.m.

Models include Mrs. Lynn Salter, Miss Beverly Lanza, Miss Peggy Neal, Miss Barbara Wynn, Miss Barbara Richardson, Miss Betty Hayes;

Pfc. V. Dan Trivett, Pfc. Paul Kruek, SP 4 Fred Gros and SP4 Brett Combs.

Special entertainment will include a musical interlude by Pvt. Art Kalin and Pvt. Allen Kindth.

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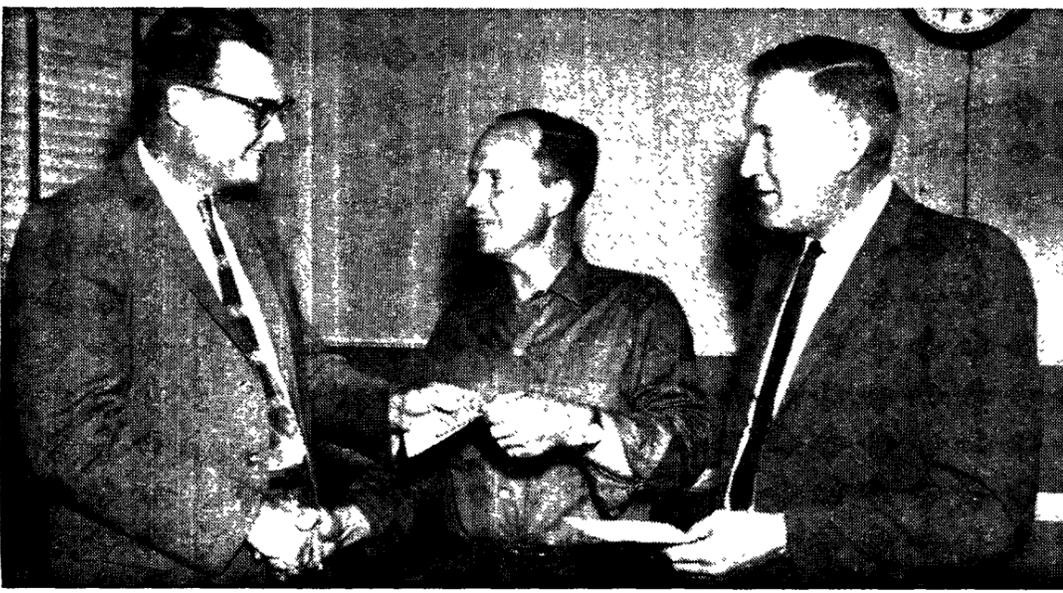
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AVERAGES ACCEPTABLE SUGGESTION EVERY SIX MONTHS—Bill Gipson (center) has averaged an acceptable suggestion in the Incentive Awards program every six months for the past four years. He is congratulated and given a check by Herman L. Hollingsworth (left), chief of the Technical Operations administrative section while William J. Anderson holds another check. Mr. Gipson was in the Army during World War II and saw duty in France, Belgium, Germany and Holland. His family includes daughters Caroline Sue, 14, Neida Marie, 12, and his wife Helen. Gipson has worked at Redstone Arsenal since his separation from the Army in January 1946, is now a guided missile equipment inspector. For relaxation he fishes and hunts.

At the Service Club

Spring is in the air! Our big event for this week to welcome the season is the Post-Wide Spring Fashion Show. The models will not only show you the fashions for Easter Sunday, but they will

also model the new look in swim suits.

The Enlisted Men's Council will meet today at 1400 hours. The April program will be discussed, and plans will be made for May. Check with the men in your units for suggestions for the May program. Let's make this our best EM Council meeting of the year.

Our usual Wednesday evening Dance Classes will start tonight for the Beginners at 1800 hours. The Advanced Students will take over the Main Lounge at 2000 hours.

Game Favorites will be played on Thursday, Apr. 5 at 1930 hours. Prizes will be given to the winners of the favorite card games.

A Table Tennis Contest will take place on Friday, Apr. 6 at 2000 hours. I know that there are many good table tennis players around that should enter this contest. If we have enough interest in the Table Tennis Contests for the next two months, maybe a Post-Wide Table Tennis Tournament can be scheduled in the near future.

Small Games, including Monopoly, Sorry, Clue, and Tactics will be played in the Little Lounge on Saturday, Apr. 7 at 2000 hours. Coffee and Donuts will be served on Sunday, Apr. 8, at 0930 hours.

Platter Parade is the theme for the Record Dance on Apr. 8 at 1900 hours. A Dance Contest will be the big event of the evening with prizes given to the winning couple.

Game Night will take place on

Monday, Apr. 9 at 2015 hours.

MISCELLANEOUS:

Pvt. Cecil Herter, 3rd ETC, and Pfc Rodmell Rivera, Co. B OGMS, were the winners of the Pool Contest for March.

Sp 4 Merv Anderson, 510th Ord Det., and Sp 4 Bert Wetmiller 510th Ord Det. were the Pinochle Champions for the Post-Wide Pinochle Tournament. Runners up were: Sp 5 Mitchell Clebanoff, Sig. Det., and Pfc. Leland Benjamin, Sig. Det.

Once more I would like to remind you of the Post-Wide Spring Fashion Show on Tuesday, Apr. 10 at 2000 hours.

See you at the Service Club.

Betty

Gen. McMorrow Will Tell About Redstone's Future

Maj. Gen. Francis J. McMorrow, Vice Commander of the Army Ordnance Missile Command, will address the Redstone Arsenal Officers Wives Club during the Sher-

ry-Coffee-Tea scheduled at the Squirrel Hill Officers Club on Tuesday, Apr. 10.

