

CLEM AT WORK—Bob Clem, a young chemist with the Army Missile Command, prepares a sample of material for analysis on the infrared spectrophotometer. Using this method, which gives a graphic presentation (seen at right), Clem can insure that materials being supplied the Missile Command "meet the rigid standards that are required."

Fingerprints Tell Tales To Researching Chemists

Willie-the-actor Sutton, a master criminal of by-gone days, was eminently successful for a time because of his fantastic ability to disguise himself. But for all his cunning, the one thing he couldn't change was—fingerprints!

This method of identification is infallible.

Bob Clem, 25, a young scientist with the Army Missile Command, is a "fingerprinter," of sorts. Only he doesn't fool with people. Bob specializes in such things as solids, liquids and gases—using an apparatus called an infrared spectrophotometer.

Actually, this tongue twister is nothing more than an instrumental means of chemical analysis. But to Clem, a chemist in the Materials Analysis Section, Engineering Division of Procurement and Production, this method, too, is infallible in identifying faulty materials.

Like fingerprints, no two compounds will present the same picture when they are exposed to infrared radiation.

A native of Huntsville where he was a member of the first graduating class at the "new" Huntsville High in 1955, Bob analyzes such compounds as plastics, rubber and liquids to insure that the materials being supplied the Missile Command meet the rigid standards that are required.

"Our job is to make certain that Uncle Sam gets what he pays for," Clem, a graduate of Florence State College, says. "This capability enables us to analyze malfunctions, as far as materials are concerned, and we can recommend corrective action."

"It has given us the means to progress from the test tube to an instrument without sacrificing quality and, at the same time, in-

(See CLEM on Page 3)

Arsenal-Wide

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The Redstone Rocket

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VOL. XII; NO. 37

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

JANUARY 29, 1964

Laboratory Will Be Memorial

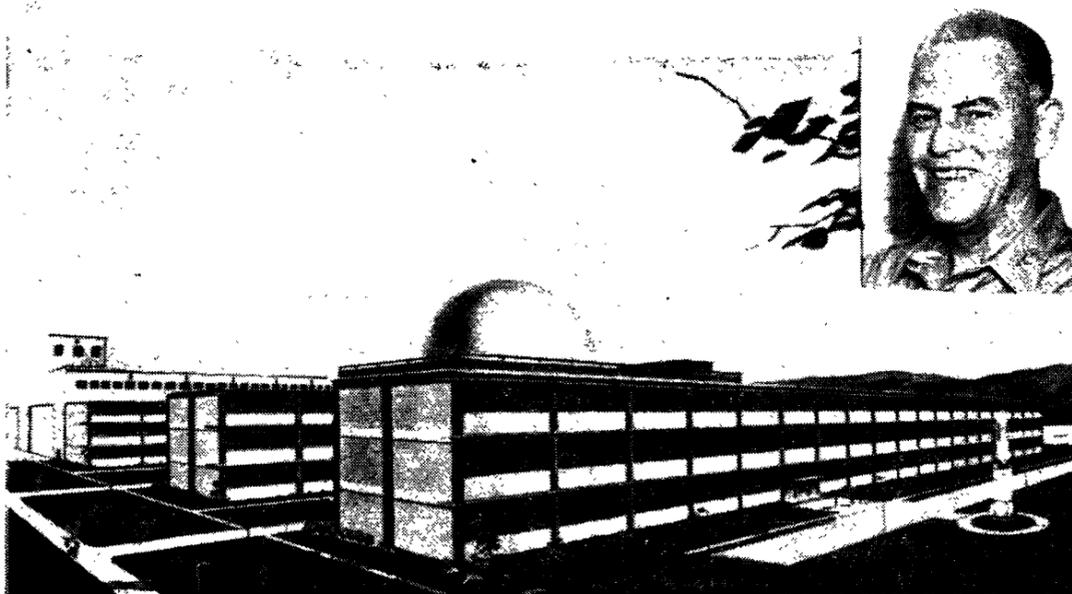
Pershing Conference Continues

The men who are responsible for developing the Army's newly operational Pershing ballistic missile system today will continue a three-day conference at the Army Missile Command.

Called an "In-Process Review," the meeting began Tuesday. It is designed as a detailed look, both backward and forward—at how the missile's development program has fared, and how well it is expected to do in the future.

Sessions opened with a welcome by Maj. Gen. John G. Zierdt, Commanding General of the Missile Command.

Highlights of the meeting in-
(See PERSHING on Page 3)



IN MEMORIAM—The new Research and Development Laboratories, still under construction, will be named in honor of Maj. Gen. Francis J. McMorrow (inset), who died while he was Commanding the Army Missile Command.

Building To Be Named McMorrow

The Army Missile Command announced Jan. 24 that its new research and development facility will be named in honor of the late Maj. Gen. Francis J. McMorrow, who was in command at the time of his death on August 24, 1963.

Maj. Gen. John G. Zierdt, who succeeded Gen. McMorrow, said a new facility now nearing completion and a second major structure adjoining it, scheduled to begin construction soon, will be known hereafter as the "Francis J. McMorrow Missile Laboratories."

Gen. Zierdt said: "It is altogether fitting that these modern missile and rocket development facilities bear General McMorrow's name. His tireless effort and devotion to the mission of the U. S. Army Missile Command helped assure this important new research capability."

A formal dedication ceremony is planned for mid-March of this year.

The building now nearing completion—valued in excess of four million dollars—is designed to house research and development laboratories as well as other personnel and equipment of the Command's Directorate of Research and Development. A recently approved military construction bill allotted \$3.2 million for a new guidance and control laboratory centralizing all Army research and development projects in the field of inertial guidance. This will become a part of the McMorrow Laboratories.

The new buildings are sited on a low hill south of the Command's headquarters building where Gen. McMorrow served until his death of a heart attack three days before his 53rd birthday.

Charged with responsibility for all Army missiles and rockets, the Missile Command looks to its research and development laborator-

(See NAMED on Page 3)

Gen. Kinnard To Talk To AUSA Dinner; Air Assault Concept To Be Explained

The Army's proposed air assault division concept will be discussed here on Tuesday evening, Feb. 11 by one of its foremost advocates as members of the Tennessee Valley Chapter of the Association of the U. S. Army meet for a hot barbecue dinner.

John E. Hatch, Jr., president of the local chapter, today announced details of the meeting which will feature Maj. Gen. Harry W. O. Kinnard, commanding general of the Army's experimental 11th Air Assault Division of 15,000 men now being organized at Fort Benning, Ga. They will use 450 aircraft in their operations instead of the 101 now assigned to conventional divisions.

The \$2 tickets for the barbecue dinner at Fort Raymond Jones on South Memorial Parkway are now on sale at all agencies on Redstone Arsenal, Hatch said. The dinner is being catered by the local Gibson barbecue restaurant.

A "Dutch treat" social hour will open the event at 6:30 p.m. with dinner scheduled for 7:30. Those attending may wear military blue uniforms or civilian suits, Hatch said. He emphasized that anyone who cares to attend may do so whether an AUSA member or not. Ladies are invited.

Maj. Gen. John G. Zierdt of the Army Missile Command and Col. William J. Macpherson of the Ordnance Guided Missile School are urging all members of their commands, civilian and military and officers and enlisted, to attend the event which will be the first in a series of membership meetings to be held by the Tennessee Valley Chapter during the coming months.

Ticket committeemen have been appointed in each major division of the government agencies on post, Hatch said. Coordinators are Col. Jackson M. Balch at the Marshall Space Flight Center; Louis

(See AUSA on Page 3)

SERGEANT SYSTEM DEPUTY DIRECTOR IS HEART VICTIM

Col. J. Mort Loomis, Jr., expressed the feelings of a great many Redstone Arsenal personnel over the passing of James H. Draughon when he said, "I have lost not only a working partner but a faithful and loyal friend."

"His wealth of experience, high principles, and complete devotion to duty," continued Col. Loomis, "have been invaluable to me over the past year in our association."

Mr. Draughon, who was deputy to Col. Loomis for the Sergeant Weapons System, died of a heart attack at the Huntsville Hospital last Saturday.

A native of Reynolds, Ga., he



JAMES H. DRAUGHON

had come to Huntsville in 1953 as chief of the Nike Missile Industrial Procurement and Production program. Later he transferred to the Army Ballistic Missile Agency as a member of the senior management staff.

He assumed his present position
(See DEPUTY on Page 3)

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 off post for the Rocket are \$6.36 a year, or \$3.50 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Huntsville, Ala.

Rocket Ruminations

"... In quite a long experience now, I have often found that a man who trusts nobody is apt to be the kind of man that nobody trusts."
—Harold MacMillan

Still In Orbit

Friday is the sixth anniversary for an outstandingly successful effort here at Redstone Arsenal. It marks the day that the U. S. Army launched the Free World's first orbiting satellite, Explorer I.

During the six years the 30.8 pound Explorer I has traveled about 26,315 times around the earth, covering some 775 million miles. It is expected to continue its journeys for a couple of more years.

Explorer I was launched at 10:48 p.m. EST Jan. 31, 1958.

It rode atop a Jupiter C rocket using a special fuel to raise the thrust to 83,000 pounds. The booster was made here. After orbit was confirmed, the satellite began what was then considered a big loop around the earth.

It went out in space to 1,585.2 miles and then would sweep back near the earth to within 223.7 miles. It now goes out to 1,011.6 miles and back to within 212.5 miles of earth.

It was sent up to detect cosmic rays and micro-meteorite impacts.

Significantly, this very first satellite made an important discovery as it orbited the earth. It is credited with finding the Van Allen radiation belt as it orbited at up to 18,500 miles per hour.

The satellite has exceeded all expectations.

One transmitter was supposed to quit after 60 days, but it kept sending information 105 days. The other transmitter, much more powerful, was supposed to last only 14 days. It ceased after 31 days.

* * *

James H. Draughon, Civil Servant

Inscribed in granite on a monument in Oppama, Japan, is the name of James H. Draughon, until his death Saturday, Deputy Sergeant Project Manager of the Army Missile Command.

This exceptional man left many things but only a few bear his name. In the fast-moving business of missiles for national defense, there has been, as yet, no time to stop for monuments and memorials. It seems valid to say that one of the reasons things do move so fast is because the nation has been fortunate enough to have people of Jim Draughon's calibre in its service.

The people who worked with him and respected him knew what Jim Draughon was made of and they filled the Chapel Sunday when they said goodbye... Army officers, engineers, secretaries who had worked with him over the years, those who had known him for his church and community activities and men from NASA who had first hand knowledge of his contributions to America's early efforts in space.

He was, above all, a doer, a man to put his finger on a problem and get it out of the way. A missile program needs diverse talents, but above all it needs drivers who can get things done. Such a man was Jim Draughon and many Army missile programs are better ones today because he spent yesterday and a lot of days before driving people in them to get the job done with that something extra that makes the difference between completion and solid accomplishment.

