

# The Redstone Rocket

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MARCH 12, 1969

Arsenal-Wide

Spot News

Dial 112

## AMC COMMAND CHANGES



**PLANNING SESSION**—Army Missile Command employees who are graduates of Alabama A&M College participating in the New Career Opportunities Program at the college hold a planning session with John Nelson (center), personnel specialist with the Command's Civilian Personnel Office. The program was held the past week to acquaint A&M students with career opportunities. The Missile Command group spoke about their work experiences at Redstone Arsenal. From left are: William Falls, a mathematician in the Missile Intelligence Directorate; Deloris Mitchell, a procurement assistant in the Procurement and Production Directorate; Nelson; Barbara Jones and Curtis Clark, accountants in Finance and Accounting Center.

### Lt. Col. Hooker Receives Legion Of Merit For Duty In Saigon And First Log

Lt. Col. William P. Hooker, Chief, Production Management Division, has been awarded the Legion of Merit for exceptionally meritorious service in Vietnam.

Awarding the medal was Brig. Gen. I. O. Drewry, Commanding General, Sentinel System Command.

While serving in Vietnam, Col. Hooker was Assistant Chief of Staff, Security, Plans and Operations, Saigon Support Command. He was also the Commanding Officer of the 185th Maintenance Battalion, 29th General Support Group, 1st Logistical Command.

### SUPER-POWERED LANCE GOES WITHOUT FLAW

A Lance missile powered by a higher performance engine was flight tested successfully at White Sands Missile Range, N. M., Thursday.

The battlefield missile, utilizing a modified engine which substantially increases range, performed flawlessly.

This was the first Lance flight since the engine system underwent design changes.

Prior to Thursday's firing, the U. S. Army Missile Command here had conducted a series of successful ground tests with the modified engine. The Missile Command manages the Lance Program under Col. A. F. Pottle, Jr., Project Manager.

The development test at White Sands was conducted by the Missiles and Space Division, Michigan LTV Aerospace Corporation, Lance prime contractor.

Lance is being developed for the Army as a general support weapon system that can be transported by plane, and air dropped, has maximum ground mobility and a swim capability.

Capable of carrying either a nu-  
(See LANCE on Page 3)

The 185th was the largest maintenance battalion in Vietnam.

Col. Hooker is on the promotion list for full colonel. A graduate of the University of Omaha with a Bachelor of General Education degree, his service schooling includes Glider School, Officer Candidate School, Army Engineer School, Ordnance Guided Missile School and Command and General Staff College. He is presently enrolled in the Army War College extension course program.

Prior to his assignment in Huntsville, Col. Hooker's assignments included Japan, Korea, Iran and Vietnam.

This is his third tour at Redstone Arsenal. He has served on the staff and faculty of the Ordnance Guided Missile School and in the Nike-X Project Office.

At 17 he entered the Army as an enlisted man.

### Capt. Mahley Set To Talk To Graduates

A future West Point instructor will address the three graduating classes of the Army's Missile and Munitions Center and School Friday in the Post Theater.

Capt. Donald A. Mahley II, Chief, Technical Branch, Training Division in the Office of Operations, will be the guest speaker at the graduation exercises.

Capt. Mahley was recently selected to be a political science instructor at the U. S. Military Academy beginning in 1971. He will complete a two-year graduate program for his Masters degree before moving on to West Point.

A 1964 graduate of Purdue University, Capt. Mahley received his commission through the R.O.T.C. program on June 1, 1964. He has completed the Air Defense Officer Basic course, Nuclear Weapons Officer course, and Ordnance Officer Advanced course.

Capt. Mahley served in Viet-  
(See CAPT. MAHLEY on Page 3)

### Gen. Chesarek Receives Fourth Star During Pentagon Ceremonies

Gen. Ferdinand J. Chesarek Monday assumed command of the U. S. Army Materiel Command in an official change of command ceremony at North Area, Ft. Myer, Arlington, Va.

The Honorable Stanley R. Resor, Secretary of the Army, and Gen. William C. Westmoreland, Chief of Staff of the Army, participated in the ceremonies in which the command changed hands from Gen. Frank S. Besson, Jr., to Gen. Chesarek, 55 year old West Pointer who became the second commanding general in AMC's brief six-and-a-half year history.

Earlier Monday, at a swearing in ceremony in the Pentagon, Gen. Chesarek, former Assistant Vice Chief of Staff of the Army, received his fourth star along with the new assignment from Gen. Westmoreland.

More than 500 military and civilian guests attended the ceremony in the gymnasium of the historic Army post just across the Potomac River from the Nation's Capital.

The Military District of Washington's famed U. S. Army Band and troops of its First Battalion (Reinforced), Third Infantry (The Old Guard) presented the colors and passed in review during the colorful ceremonies.

Gen. Besson, AMC's first and only commander to this date, has been named chairman of a new Department of Defense Joint Logistics Review Board, established to conduct a study of world-wide logistics systems in support of military operations in the Vietnam era.

A highly-decorated Army field artillery officer, Gen. Chesarek takes command of a far-flung military agency which operates with a \$25 billion inventory and an annual expenditure of \$13 billion. The Command is basically responsible for the Army's materiel mission including research and development, procurement and production, storage and distribution, inventory management and maintenance and disposal.

### AOA Launches Membership Drive In Tennessee Valley

The Tennessee Valley chapter of the American Ordnance Association is participating with some 50 other chapters and branches throughout the country in a Golden Anniversary Year of meetings and special events to commemorate a half century devoted to serving America's defense needs.

The Association is an educational, scientific, engineering, non-political, and non-profit-making organization, whose purpose is to assure the technical development of superior weapons for the nation's defense, as well as continued advancement of defense management planning.

The Tennessee Valley chapter of AOA, organized in 1957, now has

850 members. The newly elected president is W. A. Giardini.

Observance of the anniversary began at Aberdeen Proving Ground, Md., on October 10, 1968, when AOA held its 50th Annual Defense Preparedness Meeting there. It was at Aberdeen that the Association was founded in 1919, when the Proving Ground was itself just a year old.

Other meetings and special events will continue throughout the year, closing with the 51st Annual Defense Preparedness Meeting at Nellis Air Force Base, Nevada on October 2, 1969.

As part of the year's events, AOA is staging a membership campaign.  
(See AOA on Page 3)



**UNDERSTANDING GROUP**—A group of prominent citizens from the Niagara-Buffalo, New York area watch attentively as Col. J. R. M. Covert and 1LT Donald A. Johnson (left) demonstrate the Redeye Air Defense Missile System. The group of fourteen men and women visited Redstone Arsenal last week as a part of the

Army Air Defense Command's "Operation Understanding," a program designed to orient leading citizens of areas surrounding air defense installations on Army air defense activities. The group's escort, Col. O. D. Street, III, Commanding Officer of the 18th Artillery Group, a Nike Hercules equipped element of ARADCOM.

# The Redstone Rocket

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## Rocket Ruminations

He who excuses himself, accuses himself.  
—Gabriel Meurier

## Military And Industry View Simulated Lance Firing On Battlefield

Military and civilian observers at Fort Sill, Okla., got a close look today at the ease—and speed—with which the Army's new battlefield missile, Lance, can be readied for firing.

They saw a simulated firing, along with a display and demonstration of ground support equipment, as one of the highlights of the Lance Orientation Symposium which began there yesterday and was to end later today.

Sponsored by the Lance Project Office, U. S. Army Missile Command, the symposium brought together military and industrial members of the Lance development team for a comprehensive review of the Lance program.

The meeting will bring every agency involved up to date on the status of the program and map plans for future development, the Army said.

A team of soldiers from the U. S. Army Field Artillery School and the Field Artillery Training Center at Fort Sill conducted the simulated fire mission. As part of the demonstration, a "spare" missile was placed on the launcher by the transporter-loader vehicle and the launcher was converted from the self-propelled mode to its other role as a lightweight launcher.

Prior to the demonstration, Army and industry officials were given detailed briefings. They were greeted earlier by Col. A. F. Pottle, Jr., Lance Project Manager,

who officially launched the two-day session.

Lance is being developed for the Army as a general support weapon system that can be transported by plane—and air dropped—has maximum ground mobility and a swim capability. Capable of carrying either a nuclear or conventional warhead, Lance will be the Army's first missile to use pre-packaged storable liquid propellant.

## FOUR RECEIVE AUSA PLAQUES

"You are now branded as a technician and an expert in the missile and munitions field. I challenge you to maintain the highest possible standards in the performance of your future job."

The 122 graduates of the Army's Missile and Munitions Center and School listened Friday morning as they were challenged by the guest speaker, Maj. Norman P. Hopkins.

Maj. Hopkins, the commanding officer of School Brigade's 1st Battalion, charged the nine missile and munitions classes "with the responsibility of continuing their outstanding performance in their duties as military men."

"Personal effort is the key and main requirement in performing your job. This is not the end, but the commencement of your educa-



**FUTURE MISSILES CHIEF PROMOTED**—Smiles were plentiful the past Wednesday when silver leaves were traded for the eagle insignia for Colonel Edward M. Riddlehoover. Maj. Gen. Charles W. Eifler, Commanding General of the Army Missile Command, and Mrs. Riddlehoover shared the honors in promotion ceremonies for the Chief of Future Missile Systems Division of the Command's Research and Engineering Directorate. Admiring their father's new status are his daughters, Barbara Jean and Anita Anne. Two other children are in college. Col. Riddlehoover came to his present assignment the past November following a year's tour in Vietnam. He had previously served at Redstone Arsenal from 1960 to 1963.

tion in your new profession," he emphasized.

Maj. Hopkins addressed graduates from Germany, China and the United States before a capacity audience in the Post Theater, and presented their diplomas.

Four soldiers received plaques for their outstanding academic records. C. D. Maliskey presented the awards on behalf of the AUSA (Association of the United States Army) to Pvt. Rex L. Houston, Jr., who achieved a near perfect grade average of 99.1 in an ammunition storage course. Pvt. Houston is a 1968 graduate of the University of Arkansas with a B. S. degree in Business Administration.

Other recipients of the AUSA awards were Pvt. Meredith N. Eubank and William J. McDermott, Jr., with 98.4 averages and Specialist 6 Richard G. Demming with a 97.0 average.

## Lockheed Studies Companion Vehicles For Army's MBT

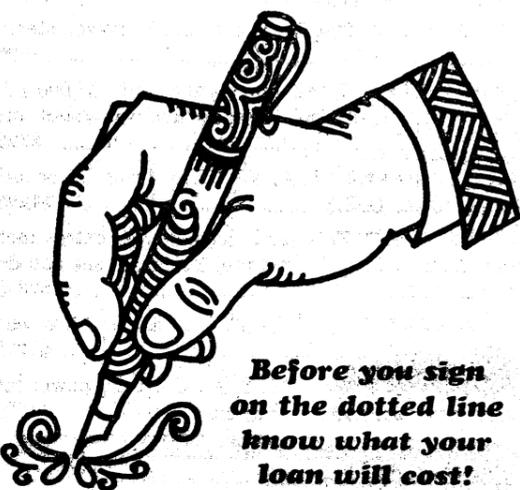
SUNNYVALE, Calif. (ANF) — Possible companion vehicles for the Army's main battle tank (MBT) are under study at Lockheed Missiles & Space Co., the aerospace firm recently announced.

