

# The Redstone Rocket

Published by Jack W. Hoffhaus, a private individual, at Huntsville, Ala. Opinions expressed by the publisher and writers herein are their own and are not to be considered an official expression by the Department of the Army. The appearance of advertisement in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

VOL. IX; NO. 39

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

FEBRUARY 8, 1961

## ABMA Is 5 Years Old

### Agency Developed First Orbiting Satellite for U. S.

#### Developed Redstone Missile, Is Working On Pershing, Others

The pioneering U. S. Army agency that orbited the Free World's first earth and solar satellites and gave America its first long-range ballistic missile, the Redstone, has quietly observed its fifth birthday.

Feb. 1 passed without ceremony at the Army Ballistic Missile Agency. It was a normal working day for Brig. Gen. Richard M. Hurst and his staff of military and civilian missile experts.

ABMA, working now on advanced missiles for the modern Army, can look back on five years of solid accomplishment.

Activated in 1956, ABMA began life with the mission of developing the Jupiter intermediate range ballistic missile and getting the Redstone, already in advanced development, to Army units in the field.

Today both missiles are in service in Europe, guarding the Free World.

The same ABMA missiles and the team that developed them gave the United States its initial successes in space exploration. A modified Redstone formed the first stage of the composite vehicle called Jupiter "C" that orbited Explorer I, our first earth satellite three years ago.

ABMA's Jupiter, that chalked up the first successful IRBM firing in America, also sent Pioneer IV, the Free World's first solar satellite on its way two years ago.

The ABMA team proved strong enough to withstand division. In the past year, many experienced civilian personnel, together with facilities and the space projects upon which they had been working, launch vehicles for the man-in-space program, Project Mercury, and the super power space vehicle, Project Saturn, were transferred to the National Aeronautics and Space Administration.

Proven competence has resulted in increased responsibilities and assignments for the ABMA team. (See ABMA on Page 2)

## Counties Receive Share of Arsenal UGF Donations

Marshall County organizations received a total of \$7,839.35 from contributions made by employes at Redstone Arsenal during its 1960 United Givers Fund campaign.

Of this total, \$6,498.94 was given by employes of Army agencies at Redstone Arsenal, and \$1,340.41 was contributed by employes of the Marshall Space Flight Center.

During the six-week campaign conducted on the Arsenal, employes could designate that their gifts be forwarded to organizations in their home counties, similar in purpose to the organizations participating in the Redstone Arsenal UGF.

The amounts returned to areas indicated by employes is approximately as follows: Arab, \$4,200; Guntersville, \$2,400; Boaz, \$600; and Albertville, \$600.

A four-man committee composed of employes from Marshall County received and distributed the funds from the Arsenal UGF. Members of the committee were: Harold K. Katz, Guntersville; John F. Mills, Arab; Bobby Nunn, Boaz; and James Taylor Smith, Albertville.

## NIKE HERCULES CONTRACTS GO TO WESTERN ELECTRIC

Announcement of the award of three contracts totaling \$8,564,000 to the Western Electric Company for work to be performed on the Army's Nike Hercules missile system was made last week.

Largest of the three is a \$4,000,000 contract for production engineering services. The work will be done at Western Electric's Burlington, N. C., plant, the Bell Telephone Labs in Whippany, N. J., the Douglas Aircraft Company in Santa Monica, Calif., and at White Sands Missile Range, N. M.

A \$3,064,000 contract calls for research and development of the improved Nike Hercules. The major portion of the work will be done at the Bell Telephone Labs, while the remainder will be the Jupiter, under operational control of the U. S. Air Force, the ABMA organization is currently supervising development of the solid fuel Pershing ballistic missile.

ABMA also is responsible for the Honest John and Little John free flight battlefield rockets, the Corporal and Sergeant ballistic missiles, the XM-72 shoulder-fired anti-tank weapon and two advanced missile systems currently designated by the Army as Missile "A" and Missile "B."

## Col. McCloskey Is Slated To Fill First Army Post



COL. OWEN T. McCLOSKEY  
Redstone Arsenal Commander

### He Is Attending OGMS Courses Before Transfer

#### Colonel Plans Leave When 'Refresher' Courses Completed

Maj. Gen. August Schomburg, Commanding General of the Army Ordnance Missile Command, today announced the impending transfer of Colonel Owen T. McCloskey, Redstone Arsenal Commander.

Orders have been received naming Col. McCloskey Ordnance Officer, First United States Army. He is due to leave for his new assignment at Governor's Island, New York, later this month following a two week refresher course at the Ordnance Guided Missile School.

A new Arsenal Commander has not yet been named, Gen. Schomburg said.

Col. McCloskey has been Arsenal commander since early 1959 after serving his first year on post as Arsenal deputy commander.

As post commander, he was responsible for furnishing a variety of services for "tenants" on the 40,000 acre installation including the AOMC Headquarters; the Army Ballistic Missile Agency and the Army Rocket and Guided Missile Agency—other AOMC elements; the Army Ordnance Guided Missile School and more recently, the George C. Marshall Space Flight Center of the National Aeronautics and Space Administration.

The installation underwent remarkable growth during Col. McCloskey's command. In coordination with agency commanders, Col. McCloskey prepared a master plan and supervised its execution.

He took particular interest in improvement of the quarters and recreational facilities provided for the approximately 3,000 enlisted men assigned to the various Army elements on the Arsenal.

(See COL. McCLOSKEY, Page 3)

### HIPAR Bids Asked By Army Engineers

Army Engineers have invited interested contractors to submit bids for the construction of HIPAR (high-powered acquisition radar) training facilities at the U. S. Army Ordnance Guided Missile School for training military field personnel in the use of the new high-powered radars being incorporated in the Nike Hercules missile system.

The job will include constructing a HIPAR building, a generator building, a guard house and a latrine, all of masonry construction; erecting Government-furnished HIPAR radome support tower, antenna tripod, guy derrick, and radome; installing Government-furnished engine generator sets; and providing inside and outside utilities, chain link fencing, concrete pads, and access roads and parking areas.

Bids for the contract will be opened on Feb. 16 at the Corps of Engineers district office in Mobile, Ala. Bidding is restricted to small business concerns in accordance with the Army policy to assure that a fair share of its procurement is placed with small firms.

### Gordon Harris Moves From Ordnance to Chief Of Information Office

Maj. Gen. William Quinn, the Army's Chief of Information, has announced the appointment of Gordon L. Harris to the position of Assistant Chief of Information.

Harris has been serving as Chief, Technical Liaison Office for the Chief of Army Ordnance, Lt. Gen. J. H. Hinrichs. He will assume his new duties March 1.

Harris came to the Pentagon in July, 1960 after four years employment at Redstone Arsenal, where he was Public Information Officer of the Army Ballistic (See HARRIS on Page 3)

### Campaign Chairman For Health Fund Is Harold Carpenter

Selection of Harold B. Carpenter, ARGMA Control Office, as Executive Chairman of the National Health and International Relationship agencies fund campaign at Redstone Arsenal was announced today by Maj. Gen. August Schomburg, Commander of AOMC and Chairman of the fund drive.

Distribution of contribution envelopes will begin the six-week campaign Feb. 20.

"These worthy national and international causes," Gen. Schomburg said, "should inspire the support of each individual. I look forward to results as successful as in similar past campaigns."

(See CAMPAIGN on Page 2)

## RCA Receives Contract To Further Radar Study

The U. S. Army last Wednesday awarded a \$1,095,161 contract to the Radio Corporation of America, providing additional funds for work on an advanced radar to be used for in-flight study of ballistic missiles.

The Defense Electronics Products Division of RCA, Moorestown, N. J., is building the radar, called TRADEX.

It will be installed on the Island of Roi-Namur in the Southwest Pacific to track intercontinental ballistic missiles, as part of the Advanced Research Projects Agency's Project PRESS—Pacific Missile Range Electromagnetic Signature Study.

The contract, awarded by the Philadelphia Ordnance District, covers continued engineering services and equipment.

The Army Rocket and Guided Missile Agency is acting as agent for ARPA in the study.

ARGMA is also technical supervisor for the Nike Zeus anti-missile missile program. It is installing a Nike Zeus complex on (See RCA on Page 3)

### Coaxial Cable Will Connect Test Facilities

WASHINGTON — The Nike Zeus Test Facilities in the Marshall Islands are soon to be connected by coaxial cable laid on the dud-littered ocean floor under that Pacific battleground, it was announced last week.

Early in February, 1961, the Army cable ship "Albert J. Meyer" will bury 85 nautical miles of cable in an ocean trench. The cable will link together the systems which will test the Army's anti-missile missile.

First, Kwajalein Island's main testing facilities will be connected with the neighboring atolls Ennylabegan and Gugegue (pronounced GOO-JEE-GOOEY) by 30 miles of cable. The Army will then lay 55 miles of single length coaxial cable to tie the Kwajalein complex to Eniwetok and Roi-Namur. (See COAXIAL on Page 2)

## MAJOR ALFRED BURNETT RETIRES; WAS SECURITY OFFICER IN AOMC

Maj. Alfred S. Burnett, until Jan. 31st Deputy Chief of the Security Office of the Army Ordnance Missile Command, has retired from the Army.

In ceremonies at AOMC headquarters, last week Maj. Burnett received the Army Commendation Medal from the AOMC commanding general, Maj. Gen. August Schomburg.

A native of Knox County, Tenn., Maj. Burnett entered service in September 1940, and was commissioned a second lieutenant in July 1942. He served with the 330th Infantry, 83rd Division; and the 290 Infantry, 75th Division. He participated in the Ardennes, Rhineland, and Central European campaigns.

He received the Bronze Star for achievement in ground operations against the enemy in Belgium, as a reconnaissance officer.

During the Korean conflict, the major served with the 27th Infantry, 25th Division, taking part in five campaigns. He received the Silver Star for gallantry in action. He also was awarded the second Oak Leaf Cluster to the Bronze Star and a Third Oak Leaf Cluster. He holds numerous additional decorations.

After service with the Tennessee Military District in Nashville, he was assigned as an area intelligence officer in Korea and Japan.

A graduate of Knoxville High School, he also attended the University of Tennessee. He is the son of Mrs. W. S. Burnett, 4404 Old Sevierville Pike, Knoxville.

He is the husband of the former Miss Flo Giffin, daughter of Mrs. A. H. Giffin, 2016 West Gilbert Lane, Knoxville. The couple has two children: Rebecca, 18; and Alfred, 14.



RETIRES—Maj. Alfred S. Burnett, a native of Knox County, Tenn., is shown, right, as he recently received the Army Commendation Medal from Maj. Gen. August Schomburg, commanding general of the Army Ordnance Missile Command at Redstone Arsenal. Retiring January 31st after more than 20 years' service, Maj. Burnett served as Deputy Chief of the AOMC Security Office from August 1958 until January 31, 1960.

# The Redstone Rocket

The Redstone Rocket is a privately owned newspaper published every Wednesday at no expense to the Government by Jack W. Hoffhaus, Hartselle, Alabama, with exclusive regard for the reader interests of personnel at Redstone Arsenal, Alabama, in accordance with an agreement between the publisher and the Public Information Office, Army Ordnance Missile Command, Redstone Arsenal, Alabama.

The Rocket is NOT an official or semi-official Army or Ordnance Corps publication. Policies and statements reflected in the news and editorial columns represent the views of the individual writers and are not necessarily those of the Department of the Army, the Ordnance Corps, or any organization at Redstone Arsenal, Alabama. Appearance of advertisements in the Rocket does not constitute an endorsement of the advertising matter by the Department of the Army, the Ordnance Corps, or any organization at Redstone Arsenal, Alabama.

The publisher will receive editorial content for publication in the Rocket only through the Public Information Office, Army Ordnance Missile Command, Redstone Arsenal, Alabama, Bldg. 7101, Extension 876 - 3362. All advertising copy and payments therefor are received by Mrs. Zillah Newsome, 311 Holmes Ave., N. E., Huntsville, Alabama, P. O. Box 346, telephone JE 4-4701, as representative of the publisher.

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates for the Rocket are \$5.15 a year, or \$2.83 for six months, Alabama sales tax included. Mailing arrangements may be made with the publisher.

## ABMA

(Continued From Page 1)

In addition to continuing work on the Redstone and support for done by the General Electric Company of Syracuse, N. Y. and the Western Electric plant at Burlington.

The third contract provides \$1,500,000 for the development of field manuals on the improved Nike Hercules system. The work will be done by Western Electric, Douglas, and General Electric.

The Nike Hercules is the second generation of the Nike family of air defense guided missiles. Western Electric is prime contractor for the system under the technical supervision of the Army Rocket and Guided Missile Agency. ARGMA is also responsible for the Nike Ajax and the Nike Zeus.

The New York Ordnance District administers the contracts.