He could look you in the eye and talk about Patriotism and Loyalty and Service and Army and you believed it and you believed him. He demanded your best and he got it because he gave his best to everything he tackled. When you worked with Jim Draughon you worked hard, but he worked harder.

How his name got on that monument in Japan tells something about Jim Draughon. It was during the Korean War. He was running a vehicle rebuild operation in Japan, at that time the only source of automotive transport supply for the fighting men in the line. Typically he ran it so well that General Matthew B. Ridgeway, then Commander-in-Chief, Far East, personally commended him for providing invaluable support for combat operations. Typically also, he became curious when he found the base of a monument within the confines of the truck plant at Oppama. Upon inquiry he discovered that a monument marking the drafting of the Meiji Constitution—Japan's first—had stood on that spot until it was destroyed during World War II.

He suggested the replacement of the monument to Japanese authorities and it was done with funds raised by public subscription. When the new monument was unveiled, he was surprised to find that his name had been included as a sponsor of the restoration.

Jim Draughon wasn't a typical civil servant, he was an exceptional one and an exceptional man. He made a lot of us feel that being a civil servant meant something special.

And we'll remember him.

ARPA Puts New Radar To Work

A powerful new pencil beam research radar has been officially accepted for the Advanced Research Projects Agency (ARPA) and turned over to an agency which will operate it at White Sands Missile Range, N.M.

Known as the ARPAT Measurements Radar (AMRAD), the 10-megawatt peak power, 60-foot dish tracking radar will be used for ARPA in missile re-entry discrimination tests scheduled during upcoming months.

Delivery of the AMRAD by the Raytheon Company, which designed and built the complete piece of equipment, was accepted for ARPA by representatives of the Army Missile Command, and by an Army official from Boston Procurement District, Mass., which administered the contract with Raytheon.

Representing ARPA in the delivery ceremonies were 1st Lt. James Wright and Lee R. Johnson, Jr., both of the ARPA Division at the Army Missile Command, and Steve Fedak from the procurement district.

During the same ceremony, the radar was turned over to Lincoln Laboratories, of Massachusetts Institute of Technology, which will operate the radar for ARPA.

The new tracking radar was built under the supervision of the project officials at the Army Missile Command at the direction of ARPA, an agency of the Department of Defense.

Col. McClain Speaks At Graduation

Col. Harry C. McClain, Post Surgeon, was the graduation speaker at the concluding session of the Understanding People course conducted by the Training and Development Division in the division classroom last Friday.

Twenty-two middle managers were included in the fifth class of the course that covers 14 hours of instruction in human relations adapted to the needs of supervisory personnel.

Taught by Dr. Bartley E. Bess, Clinical Psychologist for the Oc-

cupational Health Services, the course offers an excellent introductory insight into motivation, learning, perception, personality, job satisfaction, personal adjustment and deviating behavior.

The course was established recently to augment the Training Division's supervisory development program. The program is coordinated by Russell Cooper, Employment Development Officer.

The Post Surgeon was instrumental in the establishment of the course along with Dr. Bess, and Dr. Burton Shook, also of the Post Hospital. Dr. Shook introduced Col. McClain and also spoke briefly at the graduation.

July 1, 1940—Establishment of Ordnance School, Aberdeen Proving Ground, Md.

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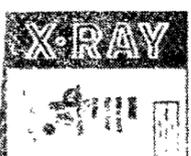
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DR. SCHWEITZER SENDS A LETTER

The Data Processing Office of the Supply and Maintenance Directorate received a personal note from Dr. Albert Schweitzer thanking them for a donation made to his African hospital in December.

Office personnel collected money in lieu of Christmas cards and sent it to Dr. Schweitzer. The thank you was written by one of his assistants with a hand written note in French from Dr. Schweitzer himself reiterating the thanks.

He described the additions he is making to the hospital and mentioned that he now has six doctors and 16 nurses on his staff. The hospital was founded by American missionaries in 1872.

DEPUTY

(Continued From Page 1)

in the Sergeant program last January and helped to guide the Sergeant system through the late stages of development and deployment with our combat forces.

His government service, spanning a score of years, includes an assignment with the U. S. Army in Japan where he directed the efforts of some 15,000 employees in the re-manufacture of trucks and trailers that were urgently needed by the Army troops in Korea.

He was cited by Gen. Matthew B. Ridgeway, then Commander-in-Chief of the Far East, for his accomplishments during that assignment.

Mr. Draughon had a deep interest in the activities of his adopted community and formerly served as president of the Huntsville High School Parent-Teacher Association. He was also a member of the Huntsville Elks Club and of the Masonic Lodge.

He is survived by his widow, Mrs. Thelma Jones Draughon, and four daughters.

NAMED

(Continued From Page 1)

ies for advances in science and technology required to improve the rocket powered weapons it provides American Soldiers.

The technical competence maintained by the military and civilian personnel of the laboratories also aids the Army in appraising proposals submitted by industrial contractors and managing missile programs assigned to industry for execution.

Gen. McMorrow graduated from West Point in June 1933. Following a distinguished career in Army weapons development and production, he came to Redstone in July 1961 as Deputy Commanding General, Army Ordnance Missile Command. He became Commanding General in May 1962. He was in command when AOMC was renamed Army Missile Command and assigned as a major commodity command of the Army Materiel Command on Aug. 1, 1962.



CONGRESSIONAL COMMITTEE AT REDSTONE—Members of the Congressional Interstate and Foreign Commerce Committee and executives from the Federal Aviation Agency visited the Arsenal during a study of Huntsville's airport requirements. The group met with Brig. Gen. H. P. Persons, Jr., Deputy Commanding General, Army Missile Command, and other Federal elements at

Redstone. Shown here are: left to right: Andrew Stevenson, FAA; Rep. Samuel N. Friedel, Maryland; Rep. Robert W. Hemphill, South Carolina; Ed W. Williamson, committee clerk; Rep. Harley G. Staggers, W. Va.; Rep. Robert Jones, Ala.; Rep. Walter Rogers, Texas; Rep. Kenneth A. Roberts, Ala.; Rep. Donald G. Brotzman, Colorado; William J. Schulte, FAA.

CLEM

(Continued From Page 1)

creasing our capacity."

This, basically, is how the infrared spectrophotometer works:

In the case of plastics, a portion is pressed into a very thin film and inserted into the machine where the infrared beam travels through it.

Every compound presents a different spectrum when exposed to the radiation, and the machine gives a graphic presentation. If the compound is actually what it's supposed to be, it will be identical to a known spectrum which has already been catalogued.

This, Clem said, represents a tremendous savings in time.

"Take Polyethylene (plastic), for example," he said. "If we had to check it by wet chemical analysis (test tube experiments, etc.), it would take us days, in many cases. This way, it takes us a matter of minutes."

If Clem is checking an unknown material, he can identify it by checking its graphic presentation with a material that is known. Only materials which are identical will give the same presentation.

Since coming to the Missile Command in 1960, Clem has had a two-week course in Instrument Theory and Techniques at Fisk

FOOF'S SPOOFS

IF YOU DIG DEEPLY ENOUGH INTO YOUR FAMILY TREE, YOU'RE BOUND TO UNCOVER SOME S&P

Institute and two weeks at MIT. At present, he is preparing an annotated bibliography of infrared spectroscopy.

"I am trying to find everything that has been published on the subject by reviewing books, reports and what have you," he said, "and I am trying to record all this data." He has already scanned some 2,800 abstracts.

"We want to have at our fingertips the solution to problems that have already been solved, because we might be faced with the same problems in the future," he pointed out.

Clem's research has already paid dividends. He recently developed a technique for analyzing preparations of Teflon materials containing opaque additives.

Clem and his wife, Martha, and their 10-month-old son, Robert Alan, live at 5019 Holmes Avenue.

PERSHING

(Continued From Page 1)

cluded remarks by Col. Edwin I. Donley, Pershing Project Manager for the Missile Command, which developed the Army's longest range ballistic missile system.

Attending the conference are of-

ficials representing primary Army organizations interested in the progress of the Pershing program.

The Pershing, with a nuclear striking range of 100-400 nautical miles, is scheduled for deployment in Europe sometime early this year, according to official announcement by the Department of Defense.

AUSA

(Continued From Page 1)

Grabensteder at the Army Missile Command; and Reavis O'Neal at the Ordnance Guided Missile School.

Hatch urged that ticket purchases be made early, as the capacity of the armory is limited and the local chapter wishes to avoid overcrowding and may be forced to "ration" tickets to late-comers.

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SPECIAL

Chief Army Nurse Inspects Redstone Hospital

Chief of the Army Nurse Corps, Col. Mildred I. Clark, spent a whirlwind day of activities at Redstone Arsenal Tuesday, Jan. 21, visiting Redstone Army Hospital, the U. S. Army Missile Command and the U. S. Army Missile Support Command.

On her tour of Third Army posts, Col. Clark is being escorted by the Chief Third Army nurse, Lt. Col. Angie Kammeraad.

They were greeted at the Redstone Army Airfield by Maj. Hazel L. Evans, Chief Nurse at Redstone Hospital and escorted by her on the visits which began with a call on the Post Surgeon, Col. Harry C. McClain, and which included a tour of the hospital facilities conducted by Lt. Col. Thomas R. Edwards, hospital executive officer.

In addition to visits to the wards and clinics, Col. Clark met

with the hospital staff.

She also called on the Commanding General of the U. S. Army Missile Command, Maj. Gen. Zierdt, and the Commander of the U. S. Army Missile Support Command, Col. Cooke.

Col. Clark became Chief of the Army Nurse Corps last September. This is her first visit to Redstone Arsenal.

She received her commission as a second lieutenant in 1938. A native of North Carolina, she received her registered nurse certificate from Baker General Hospital School of Nursing at Lumberton. She continued to study and earned a bachelor of science degree in nursing education at the University of Minnesota and has taken graduate courses at the Uni-

(Continued on Page 5)



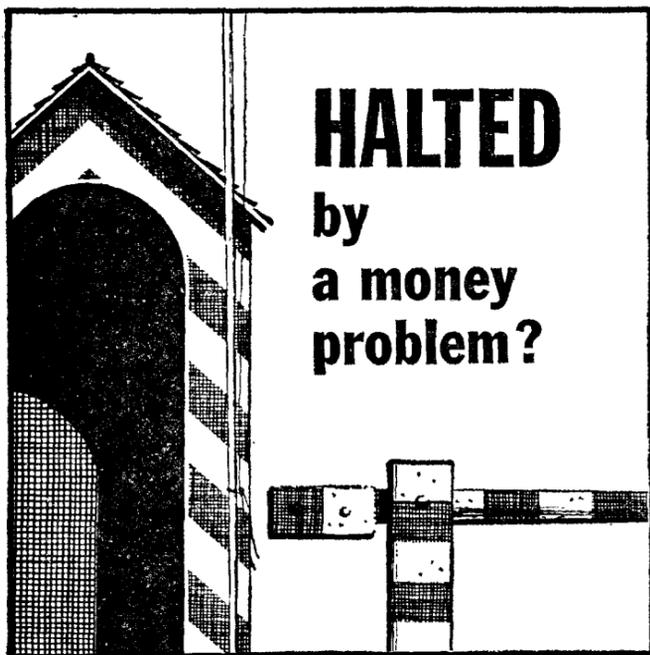
TALKS TO SURGEON—One of Colonel Clark's first stops on her busy Tuesday schedule was a talk with the Post Surgeon, Col. Harry C. McClain in his office at the Post Hospital. Col. Clark was escorted by the Chief Nurse, Third Army, Lt. Col. Angie Kammeraad.