Under a \$271,000 contract with the Army Tank-Automotive Command, Warren, Mich., Lockheed will provide data to help the Army evaluate various families of vehicles which will accompany and support the main battle tank on battle fields of the 1970's.

The types of vehicles the firm will study are an armored recovery vehicle designed to aid damaged tanks, a combat engineer vehicle equipped with boom, winch, dozer blade and demolition gun, and an armored-vehicle-launched bridge

which can place a 60-100-foot bridge across streams and gullies that might otherwise stop the MBT.

Current operational tank companion vehicles are included in the study along with a cost analysis of possible future companion vehicles.



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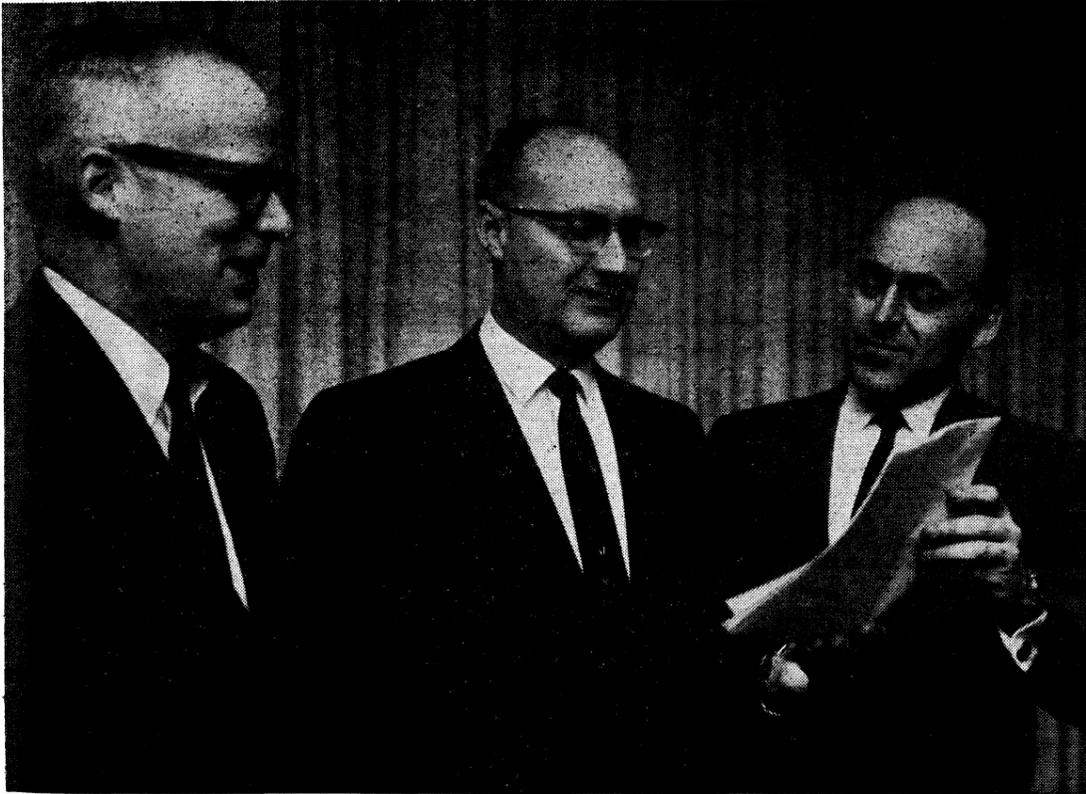
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**ATTEND MEETING AT REDSTONE**—Discussing the agenda are several conferees at a meeting of the Army Materiel Command Systems Analysis Agency and Army Systems Analysis Groups held recently at the Army Missile Command. Left to right are: Dr. Daniel Williard, Office of the Deputy Under Secretary of the Army; Robert Orr, Research and Engineering Directorate, Army Missile Command; and Dr. Joseph Sperr, acting director of the Army Materiel Command Systems Analysis Agency.

**LANCE**

(Continued From Page 1)

clear or conventional warhead, Lance is the Army's first missile to incorporate an engine with dual thrust chambers, to use pre-packaged storable liquid propellant and to have a simplified inertial guidance and control system. Just recently Lance proved it could operate under extreme environmental conditions. One missile was "cold soaked" to 40 degrees below zero and fired successfully while five days later another missile was "steamed" to 140 degrees above and also fired successfully.

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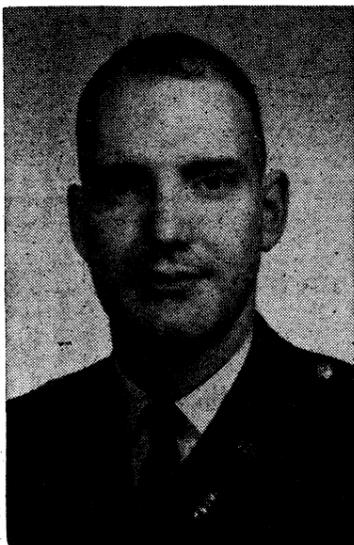
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**CAPT. MAHLEY**

(Continued From Page 1)

nam as adjutant of HHC, 191st Ordnance Battalion (Ammo), and Commanding Officer of the 611th Ordnance Company (Ammo). Both un-



**CAPT. DONALD A. MAHLEY II**

its are located in the Cam Ranh Bay area.

A bachelor, Capt. Mahley presently resides at 2024 N. Memorial Parkway, Huntsville.

Friday's graduation ceremony is open to the public.

**Modification Kits For Nike Hercules Cost \$9.5 Million**

The Army Missile Command has awarded a contract of \$9.5 million to the Western Electric Company to produce modification kits under the Surface-to-air Missile Augmentation Program (SAMCAP) for the Nike Hercules air defense guided missile system.

Work under the contract is to be performed at Burlington, N. C.

Now deployed around key areas in both the United States and overseas, Nike Hercules has proven successful in tests against high performance aircraft at a variety of altitudes and has successfully intercepted short range ballistic missiles.

The Nike Hercules program is managed by the Army Missile Command at Redstone Arsenal under Col. Morris W. Pettit, project manager.

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**AOA**

(Continued From Page 1)

paign. Membership posters and applications have been distributed to the Army Missile Command and other commands to familiarize personnel with the goals of AOA.

Founded in 1919 as the Army Ordnance Association, the Association was renamed in 1948 and merged with the Armed Forces Chemical Association in 1965. Over the years the Association's basic purposes have remained unchanged, but its activities have broadened to include the Army, Navy, Air Force, Marines, and other defense-related agencies.

The Association fosters science-industry-defense cooperation in the research, development and production of all weapons systems and support equipment.

AOA also maintains a network of chapters throughout the country, to keep members in touch with defense activities at the local level.

To create understanding for in-

**WIVES PLAN BENEFIT**

The Redstone Arsenal Officers Wives Club is sponsoring a benefit, "Night on Bourbon Street," with proceeds earmarked for community charities.

Ticket sales will begin at the Wives Club luncheon next week.

The party will be at the Redstone Arsenal Officers Open Mess beginning at 6:30 p.m. on April 26 and will include a buffet dinner, dancing and games throughout the evening.

industry's peacetime work in weapons development, the Association holds meetings throughout the year—a National Annual meeting, devoted to seminars on defense developments; a Defense Preparedness Meeting, held alternately with the Army, Navy, and Air Force; and chapter and technical meetings.

Membership in the AOA is open to any American citizen interested in military and industrial preparedness.

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# Trends In The Army: Weapon Systems

By LT. GEN. F. J. CHESAREK, USA, Asst. Vice Chief of Staff, U. S. Army

**Editor's Note:** The Rocket is carrying this week excerpts from an address by Gen. F. J. Chesarek which appeared in the February 15, 1969 issue of VITAL SPEECHES. Entitled "Trends in the Army," General Chesarek delivered the address last fall during the Annual Meeting of the Association of the U. S. Army. President Nixon recently named him Commanding General of the U. S. Army Materiel Command.

Delivered at the Luncheon for Sustaining Members of the Association of the U. S. Army, Washington, D. C., October 30, 1968.

I would like to share with you a parable written by Benjamin Franklin in which he described how to make a Striking Sundial so that all the neighborhood for 10 miles around could know the time when the sun shines without having to look at the dial. In short, Mr. Franklin proposed:

In an open field with no impediment to sunshine, mark out hour lines, as for a sundial. On the line for one o'clock, place one cannon; on the two o'clock line, two cannons; and so on. The furrows must all be charged with powder, but ball is unnecessary. Around the sundial, place lenses to light powder trains; number one, for example, at one o'clock would fire one gun. At two o'clock, a focus shall fall on line two, kindle another train, and dis-

charge two guns successively; and so on.

Mr. Franklin then notes that the chief expense will be the powder; the 78 cannons, once bought, will with care last 100 years, and there will be a great savings of powder on cloudy days. He then concludes:

Kind reader, Methinks I hear thee say that it is indeed a good Thing to know how the Time passes, but this Kind of Dial would be very Expensive; and the Cost greater than the Advantage. Thou art wise, my Friend, to be so considerate beforehand; some Fools would not have found out so much 'til they had built the Dial and try'd it.

Franklin's admonition to weigh cost against advantage now falls under the terminology of cost effectiveness, a new tool of management science.

Today, the protagonists of such a sundial would also consider tradeoffs. After satisfying themselves of the advantages to be gained versus the costs involved, they might propose surrendering a quantity of watches, clocks and other model sundials equal in value, after discounting, to the investment and operating cost of the new sundial over a period of years.

Needless to say, this concern for the cost of introducing a new system into inventory has a profound significance to both the Military Services and to industry. Its implications are great. They extend into force structure, doctrine, and manning levels, as well as into equipment inventories.

In my article written for the

Association of the United States Army Green Book, I used the case study of the AH-56A—the Cheyenne helicopter gunship—to illustrate the concept of equal cost tradeoff. I would like to use it again now, very briefly.

To field this new helicopter at the earliest practicable date and to take advantage of certain contract option prices, the Army in the spring of 1967 requested authority from the Secretary of Defense to initiate its procurement. The Army recognized that, in the long run, the new capability provided by the AH-56A would permit some tradeoff of other systems already in the inventory. The Secretary of Defense agreed that the system should be introduced but concluded that the Army should identify and trade off other systems so that, over a 10-year period, the cost of the Cheyenne system would be offset by the cost of the tradeoff.

The Defense Department employs the technique of equal cost tradeoff to encourage the uniformed Services to exercise their best judgments and analytic capabilities in recommending the best mix of forces and weapon systems.

In considering the future application of tradeoffs, we must examine the course of the Army's doctrinal evolution to get a feel for the size and shape of the Army of the 1970s and 1980s. You will note that this evolution is not based on any really new concepts; rather, it is a matter of emphasis on proven principles, some of which have roots going back to Biblical times.