## Coaxial

(Continued From Page 1)

"Getting ready for these show-down tests of the Army's Nike Zeus calls for real cooperative effort by the service and civilian industry," said Brig. Gen. John G. Zierdt, Commander of the Army Rocket & Guided Missile Agency, in charge of the top priority Zeus program.

Gen. Zierdt cited the following tasks to show how the services and industry are working together:

"The Army, in charge of the whole Nike Zeus show, will lay the Submarine Cable;

The Navy's underwater demolition experts will clear the World

## Campaign

(Continued From Page 1)

Carpenter stated that six National Voluntary Health Agencies and three International Relationship Voluntary Agencies will be included in the campaign. Two envelopes will be distributed at the same time.

Campaign organization will be similar to that of the United Givers Fund drive last Fall. Persons in key positions of that organization have been asked to supervise distribution of envelopes and collection of contributions during this drive.

Envelopes will be assembled and forwarded to two locations for opening and counting. The Birmingham Trust Company will provide this service for the National Health Agencies. Envelopes of the National Voluntary Health Agencies will be opened, and funds counted by the First National Bank of Huntsville.

To reduce the two firms' necessity of opening all envelopes, Carpenter has requested that only envelopes returned with contributions be sealed.

National Voluntary Health Agencies in this year's campaign include Multiple Sclerosis Society, United Cerebral Palsy Association, American Cancer Society, American Heart Association, The Arthritis and Rheumatism Foundation, and Muscular Dystrophy Association of America.

International Relationship Voluntary Agencies include CARE, American-Korean Foundation, and Crusade for Freedom.

War II Duds from the Ocean Floor, and will prepare the cable trenches;

"The Air Force will shoot the targets for the Nike Zeus ICBM's fired from the California coast;

"And the Western Electric Company, prime contractor for the Army's Zeus program, will provide overall technical supervision of the coaxial cable operation."

She: "Have you done well with your bees this year?"

He: "Yes and no. They haven't given much honey, but on the other hand they stung my mother-in-law."



**SUBJECT: ARMY MISSILES**—Maj. Gen. John A. Barclay, deputy commanding general of the Army Ordnance Missile Command, chats with G. J. Lynch, Group vice president, Defense Products Group, Ford Motor Company, and G. J. Rauschenbach, (left) Huntsville representative of Ford's Aeronutronic division during their recent visit to AOMC headquarters at Redstone Arsenal, Ala. Aeronutronic is prime contractor for the Army's new Shillelagh missile system, now in development.

## Sergeant Training Begins at Sperry

Some 25 potential instructors began a new equipment training course on the Sergeant missile system this month at the Sperry Utah Engineering Laboratory in Salt Lake City, Utah.

The first class is scheduled to graduate in March. The eight week course which began this month will end in April.

Upon graduation, student personnel will return to their parent duty stations.

ent duty stations.

Col. Charles Payne, chief of the Army Ballistic Missile Agency training office, welcomed the students to the class.

The course is designed to train personnel requiring an early knowledge of the weapon system.

Personnel attending the classes represent the U. S. Army Ordnance Guided Missile School, the U. S. Army Ballistic Missile Agency and White Sands Missile Range.

A valuable safety tip for today: Defrosters may clear steam and moisture off the inside of your windshield. However, defrosters may not clean the outside. Elbow grease has to be used for that.

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**BOY SCOUT LEADERS** — SPS Herman Hilmes (center) Scoutmaster of Boy Scout Troop 308, Redstone Arsenal, is shown at center receiving the Presidential Award for the troop, presented by Scout Executive W. L. Baird, at the Annual Recognition Banquet of the Tennessee Valley Council. T. F. Gannon of ARGMA, Advisor to Explorer Post 203, standing at Hilmes' left, accepted a similar award for the post and Grady Kennedy, extreme right, Scoutmaster for Troop 12, sponsored by Farley Methodist Church. The Presidential Award was given to Scout Units which completed a prescribed program of physical fitness, recruiting new Scouts, community service and outdoor activities during 1960. (Photo by Peter Grant, Troop 308).

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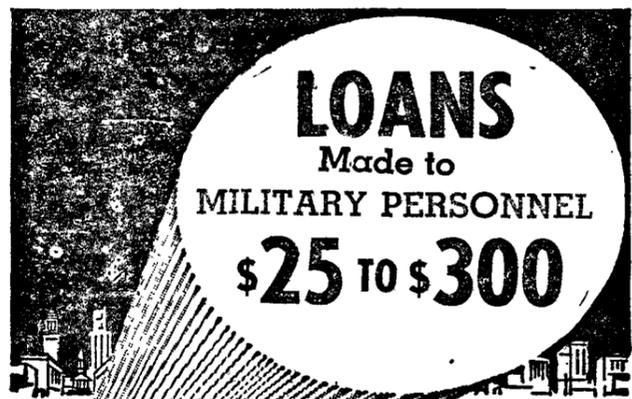
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(Continued From Page 1)

Missile Agency and later held the same post at the Army Ordnance Missile Command.

During that period he planned and executed the public information phases of the launching of the first U. S. earth satellite, Explorer I; the Pioneer IV moon probe; the recovery of the space monkeys, Able and Baker, and the Redstone and Jupiter Ballistic Missile Systems.

He is a graduate of the Dover, N. J. High School and Columbia College, New York City, where he spent a year in the Pulitzer School of Journalism. For 25 years, except for absences in the military service, he edited the Lake Land News of Dover.

He is a former president of the Dover Board of Education and the Dover Recreation Commission.

Harris is a lieutenant Colonel, U. S. Army Reserve. During World War II he was a Counter Intelligence Corps agent in the Western Pacific Theatre of Operations. During the Korean Conflict he served as Chief, Administrative Services and later as executive assistant at Picatinny Arsenal, the Army's ammunition research and development center.

A son, David G. Harris, is employed in the Ordnance Missile Command headquarters. Another son, Thomas, is a senior at Columbia College.

Mr. and Mrs. Harris live at 660 S. Illinois St., Arlington, Va.

He is a member of the American Ordnance Association, the Association of the U. S. Army and the American Rocket Society.



DR. FRITZ K. MUELLER, center, accepts U. S. Patent No. 2,966,744, protecting his invention of a gyroscopic theodolite assembly, from F. J. Buckley, Jr., General Counsel for the Army Ordnance Missile Command at Redstone Arsenal. William P. Murphy, left, Assistant General Counsel for Patents, looks on. Dr. Mueller's device establishes true north, without external reference. It is useful in missilery. Dr. Mueller, associated with Astrospase Laboratories, Huntsville, was one of the 120 scientists who came here from Germany under Dr. Wernher von Braun in 1945. He is a graduate of the State College of Thuringia. Dr. and Mrs. Mueller live at 1306 Lowell Dr., S.E., Huntsville. During the presentation, Mr. Buckley observed that numbered patents have been issued since 1826, and there are less than three million in force. He indicated the issuance of this legal protection is an honor in itself.

RCA

(Continued From Page 1)

the Island of Kwajalein, 50 miles from Roi-Namur.

Full system tests will be conducted there, putting Nike Zeus

against Atlas ICBM's. Project PRESS will track the same missiles.

Construction is under the supervision of the U. S. Army Corps of Engineers.



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Col McCloskey

(Continued From Page 1)

New barracks were completed, the service club was doubled in size, new library and picnic areas were opened, and work was begun on a new swimming pool now nearing completion.

His interest in community activities was recognized by two annual awards of Outstanding Citizenship Plaques for efforts in the community's United Givers Fund Drive. He is a member of the Huntsville Country Club and the Huntsville Rotary Club and served for one year as a member of the Huntsville-Madison County Chamber of Commerce.

Col. McCloskey also served as Arsenal chairman of the Army Emergency Relief Fund Drive and the United Health Campaign.

The colonel entered the Army in 1940 following graduation from Aquinas College and Ohio State

University. A native of Columbus, Ohio, he later received his master's degree in foreign affairs from George Washington University, Washington, D. C.

His World War II assignments included service in England, France and Belgium. His decorations include the Bronze Star Medal and the Belgian Order of King Leopold II.

He graduated from the Armed Forces Staff College in 1951 and subsequent tours included assignments as Ordnance Officer, VII Corps, and Ordnance Officer, U. S. Army Infantry Center, Ft. Benning, Ga.

The colonel is not married. He lived at Goddard House, across the street from his headquarters, during his tour at Redstone Arsenal.

He plans a short leave to visit his sister, Miss Margaret McCloskey, in Columbus, Ohio, prior to reporting to his new duty station.

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1956 PLYMOUTH — Hardtop Sport Coupe with '6' engine, std. shift, new tires and newly overhauled engine. Only 45,000 miles. It's a one-owner job. No money down. — \$792

1955 CHEVY 4-Door '210'. 6-cyl. straight shift. Radio, heater, new tires. Only \$590.00. No money down, \$34.00 per mo.

Specials For The Week — Wagons

1953 FORD 4-Door 9-pass. V8. Radio and heater, one owner with low mileage. No money down. \$29.00 per month.

1956 FORD Country Sedan Station Wagon Fordor 9-passenger V8, auto trans., full power and new tires. Excellent. No money down. Reduced from \$745.00 to \$645.00

1955 BUICK 4 Door Hardtop Century, radio, heater, 5 new tires, one owner, extra clean. \$795.00.

1956 FORD 4 Door Custom V8, auto., radio, heater, new tires, one owner, extra clean. \$695. No money down.

1954 CHEVY 4-Door Bel Air 6-passenger, newly overhauled engine, new tires, radio, and heater. No money down. \$445. No money down.

1955 FORD 4-Door 6-passenger V8, auto trans., radio, heater, new tires. Newly overhauled engine. Reduced from \$790.00 to \$690.00.

1955 PONTIAC 2 Door V8. Standard shift, radio, heater, extra clean. \$595.00. \$34.00 month. No money down.

1955 FORD 2 door Fairlane, radio, heater, red and white finish, \$495.00. \$29.00 per mo. No money down.

1958 FORD 2 door V8. Str. shift, radio, heater, new tires, 38,000 actual miles, one owner. \$1295.00.

1957 CHEVY 2 Door V8 Del-Ray Cpe. Radio, heater, beautiful canary yellow and white. \$995.00.

1956 OLDS 4 Door Super '88'. Radio, heater, 5 new tires, one owner, 34,000 actual miles. No money down. \$895.00.

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# Social News

## FEB. 11 DANCE AT OFFICERS CLUB WILL BE FORMAL

The Feb. 11 dance at the Squirrel Hill Officers Club will be formal, sponsored by the Redstone Arsenal Officers Wives Club.

Reservations may be made with the club officer for dinner which begins at 6 p.m., the Happy Hour in the Redstone Room between 7:30 and 8:30 p.m. and dancing from 8:30 p.m. to 12:30 a.m.

Music will be furnished by Martin Enger and the Rythmaires. A "Sweetheart" of the ball will be crowned.

Chairman for the dance committee is Mrs. Oliver M. Hirsch.

## BUNN WILL SPEAK AT IES MEETING

Frank C. Bunn, Associate Director, Test Operations Branch, Test and Evaluation Laboratory, Army Rocket and Guided Missile Agency, will address the Institute of Environmental Sciences in Washington April 5.

He will discuss the mobility of missile launch equipment in the Arctic. The ability of a missile system to meet methods of deployment will increase the chances of having mobile superiority over the enemy.

The IES has invited approximately 75 scientists to the 1961 National Meeting to make presentations during the three-day program.

Prior to his present position, Mr. Bunn served as Chief, Operational Test Section, Test and Evaluation Laboratory.

A native of Tuskegee, Ala., Bunn graduated from Alabama Polytechnic Institute where he

## Engineer Group Is Meeting Tomorrow

Northeast Alabama Chapter, Alabama Society of Professional Engineers, will meet at the Albert Pick Motel, North Memorial Parkway, Thursday, Feb. 9.

Social hour will be 6 to 7 p.m. with dinner at 7 p.m. and the business meeting at 8 p.m.

This meeting is a joint AIEE and NSPE Meeting.

Reservations may be made with John M. Caudle, Ext. 876-1411 or Jack H. Furman, office phone JE 9-0797.

All interested engineers are invited to attend and hear a talk by an authority on power.

The speaker will be G. O. Wessenaer, Manager of Power, TVA, who will speak on "The TVA System and the Widows Creek Power Project."

The Widows Creek Power Plant No. 2 was formally opened last week and has the largest single generator in the world — 500,000 KW unit. Wessenaer will also speak on the 2,800 KW generators recently ordered from the General Electric Company for over \$30,000,000.

## Bridge Group Plans Party Day Next Week

Winners for the Thursday Bridge Group sponsored by the Redstone Arsenal Wives Club last week were Mrs. W. H. Clisson, first, Mrs. J. B. Clift, second, and Mrs. R. K. Wensley, third.

majoring in Aeronautical Engineering.

He married the former Miss Stella Stewart of Montgomery. The Bunn's have one child and reside at 2004 Princeton Blvd, Huntsville, Alabama.