COFFEE WITH COMMANDER—During her visit to the Redstone Arsenal Army Hospital Tuesday, Jan. 21, Col. Mildred I. Clark, chief of Army nurses, had coffee with Colonel Thomas W. Cooke, Commander of the Army Missile Support Command, when she visited his office.



OPERATING ROOM CORRIDOR—Col. Mildred I. Clark (second from right) talks to SFC Cyrus Downey, noncommissioned officer in charge of the operating room at the Redstone Arsenal Army Hospital, and Maj. Vivian B. Lewis, Operating Room Nurse. With them is Maj. Hazel L. Evans, Chief Nurse for the Hospital. She spent Tuesday, Jan. 21, inspecting the facilities here.



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1963 BUICK
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DRESS BLUES—Col. Clark wears the Army nurse's newly designed dress blues at the reception in her honor Tuesday night at the Squirrel Hill Officers Club. Members of the medical staff and special guests attended the party.



EXPLAINS OPERATION OF CLINIC—SP6 Edward Siddon, non-commissioned officer in charge at the combined clinic attached at Redstone Arsenal, explains the operation to Col. Clark and Maj. Evans during the Colonel's inspection of all phases of the medical staff's activities.

Chief Army Nurse

(Continued From Page 4)

University of Colorado, the University of San Francisco and the University of New Mexico.

She has the distinction of being the first woman parade marshal for the Sun Festival at El Paso, Texas while on duty in that area.

Col. Clark is also the author of a number of publications and a

member of the Military Writers League.

During her career as an Army nurse, she has had assignments in the Far East, Hawaii, Europe and the United States.

Before taking over as the chief Army nurse, she was Chief Nurse, Sixth Army Headquarters.

Col. Clark takes every opportunity to promote Operation Nightingale, a recruiting program which has been in operation for a year to recruit young women into an Army career of nursing. Her mission is to acquaint young



EXCHANGE CONFIDENCES—Col. Mildred I. Clark, Chief of the Army Nurse Corps, and Sharon Taylor, daughter of SFC and Mrs. John P. Taylor at Redstone Arsenal exchange girl talk, during the Colonel's inspection of the U. S. Army Hospital facilities at Redstone Arsenal Tuesday, January 21. Col. Clark spent the day at this North Alabama missile installation, meeting with the hospital staff and the Commanding General of the U.S. Army Missile Command, Maj. Gen. John G. Zierdt.

women with the advantages offered to nurses by the Army.

Nurses accepted for Army duty become commissioned officers.

The emphasis on recruiting was occasioned by the inadequate number

of nurses on duty during the Cuban crisis.

Col. Clark's hosts at Redstone Arsenal held a small reception at the Squirrel Hill Officers Club to honor her Tuesday night.

The next scheduled stop was Ft.

Campbell, Ky., where she spent two days. From there Col. Clark went on to Ft. Knox, Ky., and Lt. Col. Kammeraad will return to Third Army Headquarters at Ft. MacPherson.

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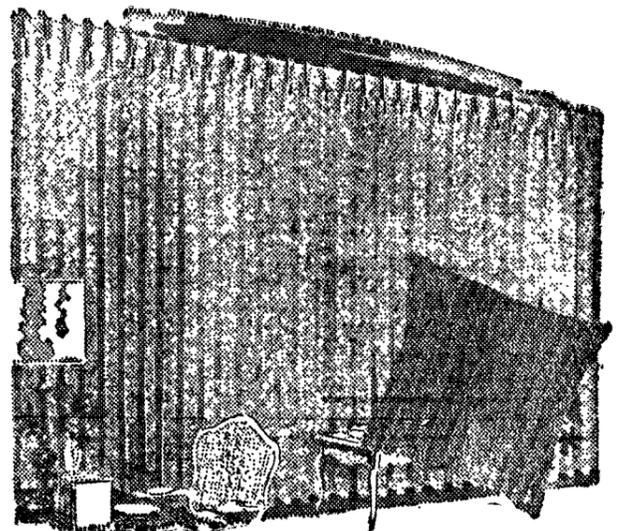
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January 17, 1964
Hq. STC—24
C Co. STC—57

Officers—47
1st ETC—35

German Det.—16
A Co. STC—29

January 20, 1964
Hq. UTC—0
Hq. AMSC—2

291st M.P.—35
184th Ord. Det.—28

Allied—29
B Co. STC—47

January 22, 1964
Officers—44
A Co. STC—41

1st STC—32
C Co. STC—38

291st M.P.—18
B Co. STC—37

League Standings

AMERICAN LEAGUE

Team	Won	Lost
Officers	10	1
1st ETC	7	4
C Co. STC	7	4
Hq. STC	5	5
A Co. STC	3	8
German Det.	0	10

NATIONAL LEAGUE

Team	Won	Lost
291st M.P.	8	3
Hq. AMSC	7	3
B Co. STC	7	4
184th Ord. Det.	4	6
Hq. UTC	2	8
Allied	2	8

Volleyball

Team	Won	Lost
French Det.	5	0
Hq. AMSC	4	1
German Det. No. 1	3	1
Israeli Det.	2	2
C Co. STC	2	3
German Det. No. 2	1	4
184th Ord. Det.	0	6

High Scorers

Name	Team	FG	FT	FTA	TP
McKinney	C Co. STC	78	23	34	179
McMillian	1st ETC	76	18	40	170
Robson	B Co. STC	54	30	39	138
Stone	Officers	60	15	28	135
Merkerson	A Co. STC	54	19	42	127
Work	STC	41	32	41	114
Hunt	B Co. STC	43	19	26	105
Cumbe	1st ETC	44	13	23	101
Price	291st M.P.	44	12	27	100
Weidemann	Hq. AMSC	42	15	21	99



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Bowling Results

School Troop Command

Team	Won	Lost
UTC Raiders	51	17
The Bisons	45	23
Co. "C" No. 1	35	33
Pop Tops	34½	33½
Pin Pickers	33	35
Five Aces	32½	35½
Co. "C" No. 2	26	42
Hq. Co. STC	15	53

High Team 3 Games:
Raiders—2697 (Scratch)

High Team Game:
Raiders—937 (Scratch)

High Ind. 3 Games:
Kasper—628 (Scratch)

High Ind. Game:
Kasper—245 (Scratch)

RSA Officers Mixed Couples

Team	Won	Lost
D. Yanks	101	43
Bombers	89	55
Bowl Weevils	74½	69½
Redstones	73½	70½
Pin Droppers	71½	72½
Baby Splits	60	84
D. Doms	60	84
Hi Counts	47½	96½

High Team 3 Games:
D. Yanks—3908 (Scratch)

High Team Game:
D. Yanks—739 (Scratch)

High Ind. 3 Games:
Nearhoof—633 (Men) (Scratch)

High Ind. 3 Games (Women):
Lau—566

High Ind. Game (Men):
Reiter—257

High Ind. Game (Women):
Payne—217

American-British-Canadian

Team	Won	Lost
S. Wonnors	105	23
Lucky Strikes	93	35
Wheezers	70	58
Black Jacks	64	64
Hopefuls	60	68
AF Jupilos	48	80
Pin Splitters	45	83
Maulers	28	100

Week High Game:
Vanderheyden—237 (Scratch)

Week High Series:
Vanderheyden—648 (Scratch)

RSA Officers

Team	Won	Lost
Spoilers	44	24
Robbers	41	27
Mets	39	29
Procure Mites	35	31
Bandits	33	35
Alleycats	29	39
Medico No. 1	27	41
OGMS	26	42

High Team 3 Games:
Spoilers—2600 (Scratch)

High Team Game:
Spoilers—951 (Scratch)

High Ind. 3 Games:
Drissel—634 (Scratch)

High Ind. Game:



RIFLE TROPHIES—Members of the Redstone Arsenal Small Bore Rifle Team present trophies won in the Smallbore Dixie Roundup last Fall to Col. Thomas W. Cooke, Post Commander. Col. Cooke received the trophies Friday from (left to right) Pfc James McGee, SP6 James Maloney, S/Sgt. Obie Mueeting and CWO Harley G. Winterrowd. Mueeting and Winterrowd had the first expert team trophy; Maloney and McGee, a first in the sharpshooter class. Mueeting retires at the end of this month and Winterrowd will leave for a new assignment about the same time.

Ailles—245 (Scratch)

OGMS Officers

Team	Won	Lost
Rounders	42	18
Admin	32	28
Zeros	30	30
Bohunks	29	31
Bowl Weavils	28	32
Missile Comp. Division	19	41

High Team 3 Games:
Rounders—2549 (Scratch)

High Team Game:
Rounders—888 (Scratch)

High Ind. 3 Games:
Hitt—623 (Scratch)

High Ind. Game:
Hitt—236 (Scratch)

Thursday Morning Ladies

Team	Won	Lost
Splits	36½	19½
Roaring Trio	30½	25½
The U.N.	30	26
Gutter Dusters	27½	28½
Terrific Trio	27	29
Tryettes	26½	29½
Old Timers	25	31
Youngsters	21	35

High Team 3 Games:
Roaring Trio—1265 (Scratch)

High Team Game:
Roaring Trio—460 (Scratch)

High Ind. 3 Games:
J. Arnold—533 (Scratch)

High Ind. Game:
J. Arnold—222 (Scratch)

Enlisted Men Mixed Couples

Team	Won	Lost
Keglers	48	24
Draggins	44	28
Hotshots	39½	32½
Dolittles	34	38
Brokenettes	33	39
Unpredictables	30½	41½
Wash Outs	30	42
Breaking Points	29	43

High Team 3 Games:
Hot Shots—2027 (Scratch)

High Team Game:
Drageins—728

High Ind. 3 Games:
Taormina—620 (Men)

High Ind. 3 Games:
J. Arnold—561 (Women)

High Ind. Game:
Homer—244 (Men)

High Ind. Game:
B. McClure (Women)

Thompson—311 (Scratch)
High 2 Game Series (Girls):
Graham—249 (Scratch)

Bantams

(8-12 YRS.)