I have singled out eight trends which, in my view, dominate our professional landscape:

- Night operations.
- Night operations will become much more extensive and mean-

ingful as night vision devices continue to improve. This opens new spectrums of tactics, type and density of equipment, intelligence, target acquisition, and command and control. Equipment-wise, we must consider three aspects; needs of the individual soldier, combat surveillance, and target acquisition. Work in all areas is being pushed hard, with emphasis on the immediate needs of our forces in Vietnam. For a classic example of night operations, we can go back to Alexander the Great's victory in 326 B.C. at the Hydaspes River in India. What we are talking about today, however, is new in the sense of common versus unique doctrine. This field of endeavor holds as much promise for the Army as TV did for the communications media 20 years ago.

- Tactical air mobility.

The advantages of tactical air mobility have been proved, and the practice is certain to be expanded with unlimited scope for innovation. This includes not only the capacity to move people and material of all types, but also surveillance aircraft functioning under any kind of operating condition and gunships with a 24-hour, all-weather capability. We must also increase aircraft survivability and reduce vulnerability, especially to fire. While only about 24 per cent of our aircraft accidents result in fire, about 75 per cent of all fatalities resulting from aircraft accidents are caused by fire.

- Equipment weight.

Weight is an impediment to battle. This applies across the board. Although this fact was not just revealed yesterday, it is receiving priority attention. Weight has a direct bearing on the tactical air mobility point I just made, and it goes considerably further. We have moved aggressively in the

area of individual equipment. We are now looking at the total spectrum. Tactical mobility is the sum of many factors. We relearn this lesson every time we engage in combat—and unlearn it in peacetime when we become enamored with the niceties of luxury and gadgetry. In this regard, industry tends to egg us on, producing visions of compound use machines capable of performing miracles. And we are guilty of falling prey to wishful thinking—of disregarding lessons we learned the hard way. We need less of this sort of thing.

- Target acquisition.

Delivery of heavy firepower at point targets in very short time spans is highly productive. Ways are being sought to improve the means and techniques of application. This includes the need for improved target acquisition systems of all types—radar, electronic devices, and direction finding systems. A key consideration here is the improvement of accuracy. With better accuracy, ammunition consumption is reduced and a big cumulative pay-off is produced.

- Logistics support.

Entirely new logistics support systems are evolving based on the computer, airlift and containerization. I have long felt that we in the Army have not capitalized on industry's proven capability to assist us in this complex business.

- Command and control.

Advances in communications and data manipulation capability are revolutionizing command and control. From the division level up, computers will be used to store enemy and friendly unit data, visually display the tactical and logistical situation, and assist in decision making by evaluating proposed courses of action and pre-

(See TRENDS on Page 13)

## Wives Club To Hold Luncheon

The Redstone Officers Wives Club will have a luncheon and fashion show at noon Tuesday at the Redstone Officers Open Mess.

Hostesses for the event are wives of officers in the Sentinel System Command and the Sentinel Logistics Command. Mrs. I. O. Drewry is overall chairman and Mrs. James J. Cobb in charge of luncheon arrangements.

Models for the "Picture of Spring" fashion show will be Mrs. James F. Prewett, Mrs. Frank A. Matthews, Mrs. K. W. Gooch, Mrs. Hans Tesch, Mrs. Frederick T. Mullens, Mrs. Norman P. Hopkins, Mrs. Lawrence E. Martin III and Mrs. Charles Zumstein.

Reservations are being handled by Mrs. S. R. Silnes 837-6596, Mrs. J. R. Daily 837-3717, and Mrs. James Schaaf 837-3420.

Mrs. E. J. Hill will accept cancellations until noon Monday. Her phone number is 837-0405. Reservations deadline is noon Friday.

## JANGOs Sponsor Mother-Daughter Tea At Open Mess

The Redstone Junior Army-Navy Guild Organization (JANGO) held a mother-daughter tea March 2 in the Sentinel Room of the Redstone Officers Open Mess. The event, sponsored by the Redstone Officers Wives Club, was also a celebration for the 27th anniversary of the founding of JANGO in Washington, D. C.

In the receiving line were Mrs. William J. Macpherson, president of the Wives Club; Mrs. Alfred Holston, outgoing JANGO chairman; Mrs. Tommy Thomas, the new chairman; Mrs. Richard J. Clement, outgoing co-chairman; Mrs. Barton B. Rinehart, new co-chairman; and Cindy Twitchell, JANGO president.

Mrs. Holston and Mrs. Clement were presented charms by the JANGOs.

Mary McHugh was overall chairman for the tea, and on her committee were Andy Larson, Margaret Clegg and Cindy Twitchell.



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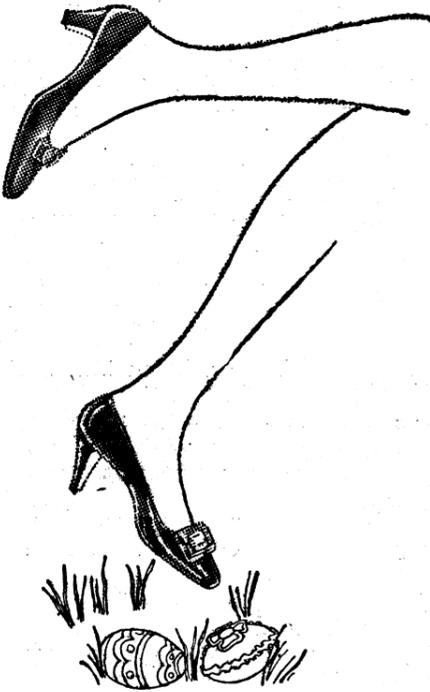
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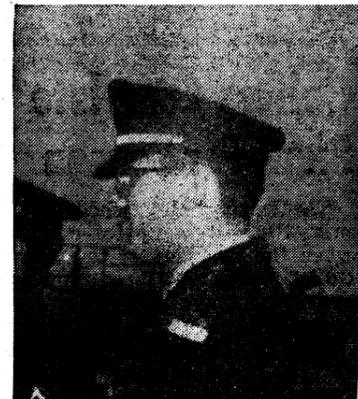
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**NAMES IN THE NEWS**

by SP5 *Mike McKenzie*

When 1st Lt. Fred Rodman takes over the 6th Enlisted Training Company today from 1st Lt. Phillip Hall in a change of command, it will mark the 9th such ceremony in 11 days as half the School Brigade companies fall under new leadership.



**CAPT. RUTHVEN**

As reported last week, new commanders were installed at the 1st ETC (1st Lt. Gerald Crocker), 522nd Ordnance Co. at Unit Training Command (Capt. James Holmes), and 5th ETC (Capt. Roderick Ruthven).

Last week featured three more changes and another three have occurred this week.



**CAPT. UCHITEL**

Capt. W. J. Uchitel moved into Co. A and 1st Lt. Michael Miller into Co. B at 1st Battalion where

permanent party are assigned.

Saturday morning began a nearly total revamping of the student 3rd Battalion as 1st Lt. Charles Gillespie was handed the guidon at 9th ETC. Following suit were 1st Lt. Bruce Nowlin at 8th ETC, Capt. Jack Brocker at 3rd ETC, and Lt. Rodman at the 6th.

All of the six most recent new C-O's shifted from other positions from within the school.

Capt. Uchitel was assistant adjutant at S-3 of Brigade, Lt. Miller was executive officer (X-O) at 1st Battalion, Lt. Gillespie held the same job at 1st ETC, Lt. Nowlin taught in Pershing Division, Capt. Brocker just completed the ammunition officer course upon return from Vietnam, and Lt. Rodman was X-O at 3rd Battalion.

Of the departing officers, 1st Lt. William Van Wagner (9th) and Lt. Hall (6th) have ended their time in service. Capt. Walter Cannon (A) is enrolled in the career Ordnance course at Aberdeen Proving Ground, Md., 1st Lt. Herbert Benedice (B) is merely switching with Lt. Miller to become X-O at Battalion Hq., and both 2nd Lt. Gary Webb (8th) and 2nd Lt. John Tyson (3rd) are bound for Vietnam assignment.

SFC William Liles was pinned with the Purple Heart in an awards ceremony at the Redstone Army Hospital. SFC Liles is the NCO in charge at the emergency desk.

Outstanding performance ratings were announced for Burton Shook, chief of occupational health services, and Gladys Brooks of the Dental Clinic.

Marking 20 years of service was Thomas Hunt of the hospital's food service, and reaching the 10-year plateau was Elga Coberly from the obstetrics and gynecology ward.

A suggestion award check was split between Larry Hunt and Berna Sanders from Supply and Services to complete the presentations by Col. Ernest Bralley, commanding officer.

Monthly laurels were also revealed in a formation at 2nd Battalion. PFC Roger Purser from the 5th ETC, an electronics student in the light air defense system was chosen Soldier of the Month.

The 5th, under Capt. Ruthven and 1st Sgt. Harold Kilgore, was named Honor Company. It boasted the top soldier last month, too, and Cpl. Benjamin Simmons went on

to become No. 1 on the entire post for February.

A trophy for outstanding participation in the blood donor program was awarded to Lt. Crocker and 1st Sgt. Arthur Moore at 1st ETC.

Cpl. Simmons, by the way, is a student on the Nike missile radar and computer systems. He hails from Easton, Md., near Baltimore and attended the University of Maryland two years before entering the Army. With a 95 point average in his course work so far, he hopes to be retained here as an instructor upon completion of the 44-week training period.

The Soldier of the Month for the post earns a U. S. Savings Bond, plus a weekend "on the town," compliments of the Huntsville Chamber of Commerce. Simmons had first to win in competition on the battalion and school level before challenging for the post-wide honor.