The General will talk about Redstone Arsenal and the Future. During his talk, the doors will be closed and late comers will wait until after the talk is completed before the doors will open again. The talk is scheduled for 2 p.m.

ORDNANCE SUPPLY CONFERENCE HELD

Representatives from various Army Ordnance installations, including the Army Ordnance Missile Command, attended a conference held by the Ordnance Supply Systems Field Agency, located at Rossford Ordnance Depot, Ohio.

The purpose of the conference was to explain and discuss the Military Standard Requisitioning and Issue Procedure, (MILSTRIP).

The Ordnance Supply Systems Field Agency has responsibility for developing an Ordnance training program covering this new requisitioning and issue system. The system is to be uniform throughout the military and will cover all inter-service and intra-service supply operations world-wide. It is based upon a single set of procedures and documents for use by user and supplier.

The training program developed by the Ordnance Supply Systems Field Agency consists of training manuals, film strips, tape recordings, and other aids.

Clark L. Wood and Harold Baum represented the Army Ordnance Missile Command at the conference.

Immediately following the General's speech a social hour is scheduled. Reservations are due by noon on Friday, Apr. 6.

Mrs. Edward R. Billings, 877-4543 and Mrs. Robert L. Trosper, 877-5445 are handling the reservations. Mrs. William J. Nelson, 877-5746, will accept cancellations until 10 a.m. on Monday, Apr. 9.

The Industrial Directorate wives are in charge of the event.

TOASTMASTERS DEBATE

The Redstone Arsenal Toastmasters Club held a debate March 27 on the subject: "Should the United States Join the European Common Market?"

The team taking the negative side won the debate. Winners were Larry Wood and Charles Stokes. The meeting was held at the Officers Club.

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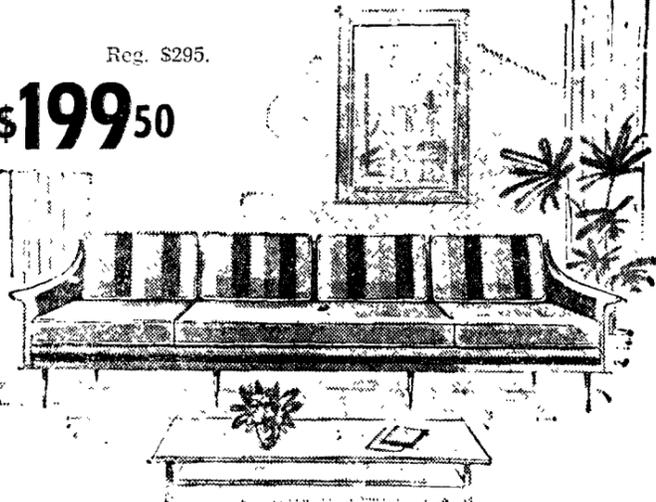
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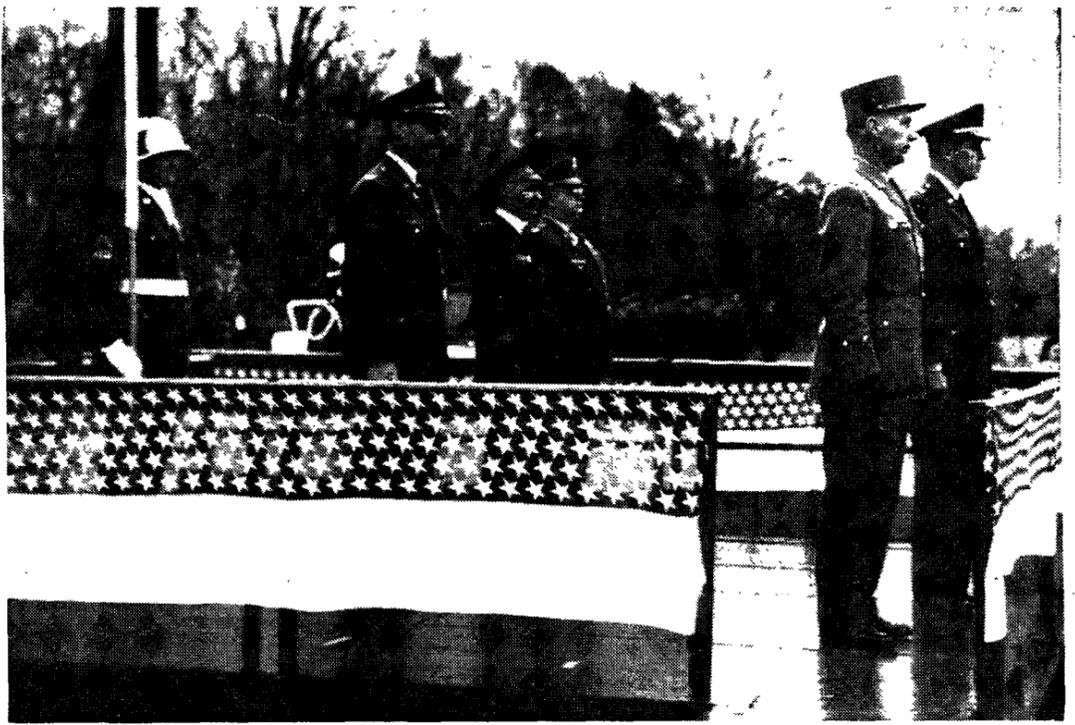
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FORECAST: SUNNY AND WARM — Vivacious Bonnie Dwyer, April's Calendar Girl, kicks up her heels in the sunshine and salt air at Miami Beach. It's obvious she's not concerned about the showers usually forecast for the month.