Team	Won	Lost
No. 5	28	14
No. 2	26½	15½
No. 3	25½	16½
No. 4	23	19
No. 8	20	22
No. 1	20	22
No. 7	15	27
No. 6	10	32

High Ind. Average (Boys):
Thompson—117 (Scratch)

High Ind. Average (Girls):
Quantz—105 (Scratch)

High Ind. Game (Boys):
Handy—178 (Scratch)

High Ind. Game (Girls):
Graham—152 (Scratch)

High 2 Game Series (Boys):

RSA Officers Wives

Team	Won	Lost
Merry Mrs.	36	28
Gamblers	35	29
Comets	34	30
Who Cares	33	31
Missers	33	31
Crazy Eights	32	32
Misfits	27	37
Poor Excuses	26	38

High Team 3 Games:
Comets—1839 (Scratch)

High Team Game:
Crazy Eights—691 (Scratch)

High Ind. 3 Games:
Lau—578 (Scratch)

High Ind. Game:
Lau—213 (Scratch)

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WELCOME TO THE BOSS—Col. R. W. Van Wert (left) enjoys a laugh with Lt. Gen. August Schomburg during his visit to Redstone Arsenal last week. Gen. Schomburg is Commanding General of the Army Supply and Maintenance Command in Washington. Col. Van Wert has been head of S&M facilities at Redstone but is turning over the reins to Col. Robert W. Grote.

Welcome Mat

The ROCKET extends a welcome to the following personnel who have recently accepted positions with Army organizations at the Arsenal.

U.S. ARMY MISSILE SUPPORT COMMAND

Post Engineer: Arthur P. Barrette, Gerald D. Belue, George H. Crimes, Homer L. Curry and Carl W. Meredith.

Calibration Center: Hollis O. Bridges, Freddy J. Rivers and Jackie L. Vogt.

Provost Marshal: Joe Ann B. Cacace, John A. Lovelady, Melvin G. Newby and Carter H. Pope.

Civilian Personnel Office: Nancy E. Click, Carl R. Lee, Delbert S. Spears.

Communications Division: Marianne B. Dunn.

Maintenance Support Division: William M. Galloway, Robert C. Gibson, James W. Martin, Robert R. Richardson and Elwood F. Walters.

Post Transportation: Jean C. Gaylor.

Consolidated Supply: Roslyn L. Gray, Donald F. Pettigrew, Zora C. Pritchett, Stephen V. Reed.

Military Personnel: Judy K. Grimes.

U.S. Army Hospital: Ruby S. Killian and Virginia A. Louvar.

Audio-Visual Communications: Brice McLemore.

Post Quartermaster: Howard L. Lankford and David A. Sims.

Assistant for Logistics: Eula W. Price.

Purchasing & Contracting: Clarence R. Rhinehart.

Office of the Commander: Linda S. Warden.

Finance & Accounting: Gilbert



TO MAJOR—The resident Nike Zeus Project Engineer on Ascension Island is now Maj. William A. Shunk. The promotion ceremony took place at the Project Office here recently while Maj. Shunk was at Redstone to touch base on project activities, Here Col. I. O. Drewry, right, the Project Manager, congratulates the new Major after pinning on the gold leaves.

Scout Executives Meet At Arsenal

Over a hundred area scout leaders and executives were in attendance last weekend as Redstone Arsenal hosted the annual Tennessee Valley Council training seminar.

Maj. James MacDonnell, chief of the Office of Operations and Security for the Ordnance Guided Missile School, was the seminar director and delivered the

keynote address. Maj. MacDonnell is chairman of the Council's Leadership Training Committee.

Prominent Scouters participating in the program included Robert L. Haskins and Spencer Ball, officials of the Tennessee Valley Council of the Boy Scouts of America.

The yearly event is conducted for the purpose of training new personnel for the various leadership positions in the Council and the nine districts and divisions. The Tennessee Valley Council comprises nine North Alabama counties.

ORDNANCE GUIDED MISSILE SCHOOL

Raymond E. Burwell, Robert S. Kinch, Mary J. Knox, Joseph B. O'Connor and John D. Thureson.

The 12 million pounds of steel purchased annually by the Defense Industrial Supply Center, Philadelphia, Pa., for military requirements would be enough to manufacture 4,000 automobiles.

Plan To Attend ANNUAL MEMBERSHIP MEETING

To be held at 4:45 P.M., Thursday, January 30, 1964

at the

Auditorium

Army Missile Command Building 5250

Redstone Arsenal, Ala.

THE AGENDA INCLUDES:
Reports on 1963 Operations

Election of Officials

DOOR PRIZES TO BE AWARDED

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- 2nd Prize — \$15 in Shares
- 3rd Prize — \$10 in Shares



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Social

At The Service Club

By: Brenda Hanson

Since only two days remain in January, we can look forward to February for entertainment at the Service Club. Even though February is a short month, we have a jam packed schedule. There should be a nugget of the entertainment that should fit your taste.

"Variety is the spice of life," and variety is on the Club program this week. Card games, dances, dance classes.

Each Tuesday night the dance class meets under the direction of Walter Titouick in the main lounge at 7 p.m. Don't put off learning to dance any longer. You have the opportunity; take advantage of it.

Wednesday the 29th, we have a contest on the program to challenge all the post pool sharks. A pool contest is scheduled at 8 p.m. Wednesday. Prizes will be awarded the winner.

Thursday the 30th, is the date for the bridge club to meet at 7:30 p.m. Come down and join the boys for a session of bridge. We also have a class at the same time. If you're sitting around the barracks with nothing to do, come down to the club for an evening of bridge.

Friday night we play smoker poker. We furnish the cigars and cards. All we need is players. Plan your evening to include a poker game at the Service Club.

Saturday afternoon, we'll serve coffee at 2:30 p.m. A fudge party is on the program at 8 p.m.

Sunday at 9 a.m., coffee and donuts will be served. Make your breakfast appointment with us. Theme of the record dance at 8 p.m. is Cupids Fling.

The weekly night of games begins at 8 p.m. Monday. Prizes will be given.

February will bring a variety of programs. A quick glance will give you an idea, a Sweetheart Ball, Hootenanny, and a Cupids Quiz. Make your plans to attend these events.

Until then, see you at the



TRAVEL TIPS—Carol Lane, travel lecturer, addressed the Redstone Arsenal Officers' wives last week. The event was the monthly coffee sponsored by Officers Wives of the Army Missile Command combined with the wives' groups from the Army Ordnance

Guided Missile School and the Army Missile Support Command. Chatting with Miss Lane (left) are Mrs. E. V. Lau, Mrs. W. T. Gilbert and Mrs. W. F. Register, co-chairman for the event.

Officers Wives Club Hears Travel Tips

TO HAVE COFFEE

The Army Missile Support Command Officers Wives Group will have Coffee at the Squirrel Hill Officers Club at 10 a.m., Feb. 6.

Reservation deadline is Feb. 3. Mrs. Daniel Holt, 877-4758 or Mrs. Elvin J. Kidd, 877-5061 are handling reservations. Mrs. Rodes O. Gregory will be hostess for the event.

TO PRESENT OPERA

A film of the Mozart opera, Don Giovanni, will be presented by the Huntsville Music Appreciation Group at the Huntsville Utilities building at 8 p.m. Friday night.

The lyrics will be sung in German. The presentation is free to the public.

Service Club.

Brenda.

Wives at Redstone Arsenal heard a travel lecture at Coffee held Tuesday, Jan. 21.

Guest lecturer was Carol Lane, authority on travel tips for motor-ing families. This was Miss Lane's second appearance before the Wives Club.

Approximately 200 people attended the event. Coffee was served in the Hawk room of the Squirrel Hill Officers Club and the lecture was held in the main ballroom.

Three co-chairmen were in charge of the program: Mrs. E. V. Lau, representing the Army Missile Command wives; Mrs. W. T. Gilbert, representing the Ordnance Guided Missile School of-ficers wives; and Mrs. W. F. Register, Jr., representing the Army Missile Support Command officers' wives.

Travel posters, luggage and accessories were arranged around the walls of the Hawk room as representative of the theme of the meeting. The centerpiece on the serving table was a basket of fruit, flanked by champagne bottles and

glasses.

Members of the committee who worked on the project were. Mrs. Willard Anderson, Mrs. Ray H Lee, Mrs. William A. Leonard, Mrs. Michael J. Doodley, Mrs. Wm. J. Gallegos, Mrs. Ralph L. Newhall, Mrs. Arthur Q. Woodward, Mrs. Thomas B. Christianson, and Mrs. James R. Hodges, whose husbands are assigned in the Department of Individual Training at the Ordnance Guided Missile School; and Mrs. Robert A. Robinson, wife of the executive officer in the office of the school commandant.

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To Talk To Club Women

The Altrusa, Pilot, and the Huntsville and Rocket City Business and Professional Women's clubs will hold their annual inter-club meeting at the Russell Erskine Hotel, Thursday, Jan. 30 at 7 p.m. Dr. Ruth Stephens, Knoxville, Tenn., will speak on "Women in World Affairs."

Dr. Stephens, whose special interest is international affairs, is retired from thirty-four years as a professor at the University of Tennessee.

A veteran of fifteen years of radio and television broadcasting, she now conducts a twice weekly program over educational television in her area.

She has spoken to groups throughout southeastern United States even occasionally, as she puts it "venturing across the Mississippi River."

aging, Handling and Shipping conference Feb. 4, 5, and 6.



THANK YOU GENERAL—Tennessee Gov. Frank G. Clement expresses his appreciation to Brig. Gen. Charles W. Eifler after the General had presented him with the Redstone missile model shown at right. Gen. Eifler is Deputy Commanding General for Land

Combat Systems of the Army Missile Command. The presentation was included on the program of the Huntsville Rotary Club during which the Governor was main speaker.

Dr. Shuey Receives Award

The man who played a key role in stabilizing combustion in large solid rockets will receive the 1963 AIAA Research Award, it was announced Jan. 20, by the American Institute of Aeronautics and Astronautics.

The award winner is the noted physical chemist Dr. Henry M. Shuey, Head of the Ballistics Sec-

tion, Rohm and Haas Co., Redstone Arsenal Research Div. The presentation will be made at the Aerospace Sciences Banquet January 21 at the Hotel Commodore. The banquet is one of the high points of the Aerospace Sciences Meeting last week at the Hotel Astor.

Dr. Shuey was cited for "his research in the application of aluminum to the stabilization of solid propellant combustion. The decisive effect of the suppression of previously disastrous combustion instabilities is to be seen in the historic role solid propellants have recently been able to play in large scale rocketry for defense as exhibited by Polaris, Minuteman, and Pershing, and in presently contemplated space boosters."

Dr. Shuey completed basic research which resulted in the successful addition of aluminum par-

ticles to solid propellant grain, greatly increasing the burning stability and performance of large solid rockets.

The award, donated by Douglas Aircraft Co., carries with it a \$2500 honorarium. It is given each year to an American engineer or scientist who is conducting a significant program of individual research in the field of astronautics or rocketry.

Dr. Shuey is the third person to receive the award. Last year it was presented to Dr. Theodore Forrester for his achievements in the field of ion physics, and the year before it went to James Van Allen, discoverer of radiation belts surrounding the earth.