## Four Officers Join Sojourners

Redstone Chapter No. 353, National Sojourners, met Friday night, Feb. 3, at the Squirrel Hill Officers Club.

New members taken into the Chapter are: Lt. Col. Charles E. Harrison, Washington Lodge No. 9, Eatontown, N. J.; Lt. Col., USAR Lewis L. Gober, Union Kilwinning Lodge No. 4, Charleston, S. C.; Capt. Harrison E. Fite, Manhattan, Kans. Lodge No. 16; Capt. Victor B. Swan, Helion Lodge No. 1, Huntsville.

Guest speaker of the evening was Kenneth W. Raby, Assistant Special Agent, FBI Office in Birmingham, Alabama. Raby spoke on FBI investigation of crime and communist activities in the United States. He answered questions after his address. Glenn Hern, FBI representative from Huntsville, was a guest.

Maj. Leonard E. Miles, Jr., discussed and showed a film entitled "Operation Abolition," which deals with Communist activities during the hearings by the Committee for Un-American activities held in San Francisco, Calif.

Grady Pepper, Chairman of the Sojourner Americanism Committee reported that this committee will present ten American flags to the public schools of Madison County on Washington's Birthday.

## TOASTMISTRESSES MEET

The Huntsville Toastmistress annual speech contest began with four speeches on Feb. 1.

Judges were members of the Redstone Toastmasters Club and the Mason-Dixon Toastmasters Club. The three from the former are: Laurie Crawford, Miles Hardenburg and Douglass Pamplin. From the latter, Holland Gilmore.

Winner for the first of the series was Miss Helen Acuff, in second and third places respectively were Mrs. Milton Mason and Mrs. R. N. Flknt.

Nine tables of players competed. The Group, which will have another "Party Day" on Feb. 16, meets weekly at the Squirrel Hill Officers Club. Party Day begins at the usual starting hour, 10 a.m., and lasts until 2 p.m. with time out for lunch at the Club.

Reservations may be made with Mrs. J. H. Davitt or Mrs. R. R. Javins.

## Industrial Engineers To Meet February 13

The North Alabama Chapter of the American Institute of Industrial Engineers will hold a dinner meeting at the Holiday Inn Motel in Huntsville on Monday, Feb. 13. Activities will commence with a social hour at 6 p.m.

Robert Braswell, newly elected Chapter president, has announced that committee chairman appointments have been approved. Committee members are now being sought, he said. Future plans of the Chapter will be announced in March.

Following dinner at 7, the group will be given an inspection tour of the facilities of the "Huntsville Times" at 8 p.m.

Reservations for the dinner may be made by calling Captain Paul C. Chasteen at Redstone Arsenal extension 877-4932.

## VALENTINE DANCE

The Modernettes, young adult group, are planning a Valentine dance at the Huntsville Country Club Saturday, Feb. 11.

This is the beginning of a stepped up social and recreation program. Reservations may be made with Mary Mazza, Technical Library, Army Rocket and Guided Missile Agency.

## Gen. Westmoreland To Address Local Army Association

The Tennessee Valley Chapter of the Association of the U. S. Army put tickets on sale today for its Feb. 15, dinner meeting at the Huntsville Country Club.

Featured speaker at the dinner will be Maj. Gen. William C. Westmoreland, Superintendent of the U. S. Military Academy at West Point, N. Y.

Karl A. Woltersdorf, Sr., chairman of the Arrangements Committee said that the \$5 tickets may be obtained from him at the Huntsville Utilities Building. On the Arsenal, tickets may be obtained from Col. R. H. Kessler and Major B. P. Saletto in the Military Application and Training Office, AOMC.

Woltersdorf pointed out that limited seating space will hold ticket sales to approximately 230.

The dinner will be preceded by a reception at 7 p.m. in honor of Gen. Westmoreland. The dinner will begin at 8 p.m.

This is the third meeting of the AUSA chapter in recent months. Speakers at the previous meetings were Thomas Jones, president of the Northrup Corporation, and Donald Douglas, Jr., president of Douglas Aircraft.

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SIZES  
8 THRU 20



**CATHOLIC LEADERSHIP TEAM** — Members of the team conducting the Leadership and Family Life Catholic Institute last week are front row (left to right): Mr. and Mrs. George LaFleur and Rev. Jude Speyerer; (second row, left to right): Rev. Bede Becnel, Rev. Gene La Fleur, and Dr. N. C. La Fleur. The group is sponsored by the Chief of Army Chaplain's and works from the Louisiana Diocese. Approximately 170 attended the four-day conferences and workshops conducted at the Post Chapel.



**HIGH MASS** ends Catholic Institute on Leadership and Family Life at the Redstone Arsenal Post Chapel.

## Conference Ends on Catholic Leadership and Family Life

More than 170 people participated in the three-day Catholic Institute on Leadership and Family Life at the Redstone Arsenal Post Chapel this past week. A professional team appointed

by Chief of Chaplains Office, conducted the four day Cana conferences which included problems and goals of married life: Pre-Cana conferences covered areas of interest to those contemplating marriage.

Daytime workshops were conducted for women and high school students. Evening conferences on

## Two ABMA Officers Receive Promotions

Two officers in ABMA were promoted last week.

Maj. Oren W. Bryant, Project Director, General Support Systems, in Industrial Operations, was promoted to lieutenant colonel. He has been attending a

family life were conducted for both the married and the unmarried.

The conference ended with a high Mass at which couples renewed their original marriage vows.

Following the Mass the conferees were served dinner in the Chapel Social Rooms.

The Conference was arranged through the Catholic Chaplain's Office at the Arsenal, which is headed by Rt. Rev. Bernard M. Burns, and Rev. Ivan Arceneaux, S.T.L., of the Family Life Bureau, Diocese of Lafayette, La.

The husband-wife team who conducted the marriage counseling seminars, Mr. and Mrs. George LaBlanc, are also from the Lafayette Diocese. The third civilian was Dr. N. C. LaFleur. Three priests completed the team.

These teams work in all Army areas throughout the United States.

three-months Associate Command and General Staff Officer Course at Fort Leavenworth, Kan., since January 5.

1st Lt. Stephen J. Danis, a Project Officer in Field Support Operations, was promoted to captain.

Capt. Danis received a B. S. Degree from the Michigan College of Mining and Technology in June, 1953. He entered the Army in February, 1954, and served at Aberdeen Proving Ground, Camp Clay Banks, in Michigan, and at the Ordnance Supply Control Agency at Maison Fort, France, before coming to ABMA in May, 1959.

Col. Bryant, a graduate of the University of Cincinnati, with a degree in aeronautical engineering, first entered service in January, 1943. He has served in various assignments in the United States, twice in Germany, and in Japan and Canada. He was awarded the Bronze Star Medal for service at Tokyo Engineer Works Ordnance Shops from 1950 to 1953.

The first American test of moving a complete troop unit by air occurred in 1940, when 38 Air Corps bombers of the 7th Bombardment Group successfully transported a battalion 500 miles.



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14½ to 24½

38 to 44



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**ARGMA VALENTINE** — Pretty Miss Carol Richardson makes her Rocket Pinup debut as a 1961 Valentine. Carol, 19, a blue-eyed brunette is a 1960 graduate from Coffee High School in Florence; is now a clerk-steno in ARGMA. Her favorite sport is bowling. (Photo by Jimmie Taylor)

### SERVICE CLUB DIRECTOR URGES SHOWMEN TO ENTER ALL-ARMY 1961 ENTERTAINMENT CONTEST

By Molly Patterson

To be born in a trunk back stage is not a prerequisite for stardom—or to have a PHD in Physics doesn't mean you have to seal yourself in a test tube for the rest of your life.

I'll bet if the truth were known a lot of you fellows have dreamed of fame and stardom and being known as a world traveler.

Perhaps that dream isn't so farfetched as it might seem.

I realize that talent isn't as plentiful at Redstone as it is at some larger post—due to the scientific need at this particular installation, but I'm sure there are some that have talent—and that's our business to route them out and give them the break for which they have been waiting... A chance to participate in the 1961, All-Army Entertainment Contest—you can never tell—you may be a winner!

Peter Plamer, who portrayed "Lil Abner" in the movie by the same name—got his start while in the Army stationed at Brooks General at Ft. Sam Houston. He entered the All-Army Entertainment Contest, the rest is history. Many others to my knowledge got their break in "show biz" in

the same manner.

A lot of fellows would give their front seat in heaven for a chance to appear on the "Ed Sullivan Show" and tour the world—in exchange for the one thing they love most—a chance to entertain others and make them laugh a little.

Perhaps your goal and ambitions in life are not in the entertainment field—but on the other hand, if that is the direction in which you're heading—this is your big chance—don't "muff" it!!

Here's a quick run down on the different classes of competition:

Recorded Classes: 1. Dramatic group (2 or more persons) 2. Small chorus (12 to 20 singers) 3. Large chorus (more than 20 singers).

Live Classes: 1. Vocal Soloist 2. Instrumental soloist 3. Individual specialty (Examples: dancer, mimic, juggler, song and dance act, novelty instrumentalist). 4. Vocal group (maximum of 4 singers, duos, trios and quartets.) 5. Instrumental group (maximum of 5 players) 6. Specialty group (maximum of 3 performers) 7. Team production (maximum of 16 performers) The team production is made up of the winners from any or all of the other six classes mentioned above.

The running time of entries in the two-chorus classes of the recorded phase will be not less than 4 nor more than 6 minutes. The Dramatic Group class entries will run not less than 6 nor more than 10 minutes.

The running time (exclusive of laughter and applause) of each entry in the live phase at all contest levels will be not less than 2 nor more than 4 minutes except for the Team Production Number, which will be not less

## At the Service Club

The poets say that young men's thoughts turn to love a bit later in the year than this week. This may be true. The majority of men may wait until the trees begin to bud and the birds get back from their winter vacations, but there is one proven fact that you men should take notice of—namely that young women's thoughts turn to love around the 14th of February.

At this time of year, we members of the weaker sex think of sentimental letters and lacy valentines, hearts and flowers, and sweethearts near and far away. So if your girl's far away, now's the time to get off a long letter to her, and if she's nearby, what better way to celebrate the season than by bringing her to the Sweetheart Ball at the Service Club on the 14th?

Before the 14th, however, there's a week full of programs to be enjoyed. On Wednesday night, the 8th, the Foxtrot Classes will continue their instructions under Ray Pisani at 1930 hours, followed by the Rhumba Classes at 2030 hours.

On the 9th, Thursday night, the Shutter Club will meet at

than 4 nor more than 6 minutes.

A penalty of one point per second will be assessed for entries performing under or over the prescribed time limitations in both recorded and live classes.

Tentative dates have been scheduled for the All-Army Entertainment Contest at Redstone Arsenal, March 10 for the "Recorded" classes and March 30 for the "live" phase.

The first, second, and third place winners will receive appropriate prizes and the first place winners will compete at Ft. Benning, Ga., host installation for the Third Army All-Army Entertainment Contest scheduled for April 12.

The winners of Third Army will go to the Grand Finals for May 1961. If any of you men are interested in entering the All-Army Entertainment Contest contact SP-4 James Stark of the Entertainment Section at ext. 876-4050—2501.

You may also contact the Service Club Staff at ext. 876-4531 or come to see us in person. We will be happy to assist with auditions and rehearsals.

Rehearsals have already begun at the Service Club so hurry! hurry! men, toss your hats in the ring and let's get the "show on the road." See ya' at the Club.

—Molly

1800 hours. Then, a bit later at 2000 hours, we will swing into Small Games Night, featuring any sort of game you might like to try—card games, monopoly, chess, Sorry, Clue, and many others.

An unusual program will take place on the 10th; we will have a special showing of the "Nurnberg Trials" at 1900 hours. This is a piece of history in the making that everyone should see.

Saturday, the 11th, there will be another tour to the Birmingham Museum of Art. The first such tour last month was met with such enthusiasm that quite a few were left because of lack of space. So if you were one of those who couldn't go, be sure and be one of the first to sign the list this time. The tour will leave the Service Club at 1300 hours on Saturday the 11th.

Coffee and donuts will be served from the kitchen at 0930 hours on Sunday morning, the 12th. A Shuffleboard Contest will get underway at 1330 hours. Jim Stark, the winner of the last contest, will be on hand to defend his title. Sunday night we will have our usual Record Dance under the theme of Dance Craze at 1900 hours.

February 13th, Monday night, Valentine Evening of Games will begin at 2015 hours.

The Bridge Club will meet a little earlier than usual Tuesday night the 14th, starting at 1900 hours instead of 1930 hours. The Semi-Formal Sweetheart Ball will begin at 2000 hours with the smooth music of Larry Lloyd's Orchestra. There will be a floor show for your entertainment later in the evening. So this is one dance you won't want to miss.