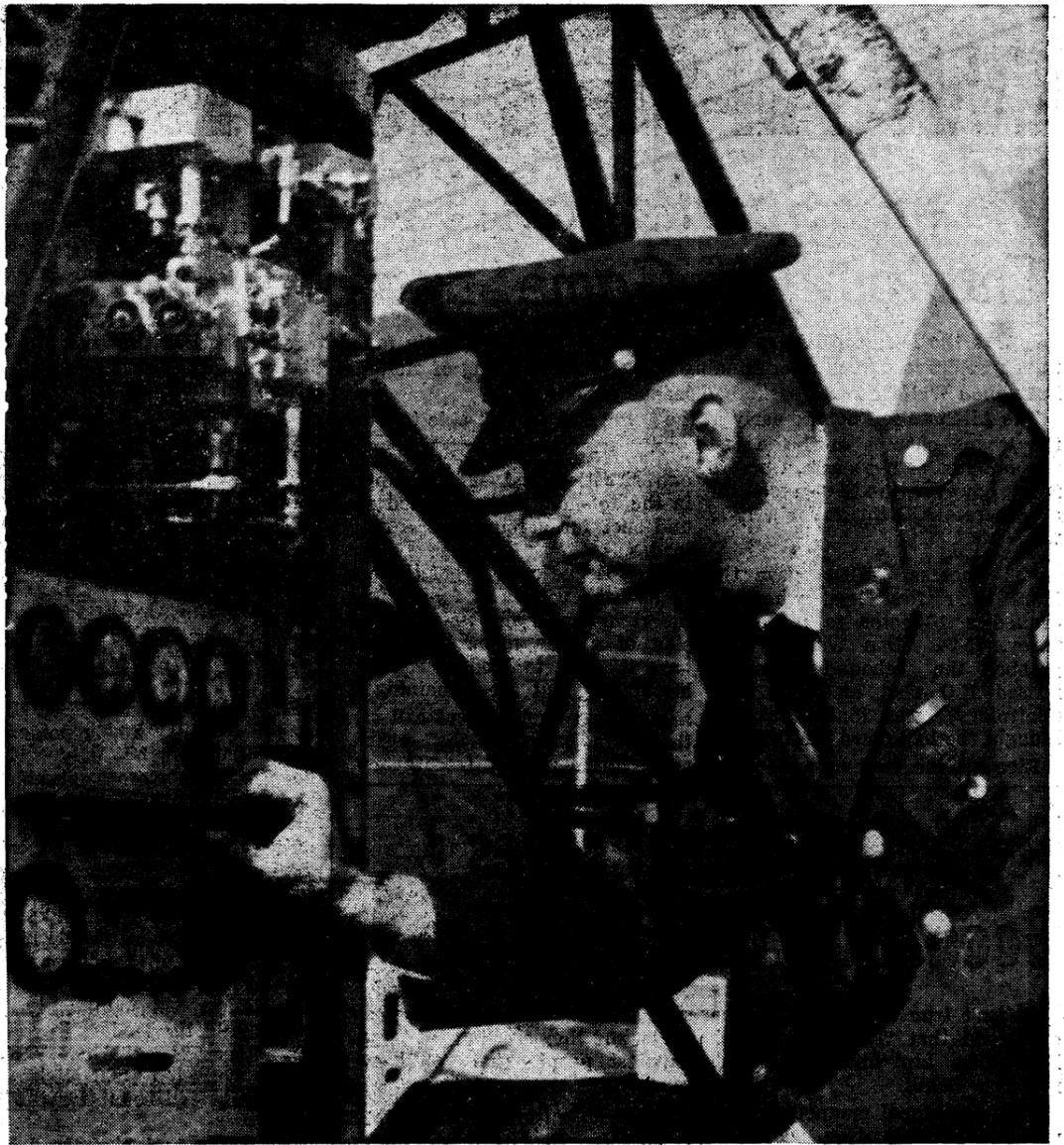
**OTHER NAMES IN THE NEWS** — Promotions: Maj. Andre LeBlanc, assistant Information Officer (and my boss!); Maj. John Stewart, Maj. Harry Schmidt, Maj. John Whalen and Maj. Jerry Taylor, all doctors at the Army Hospital; Capt.

John Dunn, assistant chief of Supply and Services at the Hospital . . . 1st Lt. Dominic Flaco, supply officer at the 522nd Ordnance Co. was recently the distinguished graduate of the Chemical-Biological-Radiological (CBR) warfare



**LT. ELTER**

course at Ft. McClellan . . . A farewell is due to Lt. Wilfried Elter of the German Air Force who has been chief interpreter here for two years, as he returns to Germany this week.



**CPL. BENJAMIN SIMMONS—Post Soldier of the Month**

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# CFW All-Stars Hand League Champs First Loss

## Thomas Sparks Comeback Snapping 45-Game Streak

It took the league All-Stars to turn the trick, but ICO finally found their masters last week after running up an amazing string of victories in Civilian Welfare Fund basketball league action.

The All-Stars fell behind early in the going and weren't able to catch the league champs until the last two minutes of the game. Once in front, however, the Stars stood off a desperate ICO threat for a 79-77 win.

Mel Thomas (MID) gave the Stars their first lead when he canned a 10-footer to make the tally, 75-74. Don Woods (QA) grabbed the rebound from a missed ICO shot and Bob Rice (Metrology) was fouled as he brought the ball down the floor.

Rice hit the first of a one and

one situation and Woods tapped in the rebound of the missed second shot for a four-point All-Star lead.

Greg Bogue quickly got three of them back with a 12-footer from the right and a successful conversion of a free throw. The Stars gave the ball to Rice in hopes of his stalling out the remaining 20 seconds but another foul call sent the Stars back to the charity stripe for a pair of free throws.

Once more the Metrology ace hit on the first throw but missed the second and this time Greg Mullinax rebounded for ICO, with 10 seconds to play.

After calling time out the league champs worked the ball into Hal Stafford for a final shot but the lay up fell away at the buzzer.

Thomas topped the Stars in scoring with 21 points, Woods collected and Rice added an even dozen. Bogue, the league's premier scorer for the last three years, topped ICO with 24. Vandy Cobb

hit for 16 and Mullinax collected 15 more.

Each team connected for 30 shots from the field with the

Stars gaining their final advantage by getting two more free throws than ICO and making both of them good.

## Harold's Plans Tournament At Huntsville Country Club

Harold's Handicap Golf Tournament will begin in Huntsville at the Huntsville Country Club April 8.

Members of the Redstone Arsenal Officers Wives Golf Group who plan to enter the tournament must have their handicap posted by March 24 and submit their entries and fees to Mae Levaas by March 28.

The second round will be on April 9 at the Colonial Country Club; the third round is at Redstone Ar-

senal April 16, and the final round at Willowbrook Country Club April 17.

Practice rounds may be played the last week in March and the first week in April by arrangement with the pro of each country club.

## Hi-Counts Blow Chance For Lead

First place in the RSA Mixed League is still the sole possession of the Bombers but only because the Hi-Counts were not able to take advantage of a golden opportunity.

The cellar-dwelling Boosters provided the chance for the change by knocking off the leaders, 5-4, while the D-Yanks kept the Counters where they were by forcing a split of their nine points.

Frank Duvall led the Booster coup with a 538 count while Ray DeBolt held the leaders in contention with a 524 and Alene Vanderheyden collected 508 sticks for the highest pin count for the women.

The Yanks took their lead from Ernie McClure who smote a 545 while Tom Wilkerson was high for the Counts with 521 and Louise Martin hit for 489.

The best individual efforts of the week were turned in the other two matches which saw the Spurts take eight out of nine from the Redstones and the Pin Droppers levelled the Boll Weevils by the same margin.

Bob Nix turned in a 571 tally in the winning Pin Dropper attack while Roy Parmalee was close behind with a 550 in the losing Redstone cause. Bill Jensen topped the Spurts with 520 while Bill Sterling shot a 531 for the Weevils. Ralph Nearhoff tossed a 534 in support of Parmalee for the Redstones.

## Bentley Sweeps Ten-Pin Honors

A rousing 230 opener launched Bill Bentley into a 615 orbit enabling the hot-shooting Chief to make a sweep of the Supply and Maintenance League scoring honors last week.

Not only did Bentley account for the highest scratch game and series, but his 694 handicapped total earned the league's Bowler of the Week trophy. It was the second Honor Roll count of the season for Bentley.

John Weaver put together a 585 to go along with Bentley's pin spilling to get the Chiefs an even split with the front-running Renegades. Fred Stewart pounded out a 550 and Bob Adams added a 546 for the leaders.

The runner up Reba Bowling Apparel five found the going even rougher and dropped three out of four to the Pin Busters. Tom Lindsay shot a 554 and D. B. Smith connected for 541 in the losing effort.

The All-Sports put together the top team effort with a 2983 that was good for three points from the Cracker Jacks. Ray Herlston top-

## Golfers Complete Plans For Season

The league rules, schedule and prize list will be up for adoption when the members of the P & P Golf League meet for a final pre-season meeting next Tuesday evening.

J. B. Nelson, newly elected president of the loop, will preside over the meeting at the Piedmont club house starting at 7. Nelson invited all league members to attend the important meeting and said that at least one member of every team should be present.

Floyd Clark returns for another term as secretary-treasurer of the highly successful league and Lee J. Keim was elected chairman of the rules committee.

The league is tentatively scheduled to open play at the Piedmont Par 3 course on Tuesday, April 8, with 22 duos competing for the title won last year by Harold Madry and Lloyd Chapman.

ped the Sportsmen with 572, Chuck Nipper shot a 562 and Chet Wysocki southpawed a 556 count.

Garland Kinslow was the second highest individual scorer with a 583 that for the Baker Realtors three points from the Bushwhackers and Irv Kellogg turned in a 541 as the Dragons split with Tad's whose Al Sarge shot a 545.

## Football Coach Proves Good Guy Can Win Too

It isn't true what Leo Durocher once said that "Nice guys finish last." "The Lip" obviously hadn't met Tom Cahill.

Call it personal magnetism, rapport, folksy, or even down to earth, there is an aura of leadership about the Army football coach that endears him to fans and players alike.

The personable Irishman came to Redstone last Friday to help local alumni and boosters celebrate the 167th anniversary of the Military Academy. While here he met with the press, spoke at a luncheon attended by coaches and players from Huntsville area high schools, and was the guest speaker for the Founder's Day dinner that evening.

Obviously enjoying his work and delighted at the chance to make new friends while spreading the West Point story, Cahill was warmly received.

"How did such a nice guy compile a 23-7 record over the past three years while playing against many of the nation's top collegiate powers?"

He'll tell you—as he did last week that winning football demands talent, but it also requires sacrifice and players who are willing to "pay the price."

"Too many kids nowadays," he philosophized, "aren't willing to pay the price. They merely ask 'What's in it for me?' They mea-

sure their success in dollars and cents, and they are some of the unhappiest people that you'll ever see."

Make no mistake—Coach Cahill is no softy. He is a master organizer, a stickler for details, and a staunch believer in fundamentals. "Head knocking is the name of the game," he'll tell you.

He is also a perfectionist when it comes to conditioning.

"Most of the teams we have met had us outmanned," he said, "and we had to make up for it with discipline and conditioning. In a lot of our games we have come from behind to win in the last quarter."

"One other thing we have going for us," he emphasized, "is tradition and spirit. After all, it's not how big you are, but how tight you are wound."

What are the prospects for 1969? "We hope to have a representative team," he said, "we have 14 lettermen returning. However," he added, "it's difficult to predict since we haven't had spring practice."

"I thought last year's team (7-3) was a representative one. Actually it was one of our better teams although it compiled our poorest record." (Cahill's first two years resulted in 8-2 records.)

Cahill told the young men at the luncheon that, "although we can give you a \$40,000 education, not every boy should go to West Point. Not every boy knows what he wants."

"In fact I was the only young man to know exactly what I wanted to do at age 18," Cahill said in mock seriousness, "I wanted to be a doctor," he laughed.

Army football fans shouldn't worry too much about the future. Cahill is tightly wound.

## Two Teams Stalemated

In the 9-hole scramble among the Redstone Officers Wives Golf Group last week, two teams tied for first place.

The first team had Sue Holland, Midge Clisson, Joy Mundy and Ann Dorris and the other Camille Schlendering, Alma Hendley, Marie Malochek and Carol Saccuzzo.

Afterward approximately 75 golfers lunched at the Redstone Officers Open Mess where Pro Larry Willige announced a beginners clinic will start at 9 a.m. March 20 and will last 6 weeks, and an advanced clinic of four-weeks duration will begin at 10:30 a.m. the same day.

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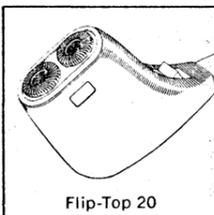
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# Missile Command Battles D Company For Title

## Second Game Of Military Playoff At Post Gym Tonite

The second of three games to decide the Unit Level basketball championship is set for tonite with the Missile Command going up against the D Company five from the Missile School.