REVIEW AND PARADE—French Maj. Gen. Jean Doin (front, left) shared the reviewing stand with Brig. Gen. John G. Zierdt, Deputy Commanding General for Guided Missiles, AOMC at Friday's parade and review in which all elements of U. S. Army troops at Redstone Arsenal participated. This was the first parade of the 1962 season. Back row representing AOMSA is Col. H. J. Katz, Deputy Commander; French Col. Roger Gruie (center), and OGMS Commandant, Col. William J. MacPherson.

INCENTIVE AWARDS

Seven employees of the Research and Development Directorate, AOMC, were recently commended by Col. Raymond W. Burkett (left), director of R&DD, for outstanding performance.

Six received sustained superior performance certificates with cash awards, and one received an outstanding performance certificate.

Wetherill Will Go To AOA Conference

Giles P. Wetherill of the AOMC's Industrial Directorate will attend a two-day annual meeting of the Artillery Ammunition Division of the American Ordnance Association to be held at Picatinny Arsenal, N. J., Apr. 18 and 19.

Brig. Gen. Joel G. Holmes, USA (Ret.) will be chairman of the meeting which will deal primarily with the technical aspects of manufacturing conventional-type ammunitions.

Those recognized were: Joyce Thompson, clerk stenographer in the Surface to Surface Missile System Office; Nina C. Bradley, clerk typist in the Program Coordination Office; Charlotte Boullomet, personnel clerk in the Operating Services Office; and William C. Watson, director of the Launch and Ancillary Equipment Laboratory;

Chester Lee and Gerald Talton, both teletypists in the Communications Center; and John P. Halowes, Jr., director of the Research Laboratory, who received an outstanding performance certificate.

Howard Raspilair, an electronics instructor was awarded a certificate and a check for a suggestion now incorporated in current training programs at OGMS. Mr. Raspilair works in the Maintenance Supervisor Section, Nike Branch, Dept. of Individual Training.

Three members of the Consolidated Supply Division of AOMSA

French General Shares In Review and Parade

Seven Army Men Retire During Ceremony Friday

Brig. Gen. Jean Doin, chief of advanced technical and scientific studies of the French Army, stood beside Brig. Gen. John G. Zierdt, Deputy Commanding General, Guided Missiles, AOMC, on the reviewing stand Friday afternoon at the parade and review for seven retiring military men.

Retiring officers present on the reviewing stand were Col. C. Rollins, Jr., Operations Officer, Post Engineer; Lt. Col. James W. Soverns, AOMC Inspector General; Lt. Col. Carroll I. Thompson, Deputy Chief, Surface-to-Surface Missiles Division, Research and Development Directorate; and Maj.

received certificates and cash awards for suggestions. They are Sherry B. Pirtle, G. B. Moman, Jr., and James A. Baker.

George W. Allen, Executive Officer, Troop Command.

Also retiring that day were M/Sgt. Herbert G. Allen, SFC Jim E. Baggett and SFC Ralph R. Vogan.

All U. S. Army troops stationed here participated in the parade.

AOMSA was represented by Deputy Commander Col. Henry J. Katz, and OGMS by Commandant Col. William J. Macpherson on the

receiving stand. French Col. Roger Gruie also took part in the ceremonies.

A statement was read from Maj. Gen. August Schomburg, AOMC Commander, praising the retirees for their outstanding contributions to the Army and wishing them well in future endeavors.

Both the French and American national anthems were played during the ceremonies preceding the parade of troops. The 55th Army Band led the marchers past the reviewing stand.

Gen. Doin and a party of 26 French military scientists were at Redstone Arsenal touring AOMC, OGMS and NASA facilities.

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Term Papers Due Students Ask Help

It is spring of the year—term paper time over the nation—and nobody knows this better than the Army Ordnance Missile Command. Student mail requesting informa-

tion about the Army's rockets and missiles is flooding the Information Office of the Command.

Some of the questions asked are straightforward and to the point. But public answers would shake the foundation of the Pentagon and endanger the security of the nation. "I need to know the use of each part of a rocket."

Many questions indicate some

confusion about the nation's space efforts and military weapons development. A recent request from Andalusia, requested "the distance between the earth and any of the planets and the moon on any given date."

Some of the letters show personal ambition on the part of the students. One from Bell, Calif.,

states:

"When I grow up I want to be a scientist, but I do not think that I am going to be one because I always get a 'C' in Science. But I hope I can be one."

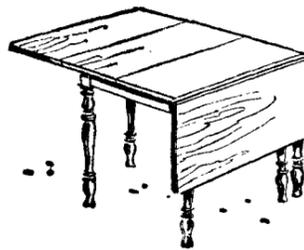
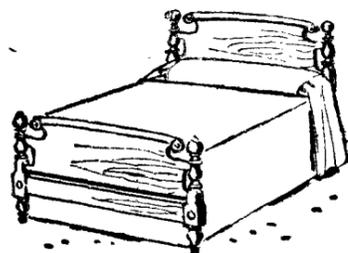
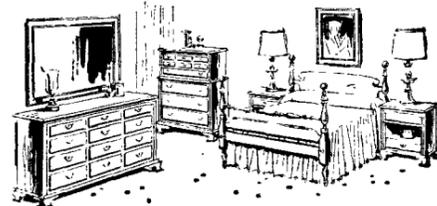
Other letters have an air of quiet desperation which indicates

the teacher's assignment has been accepted with something less than enthusiasm. Take this one from Hurricane, W. Va., for instance, the champion so far this year for utter simplicity:

"I would like some information on the things."