**HISTORY:** As most of you know, our Winter Wonderland dance was cancelled because the weather made it impossible for the Birmingham girls and several members of the band to get here. To our great surprise, some of the Birmingham girls did get through, and we had a small, but very lively, record dance.

Speaking of Record Dances, there was a record dance to top

them all here the 29th of January. People were pouring in the door so fast that it looked like a fire alarm in reverse.

Despite a bit of trouble with the record player, there was a lot of dancing done that night. You who were here, though, will be glad to hear that we have several tapes filled with good music now.

**FUTURE:** There are many things stacked into the schedule for the rest of February, just waiting to be enjoyed. Among these are a Bridge Contest on the 18th, a Buffet Supper on the 19th, a Post-Wide Pool Tournament on the 23rd and 24th, and on the 25th, Cabaret Night. Circle the 25th on your calendar right now, and plan to drop by the club that night in Western Costume. You'll be glad you did.

That's about all I have space for this week, but bear in mind that whenever you do come by the club there'll be something interesting going on. —Margaret



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**GOLD AND SILVER**—In a special promotion ceremony last week Maj. Lloyd V. Ott (left) and Lt. Col. A. J. Woodward were presented with the insignia of their new rank by Brig. Gen. John G. Zierdt, Commanding General of the Army Rocket and Guided Missile Agency.

**TWO ARGMA OFFICERS PROMOTED IN DUAL PROMOTION CEREMONY**

In a special dual-promotion ceremony held this week in the office of Brig. Gen. John G. Zierdt, two officers assigned to the Army Rocket and Guided Missile Agency were promoted.

A. J. Woodward, chief of the Military Assistance Program Office, Field Service Operations, was promoted to lieutenant colonel; and Lloyd V. Ott, chief of the Nike Engineering Branch, Field Service Operations, was promoted to major.

Both Mrs. Woodward and Mrs. Ott were present for the ceremony.

Col. Woodward first entered the Army in 1941 and took basic training at Camp Hulan, Texas. He served in the European Theater of Operation during WW II. In addition, Col. Woodward has had tours of duty in Turkey, France and Germany. Before reporting to the Army Ordnance Missile Command in July 1959,

Col. Woodward was Commanding Officer of the U.S. Army Ordnance Depot in Fischbach, Germany.

Maj. Ott, who first entered the Army in 1944, holds the Combat Infantryman's Badge and Bronze Star with Oak Leaf Cluster from action during the Korean War.

Maj. Ott's previous assignment before reporting to AOMC in July 1959, was a four year tour as Assistant Ordnance Officer for Headquarters Area Command, USAREUR.

**RETIRED EMPLOYEES TO MEET**

A meeting of retired federal employes is scheduled at the American Legion Building in Florence at 2 p.m. Feb. 7 for the purpose of discussing retired federal employes health benefits program.

The national association arranged the meeting. All retired federal employes and survivor annuitants are invited to attend.

**Mrs. Pringle Goes To Martin, Orlando**

Mrs. Margaret "Peg" Pringle, of 3806 Force Dr., an employee of the Army Ballistic Missile Agency for nearly five years, is transferring to the ABMA liaison office at the Martin Company in Orlando, Fla.

She has been working with Civil Service nearly 15 years. Her husband worked with the Industrial Division of ABMA until his death three years ago.

Mrs. Pringle began government work on Okinawa at the end of World War II.

She joined ABMA shortly after that organization was formed and has been working as an administrative assistant.

She will be replaced here by Mrs. Pauline Watson, also a veteran employee, who has been working in ABMA Research and Development.

**Births at Post Hospital**

Pamela Arlene Mayo, 6 lbs., 6 ozs., Jan. 28, daughter of CWO 4 and Mrs. Perry F. Mayo of 3801 Gesman Place.

David Alan Jagers, 5 lbs., 14 3/4 ozs., Jan. 30, son of Sgt. and Mrs. George D. Jagers.

Edmond Joseph Welsh, 7 lbs., 10 3/4 ozs., Jan. 30, son of CWO and Mrs. Raymond E. Welsh.

Christopher Greene Gattis, 7 lbs., 3 1/2 ozs., Jan. 31, son of 2d Lt. and Mrs. Jerry C. Gattis.

George Thornton Martin II, 8 lbs., 11 1/2 ozs., Jan. 31, son of SP5 and Mrs. George T. Martin.

Geoffery Downing Klein, 6 lbs., 12 1/2 ozs., Jan. 31, son of Lt. Col. and Mrs. James A. Klein.

**Movie Schedule**

Wednesday, Feb. 8, "Solomon and Sheba", (M) starring Yul Brynner and Gina Lollobrigida. Time 1800 and 2030 hours.

Thursday - Friday, Feb. 9-10, "Gorgo" (F) starring Bill Travers and William Sylvester. Time 1800 and 2030 hours.

Saturday, Sunday, Monday, Tuesday, Wednesday, Feb. 11-15, "Ben Hur" (F) starring Charlton



**LINCOLN'S COMMANDERS** pictured in this composite photograph behind the Civil War Commander-in-Chief, are, left to right: Admiral Farragut, and Generals Sherman, Thomas, Meade, Grant, Hooker, Sheridan, and Hancock. February 12th will see the 152d anniversary of the birth of Lincoln whose foresight and tenacity kept the U.S. together in spite of a bloody civil war.

Heston and Stephen Boyd. SPECIAL MATINEE: Saturday and Sunday 1300 hours. Because of the time length, one performance will be shown each evening at 1830 hours. INCREASED ADMISSION: Adults \$1.00, Children \$.50.

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# SPORTS

## Some Scores Close—

### 'Little Dixie Classic' Shows Possible Upsets As Preliminary Play Ends

In the first round of competition in the "Little Dixie Classic" Basketball Tournament all twelve teams have played one game. Many surprises have been brought to light, as might be expected, from teams that have been improving as the regular season reached its climax in January.

Det A, ARGMA defeated Hq OGMS in a close 35-34 basketball game; they barely lost to the regular season Champion USAG No. 1 team 48-45. But generally, the pre-tournament favorites won easily by substantial margins in their first contests.

As the competition gradually narrows and the close of the "Dixie Classic" nears, the point margins also will be close.

The surprises and thrills have just begun, so everyone be on hand to encourage their favorite teams.

Scores of other games:

- 1s. ETC—23 Hq. USAG No. 2—12.
- ABMA—68 Co. 'A' No. 2—54.
- Co. 'A' No. 1—52 Co. 'A' No. 2—66.
- Co. 'B' No. 1—33 Officers —26.
- ABMA—57 Co. 'A' No. 1—62.
- Co. 'B' No. 2—36 291st MP Co —39.

"CLASSIC" SCORERS		
NAME	TEAM	AVER.
Gadse	291st MP Co	19
Huffstetler	ABMA	18.5
Merritt	A B M A	16.5
Adams	Co. 'A' 1	16.5
Nichols	U S A G 1	16
Johnson	Co. 'B' 2	15
Raudenshy	Co 'A' 2	14.5
Simon	Co. 'A' 2	14
Hunsicker	Co. 'A' 1	13.5
Rutherford	USAG 1	12
Dunn	C o. 'A' 2	12

### Capt. Bice Tells Missilemen Ordn'ce Needs Are Basically Same as Originals

A project officer for one of the Army's newest missiles reminded students here that despite complex changes, the basic mission of the Ordnance Corps remains the same.

In a graduation address Friday before enlisted men in Nike, Corporal and Ballistic Missile courses at the Army Ordnance Guided Missile School, Capt. William S. Bice said that the Corps' motto, "Service to the line . . . on the line," describes its basic function as accurately today as it did in 1778 when Congress created the Board of War and Ordnance. He is the project officer for the Pershing Missile with the Army Ballistic Missile Agency.

"The Corps is a technical service which has the primary mission of supporting the combat elements—Infantry, Armor and Artillery, with the material to wage war," he said.

He emphasized that the success of this mission rests entirely with the performance of the man in the field. He urged graduates to perfect the quality of the Corps' combat support by utilizing the knowledge they have been given at OGMS.

Among the 22 students who received diplomas were three honor graduates who received special certificates for academic excellence in their respective courses: M/Sgt. Carl L. West, Corporal Ground Guidance Repair Course;

### Army Improves Trainfire System

WASHINGTON (ANS) — The Army's "trainfire" system, which has reduced combat infantry rifle training time by 50 percent, has been improved at a substantial saving in cost of equipment.

Introduced two years ago, the "trainfire" system employs mechanically operated profile targets which appear unexpectedly and disappear when the rifleman scores a hit.

Rock Island Arsenal, an element of the Army Ordnance Weapons Command, conducted engineering studies during initial production of the mechanical system that have resulted in a new model known as the M31A-1.

Metal parts which were formerly welded can now be stamped. Electric power supply units have been installed in weather-proof containers, thus increasing reliability and reducing maintenance.

The Underwood Corp. produces the mechanical system. Unit cost of the new model is sharply reduced below the cost of the initial system. Underwood will produce 10,000 of the target holding mechanisms for \$816,240.

Additional savings were realized by developing impregnated targets. Rock Island Arsenal found this material was entirely satisfactory. It replaces fiberglass targets at an annual saving of \$873,869.

### GOLF CLUB TO MEET

The Golf Group of the Redstone Arsenal Officers Wives Club will have brunch at the Squirrel Hill Officers Club at 10 a.m. on Feb. 15.

Members or new comers who are not contacted should make reservations with Mrs. W. J. Fries, ext. 877-4948.

Here's the traffic tip for the day: The best possible way to prevent your car from skidding is to drive in such a manner that skids won't happen. Slow down on ice and snow . . . Don't skid yourself.

Sfc. James R. Hubbard Jr., Nike Track Radar Repair Course; and Sgt. Obie S. Mueting, Ballistic Missile Guidance and Control Repair Course.

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JUDO CHAMPS—PFC Jim Kawaye (left), 3rd ETC, is shown holding the trophies he won at the Birmingham YMCA, Jan. 14. Kawaye won first place in the 160-180 lb. class and the tournament's over-all Championship. SP4 Don Malandra (right), Hq. Co. UTC, holds the third place trophy for 160-180 lb. class.

### Kawaye, OGMS Wins Judo Tournament

In a judo tournament held Jan. 14 at the Birmingham YMCA Jim Kawaye, 3rd ETC, OGMS, won first place in the 160-180 pound class.

Kawaye, also won the over-all tournament championship by defeating the first place winners in the 140 lb., 160 lb., 180 lb., and unlimited weight class divisions.

He defeated Blackbelt holder Harold Tinney of the Birmingham YMCA club and 240 pound Blackbelt holder Jack Morton among his matches for championship.

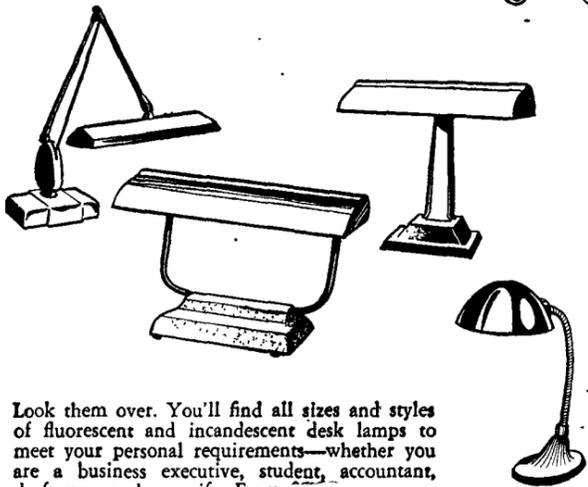
Don Malandra, another mem-

ber of the RSA Judo Team, won third place in the 160-180 lb. class. Malandra is assigned to Hq. Co. UTC.

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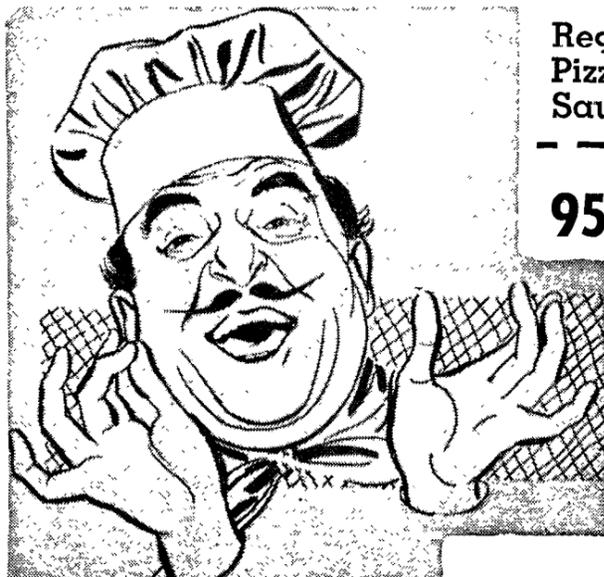
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**REPRESENT TOP MARKSMEN**—Pistol trophies and carbine trophies were awarded recently by Col. Owen T. McCloskey, Arsenal Commander, to representatives of Det. A, 291st Military Police, and Headquarters and Headquarters Detachment, Arsenal Garrison. Det A won first place with the carbine and received the trophy permanently. The team placed second with pistols, the basic weapon of the MPs who received the trophy for first place. Headquarters took second place honors with the carbine. Commanders are standing behind the detachment representatives who received the trophies (left to right): Capt. Richard C. O'Brien and M-Sgt. Ronald C. Bachman, Headquarters; Col. Owen T. McCloskey, Arsenal Commander and Maj. George L. Grace, Troop Commander; Capt. Paul F. Woodall and SP-7 Ernest McClure, Det A; Capt. Donald C. Becker and SFC. Raymond Cardovan, 291st MPs.