MICOM captured the American Division title of the league race with 15 consecutive victories while D Company won eleven out of twelve on their way to the National Division crown.

The two teams met in the opener of the playoff last night and if the third game is necessary, it will be played tomorrow evening at the Post Gym.

MICOM prepped for the playoff with their most devastating display of scoring power of the season in racing to a 124-49 win over the 200th Ordnance. D Company had considerably more opposition before hanging up an 80-65 win over the Eighth ETC.

Ten games, highlighted by an overtime duel between the Ninth and Second ETC quintets, were played last week as the regular season schedule nears the end.

The Ninth and Second battled to an 80-80 draw through four periods before the Ninth rallied to claim a 92-86 victory in the extra period.

The scores and leading scorers in last week's games were:

Sixth ETC-69 (Williams, 19); Gideon, 19; Jones, 18)—A Company-69 (Brooks, 24; Viverett, 11)

5th-7th ETC-58 (Smith, 13; Craig, 10)—B Company-53 (Gustafson, 28)

Second ETC-94 (Collinaro, 21; Jones, 20; Freels, 16)—C Company-36 (Ross, 19)

D Company-80 (Simpson, 20; Bossie, 18)—Eighth ETC-65 (Hayden, 22; Lane, 17)

A Company-53 (Brooks, 20; Taylor, 14)—C Company-36 (Reynolds, 28)

522nd Ord-66 (Grayer, 25; Walker, 14)—Marines-55 (Drake, 18; Seale, 16)

MICOM-124 (Smith, 24; Glenn, 23; Schmidt, 23)—200th Ord-49 (Grissom, 19; Cannino, 15)

Ninth ETC-92 (Milton, 33; Wafer, 23; Bartlett, 22)—Second ETC-86 (Miller, 21; Jones, 20; Immanuel, 16)

Eighth ETC-67 (Battle, 26; Lane, 14)—5th-7th ETC-59 (Gray, 20; Peens, 14)

1st-4th ETC-85 (Mowry, 33; Liones, 24)—Sixth ETC-60 (Jones, 20; Williams, 13)

### Redstone Recreation Trips Filling Charters Very Fast

Three of Redstone Recreation Association's group trips are well on their way to setting records for the local group. Announced only a few weeks ago, the Las Vegas Flight scheduled for May 8-11 is at the half-way mark. A total of 80 spaces were originally available.

Consisting of round-trip air fare, a room at the Thunderbird, and airport transfers, this trip is priced at \$165. Information is available from Nora Zeman at 877-3011 during the day, and 881-3779 after 5 p.m.

Also at the half-way point is a trip to Grand Bahama Island, set for June 14-18. This includes round-trip air, a room at the beautiful Lucayan Beach Hotel, meals, a greens fee per family member, a rum swizzle party, airport transfers, and Bahamian departure tax, for \$187.50.

Information about this trip can be had by calling Bob Hutchinson at 876-8185 during the day, or Nora Zeman at 881-3779 after 5 p.m.

Although scheduled for departure from Huntsville July 15, a two week tour of Europe is past the



**EXTENSION COURSE CERTIFICATE**—Patricia A. Redfield holds the certificate which shows she has completed 132 hours of home study on Defense Procurement Management from the U.S. Army Logistics Management Center at Fort Lee, Va. The certificate was presented by Col. S. C. Holmes, Director of the Missile Command Procurement and Production Directorate. Miss Redfield is assigned to the Systems Contracts Division A, Procurement Operations, P&P.

## Long Rest Fails To Slow Big Bob

Bob Lindeman hasn't been in the Tiger lineup regularly this season and there are a few of the rival AMC teams that are wishing Big Bob would stay home every week.

The Metro-Cals joined the community of well-wishers last week when Lindeman showed up after missing six weeks and proceeded to gun down 587 sticks with consistently strong 200-190-197 run.

The 3 to 1 loss was a stiff blow to the Metrology Lab quintet who had crept to within three and a half points of the front running Bombers.

The same fate befell the runner up All-Sports in their duel with the Avengers while the leaders turned a sweep of the Travellers into a neat profit. The Sportsmen now trail by six lengths with eight points separating the next eight competitors in the 16-team loop.

Eulas Gilbert cut down 555 maps and Jerry Keagy got 547 more in the Bomber coup while Ken Bell paced the All-Sports downfall with 543. Lee Keim smacked out a 561 and Harold Madry clipped 558 more for the Sportsmen.

The Voyagers tied the Metro-Cals and sent the T-Birds spinning into a sixth place tie with a sweep and the Alley Cats doled-out another blank with the Womers on the receiving end.

Jim Galbreath topped the Voyagers with 569 and Joe Powell helped him along with 543.

Jack Vickers stroked a 537 but it only got one point for the Spartans from the Rejectors and Art Wilson equalled that as the Bandits dropped three to the Raiders.

## New Arrivals

PVT and Mrs. Gary W. Newby, boy, Shawn Mitchell, March 1.  
PFC and Mrs. Raymond T. Huesemann, girl, Jane Elizabeth, March 3.

CPT and Mrs. Thomas L. Sands, boy, Robert Leonard, March 4.  
CPT and Mrs. Chester L. Foster, Jr., girl, Kerrie Melissa, March 5.

SP4 and Mrs. David Medovich, girl, Deborah, March 5.  
SP5 and Mrs. Johnnie L. Jenkins, twins, Jeffery Lee and Valerie Leanne, March 5.

PFC and Mrs. Johnny W. Horton, girl, Vonda Orlynn, March 5.  
PVT and Mrs. Ronnie F. McCrary, girl, Sherell Lynn, March 6.

half-way mark in reservations. This trip includes round-trip airfare from Huntsville, land transportation in Europe, hotel, meals, tour fees, baggage handling, airport transfers, and airport taxes for \$650.

Information about the two weeks European Tour can be had by calling Mary Lou Easterday at 534-3692.



## Theatre Schedule

WED., March 12  
"Killers Three" (M)  
THURS.-FRI., March 13-14  
"The Betrayal" (M)  
INCREASED ADMISSION: adults 50c, children 25c.  
SAT., March 15  
"Angel in My Pocket" (G)  
SUN.-MON., March 16-17  
"Camelot" (G)  
INCREASED ADMISSION: adults 50c, children 25c.  
Showings at 5:45 and 8:30 p.m.  
TUES., March 18  
"Prudence and the Pill" (M)  
Two shows nightly at 6:00 and

8:30 p.m. except as noted above.  
Thursday matinee at 12:00 noon  
Sunday matinee at 2:00 p.m.

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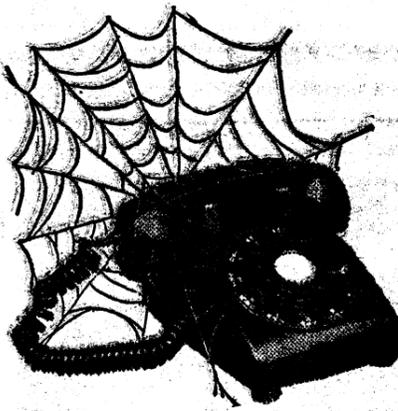
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- 1965 Mercury Sports Coupe automatic and power. \$1295.
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- 1964 Mercury Sport Cpe., vinyl top, power and air. \$1195.
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- 1966 Triumph TR-4. \$1595.

- 1966 Simca, \$895.
- 1965 VW Station Wagon, 1500 series. \$1295.
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- 1966 Chevrolet, pickup, 1/2 ton, \$1395.
- 1964 Ford XL 4-dr. hardtop, automatic with power & air, 29,000 miles. \$1195.
- 1963 Chevrolet Impala Sports Coupe, automatic with power. \$1195.
- 1966 Pontiac Bonneville Station Wagon, 9 passenger, power, air, auto. \$2395.
- 1951 Chevy. 1/2 ton pickup, a real good truck. \$395.
- 1968 Chevrolet, Impala Coupe, V-8, automatic, power, air. \$2995.
- 1960 Fiat 4-door a real good one. \$345.
- 1966 Triumph Mark II Spitfire. \$1295.
- 1963 VW Sedan \$795.
- 1959 VW Sedan \$295.

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# Whether It's Right Or Wrong, It's Weather

Everywhere on Redstone and every season of the year, people talk about the climate in their buildings, either because of their personal comfort, or because they are concerned about the environment for missile research and testing.

Talk to the men in the Arsenal Support Operations Directorate's Post Engineer Refrigeration and Air Conditioning Section about this controversial subject and they quickly tell you how it is from their point of view.

They like their work. "We get Freon in our blood," said one of the supervisors. Their work offers a constant challenge because of the wide diversity of equipment. "We have to keep learning every day, or we'd soon be behind the times technically," is their consensus.

Some parts of their crews' job descriptions read like the inventory for a high class hardware store! For they must either maintain or direct maintenance and calibration of tubes, thermostats, thermocouples, breaker points, filters, valves, gaskets, condensers, and much more.

For their purposes, the Army part of Redstone, like Gaul, is divided into three parts from the Tennessee River to Squirrel Hill. Hueston Spencer supervises the

men who keep the heat, cold air and humidity under control in buildings he terms "south of the border." His bailiwick is all the area south of Redstone Road, so includes the Research and Engineering Directorate's test facilities.

He and his men must respond to the needs of the engineers to get the environmental test chamber set at the proper temperature and humidity levels — technical needs run from 125 degrees below zero to 200 degrees above for temperature, and from 100 percent to as little as one or two percent for humidity.

Spencer, a capable appearing young man with a sly sense of humor, says he picked his vocation by accident. After finishing three years in the Army he looked for a job and found one in refrigeration. He has attended a refrigeration school, and has been at Redstone 16 years.