Dr. Shuey is an expert in the field of propellants, rocket interior ballistics and detonation. He received his Ph.D. in physical chemistry from the University of Wisconsin in 1949.

Packaging President Schedules Talk Here

H. A. Kilmer, national president of the Society of Packaging Engineers will talk to the Rocket City chapter of the organization Feb. 6 at 6:30 p.m. in the Plantation Restaurant.

Kilmer's appearance will be the last leg of a trip to Charlotte, N. C., where he will be the keynote speaker at the Southeastern Pack-

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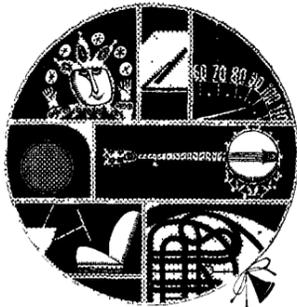
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Third Army Studies AWOLs

More than three-fourths of the soldiers who go "AWOL" — absent without leave—do so during the first six months of their Army service.

This finding by a Third Army survey has led its commanders in its seven-state area of the Southeast to step up the orientation and personal counseling of individual soldiers at company and unit levels. The report was made public here by Col. William J. Macpherson, commandant of the Army Ordnance Guided Missile School, an element of the Third Army.

Eighty-seven percent of the AWOL's were soldiers of the three lowest enlisted grades — recruit, private and private first class, the survey showed. Most of their unauthorized absences occurred during the fourth, fifth and sixth months of their military service, especially during periods of transfer from basic to advanced training cycles or from one unit to another.

The educational level of the absentees was generally lower than an average cross-section of 1,200 Third Army troops, and the report noted a similarity between

the problems of AWOL soldiers and "drop outs" from high schools.

"Adjustment can be expedited by guidance and supervision based on the fundamental human need for individual recognition, group acceptance and close identification with a group. The soldiers respond to outside influence from both family and civilian and military associates. He can be helped to face problems rather than flee from them," the report summarized.

Teen-aged soldiers seemed less prone to take unauthorized leave, the report found, noting that a greater percentage of the absentees was over 20 years of age.

Senior commanders throughout the Third Army area are asked to acquaint junior officers—many of whom are undergoing their first command experience — with the remedial effects of personal attention to problems of individual soldiers.



MORE SAFETY IN '64—This group of OGMS folks were winners in a safety contest conducted as a part of the recent holiday safety campaign "Operation Safe Return." Left to right are Pfc. Valerian A. Ginter, pair of safety seat belts; Pvt. Robert A. Green, cigarette lighter; Erma J. Gentry, a lighter; Lloyd Jones and Pfc. Lindsey R. Demonbreun who received seat belts. Presenting the awards is Col. William J. McPherson, Commandant, OGMS.

Two Receive AUSA Awards

A sergeant first class with 20 years of service and a PFC were honored with AUSA awards Friday in graduation ceremonies at the Ordnance Guided Missile School.

SFC Vernon B. Ehlenfeldt was top man in his Hawk mechanical repair class, averaging 96.1 points

for the course. He is a native of Beaver Dam, Wis., and is a veteran of the Korean conflict. He has served at overseas bases for more than eight years.

PFC James N. Parsons of Wappinger Falls, N. Y., topped the Hawk continuous wave radar repair class with a 96 average. He

attended Dutchess Community College at Poughkeepsie, N. Y., for two years, majoring in electronics. Guest speaker at the ceremony was Lt. George Basbas, electrical engineer in the Electronic Components Section, Mauler Section of the New Missile Branch, New Missile and Literature Division of the Department of Individual Training.

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<p>— Look —</p> <p>'64 DAYTONA 4-DOOR SEDAN</p> <p>Was \$3004.26 NOW \$2605</p>	<p>— Look —</p> <p>'64 COMMANDER 6 cylinder Wagonaire, straight shift.</p> <p>Was \$2741.82 NOW \$2433</p>
<p>— Look —</p> <p>'64 DAYTONA V-8, four in the floor, bucket seats.</p> <p>Was \$3635 NOW \$3153</p>	<p>— Look —</p> <p>'64 COMMANDER V-8, Four-Door, Automatic shift.</p> <p>Was \$2777 NOW \$2422</p>
<p>— Look —</p> <p>'64 CHALLENGER 6 cylinder, 4 door, automatic shift.</p> <p>Was \$2557.45 NOW \$2242</p>	<p>— Look —</p> <p>'64 COMMANDER Wagonaire, V-8, automatic shift.</p> <p>Was \$3199.84 NOW \$2769</p>
<p>LOOK '64 CHAMP ½ ton pickup. Was \$2159 — Now \$1865 LOOK</p>	

7 OTHERS TO CHOOSE FROM AT "NEW PRICES"

Rucker Warren

STUDEBAKER Sales & Service

"The House of Courtesy . . . The Home of Volume"

1017 Meridian Street Phone 534-3262

Courteous Salesmen RAY FUQUA, J. H. "Preacher" WADE, B. M. EPPES



CASH AWARD WINNERS—Col. E. V. Lau (left), head of the Army Missile Command's Procurement and Production Directorate, presents cash awards and commendations to these men for their role in developing the Army's ADRES system (Army Data Retrieval Engineering System). Award winners from left are David G. Turvey, P&P Technical Staff, \$123; Charles W. Sneed, Engineering Division, \$61.50; Raymond G. Weber, Technical Staff, \$24.60; James R. Wilkes, Engineering Division, \$36.90.

FEDDER'S ADAPT-O-MATIC HEAT PUMP

And
ADD ON AIR CONDITION

THE BEST AT
— LOW PRICES —

"Now Is The Time To Buy"

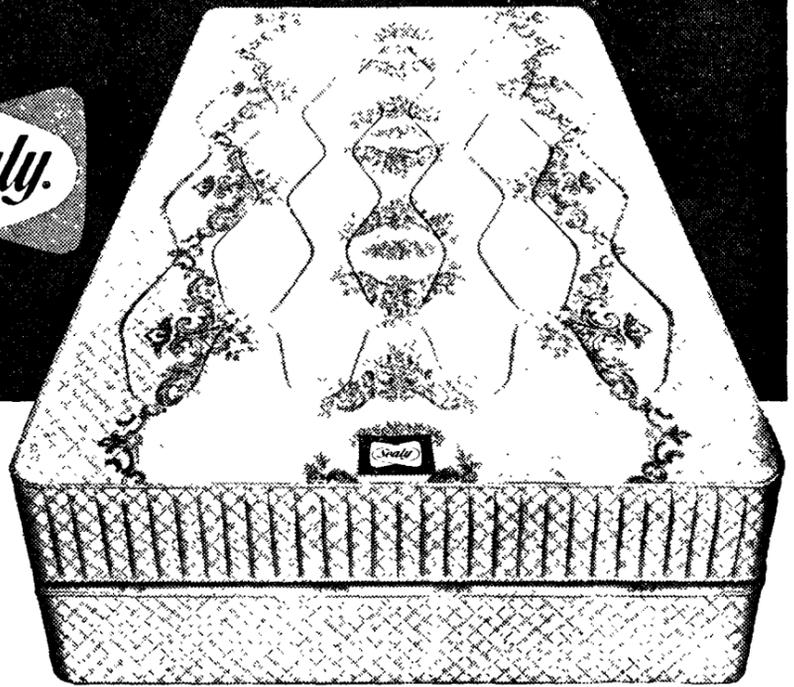
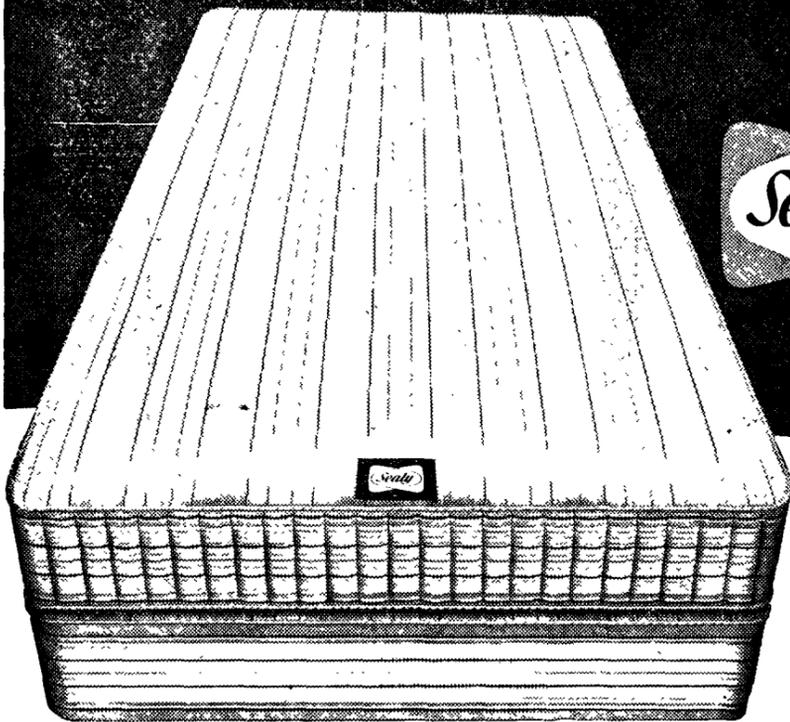
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ROOFING COMPANY

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NEVER BEFORE... 2 values in one sale guaranteed like this



THE SAME GUARANTEE
AS FOUND ON SEALY'S
\$59.50 MATTRESS — ONLY

\$39.88
FULL OR
TWIN SIZE

box spring also \$39.88

Sealy 83rd Anniversary

A bedding set with a 10 year guarantee... the same guarantee found on a Sealy mattress priced at \$59.50. Now Sealy's firm 83rd Anniversary Mattress merits the same guarantee of mattresses costing almost \$20 more! Come in today and compare these fine features.

- Famous Sealy FIRM construction
- Heavy 8-oz. woven stripe cover
- Smooth button-free top
- Exclusive Sealy Edge Gards*
- Pre-built borders for added support

SET GUARANTEED
10 YEARS / If structurally defective, free repair first year. Proportionate annual use charges thereafter.

THE SAME GUARANTEE
AS FOUND ON SEALY'S
\$69.50 MATTRESS — ONLY

\$49.88
FULL OR
TWIN SIZE

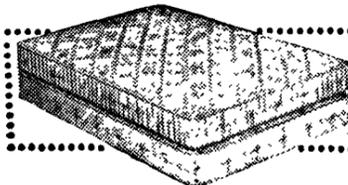
box spring also \$49.88

Sealy Anniversary Supreme

Fifteen years from now you'll still be enjoying the same superb comfort and support... this set is guaranteed 'til 1979! Up to now this guarantee came only on a Sealy mattress priced at \$69.50. Now it can be offered on Sealy's Anniversary Supreme—selling for \$20 less. Look at all you get!