## Post Library

BY ANNA L. FARRAR, Librarian

Predictions about the possibilities of space travel maintain a lively interest at the Post Library in books on exploration of the moon and interplanetary travel. Lomax, Louie, "The Reluctant African." Miller, Llewellyn, "The Joy of Christmas." Monsarrat, Nicholas, "The Nylon Pirates." Macdonald, Zilah K., "Nurse Todd's Strange Summer." Oliver, Stefan, "I Swear and Vow." Overbey, Charles A., "Aircraft and Missile design and maintenance Handbook." Parry, Albert, "Russia's Rockets

and Missiles." Rees, Ed., "The Manned Missile; the Story of the B-70." Roe, Ivan, "Shelley, The Last Phase." Rogers, Roy, "My Favorite Christmas Story." Samuel, Maurice, "The Second Crucifixion." Schwendemann, Max A., "Yoga for Perfect Health." Sharp, Margery, "Melisande." Sinclair, Andrew, "The Project." Smith, Ralph L., "The Health Hucksters." Sneider, Vern J., "The King From Ashtabula." Storey, David, "This Sporting Life." Stout, Ruth, "It's A Woman's World." Stuart, Jesse, "God's Oddling."

Taylor, Wincombe, "Ram." Tracy, Honor L. W., "A Number of Things, a novel." Trigger, Raymond, "How to Run a Successful Investment Club." Turnbull, Agnes, "The Nightingale." Vandiver, Frank E., "Jubal's Raid." Waldo, Myra, "The Complete Book of Goumet Cooking for The American Kitchen." Wheeler, Keith, "Peaceable Lane." Wiener, Solomon, "Questions and answers on American Citizenship." Wilson, Sloan, "A Sense of Values." Winston, Carl, "How to Run a Million into a Shoestring."

## W. G. STEVENS JOINS ABMA TRAINING STAFF

A retired Army major, Winfred G. Stevens, has joined the Training Office staff of the Army Ballistic Missile Agency. The native Texan recently completed 20 years military service. He received a battlefield commission during World War II and later served in Korea. He retired last year at Fort Hamilton, N. Y. During the war, he was awarded the Bronze Star, Purple Heart, and Army Commendation Med-

al. Mr. and Mrs. Stevens and their two children, Douglas, 17, and Kathryn, 7, live at 3126 Las Animas Ave., Huntsville.

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700		34.30	64.92
1000	\$40.05	48.76	92.30
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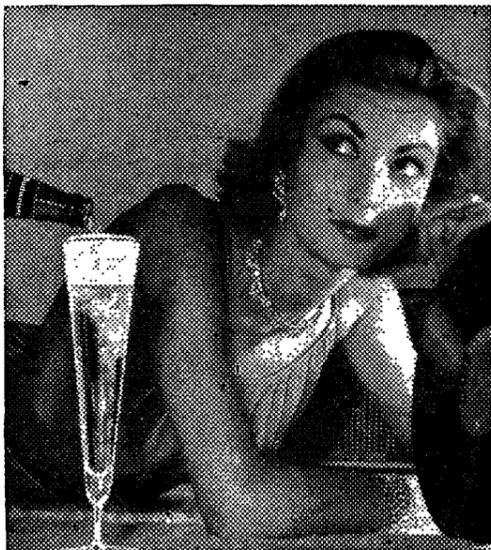
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## More Sergeant Engineering Given Sperry

The award of a \$2,400,000 contract to the Sperry Utah Engineering Laboratories (SUEL) in Salt Lake City, Utah, was announced last week.

The contract calls for production engineering services for the Army's Sergeant ballistic missile system. SUEL is prime contractor for the Sergeant system.

Work authorized by the contract will be performed at SUEL.

Sergeant is a solid-propellant missile that will replace the operational, liquid-propellant Corporal. Both systems are under the technical supervision of the Army Ballistic Missile Agency.

The Los Angeles Ordnance District administers the contract.

## Four Receive College Degrees at Omaha

One hundred-ninety-seven military men and women were graduated from the University of Omaha (Neb.) on Jan. 28 in the University's first formal mid-year commencement in its 52-year history.

Among the 197 were Lt. Col. John H. Morrison, Jr., Lt. Col. Zacarias F. Rael, Capt. Cecil A. Sumpter, Jr., and Capt. H. T.

## How's Your Know-How?

(AFPS Weekly Feature)

1. The year 1961 looks the same right side up or upside down. When can this happen again?

2. How many years after the Declaration of Independence was the Constitution ratified?

3. What is the earth's mean diameter?

4. What common food which we use every day contains two of the deadliest poisons?

5. When was the earth first divided into the climatic zones now in use?

**Answers to Quiz**

1. Not until the year 6009.

2. Twelve years later.

3. 7,920 miles.

4. Table salt; it contains sodium and chlorine.

5. In 640 B. C., by Thales of Miletus.

## SPORTS QUIZ

(AFPS Weekly Feature)

1. What AL player compiled the best fielding average for shortstops last season?

2. What AL catcher made the fewest errors during 1960?

3. Name the only horse ever to beat Man O' War in 21 years of racing.

Earl Tollett, Jr., from Redstone Arsenal. The "Bootstrappers" are part of a class of 301 students receiving bachelor degrees and twenty others receiving master's degrees.

The Bootstrappers are career military personnel who receive six month duty leave to complete the last 24 hour credit hours of their college education on the Omaha U. Campus.

### Panic Buttons...



### Charley Noble



### OPERATION BLONDE



4. What was Joe Louis' won-and-lost record as a pro boxer, 5. Who was the first woman to swim the English Channel both ways.

(Answers to Quiz)  
1. Luis Aparcia of the Chicago White Sox with a .979 percentage.

2. Chicago's Sherman Lollar made only three errors while handling 612 total chances.

3. Upset, in the Stantord Stakes at Saratoga in 1919.

4. 68 victories and three defeats.

5. Florence Chadwick, 1950 and '51.

### RECEIVES COMMISSION

Thomas W. Oliver, son of Mrs. Lucy C. Oliver, 1101 East 8th St., Winfield, Kansas, recently received his Warrant Officer bars at the U. S. Army Ordnance Guided Missile School.

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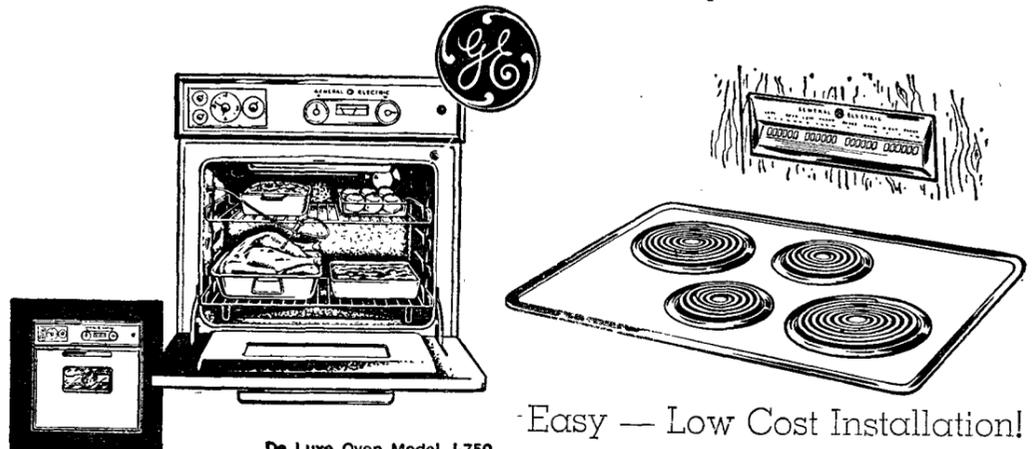
New Custom Styled Dishwasher With "Flushaway Drain" Does All the Dishwashing Job ... Power Washes, Rinses and Dries Dishes Sparkling Clean ... Sanitized Automatically!

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'RETIRED' TARGET PRESENTED—J. D. Ducote, (left) chief of Target Missiles Branch of ARGMA R&D Operations and Robert Abbot, Lockheed Corporation representative shown in front of the 40-foot long Q-5. The retired missile was given to the Redstone Arsenal missile exhibit unit.



NIKE ZEUS ENTHUSIASTS—Maj. Gen. August Schomburg (center), Commanding General of the Army Ordnance Missile Command, receives a model of the Army's anti-missile missile, presently in advanced stage of development, from Donald W. Douglas, Jr. (right), president of Douglas Aircraft Company, major subcontractor for the Nike Zeus missile. Maj. Gen. John A. Barclay (left), Deputy Commanding General, looks on as the missile model was presented recently at Army Ordnance Missile Command Headquarters.

## Army Magazine Tells Need For Nike Zeus Missiles

The Nike Zeus—America's only answer to the ICBM threat—is the subject of a penetrating analysis by an outstanding array of missile experts in the February issue of ARMY Magazine.

Its need and concept, pro and con, are discussed in this special Nike Zeus issue by some of the Army's leading missilemen, including Lt. Gen. Robert J. Wood, CG, Army Air Defense Command; Maj. Gen. August Schomburg, CG, Army Ordnance Missile Command; Richard S. Morse, Director of Army Research and Development, and Brig. Gen. John G. Zierdt, who was the project officer for the Zeus, and is now CG, Army Rocket and Guided Missile Agency.

The Zeus is a three-stage rocket designed to mount its defense

against attacking ICBMs in a matter of seconds, and the whole operation, says Maj. Gen. Schomburg, will be as precise as a "Swiss watch and as automatic as a housewife's washing machine." The Zeus system uses the command guidance principle, which places the costly and complicated control equipment on the ground. The earth-bound Zeus defense center will control the intercept, guiding the defending Zeus with control orders: "turn left, turn right—detonate."

Right now, the Zeus is still in the research and development stage, with further testing to be carried out at four major test sites: White Sands; Point Mugu, Calif.; Ascension Island in the Atlantic; and Kwajalein Island in the Pacific, where a complete Zeus complex is being installed for further system tests against actual ICBMs. Here Zeus missiles will be forced to intercept Atlas ICBMs shot from Vandenberg Air Force Base in California.

To expedite a defense against missile attack, \$410 million is being spent in 37 states on the Zeus

## Civil Service Board Issues Three New Announcements

The U. S. Board of Civil Service Examiners has issued three new announcements and two amendments to close competition for earlier announcements.

Announcement 5-35-1 (61) calls for model maker, metal at W-13 (\$3.09 per hour).

Announcement 5-35-2 (61) is for

program. To show the amount of money being spent and the number of persons employed in its research and development, ARMY presents a special map, pointing out the plant sites and kind of work being performed by the major contractors and subcontractors.

But a limited early production of the Nike Zeus anti-missile missile is needed now. Richard S. Morse, Director of Army Research and Development, says that an early decision to produce and deploy, even on a limited scale, would have a significant impact on enemy planning and would seriously complicate his estimates of our defensive and retaliatory capabilities.

The Association of the U. S. Army continues to urge that early production of the Zeus be placed on a high national priority.

Experimental Missile Tester at W-8 (\$2.33 p. h.); W-10 (\$2.63 p. h.) and W-12 (\$2.94 p. h.)

Announcement 5-35-3 (61) is for male sales store cashier-checker at a GS-3 rating (\$3760 per annum). The new register established by this competition will be combined with the register established under Announcement No. 5-35-17 (57) so that persons who attained eligibility under that announcement need not reapply for examination but will be automatically listed in the new register.

The two amendments will close

Traveler: "What's the use of having a timetable if your trains don't run on it?"

Porter: "Now, you're all excited. How could you tell the trains were running late if you didn't have a timetable?"

competition Feb. 9 on the following:

Announcement No. 5-35-34 (53) for meatcutter helper and meat cutter foreman;

Announcement No. 5-35-7 (53) for still and motion picture photographer.