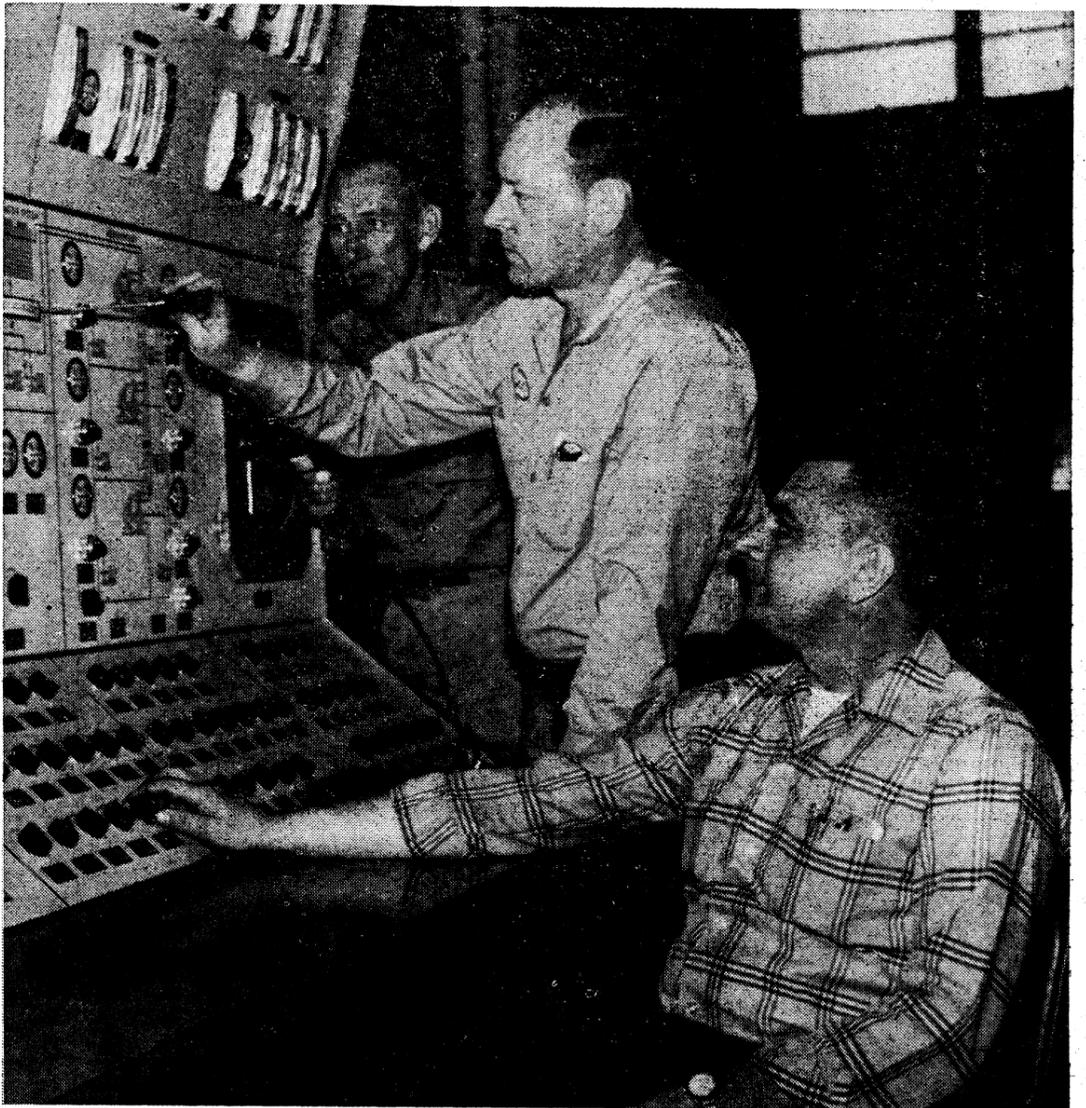
On up the road toward the center of Redstone is T. J. Taylor's realm of climate control including the Army Missile Command headquarters, parts of the Army Munitions Center and School, and areas near there.

He has 20 years of Government service in all with his three and one-half years in the Army with the aviation engineers in the South Pacific.

When he came home to Huntsville after the war, he went to Alabama A&M and was graduated from the mechanical arts department. Soon after he came to work for the Army, he started refrigeration work.

"I'm a licensed electrical contractor and have done some refrigeration work in off duty hours,"

(Continued on Page 9)



TEMPERATURE CONTROLS—Refrigeration and air conditioning mechanics, Billy Hardin and Eugene Cooper, standing, work with their supervisor, Charles Isbell, seated, to check the calibration of the panel which controls the temperature in a major portion of the McMorow Laboratories of the Army Missile Command. They are all employed by the Post Engineer.

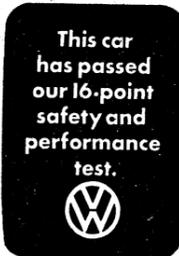
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- 1965 VW SEDAN, red with light gray interior, radio, white tires. Only ..... \$995.

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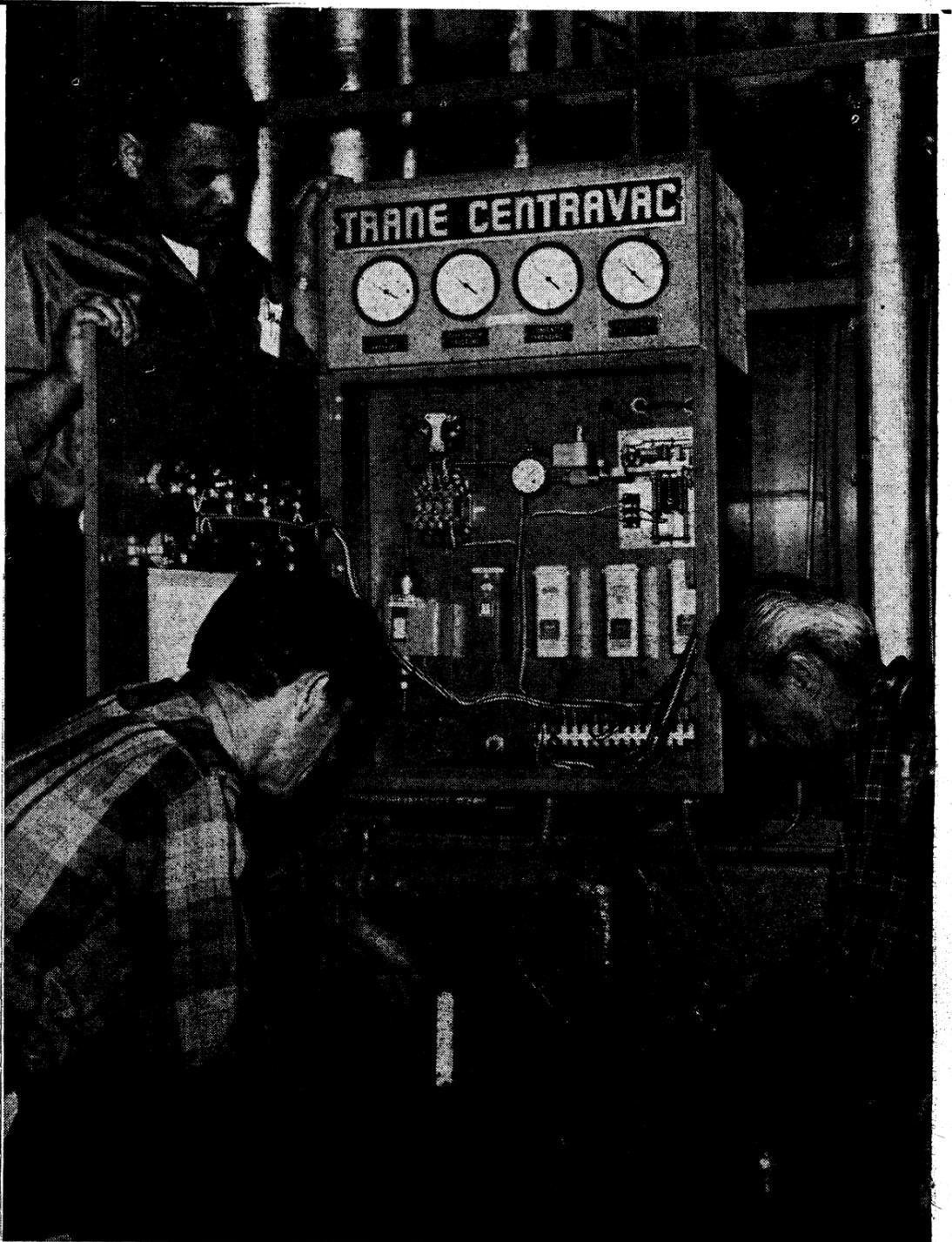
**1964 Karmann Ghia Cpe.**

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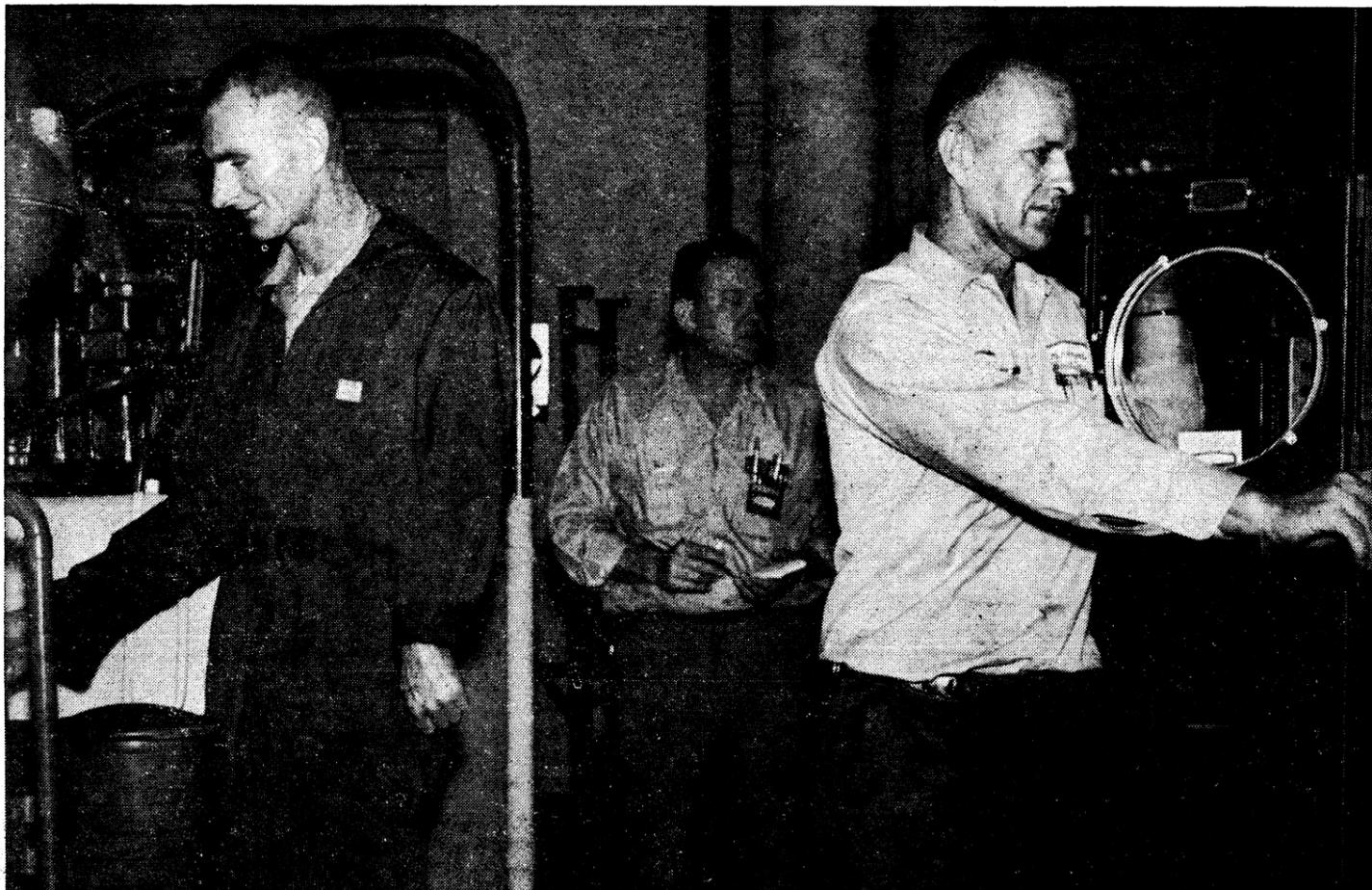
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COOLING FOR MISSILE COMMAND HEADQUARTERS—T. J. Taylor, upper left, the supervisor of the refrigeration and air conditioning mechanics in the area where the Command headquarters is located, watches his men, T. J. Dixon and Archer Chrisman, left to right, adjust the 800-ton air conditioning unit for the building. The men are from the Arsenal Support Operation Directorate's Post Engineer.