- Famous Sealy EXTRA FIRM construction
- Sealon cover in smart panel print
- Quilted to luxurious Sealyfoam*
- 312 quality steel Innerspring coils
- Edge Gards* prevent sagging borders

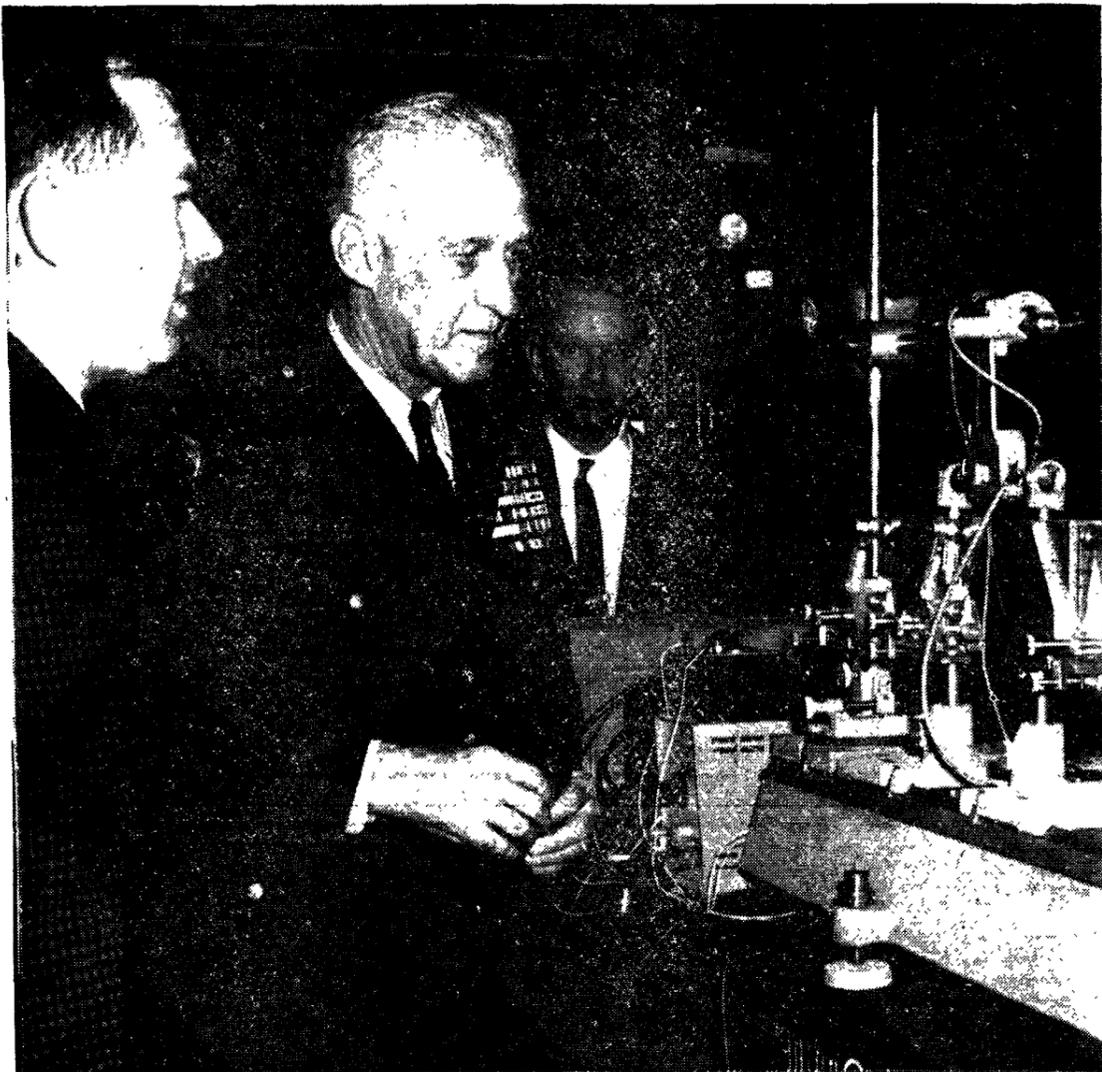
SET GUARANTEED
15 YEARS / If structurally defective, free repair first year. Proportionate annual use charges thereafter.



from the makers of the world's finest mattress
SEALY POSTUREPEDIC*
No morning backache from sleeping on a too-soft mattress **\$79.50**

HALE BROS. FURNITURE CO.

106 Jefferson St. — Phone 536-8508 or 536-8509 — Downtown Huntsville



MAAG GENERAL VISITS LAB—Lonnie McClusky (left), a research physical scientist with the Army Missile Command explains experimental laboratory facilities to Brig. Gen. Roy Lassiter, deputy chief of the Military Assistance Advisory Group to Germany. Delman E. Rowe, director of the Electromagnetic Laboratory, helped brief the general on recent developments in missile research.

Engineer Meeting Scheduled Friday

Combined professional-technical groups on Microwave Theory and Techniques and on Antennas and Propagation will meet Friday at the Army Missile Command. For purposes of simplicity, the combined groups abbreviate their organization PTGMTT/AP.

The meeting will be held in the Electromagnetic Laboratory of the Directorate of Research and Development. Starting time is 7 p.m.

Lloyd Root, an electronic engineer with the Electromagnetic Laboratory, will make the main presentation, entitled "Some Unusual Microwave Measurements."

The two groups include person-

nel from the Army Missile Command, Marshall Space Flight Center, and all industrial concerns in the area with an interest either in microwave theory and tech-

niques or in antennas and propagation.

The groups are part of the Institute of Electrical and Electronic Engineers, Huntsville Chapter.

STRIDE RITE SHOES For Children

Straight Last — Thomas Heels — Plain Shoes

Also

"SPARKLE TOES" By Alexis

The Junior Booterie

120 Southside Square — Downtown Huntsville

Phone 539-1112 — Open Thursdays til 8 p.m

FIRE FIGHTER NEEDED

The U. S. Board of Civil Service Examiners has announced openings for fire fighter at GS-4, \$4215 a year on Announcement No. At-35-4 (64).

Civil Service Commission during fiscal year 1962 conducted 919 agency inspections of all types, audited more than 7,000 Classification Act jobs, and reviewed nearly 15,500 personnel actions.



FOR THE —
FAMILY

THE TREAT THAT
CAN'T BE BEAT!

Drink Plenty From—

Meadow Gold Dairies

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Sterchi's

North Alabama's Largest Furniture Store



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HUNTSVILLE
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Also Sterchi Stores to Serve
You at Scottsboro and
Fayetteville.

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Universal Motors
Used Car Dept.

PHONE 539-7456

1958 FORD 4 door. Yellow and
white. Good tires. A very sound
car throughout. \$695.

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SPECIAL

LYRIC THEATRE

"Huntsville's Finest"

STARTS FRIDAY, JAN. 31

— 7 DAYS 7 —

THREE
AGAINST THE
WILDERNESS



WALT DISNEY
presents
*The Incredible
Journey*
TECHNICOLOR®
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Ray and Ruth Norman, J. O. Dennis and Andy Washko invite you to the

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NORMAN ELECTRONIC
SUPPLY COMPANY

Thursday, January 30

DOORS OPEN 9 A.M. - 9 P.M.



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LOT, NEXT TO TROPICAL FISH SHOP)

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WANT AD RATES—\$2.50 minimum, per weekly insertion, covering first 25 words. 8 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 T. Heath, P. O. Box 346, Room 217 Times Bldg., Huntsville. Deadline is Friday noon, before Wednesday publication.

Page 14 The Redstone Rocket — January 29, 1964

1. For Rent

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

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

FOR RENT—Two nicely furnished 3 room apartments, private bath, tub and shower, private entrance, off street parking, natural gas heat, 417 and 419 East Clinton Ave. Couples only. \$75.00 per mo. Also one 2-room bachelor apartment, upstairs, 419 E. Clinton St., \$60.00 per mo. Phone 534-5127 or 534-4551. tfc

FOR RENT—TV's, portables, UHF-VHF, by day, week or month. Phone 536-9761. Central TV and Stereo Co., Inc. Corner Governors Drive and Parkway. Open 3 a.m. to 7 p.m. daily. tfc

2. Cars For Sale

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. tfc

1958 CHEVROLET Bel Air 6 cylinder Automatic, power steering, 2 door, \$695.00 24 months to pay. Universal Motors, your authorized VW dealer, phone 539-7456 N. Memorial Parkway. tfc

1956 CHEVROLET—2 door, 6 cyl with automatic shift, heater; has durable Black finish, a good running, mechanically sound car \$450.00 Phone 881-3158 tfc

CORVAIR WAGON—1961, good condition, 35,000 miles. Will take \$150 or less trade in. \$1375; also wrecked but running '63 Triumph Spitfire, 5,000 miles, \$795. 852-0644. tfc

1957 FORD 2 Door hardtop, black, V8, rebuilt transmission. Special this week only. As is \$125.00 cash. Universal Motors, your authorized VW dealer, phone 539-7456, N. Memorial Parkway. tfc

1958 DODGE 4 door hardtop, power steering, new point, new tires. \$695.00 Universal Motors, your authorized VW dealer, phone 539-7456 North Memorial Parkway. tfc

3. Miscellaneous

INCOME TAX RETURNS Confidentially prepared. For appointment 534-0131 after 5:30 p.m. tfc

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

ORDER YOUR RUBBER STAMPS BY MAIL—Three lines \$1.00 additional lines 25c each. Money back guaranteed. Belue's, P. O. Box 161, Rogersville, Ala. tfc

TYPEWRITERS, TYPEWRITERS, IBM, Royal, Remington, Smith-Corona Reconditioned—Guaranteed, \$35.00 up Easy Terms House of Typewriters, 13011 So Memorial Parkway (Across from Redstone Park). Phone 881-5510. tfc

5/10/5 Post Liability \$10.00 a Year
Service men, all ranks and ages, also Civilians
W. E. DICKEY INS. AGCY.
PHONE 539-1161
507 Terry Hutchens Bldg. Huntsville, Alabama
Open Monday, Thursday and Friday nights from 5:00 to 9:00 p.m.