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**BADGE NO. 80 RETIRES AT OGMS**—Willie Brooks (left), a veteran of 16 years employment at Redstone Arsenal, accepts congratulations and a retirement certificate from Col. Charles W. Eifler, commandant at the Army Ordnance Guided Missile School. Brooks' retirement on Jan. 31 marked the first mandatory retirement for age and service at the Missile School. He celebrated his 70th birthday on Jan. 15, with more than 17 years of active Civil Service employment. Brooks began service at Redstone in January of 1945 as an explosives operator, and later as an ammunition renovator. After several jobs with Redstone Arsenal, he came to OGMS in March of 1956 and was assigned as tool, stock and parts keeper at the Hawk Branch. Prior to his employment at RSA he was a farmer at Athens, Alabama, and worked briefly on Tennessee Valley Authority projects. He has two daughters, Mrs. Douglas Deal and Miss Judy Brooks who is presently employed at Field Support Operations, Army Ballistic Missile Agency. He resides with his wife, Duetta, at 206 Jordan Lane, Huntsville, Ala.

### Maj. Brunson Is Named To Head ABMA Office At Sperry Utah Plant

SALT LAKE CITY, UTAH — Maj. Richard W. Brunson, U. S. Army Ordnance Corps, will replace Lt. Col. Paul J. Daigle, as Senior Representative of the Army Ballistic Missile Agency for the Sergeant program at Sperry Utah Engineering Laboratory, it was announced today by the Sperry ABMA office.

Maj. Brunson will assume command of the ABMA office Feb. 1. The ABMA office, with a staff of 10 people, is responsible for coordinating effort between Sperry Utah, prime contractor for the Sergeant missile system and the Army Ballistic Missile Agency, Redstone Arsenal, Alabama, responsible for technical supervision of the Sergeant program.

In addition to the appointment of Maj. Brunson, the ABMA office announced two other new appointments. Walter Clements will join the Sperry ABMA office as Sergeant research and development representative. Clements comes to Salt Lake from Detroit, where he was associated with the Jupiter program. Also coming to Sperry Utah is CWO John Draper, who was transferred from Redstone Arsenal. Mr.

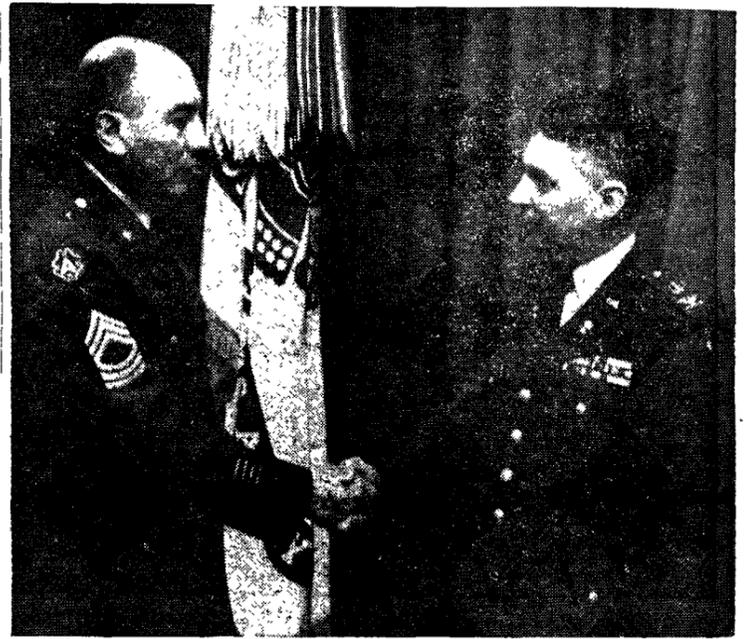


**MAJ. R. W. BRUNSON**

Draper will serve as Mr. Clements' assistant.

Col. Daigle is retiring from the Army after 20 years of active service. He has been Senior ABMA representative at Sperry for the past year and a half. In a recent ceremony at the Utah plant, Col. Daigle was awarded the Army Commendation Medal for meritorious military service. He and his family will make their home in Northern California.

Maj. Brunson comes to Sperry from Babson Institute at Wellesley, Mass., where he spent the last 18 months gaining his Masters degree in Business Administration. Prior to this, he spent three years in Germany serving part of the time as Commanding



**RECEIVES PROMOTION**—M/Sgt. James D. Mancini, administrative supervisor, Office of Operations, OGMS, receives congratulations from Col. Charles W. Eifler, Commandant, on his recent promotion to pay grade E-8. M/Sgt. Mancini entered the Army in March 1941 and received his basic training at Camp Forrest, Tenn. Prior to his assignment at the Missile School he was a ROTC Military Instructor, Harper High School, Chicago, Illinois. A native of Chicago, M/Sgt. Mancini resides, with his wife, Lillian, at 501 Forrest Circle, NE, Huntsville, Ala.

Officer of an Ordnance direct support detachment for a Corporal in the Infantry. He later transferred to the Ordnance Corps.

A native of Leavenworth, Kan., Maj. Brunson graduated from the U. S. Military Academy at West Point in 1946 with a commission

He and his wife, Rangeley, and their three children, Dick 10, Penny 7, and Elizabeth, 2, reside at 2307 Wyoming Street in Salt Lake City.

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A storekeeper in a small town was standing in front of his shop one afternoon when he saw a car rolling slowly down the street. He noticed with horror that there was nobody in the driver's seat. He ran to the car, jumped in and pulled back the emergency brake. As he stepped out, feeling a little proud, a man walked up to him. "Well," said the storekeeper, "I stopped it." "Yeah. I know," said the man. "I was pushing it."

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### Engineers Complete Inspection Tour In Pacific Area

The Deputy Chief of U. S. Army Engineers and the Division Engineer of the Army Engineer Pacific Ocean Division recently completed an inspection tour of the Nike Zeus anti-missile missile system test facilities on the Island of Kwajalein, 4,500 miles from California.

The visitors were Maj. Gen. Keith R. Barney, Deputy Chief of Engineers, and Maj. Gen. G. E. Galloway, Division Engineer in Honolulu.

An island of the Marshall Archipelago, Kwajalein, is the site of construction of a complete Nike Zeus complex. It is being prepared to test the Nike Zeus against Atlas intercontinental ballistic missiles to be fired from Vandenberg Air Force Base, Calif.

The 602-acre island also houses launch cells for a battery of Nike Zeus missiles, and all related equipment for searching out and destroying intercontinental ballistic missiles traveling speeds varying from 15,000 to 20,000 miles an hour.

### ABMA--ARGMA Engineers Attend Symposium

Twenty-five employees of ABMA and ARGMA attended a symposium on Applications of Tantalum Capacitors and Silicon Rectifiers conducted here Jan. 24 by the Fansteel Metallurgical Corporation of Chicago.

The symposium was held to furnish additional information to research and development engineers on the characteristic applications of tantalum capacitors and silicon rectifiers. Those attending represented the Quality Assurance, Systems Analysis, and Guidance and Control segments of ABMA and ARGMA.

Walter Bullock, Fansteel factory representative, delivered the formal portion of the training program. He was assisted by James G. Egan and the company's local representative, Sharkey Estrin.

### PEDIATRIC'S SEMINAR

Captain Joel K. Eakins, MC, Pediatrician, U. S. Army Hospital, will hold his next Pediatric Seminar on Feb. 23 from 7:30 p. m. to 8:30 p. m. in the Pest Chapel.

Topic for discussion will be "Gastrointestinal Disturbances." Everyone is invited to attend.

### ROCKET SOCIETY CADETS TO VISIT

A visit to Redstone Arsenal by 30 members of the Rocket Society of the U. S. Military Academy is planned for February 9-12th, the U. S. Army Ordnance Missile Command announced today.

Consisting of 28 cadets and two officers, the group will arrive at Redstone Airstrip Thursday evening. The group will visit AOMC Headquarters, the Army Ballistic Missile Agency, and the Army Rocket and Guided Missile Agency. They also plan to visit the Army's missile exhibit unit.

The group will also visit the George C. Marshall Space Flight Center of the National Aeronautics and Space Administration.

Maj. Howard Sargent is the leader of the West Point Group. Lt. Col. Allen K. Dallas is the AOMC project officer for the visit.

"That's a pretty dress you have on."  
 "Yes, I wear it to teas."  
 "Whom?"



**INVENTORS GET PATENT**—Showing their new patented invention for measuring the threads of screws in missiles to Col. Charles W. Eifler, commandant of the Army Ordnance Guided Missile School, are Stanley Farrow (left), and Linwood I. Varney. A wire attachment to a standard micrometer caliper enables missile maintenance men to make a fast one-handed gauge of the size of screw threads and determine whether the piece should be replaced to prevent malfunctions.

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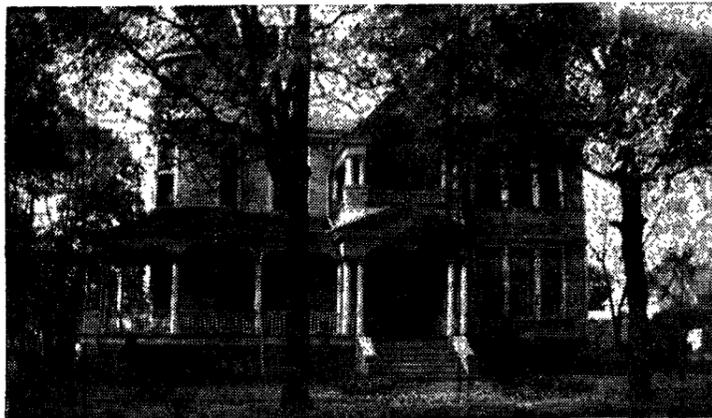
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12 Room Colonial Home

The interior of the home has maple flooring on the first floor and heart pine flooring on the second floor. The mantel and woodwork in the living room are of birdseye maple; trim in other rooms on first floor is oak or mahogany. There are nine fireplaces in house. There is natural gas heat, with individual heaters in each room as well as a gas furnace which can be used. There are handsome light fixtures throughout the house. The interior is in perfect repair. On the front is a circular porch facing both Franklin and



Williams streets. There is a nice basement. The house has six rooms downstairs, six rooms upstairs, four baths, and a beautiful winding staircase of solid oak. This home has been renting for \$390 per month.

### Duplex Apartment

2 year old brick duplex apartment building. Each apartment consists of 4 rooms and bath. Currently renting for \$200 monthly. In excellent repair.

### Real Estate

Real estate consisting of 105' frontage on Franklin Street, 150' on Williams Street to be sold in three parts and then as a whole. Real estate to be sold at 3 p.m.

LOT NO. 1 70' on Franklin St., 115' on Williams St. This lot has beautiful 12 room colonial home.

LOT NO. 2. Vacant lot, fronting 35' on Franklin St., 115' deep. This is truly one of Huntsville's finest zone D lots.

LOT NO. 3. 35' on Williams St., 105' deep. Has nice brick duplex apartment building.

It is no gamble to own zone D property like this. As you know, Huntsville, Ala., better known as "The Rocket City, U.S.A.," is growing by 'leaps and bounds'. This is the most desirable zone D property left in Huntsville. It is suitable for apartments, motels, offices, clinics, etc.

### Antiques

All the antiques in the house are in perfect condition. Some pieces were brought from Virginia to Tennessee in ox carts, and were handed down in Mr. Miller's family. The reason for selling these antiques is that since moving into their new home, Mr. and Mrs. Miller do not have room for them.

- Antique lamps
- Antique gold leaf picture frames
- Gentleman's chair
- Cornucopia sofa
- 2 Antique state chairs, 1 mirror back
- 5 Antique chests of drawers
- 5 Antique dressers—marble top
- 2 Pedestal Mahogany table
- 1 Duncan Phyffe sofa, newly upholstered

- 1 Duncan Phyffe dining table
- 1 Hepplewhite banquet table, 3 sections, 126 inches when extended
- 1 Hand carved mahogany sofa and chair, newly upholstered
- 2 Windsor rocking chairs
- 1 Spool bed, mahogany
- 1 Maple four-poster cord bed
- 1 Walnut Jackson Press
- 1 Solid Mahogany bedroom suite, marble top dresser.

- 2 Seth Thomas clocks
- All kinds of cut glass and pressed glass
- Haviland china
- Tea pots—antique vases
- Antique oil paintings
- Two book cases
- 2 China Presses
- Other articles too numerous to mention
- All 12 rooms of furniture will sell

**MODERN FURNITURE AND APPLIANCES** — Piano, mirrors, tables, appliances (new and used), chairs, record players, (3) 21" TV's, radios, power mowers (one riding type), wool rugs of various sizes and many other articles too numerous to mention.

Mr. and Mrs. Miller decided to sell this real estate and all personal property and antiques since moving into their new home. This sale is not an appraisal sale, but an auction.

POSSESSION with deed. Terms, 25% cash, balance in 5 years bankable note at 6% interest. All bidders are required to pay down payment on day of sale. For further information call JE 6-9173 or Bob Keller, Pulaski, Tenn., 363-4609.

NOTHING WILL BE SOLD UNTIL SALE DAY!