**KEEP MISSILES HOT OR COLD**—The environmental chambers for putting missiles through their paces to see how they react under intense heat or cold are kept in operation by the men in the Post Engineer Refrigeration and Air Conditioning Section.

Here, Loy H. Taylor and Edward Colvett, left to right in the foreground, check equipment as their supervisor, Hueston Spencer, makes notes on their findings.

## PAPER PIPELINE FROM VIETNAM

SACRAMENTO ARMY DEPOT, Calif. (ANF) — A comparatively simple idea seems destined to save American taxpayers countless thousands of dollars and also improve the flow of repairable equipment back to the troops in Vietnam. The device is called a "Jiffy Bag."

It is little more than an insulated envelope of varying size, properly addressed to the Sacramento Army Depot. When an electronic component in the field breaks down, it need only be dropped into the Jiffy Bag and sent on its way. There is no red tape, no forms to fill out, no duplicate copies of anything. The ailing parts go into the bag and quickly head for state-side.

The Sacramento Army Depot has an enviable history of repairing electronic equipment for a fraction of their replacement cost. Thus, the Jiffy Bag is becoming an extremely effective tool in helping them fulfill their important mission of supply and maintenance of vital equipment for the combat soldier in the field.

## WHETHER IT'S RIGHT OR WRONG

(Continued From Page 8)

Taylor said. However, as his responsibilities at Redstone increased, he had less and less time for private business.

He reflects competence and assurance about what he is doing, and appreciates the difficulties of his assignment without losing his cheerful, calm demeanor.

The third supervisor is Charles B. Isbell, a young man with a lively interest in his job. "So many different things can happen to keep my interest going, there's never a dull moment," he remarked.

He directs the men who take care of refrigeration and air conditioning in most of the family housing area, the hospital (which requires close attention), part of the MMCS area, the Metrology Center and the McMorro Laboratories.

Isbell started as an apprentice in refrigeration and air conditioning 15 years ago. He spent 21 months in the Army during the Korean War.

Spencer, Taylor and Isbell all hold positions that require planning and assignment work to the proper men for the tasks. They have to use their own judgment about changing methods and procedures to fit cases.

There are 1000 household refrigerators to keep going, and 14,000 tons of air conditioning in all kinds of sizes and shapes from window units to large, complicated equipment.

Because the equipment comes from many different manufacturers, it calls for different techniques for maintenance and repair. The men do not enjoy easy work-

ing conditions. Although they normally work inside, they have to watch out for electrical shocks, explosive gases, injury from work-

ing around machinery, and in noisy environments.

If they didn't like it as much as they do, they just couldn't do it.

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## CIVIL SERVICE HAS JOBS IN TRADES, CRAFT

The Interagency Board of U. S. Civil Service Examiners for North Alabama is issuing a new announcement for Trade and Craft positions at the Journeyman and Intermediate grade levels. This announcement will replace previous announcements issued for these type positions.

The purpose of the announcement is to obtain eligible applicants to refer to vacancies in trades positions in the North Alabama area. Vacancies occur from time to time usually as the result of retirement or resignation of present employees. The largest number of wage system positions is at Anniston Army Depot and Fort McClellan. The Army Missile Command, Redstone Arsenal, and the Veterans Administration Hospitals at Birmingham and Tuscaloosa also have these type positions. A few trade and craft employees are employed by other federal agencies in North Alabama.

Persons wishing consideration for federal employment where vacancies occur should file their applications under this announcement. No written test is required.

### CARD PUNCHERS

The Board also has issued an announcement for the position of Card Punch Operator, GS-2, \$4231 a year, GS-3, \$4600 a year.

Applicants must pass a written test covering verbal abilities and clerical abilities and an appropriate performance test to demonstrate familiarity with a typewriter-style keyboard.

Vacancies in all federal agencies and installations in the 38-county area serviced by this Board will be filled from registers established as a result of this announcement.

Most of the positions are for shift work; and the majority of initial appointments are for duty on the second and third shifts. First shift positions are primarily filled by reassignment of those employees currently working on the second and third shift.

For further information concerning this announcement, contact the Federal Job Information Center, 806 Governors Drive, S.W., Huntsville, Alabama, 35801.

## Negotiations Short Course To Be Held

A 20-hour "Truth in Negotiations" course will be offered at the University of Alabama in Huntsville March 17-21.

According to the Training and Development Division of the Army Missile Command's Civilian Personnel Office, two sessions will be conducted: Session A from 8 a.m. until noon, Session B from 1-3 p.m.

The course covers Public Law 87-3653 and the objective is to instruct both government employees and those of industry as to what constitutes compliance with the statutory requirements from their respective points of view.

Instruction is designed to aid both experienced negotiators and novices. Details can be obtained from the Training and Development Division: H. G. Allen, 876-5850.



AMC BOARD MEETS AT REDSTONE—In a discussion with Maj. Gen. Charles W. Eifler, Commanding General, Army Missile Command, are members of an Army Materiel Command (AMC) Board Team from Aberdeen Proving Ground, Md. They were at Redstone on an AMC study to determine the impact of total package procurement on Army Integrated commodity management. From left are: Lt. Col. Merton H. Phillips, 2nd Lt. Roy F. Pearson, and Lt. Col. Morgan W. Snow.

Charles says:

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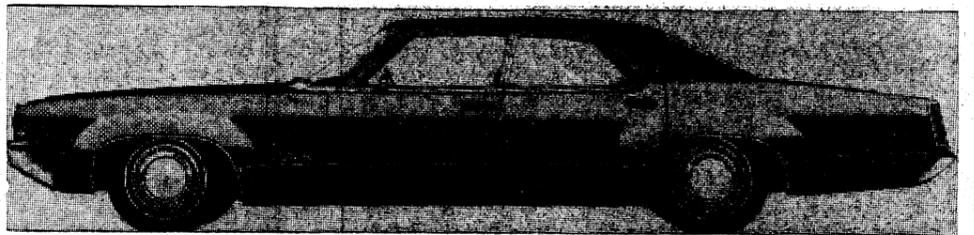
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- Undercoating

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- L30 Rocket 455 V-8 Regular Fuel Engine 2881
- M40 Turbo Hydra-Matic Transmission-400
- N30 Deluxe Steering Wheel
- N40 Roto-Matic Power Steering
- P26 Whitewall Tires
- U29 Instrument Panel Courtesy Lamps
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**RECEIVES SON'S MEDALS**—Medals awarded posthumously to Sgt. Roger D. Justice were presented to his mother, Mrs. Beulah Justice of Rt. 1, Joppa. Included were the Bronze Star, Army Commendation and Good Conduct Medals. Making the presentation was Capt. John R. Haag, Assistant Survivor Assistance Officer for the Army Missile Command at Redstone Arsenal. Sgt. Justice was a member of the 82d Airborne Division when he died on Nov. 5, 1968. In addition to his mother, he is survived by five brothers and five sisters. Medals previously awarded to Sgt. Justice are the National Defense Service Medal, Vietnam Campaign Ribbon, Combat Infantry Badge and the Parachute Badge.

## Alabama Industrial Medical Association Meets In Area

The Alabama Industrial Medical Association met at the Sheraton Motor Inn in Huntsville March 7-8.

During the first afternoon the group of approximately 30 state industrial medical officers toured occupational health facilities at the Army Missile Command and Marshall Space Flight Center before holding a business meeting which included election of new

officers. Dr. Lee B. Grant, corporate medical director for Pittsburgh, Plate Glass, Inc., in Pittsburgh, Penna., was the scheduled speaker for the Friday night banquet.

Three papers were presented Saturday. The first was "Pulmonary Toxicants in Industry," presented by Douglas MacEwen, SysteMed Corporation, Toxic Hazards Research Unit, Aerospace

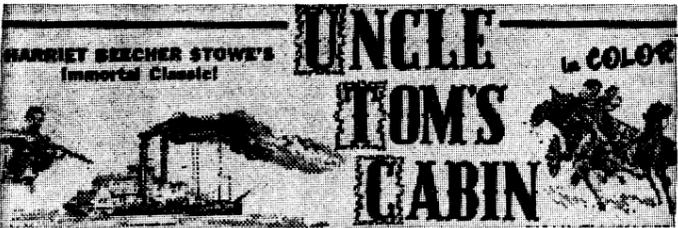
Medical Research Laboratories, Wright Patterson Air Force Base, Ohio. The second was "The Risks of Inductive Reasoning in Occupation Health" by Dr. Peter B. Peacock, Professor and Chairman of the Department of Public Health and Epidemiology from the University of Alabama's Medical Center in Birmingham.

The final paper, "Comprehensive Pre-employment Examinations with Special Reference to Back Problems and Psychiatric Evaluation" was presented by orthopedic surgeon, Dr. Gilbert R. Melson, consultant for Reynolds Metals Company and TVA in Florence.

The group was organized in September 1968 with Dr. Burton S. Shook, Sr., Chief of the Army's Occupational Health Program at the Army Missile Command, the first president, and Dr. Wallace B. Frierson, Chief of the Marshall Space Flight Center facility, outgoing secretary-treasurer. Dr. Frierson is the new president-elect.

### ALABAMA THEATRE ON THE MALL

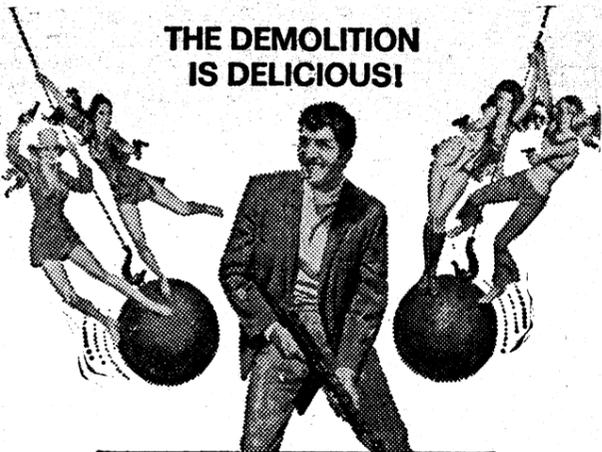
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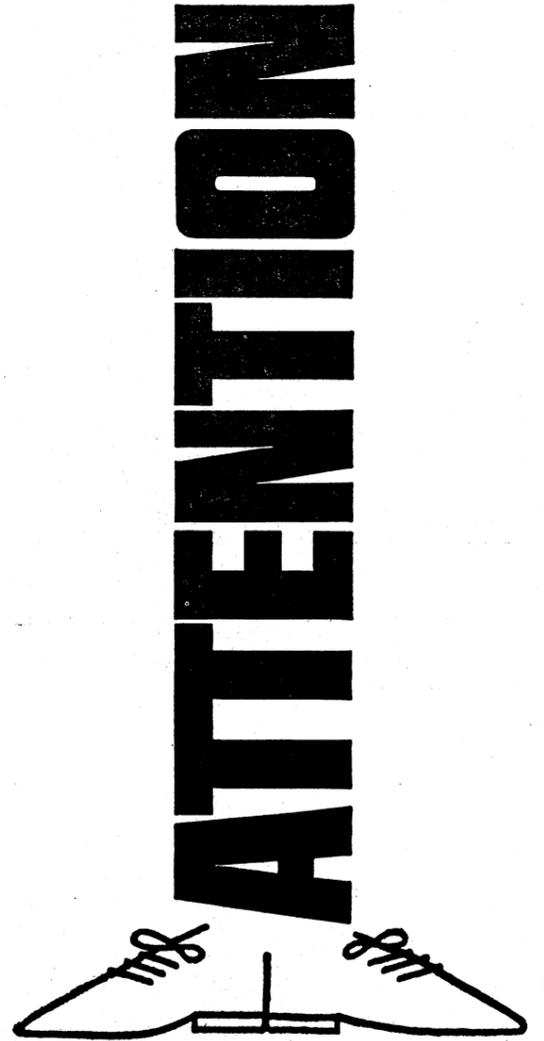
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# ICO And SAM-D Quintets Await Final Opponents

A pair of Friday encounters will set up the challenge round for both divisions of the post season tournament being played by Civilian Welfare Fund basketball league quintets.