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

ARMY OFFICER'S DRESS BLUE UNIFORM and hat. Uniform, size 44-575. Hat: size 7 1/2, \$15 Sold together \$85 Call 534-5486 1tp

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

ANNOUNCING—Our new location as of 15 January 1964, 915-F Franklin Street, SE (Franklin Center), ABS SECRETARIAL SERVICE. We appreciate your patronage and look forward to serving you in the future. Phone 534-6451 or 536-5992

NEW UHF CONVERTERS \$11.97

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

CENTRAL TV & STEREO CO.
Cor. Governors Drive & Parkway
Phone 536-9761

ALL KINDS OF USED FURNITURE Trade-in on mobile homes. All kinds of appliances. See at Texas Auto & Mobile Home Sales, 1003 Meridian. No phone calls please! tfc

4. Mobile Homes

SEE OUR FULL LINE OF—Mobile Homes— or we'll both lose money! We trade for anything! easy terms. Come see the friendly folks at Texas Auto Sales, 1003 Meridian St., phone 536-6121. tfc

WHEEL ALIGNMENT \$4.88
(With This Ad)
Reg. \$6.50 Value)
Fast Service - Expert Wheel Mechanic
All Work Fully Guaranteed
U. S. TIRE SERVICE
Across From Butler High
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HUNTING and CAMPING EQUIPMENT
● Hip Boots
● Sleeping Bags
● Insulated Underwear
ARMY-NAVY SURPLUS CO.
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Ask for details on the low-cost long-term real estate loan plans now available.
● Also All Types of Insurance
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SPECIAL FROM Universal Motors Used Car Dept.
PHONE 539-7456
1954 CHRYSLER 4 door \$125, (cash). Universal Motors, Inc., your authorized Volkswagen dealer.
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SPECIAL

5. Houses, Lots - Sale

BRICK HOUSE FOR RENT OR SALE—1 1/2 years old. 100% financing or rent \$150.00 per month. 3 bedroom, 2160 sq. ft. of living area, dining room, sunken living room, sewing room, utility room and large built-in pantry, large den, built-in range, central heating and air conditioning, fireplace, 2 baths, 5 walk-in closets, 2 car garage, partially wooded corner lot 150x175, 10th Street, N.E., Arab, Ala. Can be seen by appointment only. Call Arab 586-4433 or Sumiton, Ala., 648-2791, Paul or Marie Stone. 2-5p

PARKWAY ESTATES—conveniently located, close to Arsenal, School, Churches and shopping center. This attractive, 3 bedroom, 1 1/2 ceramic tile baths, Air conditioned house, has Birch paneled kitchen family room paneled and tiled, garage with overhead storage, has patio established lawn and gradual sloping lot \$1800.00 equity and assume Mo. payments of \$114.00. Shown by appointment Phone 881-3158 2-19-c

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

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We build houses on your lot . . . 100% financed by us or VA and FHA financing. Built by Bonded Builders.
COLORED—If you have a good job, steady income and good credit you can buy a home in Love Sub-division V.A. or F.H.A. or we will build on your lot 100% financing. We have a few homes with payments from \$61.00 to \$65.00 per month.
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Just tell us how much money you need to meet all your seasonal expenses! Phone before noon to arrange for your money the same day! Do it now!
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LOANS UP TO \$300
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Open House Set

Open house will be held at the new Madison County-Huntsville Juvenile Detention Home across from the curb market on Sunday.

The home is not a correctional institution but a holding area for abandoned children or those which the court assigns to a correctional institution.

The capacity is 12 youngsters. Friends of the Family Court, an organization which grew from 27 different church denominations, have been active in establishing the home. Administration will be under Melvin Brooks. A couple will live there and actually run the establishment.

FOR SALE!
19 ACRES located 12 miles northeast of Cullman, 38 miles of Huntsville — COUNTRY ESTATES, all city conveniences. Large 3 bedroom brick home, 2 good wells, 1700 sq. ft. of living space, large oak shade tree, 2 full baths, gas heat, large patio and barbecue pit, large barn, two 10,000 capacity chicken houses, good fish pond, fallout shelter, fenced and cross fenced. All this for only \$27,500.00.
22 ACRES, choice retirement property, tract located in a thickly settled community, 20 miles south of Huntsville on black-top highway. Area is a highly developed agricultural section. Has 6 room dwelling, 3 bedrooms, bath, fine well, good barn, won't last long. \$8,000.00 E. G. WILLIAMSON, Real Estate Broker, pho. 734-6294, Cullman, Alabama. tfc

Governors Drive Barber Shop
2901 Governors Drive
Between Butler High and Parkway
REG. HAIRCUTS — \$1.25
Flat Top Specialists
OPEN 8 TO 8 . . . 6 DAYS A WEEK

Glen Park APARTMENTS
Completely furnished including air conditioning and TV outlet, lovely 2 bedroom, living room, kitchen and ceramic tile bath. Convenient to schools, churches and shopping.
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1006 W. Market St. — Athens, Alabama
One of North Alabama's Largest Furniture Stores
ACROSS FROM FAIRGROUND GATES
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Save on Furniture & Appliances AT . . . JOHN F's FURNITURE SUPER MART
On Highway 231 North at City Limits of Shelbyville
"Location: Old Parker Furniture Co. Bldg."
Thousands of Arsenal People Know This As The **HOME OF LOW PRICES**
Phone MU 4-4476

TYPIST WANTED
IF YOU HAVE HAD EXPERIENCE IN FIRE AND CASUALTY INSURANCE YOU ARE WANTED. IF NOT WE WILL TRAIN YOU IF YOU CAN TYPE NEATLY AND ACCURATELY. FAVORABLE WORKING CONDITIONS, ABOVE AVERAGE PAY. IF YOU MEET ANY OF THE ABOVE CONDITIONS AND WANT TO ADVANCE YOURSELF AND BE HAPPY IN YOUR JOB, CALL . . .
C. J. WAITE
536-4841 For An Appointment

Industry Provides Service, Guidance To Missile School

Some 50 representatives from six industrial firms assist the 600-man faculty of the Army Ordnance Guided Missile School in training 5,000 missile maintenance men per year for the Army, Marine Corps and 16 foreign nations.

Col. William J. Macpherson, commandant, said the representatives of the six firms are stationed permanently at the school to provide a variety of engineering support and educational services. The largest group is from the Teleprompter Corp., whose 35 representatives assist the school's military and civilian staff in op-

Three From Arsenal Attend R&D Course At Ft. Lee, Va.

One officer and two civilian employees of the Arsenal are at Ft. Lee, Va., attending the two-week R & D Procurement Orientation Course offered by the U. S. Army Logistics Management Center.

They are Lt. Col. Chester Neilson and Harold Zier, of the Zeus Project Office, and Webster Mayfield, who works in the Lance Project Office. Col. Neilson is Executive Officer and Zier is chief of the System Integration Branch. Mayfield is a mechanical engineer.

The course they are enrolled in is one of 18 offered by the Center devoted to postgraduate level logistics management education. The Center is a field activity of the Army Materiel Command.

operating and maintaining a closed circuit educational television system which feeds dozens of missile courses into classrooms each day. This group also works with the school's staff in producing televised lessons on the Army's field missiles. These are usually recorded on video tape and can be re-run into classrooms as required.

The five other companies involved are "prime" contractors which produce a missile system or a major component.

These include the Martin Company with five representatives on the Pershing missile; Raytheon Corp. with five men assigned to the Hawk missile; Sperry Utah Co. with three representatives on the Sergeant missile; Douglas Aircraft Co. and Western Electric Co. with one representative each on the Nike-Hercules air defense weapon.

Army Colonels Sought For Information Course

The Army's Chief of Information is seeking four Regular Army colonels—lieutenant colonels on a selection list for promotion—to attend special courses at the University of Wisconsin and Stanford University and qualify for top command assignments.

The officers would qualify for a Master's degree in Communications/Journalism and would become immediately eligible for some of the highest information posts available throughout the Army.

Details of the special program were made public by the Third U. S. Army through its local element, the Ordnance Guided Missile School.

In addition to holding regular colonel or lieutenant-colonel rank, applicants must also hold a college academic degree and must agree to serve a four-year utilization tour following completion of this schooling. Applicants should have less than 22 years of active service. Age requirements outlin-

ed in AR 350-200 will be waived. Applications endorsed by immediate commanders must be in the hands of the Chief of Information, Department of the Army, in Washington by April 15 of this year.

Details may be obtained from

FOR IMMEDIATE OCCUPANCY

575 square feet office space, reception, private restroom and 2 offices. Parking, daily janitorial service, drapes and all utilities furnished including heat and air conditioning. Near Arsenal and Airport.

Phone 534-5662
Between 9:30 a.m. & 4:30 p.m.

the Information Offices at the Missile Command and the Ordnance Guided Missile School.

July 4, 1776—Declaration of Independence signed in Philadelphia, Pa.

SPECIAL

FROM

Universal Motors Used Car Dept.

PHONE 539-7456

1960 VOLKSWAGEN Karmann Ghia Coupe. Sold new here, fully guaranteed for 30 days or 1000 miles. \$175. Cash or trade-in down and 24 months to pay balance.

2305 No. Mem. Pkwy.

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BORROW

\$2200

REPAY \$24.43

Homeowners Consolidate YOUR BILLS INTO ONE LOW MONTHLY PAYMENT —REPAYMENT SCHEDULE—

Amount	Mo. Pymts.
\$1,500	\$16.66
\$2,000	\$22.21
\$3,000	\$33.31
\$5,000	\$55.52

Real Estate Mtg. Co.
908 TIMES BLDG.
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DIAL 539-3457
24 Hrs. Everyday

OAKMONT

BEAUTIFUL HOMES

Price \$16,700 and Up

100% VA Minimum Down FHA

Hunter & Mitchell

REALTORS Phone 539-1759

BAILEY ESTATES

Located off Patton Road near Arsenal Gate One on Apollo Drive

BEAUTIFUL ALL BRICK HOMES

3 BEDROOMS — 1½ BATHS — HOLLYWOOD STYLE

LEARN TO APPRECIATE VALUE IN DESIGN AND HEAVY CONSTRUCTION . . .

MIN. DOWN FHA \$15,500 100% VA \$500.00 F.H.A. — No Down Payment

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REAL ESTATE

4601 Triana Blvd. — Call 24 Hours — Phone 881-4290

G. I. SPECIAL

Full Brick, 4 Bedrooms, 2 Ceramic Tile Baths, Separate Dining Room, Large Paneled Den, Built-in G.E. Kitchen Featuring Oven, Surface Unit, Dishwasher, and Garbage Disposal, Centrally Air Conditioned. Located in Southeast Huntsville on Louis Drive. Ready for Immediate Occupancy.

\$22,300

NO MONEY DOWN . . .

NO CLOSING COST V.A.

ENSOR REAL ESTATE

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The Bob Keller Realty And Auction Co. Will Sell At Complete

AUCTION

Angus Cattle — Dairy Cattle — Farming Equipment

The Complete Dispersal Auction of All Cattle And Equipment of the S&R Hereford Ranch. The Ranch Formerly owned by Mr. R. B. Stapp and Mr. J. M. Rosescher. The S&R Ranch has been sold at private treaty and all livestock and farming equipment will be sold to the high high dollar.

The Sale Will Be At The Ranch Located 4 Miles South of Pulaski, Tenn. Go South on Hwy. 11 for 3 Miles. Turn Right At The S&R Hereford Ranch Sign — Go ½ Mile to the Farm—Follow Auction Signs.

SAT., FEB. 1st, 9:27½ A.M.