# COL. BOB KELLER, AUCTIONEER.

LICENSED—BONDED TENNESSEE & ALABAMA  
 "LET KELLER SELLER"

# NEW LOANS UP TO \$300

Everybody needs money sometime. When you do, phone **Jefferson 6-8591** before noon for your money the same day!

## MUTUAL FINANCE

and **THRIFT CORPORATION of Huntsville**  
 106 South Side Square  
 Phone: Jefferson 6-8591  
 Other MUTUAL Offices IN FLORENCE  
 113 East Tennessee Street  
 Phone: ATwater 2-9271  
 IN DECATUR  
 121 East Moulton Street  
 Phone: ELgin 3-4413

# Use Wantads

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. Mail copy with payment to Mrs. Zillah Newsome, P. O. Box 346, Huntsville. Deadline is Monday, 9 a. m. for the week's edition.

## FURNITURE MANUFACTURED! FURNITURE UPHOLSTERED!

We manufacture den or liv. room furniture to order. Love seats with Polly-foam cushions, arms and back if desired, also trailer couches. Select the arm styles you prefer. Come in and see some of our quality frames made. All types furniture upholstered, free estimates. Auto seats covered, tailored only. We guarantee to save you money. Check with us on our great selection of materials and colors. Open 6 days a week, 7 a.m. to 8 p.m., 2506 Oakwood Ave., N.W., Rocket City Upholstery Co., Phone JE 4-9696. Open from 7 'til 7. tfc

## FURNITURE & APPLIANCE BARGAINS

Drive out and see our display of quality home furnishings at wholesale prices. Our low overhead permits us to give you extra discount savings. Easy budget terms available. Furniture Outlet Store, Meridianville, Ala., phone JE 6-6857. Go Out-a-Way—Less-to-Pay. tfc

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

ROOMS FOR RENT—Single and double for men with good habits, completely and newly decorated, economically priced. Central Y.M.C.A. Dial JE 4-6452. tfc

"This is an open invitation to the people of Redstone Arsenal to visit us in Athens; I resigned my job at the Arsenal six years ago to go into the furniture business, and since that time I have seldom had an opportunity to see my friends from Redstone. Our store, Gilbert Furniture Company, is located on North Jefferson Street in Athens, Alabama, one block north of the Court House. Athens is a pleasant 25 mile drive from Huntsville, so come see our selection of quality furniture at reasonable prices." Harvey R. (Buddy) Gilbert 2-8p

INTERNATIONAL SERVICE INSURANCE CO., Stateside and overseas auto insurance. Government Employees Finance Co Huntsville Representative, 2901 Bayless Dr. Phone JE 9-4583. tfc

**WANTED! Cash for your car. Clean used cars needed. Top prices paid for Volkswagens and other imports. DICK COFFEY, INC., JE 9-7456. tfc**

CALL HUNTSVILLE WINDOW CLEANING SERVICE for free estimates on commercial and residential cleaning. We scrape paint, wash windows, clean walls, and woodwork, clean & wash floors, clean light fixtures, do general house cleaning. Insured against breakage, all work guaranteed. Phone 534-3795. tfc

HUNTSVILLE SPORTING SUPPLY, 4846 GOVERNOR DRIVE —We fit and drill our own bowling balls—Manhattan, the ball with more live rubber, phone JE 9-4863 ask for Herman (Pappy) Certain. tfc

FOR EXPERT income tax service see Claude B. Honeycutt, Public accountant, 3405—Governors Dr. JE 6-5281. 2-22c

**Auto Insurance**  
● SOLD ON TERMS ●  
We sell all military.  
SR 22 FILE  
POST INSURANCE \$10 YR.  
527 MADISON STREET  
Open 'til 8:00 p.m.  
JE 4-0146

GOVERNMENT EMPLOYES FINANCE CO. Military E-5 and above, GS-7 and above. Huntsville Representative, 2901 Bayless Drive. Phone JE 9-4583. tfc

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 JE 6-6121. tfc

FOR SALE — Extra clean 1960 Ford Sunliner convertible, low mileage, one owner, Redstone Credit Federal Union, phone ext. 876-5868 or 876-5869. 2-15c

## ABS SECRETARIAL SERVICE

528 Madison Street, North  
LET US—Mimeograph your club news; supplemental sheets for job application, etc. (Stencils filed for future use if desired). Complete your Form 57 or other employment forms. Answer your telephone.  
WE HAVE — Desk and/or office space for rent. (Off-street parking)  
Dictaphone transcribing equipment.  
Notary Public.  
HOURS — Monday thru Friday 8:30 - 5:00. Saturday 9:00-1:00.  
OFFICE PHONE, JE 4-6451 — Home phone JE 4-6433. tfc

FOR SALE— TV Shop with large van truck for workshop with all equipment and large stock of new and used parts. Several used sets. Will give free rent at key locations with deal. Call JE 6-6857 or JE 9-6152, ask for Mr. Parker. 2-8c

FOR SALE — New 3 bedroom houses with den, 2 full baths. completely furnished, includes 3 bedroom suites, living room suite, dinette, built in oven and surface unit, refrigerator, dish washer, central air conditioning city sewage, G. I., \$150.00 pays all; FHA minimum plus \$150 closing, prices start at \$12,900.00 payments as low as \$85.50 including taxes and insurance. across from Albert Pick Motel on Highway 72 east. Call JE 9-8491. tfc

FOR RENT — Office space (12x 15). Rent includes answering phone in your absence. (Other secretarial services at reasonable rates.) Phone. JE 4-6451 or J E4-6433. tfc

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. tfc

FOR SALE — 40 acre farm on paved road, 12 miles from Huntsville within 1½ miles of Madison Cross Roads and school, adjacent to Leonard Mathis farm. Price \$7,000.00. Phone JE 9-1403. 2-8c

VOLKSWAGENS new and used from Dick Coffey Inc. No. Memorial Parkway. Phone JE 9-7456. tfc

## WANTED

NEW CHEVROLET and used car salesman — full time or part time — former selling experience helpful, but not necessary —but must be willing to learn our products and how to find prospects. A liberal commission and drawing account. Contact or phone JE 9-6541. C. D. King, Sales Manager, Hill Chevrolet Co., 227 Greene St., N.E., Huntsville, Ala. 1tc

FURNITURE REPAIRING AND REFINISHING — We specialize in antique and custom made to order furniture. Call or see George Weller, at Ray's Furniture Exchange, 4850 Governor's Drive. Phone JE 9-4272. 3-1c

FOR SALE — ½ ton pick-up truck, new tires, mud grips on rear, heater, overdrive, sell to first person with \$150.00. Pho. JE 4-5528. 1tc

FOR RENT — 2 room apartment, nicely furnished, hot and cold water, use of telephone. 601 Holmes Ave., N. E., Phone 534-5763. 1tc

EQUITY SALE — Trailer, air conditioned, equity \$800, monthly payment is \$66.00; going overseas. See at McAlister Ct., Lot No. 1, or call Ext. 876-7722. 1tc

ALBERT'S FLOWERS for all occasions, near hospital, prompt delivery city wide, American Floral Art School graduates. Albert and Thomas Morris, owners. 600 Gallatin St., S.W., phone JE 6-6911; nights, Sundays, holidays, dial JE 4-1760. 1tc

FOR SALE — 1957 ABC House Trailer. 42'x8', 2 bedrooms, wall oven, counter top stove, birchwood with satin finish. Excellent condition, awning. Must sacrifice. Phone JE 9-3958. 1tp

FOR SALE — Three bedroom house with fireplace and fenced in back yard. Two blocks to Blossomwood School. Buy equity. Monthly payments \$73.00. JE 6-6837. 1tc

WOULD LIKE TO KEEP ONE CHILD in my home, five days a week. For information call JE 9-3562. 1tp

WE BUY & sell house trailers. We pay more & sell for less. R&R Motor Co., phone 534-2761. tfc

## FOR RENT

3917 TROY — Swassey Blvd.— (near Arsenal), 5 room, unfurnished duplex apartment, forced air heat, exhaust fan in kitchen, washer and dryer connections, immediate possession. 215 Marscheutz Ave. — 5 room unfurnished duplex apartment in South Huntsville. Available March 1st. JERE EVANS REAL ESTATE & INS. AGENCY Phone JE 4-9821 1tc

TO SELL — Drop leaf solid cherry table with four matching chairs. Table scratched, custom made pads on chairs. Call JE 4-9755. 1tp

WILL BABY SIT in my home for working mothers during day. See Mrs. Nance at Kramm's Trailer Court, Lot 19, or Phone Ext. 876-6842. 1tc

FOR SALE — Carport, \$170.00 cash and carry, usually sells for \$200.00. Is new in package, has steel frame and aluminum roof. Phone JE 4-4767. 1tp

APARTMENTS FOR RENT — 1 furnished apt. (1 bedroom), One unfurnished apt. (1 bedroom), electric heat, air conditioned, stove, refrigerator, venetian blinds furnished. 3 blocks from downtown, new building. Couples only. No pets. 611 Madison St., S. Phones 534-3623 or 534-5281. 2-15c

FOR SALE — Excellent 1955 DeSoto Fireflite, 2 dr. H. T., radio, heater, power steering and brakes, automatic transmission, \$575, call 876-0213. 1tp

(Continued On Next Page)

## HOME for SALE

8912 Hogan Drive, S. E. LILY FLAGG

New 3 bedroom, 2 bath home on lot 150'x150'. This is Kingsberry's "AMBASSADOR" Model Home with 2-car garage, year-round air conditioning and all built-ins. Price \$22,000 with \$3,000 down on FHA.

DONALD JONES AGENCY  
Builder-Dealer For  
**KINGSBERRY HOMES**  
900 Bob Wallace - JE 9-4471

## AVONDALE ACRES 100% GI LOANS

Minimum Down Payment on F.H.A. 3 Bedroom Brick, 1 & 1½ Ceramic Tile Baths, Hardwood Floors, Birch Cabinets, Forced Air Natural Gas Heat, Some with CarPorts, all have Adequate Storage Space, all Located on Nice Large Lots.

PRICE RANGE \$12,800.00 to \$14,800.00

BE HAPPY WITH YOUR HOME — SELECT YOUR LOT — YOUR FLOOR PLAN AND CHOOSE ALL COLORS.

IN BEAUTIFUL

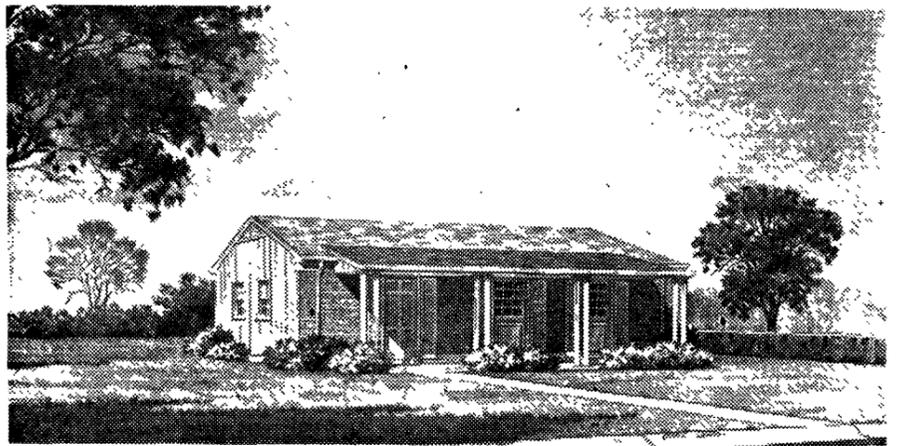
AVONDALE ACRES—Conveniently Located on Martin Lake Road, Between Pulaski Pike and Jordan Lane

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Governors Drive & Memorial Parkway

## EDMONTON HEIGHTS



ONE OF THE HOMES FEATURED IN EDMONTON HEIGHTS

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CALL US IMMEDIATELY

PHONE 534-5643

SO. OF A&M COLLEGE ON MERIDIAN

# Wantads

(Continued From Page 14)

**CHLORINATION COMBATS CONTAMINATION** — Safe-guard your family's health by chlorinating your water supply. Call the Culligan Man. Culligan Water Conditioning, JE 9-3941. ttc

**STAMP AND COIN COLLECTORS** — New supplies now available for beginners or collectors. Come out and browse, see our display. Bill Ray, 4850 Governor Drive, phone JE 9-4272. 2-22c

**CARTER Distributing Co.**, your Kirby Vacuum Dealer, now located 3403 Governors Drive. Low down payment, easy terms. We sell, we trade, we service. Phone JE 4-0993. 2-22p

**FOR SALE** — Extra clean '53 Bel Air Chevrolet, motor rebuilt last week. Blue and white finish, all extras including W. W. tires, \$295.00 cash. Phone JE 4-5528. 1tc

**WATER well drilled, Pump Sales & Service**, can be financed at bank rates with up to 36 months to pay. Phone Crunk Drilling Co., JE 6-2027. 3-15p

FROM NINE TO FIVE

by Jo Fischer



"Look at it this way, boys. If you get a job here, you'd be put on the weekly Savings Bond Plan and make money without working, see?"