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PROMOTED—Col. H. L. Gotzian, Chief, AOMSA Control Office, congratulates Lt. Col. R. A. Bergmann upon his promotion last week. Looking on are Lt. Col. J. O. Green, Chief, Technical Operations AOMSA, left, Mrs. Bergmann, and Col. H. J. Katz, Deputy Post Commander.

TWO ARMY DOCTORS RECOMMEND CHANGING SOLDIERS' PRESENT DIET

Washington (AFPS) — A change in diet to reduce the amount of fat intake has been recommended for the Army by two doctors. The recommendations were made by Col. Weldon J. Walker, Chief of the Cardiology Service at Walter Reed General Hospital, and Lt. Col. Jacques L. Sherman, Chief of the Medical Research Branch, Army Medical Research and Development Command. They say studies show the standard Army diet is of the type associated with an increased incidence of abnormally high fat content in the body and hardening of the arteries.

that hardening of the arteries is a major cause of death and disability among military personnel. The doctors recommended a reduction in foods such as whole milk, cream, butter, hard cheeses, beef, pork, solid shortening and chocolate. To reduce the fatty intake they recommended chicken, turkey, other fowl, fish and shellfish, cottage cheese, cereals, fruits, nuts and natural vegetable oil. The doctors said the desirability

of the recommended change is supported by the "best scientific information available at the present time." THE ARMY'S job of managing its supply system is the biggest supply management task ever to confront a single organization. The value of the inventory of Army stock in the continental U. S. depots is approximately 20 billion dollars. This is about one-third the value of all inventories of all manufacturers in the U. S.

HAWK EQUIPMENT CONTRACT IS LET

Award of a \$1,718,056 contract to the Raytheon Co., Lexington, Mass., was announced last week, for the continued production of Hawk guided missile field maintenance test equipment. The work will be done at Andover, Mass., Bristol, Tenn., and Oxnard, Calif., and assures continued employment for 75 to 100 persons.

THE ARMY INFORMATION PROGRAM . . . a 10-minute film presentation by Secretary of the Army Elvis J. Stahr, Jr., MF 20-9664, was released to Film and Equipment Exchanges on Dec. 1. The film emphasizes internal and external objectives of the information program and the role of the individual soldier in assuring success.

The Boston Ordnance District will administer the contract.

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The loan plan whereby the Credit Union pays \$25.00 of the insurance cost on new automobile financing terminated on March 31.



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Small Hand-Held Radar Is Developed by Army

Washington (AFPS) — A radar set small enough and light enough to be hand held and operated by one person has been developed by the Army Signal Corps Laboratories, Ft. Monmouth, N. J.

Despite its size the miniaturized radar set has a range of approximately one and one quarter miles and with it a trained operator can locate both stationary and moving targets and can recognize types of vehicles by their distinctive sounds.

An experienced operator recognizes a tank by its two-pitched sound caused by the separate motions of the vehicle body and its turning tracks.

The signal from wheeled vehicles is a single whine which varies in pitch according to the vehicle's speed. Soldiers walking create another distinctive sound caused by leg, arm and body motions.

The first experimental model is a box about the size of a portable typewriter fitted with a pistol grip to aim the search beam. Controls are mounted on the back surface of the box.

The operator aims the radar like a flashlight. When he hears a sound, he can read its distance from the set on a dial on the control panel. If necessary he can attach an auxiliary unit to the set for a visual display to augment identifications made by sound.

For prolonged surveillance from a single point, the set can be



Army's new portable radar

mounted on a small tripod. The entire system is powered by a light-weight belt battery which has an operational life of about 12 hours.

A farmer was "assisting" at the birth of his latest child — he was holding the lamp. The doctor had delivered a fine set of triplets when the farmer suddenly left the room. "Come back with the lamp!" yelled the doctor.

"Nope," was the reply. "Ain't comin' back, Doc! It's the light that's attractin' 'em."

Religious Services

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Bldg. 3714

PROTESTANT

SUNDAY—1000 and 1115 hours, General Protestant Services. (Chapel Nursery open during these services).

Church school — 1000 hours—Ages 3 years to adults. Classes for children and young people grades 1 thru 12, meet in Chapel Annex, Bldg. 3151.

All military and civilian personnel, and families are welcome. Youth Fellowship — 1730 hours — Junior High meets in Chapel Annex, Bldg. 3151.

Singspiration — 1800 hours—at main Chapel (Bldg. 3714). Sunday Evening Family Hour—1830 hours.

CATHOLIC

SUNDAY — Masses — 0730, 0845, 1230 and 1700 hours. (Chapel Nursery open during Masses).

Baptisms — 1330, or by appointment.

MONDAY — Adult Instruction Class — 1930 and 2130 hours.

TUESDAY — Perpetual Help Novena — 1930 hours.

Choir practice — 2000-2100 hrs. **FRIDAY** — Stations of the Cross — 1930 hours.

SATURDAY — Mass at Chapel Annex — 1115 hours.

Confessions — 1800-1930 hours. Daily Mass — 1115 hours.

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(Bldg. 9600)

CATHOLIC

SUNDAY — Mass 0800. Confessions half hour before Mass.

FRIDAY — Confessions 1900-1930. Adult Instructions 1930-2130. First Friday Mass — 1900 hours.

REDSTONE PARK CHAPEL
(Bldg. 9600)

PROTESTANT

SUNDAY — 0945 hours — Sun-

day School.

1100 hours — Morning Worship Service.

1800 hours — Youth Fellowship for all young people, age 9 or grade 4 and up.

1900 hours — Evening Worship Service. (Nursery open for both Worship Services.)