Farming Equipment

- | | | |
|---|--|---|
| 1 Massey Ferguson Tractor (Diesel 35 Deluxe—Less than 1000 Hours. | 1 Milk Truck Body for Feed Room. | 200 Concrete Blocks |
| 1 Massey Ferguson, No. 10 Hay Baler (Like New). Only baled 500 Bales. | 1 School Bus Body for Storage Space | 1 Wood Heater |
| 1 Rake (New) | 1 GMC Dump Truck—Excellent condition. | 1 Electric Stove |
| 1 New Disc and Bog Comb. | 1 Jeep 4-Wheel Drive (Good condition) | 1 Pony Road Cart |
| 2 Tractor Lifts | 1 55 Gal. Motor Driven Gas, Cattle Spray | 6 50 Gal. Drums |
| 1 New 8 Ft. Mower Tractor | 2 Tobacco Sprays | 1 Oil Pump |
| 1 Tractor Hole Digger (PTO) | 1 Flame Thrower | 1 Hand Tobacco Setter |
| 1 New Mayrath grain elevator with gas motor. | 3 Electric Fences | Tobacco Sticks |
| 1 1945 Ford Tractor in excellent condition. | 1 Cut Off Saw | 1000 Cedar and Locust Post Used Tin in 6', 8' and 10' Ft. |
| 1 1956 Chevrolet Truck — 1½ ton, with stock racks in excellent condition. | 2 Dinner Bells | 1 Dr. Pepper Drink Box |
| 1 New Fertilizer and Seed Sower (PTO) | 2 Large Electrical Fans | 2 Boats For Lake |
| 1 2-Slat Wing Turning Plow Massey Ferguson. | 1 Corn Sheller | 1 House Trailer, 31 Ft. with 2 bedrooms, Completely furnished. |
| 1 2 Slat Wing Turning Plow (Ford) | 1 Walnut Huller | New Lumber |
| 1 Tractor Rubber Trailer Wagon. | Wheel Borrows over troughs, 12 ft. | 2 New Rollis Barbwire. |
| 1 2 Wheel Trailer (Rubber Tires) | 12 Cattle Feeders, Racks | 1 Concrete Mixer |
| 1 Portable Loading Chute on Rubber Tires | 10 Grain trough feeders, 12 Ft. | 1 Cultivator for Ford Tractor |
| 1 1 Ton Truck 1953 with Stock Racks in excellent condition. | 2 1 Ton Calf Creep Feeders (Feeds 8) | 2 Good Sets of Wagon Harness with Housing and Piping |
| 1 Cultipacker | 20 Hog Feeders (All Sizes) | Saddles, Bridles, Riding Bridles, Collars, Halters, Ropes, and many other items too numerous to mention. |
| 1 Hammer Mill | 4 Pig Creep Feeders | Complete Blacksmith Shop Tools, consisting of Anvils, Blowers, Vises, Pipes, Wrenches of all kinds shoes, nails, and many other small items |
| | 1 Battery Fence | |
| | 1 Utility Cabinet | |
| | 3 Salt Feeders | |
| | 2 Automatic Hog Oilers | |
| | 5 Gal Oil Drums | |
| | 1 Electrical Refrigerator | |
| | 1 12 ft Deep Freeze | |
| | 1 10 Ft. Aluminum Step Ladder | |

Cattle

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|--|--|
| 40 Head Dairy Cattle, springing or in milk, Holsteins, Brown Swiss or Jerseys. | and Milking Short Horns, (all open) |
| 1 Registered Short Horn Bull | 30 Head Good Black Angus Cows, 3 with calves by side, rest bred, all good ages One of the finer Young Herds in Tennessee — All cattle will be T.B. and Bangs Tested. |
| 1 Brown Swiss Bull | |
| 1 Black Angus Bull (Mac Maples) | |
| 150 Replacement Heifers, Holstein, Brown Swiss, | |

Hogs

And Other Farm Stock

- | | |
|------------------------|-------------------------|
| 12 Hogs—150 Lbs. | Peacocks and Peafowls |
| 2 Sows with Pigs | Ducks |
| 2 Bred Sows | Guineas |
| 1 Pure Bred Duroc Boar | Chickens |
| 12 Goats | 100 Game Hens and Cocks |
| 6 Turkeys | |

Horses

- | | | |
|---|--|--|
| 1 3 year old Roan Walking Mare, well broke (Bred to Abernathy Stud). Excellent walking mare, (Beauty) | 2 Young Walking Mares, (Bred to Abernathy Stud). | 1 2-Year-Old Quarter Horse Stud |
| 1 6 Year Old Walking horse or work horse, well broke. | 1 2 Year Old Walking Stud Colt (entitled to papers) | 1 1-Year-old Quarter Filly. |
| 1 Black Mare (Could be Thoroughbred) Bred, good walking mare. | 1 Yearling Filly Walking Colt. (Entitled to papers). | 12 Ponies All Mares, Bred, Palomino and Pinto, all young |
| | 1 7 Year old quarter horse (Mare Bred to Quincy Sorrel Horse). | 1 Palomino Stud—3 years old. |
| | | 5 Yearling Colts |
| | | 1 Pr. Good Jenny Work Mules |

Horse Drawn Equipment

- | | |
|--|---|
| Horse Drawn Equipment of all kinds, Disc, 2 Cultivators, Harrows, Turning Plows, Double Shovels, Bull Tongues, Single and Double Trees, Scratchers, Tobacco Scratchers, Rakes, | 3 wagons, Mower, 2 Road Scoops, Hand Tools of All Kinds, Hole Diggers, Picks, Shovels, Axes, Wire Stretchers, Forks, Rakes, Hoes, Scoops, 3 Beagle Hounds |
|--|---|

Milking Equipment

- | | |
|--|--------------------------------|
| 30 10-Gal. Milk Cans | 1 8 Can Milk Cooler (Electric) |
| 2 Unit Delaval Milkers (from cow to can) | 1 6 Can Electric Milk Cooler |
| Milk buckets and strainers | |
| 8 Calf Feeder Buckets | |

This is the Finest Selection of Farming Equipment Ever Offered Under The Auction Hammer.

TERMS: CASH.
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Missile School Deploys 120 Combat Support Units

A significant part of one of the most powerful military forces in world history has been created here since the Army Ordnance Guided Missile School began training missile maintenance specialists 11 years ago.

Since 1952, the School has activated and deployed 120 units throughout the free world to support combat forces on duty from the Eastern Mediterranean to the China Sea.

Col. William J. Macpherson, commandant, analyzed the figures in terms of the vastly increased firepower of the rocket age.

"Some of the smallest nuclear warheads of today equal the firepower of an entire Army division or of a complete tactical air force of World War II. We calculate that two percent of the modern Army's manpower now controls 98 percent of its firepower," he explained.

A single Ordnance missile maintenance unit of about 40 men now supports four firing batteries in an Artillery battalion of about 720 men, and most U. S. missile battalions are equipped to fire either conventional explosives or nuclear warheads.

The 120 units activated here have been trained for other branches of the U. S. forces and many foreign countries as well as the Army, he said.

Their missiles have varied from the Army's first air defense missile, the Nike-Ajax which became operational in 1953, to the new Pershing ballistic missile which streaks at supersonic speeds over a range of several hundred miles to deliver atomic warheads on targets personally selected by the commander of an entire Field Army.

Thirty-seven of the units have come from 16 foreign nations which are directly allied with the United States or have negotiated special purchase agreements with this country. Among the latter are Sweden and Israel which bought rights to the Hawk air defense missile.

The foreign units were the pioneer missile forces of their respective nations.

The Hawk has proved to be the most popular missile yet developed by the Army, he said. It has been adopted as a standard weapon by the Army and Marines, the 15 nations of the North Atlantic Treaty Organization and three Asiatic countries — Nationalist China, Japan and Korea.

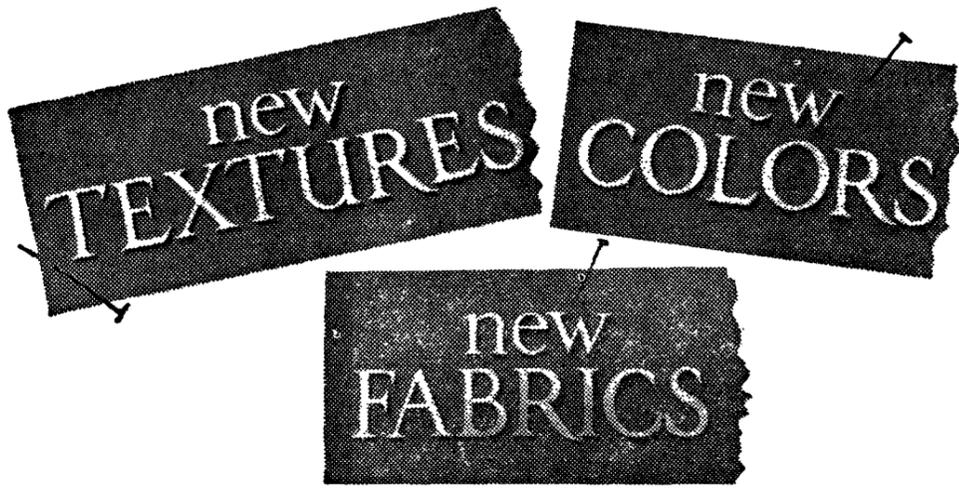
To date, 29 Hawk units have been trained, and the 1964-65 Hawk program will continue at an accelerated rate. The Hawk's now being manufactured for NATO forces in Europe by a consortium of industries in Belgium, France, Germany, Italy and The Netherlands.

The Allied roster of students trained here now includes Belgium, Britain, Canada, Nationalist China, Denmark, France, Germany, Greece, Israel, Italy, Japan, Korea, Netherlands, Norway, Sweden and Turkey.



ONE FOR THE ROAD—The "one" is a safe motoring jingle and a pair of seat belts awarded the winners of the recent holiday safety contest. Left to right are Col. Edwin I. Donley, Pershing Project Manager; SFC Juan Rodriguez, 55th Army Band; Col. Thomas W. Cooke, Commander, Army Missile Support Command

who presented the awards; and Charles Martin, Thiokol Chemical Corporation, Alpha Division. The Support Command Safety Office, which sponsored the contest, also presented seat belts to SFC Gerald Ashmore, Missile Command Detachment; and Margaret Thomas, Civilian Personnel Office.



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for now and spring!**

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Movie Schedule

WEDNESDAY, January 29
"Rose Marie" (F)
THURSDAY-FRIDAY, January 30-31
"Seven Days in May" (M-YP)
SATURDAY, February 1
"California" (F)
SUNDAY-MONDAY, February 2-3
"Bon Voyage" (F)
TUESDAY, February 4
"My Son, The Hero" (M-YP)
Two shows nightly at 6 and 8:30 p.m., Saturday matinee at 1 p.m., Sunday matinee at 2 p.m.

Part of America's real strength is the confidence that we CAN and WILL take care of ourselves. And that's where U. S. Savings Bonds come in — they help in strengthening both family and national financing!