**TAX returns prepared by licensed accountant.** 9:00 to 5:00 or evenings by appointment. Action Agency, 112 S. E. Washington Street, Uptown Building. 534-3662. ttc

**FOR SALE** — Drop Leaf Dinette set, 5 piece Hardrock Colonial Maple, excellent condition, ideal for kitchen or small den, also antique planter. Phone JE 9-3109. 1tc

**FOR SALE** — 1958 Ford Fairlane 500. Automatic transmission, power brakes and steering, air conditioning, radio, heater. Black and White. Excellent condition. \$1,000. Call JE 9-8959 after 6:00 p.m. 1tp

## Engineers Ask for Bids On Pasture at Arsenal

The Corps of Engineers announced recently that invitations for bids have been issued for leasing approximately 10,739 acres of land at Redstone Arsenal Military Reservation for haying and grazing purposes.

The property for lease is divided into 19 units, ranging in size from 60 to 1,728 acres. Approximately 6,362 acres are arable or semi-open land, the remainder mostly woodland.

Anyone interested in leasing any of the units may secure further information by contacting Ellis at the Corps of Engineers Area Office, Redstone Arsenal, Bldg. 7155 (telephone JE 6-4411, Ext. 876-4872) Monday through Friday, until Feb. 21.

All bids must be in the office of the U. S. Army Engineer Dis-

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We write or accept Military Risk of any age or rank.

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Our Homeowners Policy gives you fire, windstorm, theft and liability protection with one policy . . . with one premium. You can save as much as 20% . . . eliminate gaps and overlapping of coverages. Call us for details.

**G. W. Jones & Sons**

GENERAL INSURANCE  
307 Franklin Street  
Phone JE 6-3301

## AOMC Awards Contracts For Services in State

Contracts for goods and services other than missile work totaling \$183,114.00 were awarded by the U. S. Army Ordnance Missile Command to Alabama and Tennessee firms during January.

Huntsville firms sharing in the awards included the Meadow Gold Dairies which contracted to supply 30 items of dairy products, for \$105,395; and Ashburn and Gray, Inc., whose contract for \$14,800 covers work on a new

SUCCESS . . . Why is it you see so many handicapped people who are so remarkably successful? Can it be because they are obliged to use their heads?

road extension. Other Alabama concerns were these firms in Birmingham: the Standard Oil Co., which will provide aviation gasoline for \$24,325; Ack Semiconductors, Inc., transistors and diodes, \$5,926; Moore-Handley Hardware Co., Inc., valves, \$9,403; MG Electronics and Equipment Co., diodes, \$5,190; and Snap-On Tools Corp., tool sets, \$7,773.

The Siskin Steel and Supply Co., Inc., of Chattanooga, Tenn., will supply structural steel beams for \$10,302.

tract at Mobile, Ala., by 2:00 p.m., C. S. T., Feb. 23.

## BUY TODAY . . . . . ENJOY TOMORROW

3 & 4 BEDROOM BRICKS  
100% GI LOANS

Small Down Payment on FHA — "All Homes on City Sewerage"

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Shown Anytime By Appointment

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Make It **S.O.P.**

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CORPORATION

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Huntsville, Alabama

Tel. Jefferson 4-6458

## 100% G. I. Loans

— IN —

Westwood Estates

Three bedroom brick veneer homes that feature paneled dens, built-in range and oven, air conditioning, select hardwood floors, carports or garage, washer connections and sliding glass doors. A veteran purchaser can move in for only \$200 closing costs. Also available on minimum FHA terms. DIRECTIONS—Drive north on Pulaski Pike to Embry's Store, turn left and look for our signs on right.

Oak Park Subdivision

We have 11 brick veneer homes under construction that may be purchased on 100% GI loans or minimum FHA terms. They feature three bedrooms, 1½ and 1¾ ceramic tiled baths and some have family rooms. All city utilities. A veteran purchaser can move in for only \$200 closing.

DIRECTIONS—Drive east on Oakwood Avenue to Chambers Drive. Look for our signs.

## Hunter & Mitchell

REALTORS

Phone JE 9-1759

## FOR SALE!

2016 Princeton Blvd., S.W.

3 bedroom frame, forced air gas heat, located near high school and Fifth Ave., school, separate dining rm. 25 year F.H.A. loan of \$11,850.00. Monthly payments \$91.00. Taxes and insurance included.

### SOUTHEAST SECTION

Quality 3 bedroom brick home with living, dining room combination. Paneled den, and kitchen with built-in range and oven. 2 baths, attached garage. Situated on extra large lot on Delwood Road.

### Five Points Realty

& Insurance Agency, Inc.

Charles Smith, Broker  
802-B Wellman, Ave., NE  
Phone: Office 534-5624  
Res. JE 4-7833

Best Home Buys  
Best Location  
Best Terms In Town  
For Example:

## BRICK HOMES

3 & 4 bedrooms. Town & Country living at its very best.

SAVE \$400

on closing costs on either GI or FHA terms. Phone JE 9-8481.

## Sherwood Park

Directions: Drive WEST on Bob Wallace (Madison Pk.) or Governors Dr. Follow signs to Model Homes.

**FOR THE BEST BUYS IN**  
Equities — G.I., F.H.A. or Conventional  
Loans — Subdivisions — Houses Under Construction and Other Select Real Estate & Rental.

— Call Us —

## The HIGHLANDS Co.

Real Estate and Insurance  
2315 Bob Wallace Phone JE 6-6318

### Value Analysis Men Study Cost Cutting

Harry H. Hepler, Value Engineering Coordinator for ABMA's Industrial Operations Procurement Office and Bruner T. Honeycutt, Chief of Special Projects Office of Field Maintenance Division, attended Value Analysis seminars held by Convair, manufacturer of aircraft and missiles.



H. H. HEPLER

Hepler attended a seminar in Fort Worth, Tex., and Honeycutt attended a seminar at Pomona, Calif. Both seminars were conducted by allowing the students to take a piece of equipment in actual use and find a means of cutting its cost.

Hepler's group worked on an engine starter and flight control panel. They found that the panel was budgeted at \$1,367.00. The most expensive item in the panel was a switch that cost \$800.00, so they began working on this. The switch was housed in a metal box and contained four micro-switches, a solenoid and a toggle-switch. By calling vendors and manufacturers, Hepler's team found that the switch could be produced for \$90.00, and that the whole system could be produced for less than fifty percent of its budgeted price.



B. T. HONEYCUTT

Honeycutt's team at Pomona, worked on electronic feedback and control boards for a missile

system. They found that the cost of the boards could be cut 37 percent. They recommended using a double duty etching process for drilling the boards rather than having it hand drilled. They also found a new method of fireproofing the board's wiring, and substituted materials of satisfactory quality at a reduced cost.

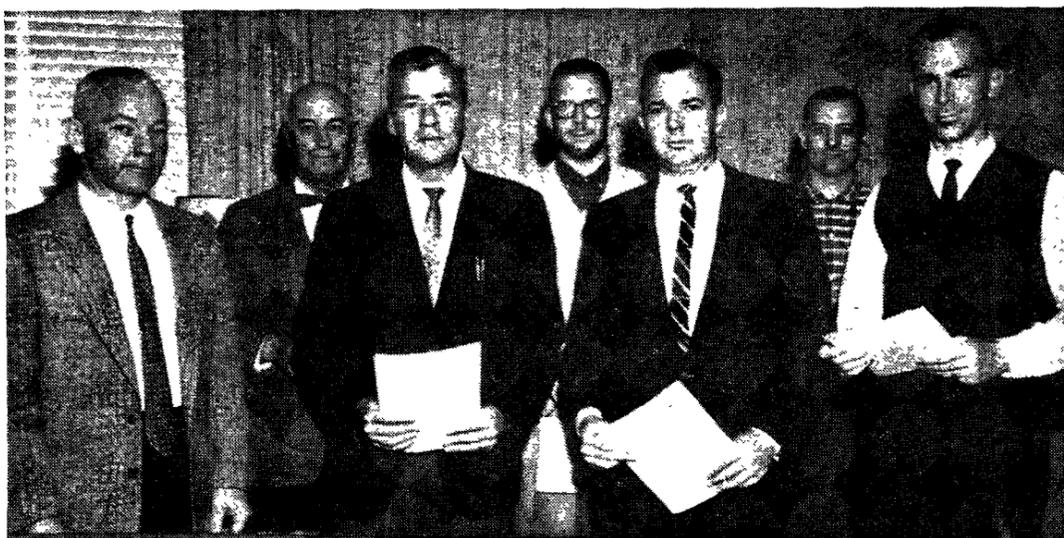
These men agree that since the military must operate within non-profit and limited budgetary ceilings, it must find some way to get more for what it is spending.

#### RECEIVES PROMOTION

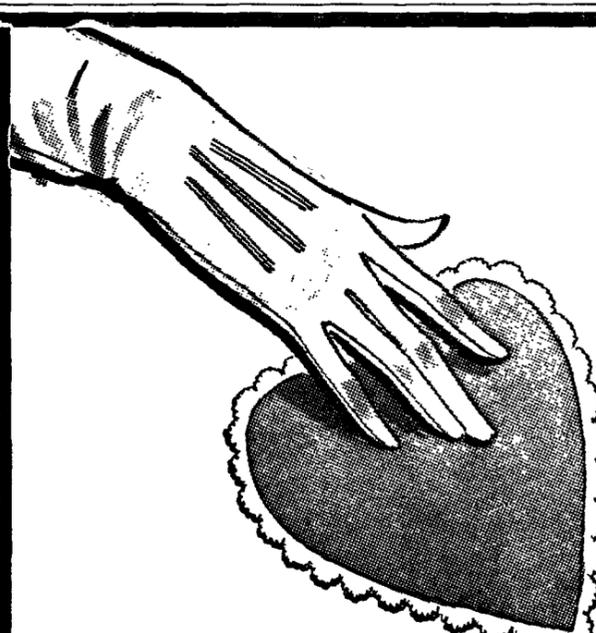
M/Sgt. Joseph C. Leone, Headquarters, School Troop Command, OGMS, recently was promoted to pay grade E-8.

M/Sgt. Leone entered the Army in January 1941. Prior to his assignment at the Missile School, he was Chief Clerk, Inspector General Section, 1st Cavalry Division stationed in Korea.

Leone resides, with his wife, Helen, at 1308A Jupiter St., Redstone Arsenal, Alabama.



**AWARDS GIVEN** — Invention Disclosure Awards were given to six ARGMA employees by Mr. Harry F. Vincent, first row left, deputy director of R&D Operations, Friday. Recipients of the awards were: (left to right) William B. McKnight, Lonnie N. McClusky, Nicholas Mangus; second row: Dr. Ralph Donner, Dale Holter and Gene Widenhofer. Five employees worked jointly on awards for an optical scanning system, a scanning mirror assembly, a rotary radiation discriminator and a positive-negative radiation detector. The other award was given for an apparatus and method for testing solid propellant aging.



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*her*  
**HEART**

**GLOVE** *her* **HAND**

with

**KAYSER GLOVES from DUNNAVANT'S**

Cotton & Nylon Knit  
**LEATHER PALM GLOVE**

Nylon  
**GLOVES**



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White and Colors **200**

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with  
**GIBSON Greeting CARDS**

Give Her — **FASHION JEWELRY**

Earring & Necklace Sets -- 2.00 to 11.00  
Bracelet & Earring Sets ----- 2.00 to 4.00  
Circle Pins ----- 1.00

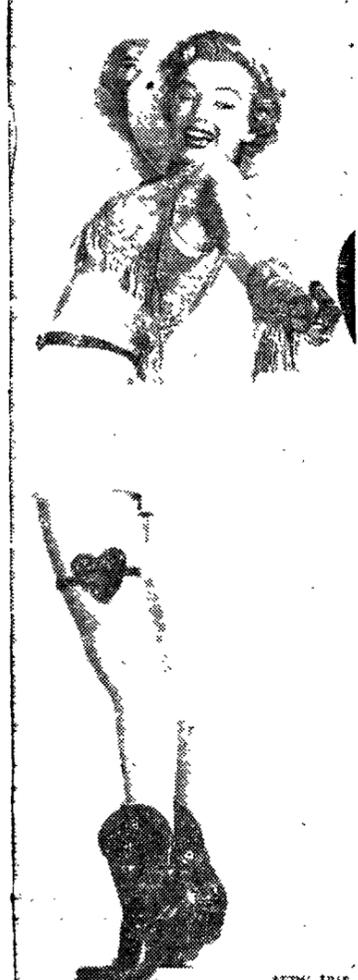
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**CRACKSHOT MM** — Still as lovely as she appeared in this picture 10 years ago, Marilyn Monroe wouldn't need a pistol to capture her Valentine.