Through scholarships, fellowships, and other grants, Easter Seal societies have added more than 400 doctors, therapists and other professional workers to the highly skilled rehabilitation corps serving the physically handicapped.

Girl: "I made this cake all by myself."

Sailor: "I understand that part of it. But who helped you lift it out of the oven?"

Rhymes of the Times

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GAIN FAME
AND SOME
GAIN Pelf;
BUT YOU
SHOULD
REMEMBER
YOU CAN'T FOOL
YOURSELF.
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Priced From \$15,500 to \$17,500

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\$17,500 to \$19,500

LOVE SUBDIVISION
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PRICED — \$15,500 to \$17,500

All of the Above Homes Are 3 or 4 Bedroom Bricks and 1 & 2 Baths

IF WE DON'T HAVE A HOME IN ONE OF THE ABOVE SUB-DIVISIONS WE WILL BUILD YOU ONE.

Many Equities For You To Choose From!

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PHONE 536-6696

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WANT AD RATES — \$1.50 minimum, per weekly insertion, covering first 25 words. 4 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. Zillah Heath, P. O. Box 346, Room 217 Times Bldg., Huntsville. Deadline is Monday, 9 a. m. for the week's edition.

FOR SALE — 1961 MG — Black, extra clean, only 9,000 miles. Phone Texas Auto Sales 536-6121. ttc

WHY PAY RENT? Live in a modern duplex home while your neighbor pays all expenses. Call NOW . . . 534-2652. ttc

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FOR RENT — Two 3-room apartments, one at 417 Clinton Ave., East.; one at 419 Clinton Ave., East, air conditioned, off street parking. \$75.00 per month each. Phone 534-5127 or 534-4551. ttc

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FOR SALE — Home on Guntersville Lake. 3 bedrooms, 1½ baths, extra large family room with stone fireplace, electric dishwasher, covered patio and barbecue pit. Private dock and boat house equipped with electric hoist. Located on large lot in year 'round sub-division convenient to schools and shopping center. Only 30 minute drive from arsenal gates 2 and 3. Can be seen anytime at Warrenton Shores on Guntersville Lake, ½ mile south of Arab causeway. Contact R. J. Broun, Warrenton Shores, phone Guntersville 582-3713 or any Guntersville real estate dealer. ttc

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WANTED TO BUY clean used cars "We can use yours." Call us Robinson Auto Sales, 810 Madison St. Phone 539-8551. tfnc

NEW FIREPROOF CAMP on big wooded lot. Two bedrooms, kitchen, living room with fireplace, bath, garage, screened porch, vinyl floors. Furnished. Elk Shores Subdivision on Elk River. \$7450. Call 876-2504 or Athens 232-2844. 4-4p

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GLEN PARK APARTMENTS NOW OPEN
● Immediate Occupancy ●
● Model Apartment Open From 2 p.m. 'til 7 p.m. Daily! ●
APPLICATIONS NOW BEING CONSIDERED

Luxurious Living at Moderate Cost
Indoor-outdoor living, soundproof walls and floors, beautiful kitchens, with custom built cabinets, living room drapes by Martin Interiors, choice of beautiful vinyl tile or hardwood floors, complete air conditioning, pre-wired for telephones—TV outlet available, spacious closets, complete laundry facilities (planned) ample parking for residents and guests, play area for children.

Glen Park Apartments Are Conveniently Located Near schools, shopping areas and churches. Only minutes from Redstone Arsenal and downtown Huntsville. But words can't begin to describe the full charm of these apartments; you must see them for yourself . . . right away!

DIRECTIONS Go North on Memorial Parkway to first street past Albert Pick Motel (Mastin Lake Road), go 500 yards—turn left—Glen Park Apartments at end of street.

— **Unfurnished** —
\$97.50 PER MONTH . . . Furnishings Can Be Arranged

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OWNER - DEVELOPER 534-2652

MOUNTAINBROOK — 4 bedroom brick with beautiful view. Living room-dining room combination, paneled family room and kitchen, full basement, double carport, shown by appointment. Phone 536-2787, 2000 Shades Crest Road, S.E. 1tp

IDEAL VACATION SPOT — Swim, fish, ski, boating, dock, pier, launching ramp. Rent furnished modern, 4 room cottage. Right on lake. Available immediately. Apply Nolan Motel, Guntersville. Phone 582-3178. 4-7c

FOR SALE — 1960 Metropolitan Cpe.—Black and white. Beautiful and cheap to drive Texas Auto Sales. Phone 536-6121. ttc

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LEE TRANSFER & STORAGE COMPANY
Agents For
Whitney Transfer Company
PHONE: 534-7411 Days
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LOT FOR SALE on Guntersville Lake — 175' waterfront, 25 mi. from Huntsville. Lights, water, telephone available. Phone 539-5310. 4-4c

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. ttc

HAVE TRAILER - NEED HOUSE — Changing job location? Take your home with you! Consider our '59 Anderson Mobile Home —one of the better quality homes. In like new condition, 10'x50'. 2 bedroom, 1½ baths, automatic washer, air-conditioned, etc. Will sacrifice for \$5970 total cost, other financial arrangements if interested. Recent DA Reg. increases commercial hauling rate to 36c per mile. Appointment only. Pho. 539 6857 or 876-4669. 4-5c

HEADQUARTERS for Foreign Cars, Convertible Tops and Complete interior upholstery at The Auto Center, 2208 Clinton Ave., W., Huntsville, Ala. Phone 539-0382. ttc

SEAT COVERS \$13.50. Convertible Tops, Headliners, Carpets, and complete interior upholstery is now available at The Auto Center, 2208 Clinton Ave., W. Telephone 539-0382. ttc

FOR RENT — 2 bedroom unfurnished house on McCormick Dr. \$75.00 per mo. Phone 534-5127 or 534-4551. ttc

NEW, SENSATIONAL — Combination Milling Machine, jig borer, lathe drill press. Guaranteed tool room accuracy at a low price, ideal for laboratory or work shop, phone 539-2022. ttc

MODERN HEALTH Club Services — Central YMCA, 203 South Green 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

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

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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). ttc

FOR SALE—Ironworkers jackets, and overalls, quality guaranteed. Carhartt, all sizes. Also Liberty carpenters overalls, solid blue and stripes. Union Dry Goods Co., 112 Jefferson St., Downtown Huntsville. ttc

(Continued on Page 15)

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OUR FIRST BIG SALE ---

TO MAKE IT A BIG SUCCESS WE HAVE

Cut Our Prices to Rock Bottom

Every Car On Our Lot Has Been Reduced!

FREE REFRESHMENTS WED., THURS., FRI. & SAT.

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| 1955 FORD 4 dr., V8, straight stick, solid blue. Ready to go. \$445.00 | 1956 CHEVY 6 cyl., str. shift, 2 dr., radio, heater, one owner. \$595.00 | 1956 DODGE CORONET 2 dr., hardtop, V8, auto, radio, heater. \$495.00 |
| 1956 FORD FAIRLANE 4 dr., green and white, V8, auto. \$550.00 | 1956 FORD PARKLANE Station Wagon, radio, heater, auto. \$595.00 | 1956 CHEVY BEL AIR Sport Coupe, V8, auto., clean. \$695.00 |
| 1956 FORD FAIRLANE 4 dr., hardtop, V8, auto. Average car. \$595.00 | 1957 OLDS "88" 4 door, one owner. \$795.00 | 1957 CHEVROLET 4 dr., hardtop, 6 cyl., S.S., one owner. Sharp. \$995.00 |
| 1956 CHEVY STA. WAG. 4 dr., V8, auto. A nice local car. \$595.00 | 1958 FORD "500" 4 dr., radio, heater, power steering. \$795.00 | 1957 CHEVROLET Station Wagon, 4 dr., V8 auto. trans., new tires, one owner. Nice car. \$995.00 |

LATE MODEL SPECIALS

| | | |
|--|--|--|
| 1962 FORD Galaxie "500", 2 dr. hardtop, radio, heater, auto. trans., white wall tires, 5,000 miles. Same as new. Look at this, save \$\$\$ \$2795.00 | 1959 PONTIAC Catalina 4 dr. hardtop, power steering and brakes. A beautiful solid white, local one owner car. The nices in town. \$1695.00 | 1959 CHEVROLET 4 dr. hardtop Bel Air. Power steering & brakes, factory air condition. Really sharp. 28,000 actual miles— \$1795.00 |
| 1960 RAMBLER 4 door, V8, automatic transmission, beautiful solid blue with new tires. \$995.00 | | |

— LOOK FOR —

"The Little Lot With Big, Big Savings"

(1 Block North of Huntsville Hospital)

ROBINSON AUTO SALES

810 MADISON ST. — DIAL 539-8551

Wantads

(Continued From Page 14)

FOR SALE — 1960 Plymouth — Big car room and small car economy. Has 6 cyl. engine and standard shift. The price is right so Phone Texas Auto Sales, 536-6121 for information. ttc

FOR SALE — New brick home and 18 acres of land. Four bedrooms and full basement. Located nine miles from Decatur and 18 miles from Redstone Arsenal. HARVEY P. BERNARD, P. O. Box 1412, Decatur; Phone EL 3-7552. 4-12c

LAKE FRONT LOTS, Guntersville — Beech Creek, 100'x300', \$1,000.00. Terms, \$100.00 down, \$20.00 per. mo. See T. M. Dor-man, call 586-4247 Arab, Ala. ttc

EELMONT — Transferred, owner selling 3 bedroom brick, 1 1/2 baths, garage, enclosed porch, air conditioned, fenced yard plus many extras. Near schools and Arsenal Gate 1. GI nothing down; FHA minimum down. Immediate possession. 2909 Bayless Dr. S.W. Phone 536-9783. ttc

VOLVO Magnusson Motors
Athens, Alabama
Your Huntsville Sales Representative
Phone 877-5972

FOR SALE — ELK RIVER COT-TAGE — 2-acre waterfront lot, 2 bedroom, fireplace, living-dining area comb., inside bath, hot-cold water. Furnished or unfurnished. W. G. McGlocklin, 1312 McMillan Ave. B'ham. ST 8-5941 after 6 p.m. 4-7p

FOR SALE — 1960 Renault Dau-phine—Exceptionally clean, has new rebuilt engine. Up to 35 miles per gallon of gas. Phone Texas Auto Sales 536-6121. ttc

WATER WELL DRILLED, pumps sales and service. Can be financed at bank rates with up to 36 months to pay. Call John W. Crunk, 536-2027. ttc

FOR SALE — New nice 3 bedroom house, 1 1/2 ceramic tile baths, completely air conditioned, access lot to lake. Minimum FHA down payments, in one of Guntersville's nicest sections. Price \$16,250.00. Will build homes in Arab and Guntersville 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, Guntersville, Ala. Phone JU 2-3027. ttc

DENMAN PREMIUM TIRES
30,000 to 50,000 Miles
Cost less than most major brand first-line tires.
— 4 to 8 p.m. —
North Alabama Products
2203 Meridian St. — 534-0439

DO YOU WANT TO BUY A HOME WITH:

1. Attractive corner lot?
2. 3 bedrooms, attached garage?
3. 1500 sq. ft. floor area?
4. Roomy kitchen with dishwasher?
5. Photographic dark room?
6. Swimming pool in 3 blocks?
7. Blossomwood school in sight?
8. Reasonable price?

PHONE 534-3996 ttp

**Convenient to Arsenal
4 Minutes From
BOEING AIRCRAFT CO.**

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OWNER**

Spacious 3 Bedroom Brick, 2015 Stanhope at the Foot-of-the-Mountain. 2 full batas. Large living area.
Immediate occupancy.
NO PRICES ON PHONE
Call for Appointment to See MR. WATWOOD at 539-7456 or After 6 p.m., call 534-9761 ttc

FOR SALE — No closing cost, just 1/2 of equity, take up 4 3/4% interest loan, 3 bedrooms, 1 and 1/2 baths, 1180 sq. ft., air conditioned, near Gate 8. Call 539-6803. ttc

CASH! FOR YOUR CAR — we need all makes and models. We will pay you more. We buy and sell imports, too. Texas Auto Sales, phone 536-6121. ttc

OVERSEAS and STATESIDE INSURANCE
INTERNATIONAL SERVICE INSURANCE CO.
Fort Worth, Texas
V. F. CARTER
2905 Bayless Dr., Huntsville
Phone 539-2356

3 APARTMENTS FOR RENT — one furnished and one unfurnished, 7 1/2 miles out on 72 west. Call Mrs. John W. Crunk, 536-2027. ttc

FRANCIS' NURSERY STOCK YARD—Fruit trees, evergreens, nut trees, flowers, shade trees. Drive over, select from our fine stock. Four miles east of Hartselle on H'way 36. SP 3-7652. ttc

FOR SALE — Old fashioned upright piano. Not much to look at but good tone. Howard made by Baldwin. Perfect for recreation room or children's piano lessons. \$45.00. Call 877-5342. ttp

FOR SALE — Refinished executive type desk. Excellent condition. Also apartment size gas stove. Call J. ROOKS, 539-2726 or 876-1995. ttp

1960 VOLVO — 17,000 actual miles. A beautiful white 2-door car. Same as new. Texas Auto Sales. Phone 536-6121. ttc

FLEMINGTON HEIGHTS— 4 bedroom, 2 baths, air conditioned. Weatheron heat pump. Large double carport on almost acre heavily wooded lot. Owner transferred. 7004 Hedgemont Lane, S.E. Pho. 536-2892. 4-11p

NEW SHIPMENT OF SHOES — Name brands, none priced higher than \$2.98, ladies' flats, casuals and high heels, all colors, sizes and styles. Children's Buster Brown and Child Life only \$2.98 a pair. Girls' patents and other color dress ups, also little boys' Buster Brown and many other name brands. Men's shoes \$4.98 to \$5.98. Family Shoe Store, located upstairs over Linn's 10c Store and People's Drug Store, Main Street, Arab, Ala. ttc

FOR RENT — Completely furnished efficiency apartments for men or working couples. Contact W&W Land Co., Phone 534-1451. ttc

FOR SALE — New home in Arab by Builder-Owner. 3 bedroom, kitchen-dining room comb., large finished utility room. Could serve as den. Two ceramic tile baths, carport, electric heat, city water. Call 586-7212 after 5:00 and Saturday. ttc

SACRIFICE — 1962 Pontiac Tempest, fully equipped, including power and factory air. Driven 3,600 miles. Will consider car or boat outfit in trade. Phone 534-6130. ttc

LOT FOR SALE — 8 miles out 72 East, 300 yards south of highway, plenty of shade. See Clyde Mooring at lot. Brownsboro, Ala. ttc

FOR SALE — Clean 1957 Ford, 4 dr. Fordomatic, 8 cyl., almost new W.W. tires, solid black, clean. Car needs no repairs. \$485.00. Phone 534-5528. ttc

FOR SALE — 1959 Karmann Ghia (Volkswagen). A beautiful car, low mileage, one owner, in new car condition. Phone Texas Auto Sales 536-6121. ttc

FOR SALE OR TRADE for low equity rental property. 1957 Cadillac convertible, 2 deer rifles, 2 new bunk beds. Will finance automobile. Phone 536-6775. ttc

LAKEWOOD — Reduced equity in newly decorated 3 bedroom brick, living and dining room combination, tile bath, attached garage, 4 1/2% G.I. loan. Phone 536-9148. ttp

ATTENTION BOAT OWNERS — Now is the time to repair or recover your boat cushions, tops and covers at the Auto Center, 2208 Clinton Ave. Phone 539-0382. ttc

FOR RENT — Very nice, large 50' x 10' House Trailer, auto. washer, all colored appliances, fully air conditioned, all utilities furnished. No additional expenses. Available April 5. Conveniently located to school and arsenal. \$110.00 per mo. Phone 534-5528. ttc

FOR SALE BY OWNER — Gracious living near Arsenal Gate 1. 3 bedroom brick, 1 and 1/2 baths, TV cable, air conditioner, carport and storage area. Close to schools, shopping, buses. Minimum FHA down. Phone 536-6491. ttc

2713 BARBARA DRIVE — Terry Heights Equity Sale. 2 bedrooms, 1 bath. \$37.00 per mo. Chase Realty Co., Phone 536-3286. ttc

FOR SALE — Serta full size mattress and box springs. Good condition. \$20.00 for both. Phone 534-9774. ttc

FOR SALE — 1960 Ford Convertible V8, auto., power steering, local one owner car. Very low mileage. Phone Texas Auto Sales 536-6121. ttc

FOR RENT—Live the year 'round on Guntersville Lake Beach. Piers and sandy beach, on Highway. Just 20 miles from arsenal gate. 2 rooms with bath for working couples or 2 men, slip at pier for boat furnished. Also beach residential house trailer space with shade, beach & pier privileges, water & sewerage furnished. Shown by appointment. Phone 536-3113 before 9 a.m. or after 9 p.m. ttc

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

AT AUCTION!!

Value Packed Real Estate You Set the Price!

Saturday, April 7th, 10:03 a.m.

THE PROPERTY OF MOUNTAIN LAKE LAND COMPANY

— APPROXIMATELY —

60 LAKE LOTS

ELECTRICITY, WATER & SEWER AVAILABLE TO ALL LOTS

BOATING,



**HUNTING,
FISHING!**

LOCATED IN BEAUTIFUL

KILLINGSWORTH COVE

13 MILES FROM HUNTSVILLE CITY LIMITS

2 BIG LAKES

One 85 acre lake and one 7 acre lake. Stocked with 2-lb. Bass. All lake privileges are yours when you purchase one of these beautiful, scenic lots — Plus for your enjoyment there's riding trails, fishing, hunting, boating, trapping, etc. Tackle shop and boat rental service available. Electricity, water and sewerage to all lots.

THIS IS YOUR OPPORTUNITY TO BUY ONE OR MORE OF THE MOST BEAUTIFUL LOTS IN THIS AREA . . . AND AT YOUR OWN PRICE!

FREE BAR B QUE and REFRESHMENTS

**TERMS: CASH or
25% DOWN**

Bal. on 5-Yr. Terms!

FOR FURTHER INFORMATION CALL
JACKSON & LUNDQUIST
AUCTION
COMPANY

911 MADISON ST. — PHONE 539-0720
"Across From Huntsville Hospital"

**DRIVE OUT TODAY
& LOOK THEM OVER**

— Directions —
Go H'way 72 East (The Chattanooga Route) 7 miles, watch for the signs, turn left and go approximately 7 1/2 miles. Paved road all way.

Rocket Motor Exhaust Can Be Analyzed in Lab

Better Fuels Will Result From New Efficiency Measure

An Army Ordnance Missile Command scientist has come up with a method of analyzing rocket motor exhaust without being singed by the exhaust flame.

A "ham" radio operator's set provided an important part of the tests, that can be used to probe the composition of the "hot" end of missiles without endangering the investigator.

The scientist was David Howgate, a physicist in AOMC's research laboratory. Although fuel studies are not his main line of work, he wanted to prove the feasibility of this method of studying simulated rocket exhaust.

From simulating rocket exhaust in the lab, the efficiency of the burning fuel can be determined in an area that previously was too hot to handle.

Better and more economical fuels can result from this close-up study of how missile exhaust acts. The low pressures of the test op-

erations prevents any danger of fuel explosion.

The electron paramagnetic resonance spectrometer, as it is officially known, has provided a simple solution for bearding the missile's thrust producer in action.

The "ham" set is not attached to a rocket motor or an aerial antenna. Instead, the antenna is a coil that surrounds a tube through which a gaseous sample of the fuel is being pumped. The whole apparatus, called a spectrometer, sits in an AOMC laboratory, not on a launch pad.

The vibration set up by the radio frequency knocks the gas molecules apart as they rush by.

The atoms then pour through a quartz tube into a cavity like a subway train. Under the influence of a magnetic

field in the cavity the excited atoms respond to signals beamed at them from a microwave trans-

mitter.

of the cavity identifies the overwrought atom as if it had wolf-whistled at the scientist. The frequency and intensity of the signal bouncing off the side



SAFETY AWARD—The AOMSA safety award for maintaining the lowest accident cost per capita among military organizations, Ordnance Guided Missile School and Troop Command, AOMSA, was won by OGMS for calendar year 1961. Above left to right, Maj. V. J. Laver, Deputy Commander, Unit Training Command; Paul Hodson, Safety Officer, OGMS; Col. Henry J. Katz, Deputy Commander, AOMSA, who presented the award; Lt. Col. E. J. McGinnis, Assistant Commandant and Maj. J. M. MacDonnell, Commander, School Troop Command.

Physicist Is Scheduled To Talk at Tallahassee

An Army Ordnance Missile Command nuclear physicist will reveal the results of his measurement studies of nuclear cross sections in Tallahassee, Fla. Apr. 6.

Dr. William L. Alford, specialist in nuclear physics and cosmic rays at AOMC's Research Lab, will present the paper to members of the American Physical Society at the Southeastern section meeting.

Doing basic research in rare earth isotopes, Dr. Alford bombarded the element samarium with a high speed neutron to determine the energy levels of the isotope in its "excited" and "ground" state.

A physics professor at Auburn University before coming to Redstone in June, 1958, Dr. Alford holds degrees from Vanderbilt University and the California Institute of Technology.

He lives at 4317 Horace Dr. with his wife Ruth, three daughters Linda, 10; Lois, 7, and Barbara, 2; and two sons, Charles, 9; and David, 6.



WHITE SWAN—Cypress Gardens, Fla. boasts some of the most beautiful flowers — and girls — in the world. Here all eyes are focused on one of the Aquamaids, lovely Connie Lassiter, as she performs her flying swan routine.

EASTER SHOES

for
THE
ENTIRE
FAMILY



Nationally known brands of shoes for the entire family. Great choice of styles and colors.

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