ICO reached the final game of the first division with a 75-71 win over Finance and Accounting while SAM-D had already made it to the challenge round in second division play.

The ICO opponent will come from either the Accountants or Engineering QA. The two go at it in the second game of the Friday double bill with the winner taking on the league champions next Tuesday.

A similar set up prevails in the lower half of the league with Supply and Maintenance pitted against Sentinel on Friday for the right to take on SAM-D on Tuesday.

QA sent Data Processing to the side lines with a 69-56 setback last week after DPO had eliminated Missile Intelligence, 51-41, earlier in the week. The only second division contest of the week saw Sentinel knock the Procurement and Production five out of the running with a 46-23 defeat.

For the second time this year the Accountants battled the unbeaten ICO crew on almost even

terms only to bow out by four points. The regular season winners led from the start and were ahead 39-30 half way through.

However, Elliott Agee sparked an F & A surge at the start of the second half that finally took the lead near the end of the third period, 55-54. The rivals traded buckets through most of the final period before George Starkey hit a pair of goals to boost ICO to a 75-69 lead less than a minute from the end.

Greg Bogue topped the winners with 19 but he had plenty of help from Jim Bunnell with 17, Jerry Mullinax with 16 and Starkey with 12. Agee poured 25 counters through the nets in the losing cause, Fred Smith hit for 21 and Danny Franklin collected 16 more.

Bill Bentley took almost complete control of the backboards on both ends of the court to spur DPO to their win over MID after the two teams had fought to a 24-24 standoff during the first half.

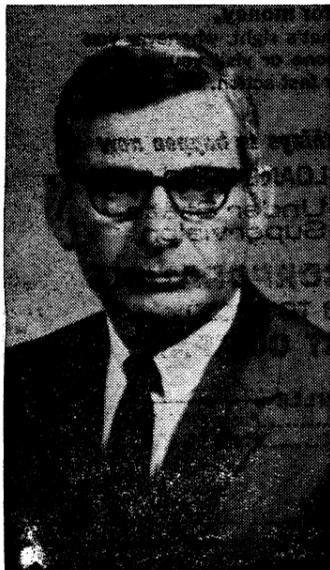
Bentley ended the game with 21 points and Alton Maddox added 12 more for the winners while Mel Thomas paced the MID attack with 14 and Curt Gentry hit 11 more.

QA returned the favor later in the week when Don Woods dominated the rebounding as the Engineers eliminated DPO. The winners led by 13, 34-21, at the intermission and made their winning margin stand through the last two periods.

Woods connected for 23 points with most of his goals coming from under the goal. Ron Washburn collected 12 in support of Woods while Maddox and Virgil Arnold got 13 apiece and Bentley collected 11 for DPO.

Sentinel had little trouble in dispatching the P & P five to the sidelines when the losers found a lid on top of their goal and were only able to hit two shots from the field during the first half and trailed 23-8.

Wayne Smith collected 12 points to top Sentinel and John Clark was next in line with 10. Wes Allen topped P & P with 8.



**TAKES J. D. DEGREE**—Recently awarded a Doctor of Jurisprudence degree from the Rutgers University School of Law was Dr. Julian S. Kobler, deputy chief of the Technology Planning Office, Future Missiles System Division, Research and Engineering Directorate, Army Missile Command. A registered professional engineer, Dr. Kobler had previously received a Bachelor of Laws degree from Rutgers and holds a Bachelor of Arts degree in metallurgy from the University of Pennsylvania.

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**VIETNAM SERVICE AWARD**—James W. McCord, right, of the Procurement Requirements and Production Division in the Missile Command Procurement and Production Directorate, receives a medal and certificate in recognition of his civilian service in Vietnam for one year. Col. S. C. Holmes, Director of P&P, made the presentation.

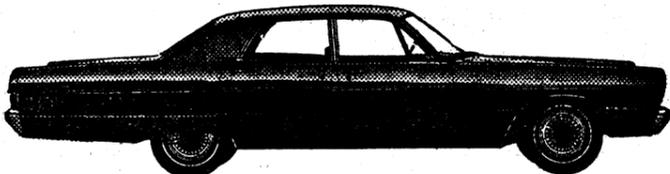
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**TRENDS**

(Continued From Page 4)

senting a list of most to least favorable. The computer's capacity can also be applied to a multitude of other tasks. For example, commanders can use the computer's help in evaluating combat readiness, supply capabilities and intelligence.

● **Equipment reliability.**

Reliability of equipment is becoming an absolute necessity as maintenance becomes more complex and costly. Designing with maintainability specifically in mind is increasingly important, as is more sophisticated and reliable diagnostic equipment. We must be prepared to pay for this product in initial investment costs, confident that in short order we will be able to amortize the investment by savings in logistics support and manpower.

● **Manpower costs.**

There is a growing realization of the total cost of manpower. This realization leads to pressures to get more utility from each soldier and to reduce the numbers needed.

These trends—I have enumerated eight, but there are others of significance—will be the Army's bench marks in calculating its future needs and in applying tradeoffs where required.

I would like to expand a bit on total cost of manpower, since it is the dominant cost factor in weapon system cost-effectiveness analyses.

The average annual base pay of a soldier is approximately \$3,000. To this must be added the cost of his individual equipment, his retirement and insurance benefits, his upkeep, food, medical support, housing, etc. Thus, the total annual cost averages out at \$6,830. As most weapon systems have at least a 10-year life, we equate their manpower element for a similar time span. Our single soldier cost now becomes \$68,300 in a weapon system life cycle. With a thousand soldiers—roughly, only one battalion—that means \$68,300,000. We can buy a lot of hardware for that kind of money if it can be manned and serviced with substantially fewer people than the hardware being traded off.

There is still another aspect of post-Vietnam weapon systems introduction that is of special concern to industry. I call it cost constrained programming.

It is quite clear to me that the end of the Vietnam war will be accompanied by two conflicting resource positions. On the one hand, the Army can expect to be pressed hard to reduce its spending. At the same time, some of the new systems, such as Sentinel, Cheyenne, and MBT-70 (the new main battle tank) will be reaching the production stage with their high price tags.

That portion of the gross national product which is devoted to defense appropriations may be considered an expression of the American public's concern with the perceived threat to our national security. The percentage varies from year to year, but a general trend can be observed over time (barring a general war situation) which establishes a limit to the amount the nation is willing to spend on defense. In the non-war years, within the Army's portion of the defense appropriation, we have been spending about 20 percent of our dollars for military hardware and ammunition. If we start with the limits we can derive from an economic analysis of our budget projections, we may find that priorities are easier to establish for the total mix of our hardware.

As an example of how this type of analysis can constrain a single

developmental system, it may be useful to look briefly at the case of the mechanized infantry combat vehicle, a member of the combat tracked vehicle family. The armored personnel carrier currently in the Army inventory was developed in the late 1950s. It was introduced in quantity in the early 1960s. As a rule of thumb, it is reasonable to expect a major item to have a useful life of about 12 years. On that basis, we should now be along the road toward development of a personnel carrier to be introduced in the mid-1970s. The Army has, in fact, established the military requirements and obtained data from industry which has shown us some attractive designs. These promise to give us more room for our infantrymen and their weapons in a much higher performance vehicle that should be able to live quite a bit longer on the battlefield and, at the same time permit more tactical innovations than our current carrier. However, the new carriers cost quite a bit more money. They cost so much more, in fact, that we sent a requirements group back to the drawing board to give us a greater visibility on each improvement feature. We want a vehicle with performance characteristics meeting our most desired requirements and at a total systems cost which can be defended. We also want a vehicle that can be procured in priority competition with other systems.

This example illustrates only one of the techniques which we must refine. We must also examine procurement schedules for high cost programs and examine operating cost savings versus procurement expenditure tradeoffs.

Turning now to different approaches, we must improve our ability to tap the resourcefulness of industry along the path of product improvement, which offers substantial pay-offs for relatively small investment. Another path—a path that is somewhat overgrown because it has borne insufficient traffic—is the utilization of existing inventions and systems in unconventional ways. Modern industry, as the greatest family of innovators, in our history, could be very useful in assuming initiatives in these areas.

As we look ahead a few years, there are positive trends of tactics and associated hardware, support,



**KEEP YOUR HEAD UP, TOZ**—2nd Lt. Henry Toczylowski uses a model of the Pershing missile in explaining his present occupation to his football coach at the U.S. Military Academy, Tom Cahill. A defensive back on the West Point teams of 1966 and 1967, Lt. Toczylowski is now attending missile maintenance classes at the Army Missile and Munitions Center and School.

**National Guard, Reserves Upgrade Officer Standards**

The Secretary of the Army has directed certain actions be taken to enhance the qualifications of the Army National Guard (ARNG) and the United States Army Reserve (USAR) officer corps.

Based on a review of the recommendations made by a Department of the Army study group, headed by Brigadier General James F. Hollingsworth, the Secretary of the Army has approved the following:

First, the Career Management and Personnel Management of ARNG/USAR officers will be modified. This will insure that only those officers who meet and maintain established objectives and who are required for mobilization are retained in an active status. Also, a complete review of current assignments policies will be made along with a review of the missions and responsibilities of staff agencies and headquarters concerned with ARNG/USAR ac-

Second, a records monitoring system will be established to support the improved Personnel Management system. This system will centralize the control and review of USAR officers' efficiency reports. An annual review of records will be made at DA for all active reserve status ARNG/USAR officers.

Third, the vitality of officer corps of the ARNG and USAR will be enhanced. This will be accomplished by developing a comprehensive acquisition and retention program, improving the standards for promotion of all officers, Federal recognition of ARNG officers, and by establishing clear and equitable general officer promotion criteria.

Fourth, a complete review will be made concerning the current advisor systems for the ARNG and USAR. This review will identify the most effective means for providing the Guard/Reserve with adequate advisor support.

activities.

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## Teacher Examination Will Be Held At University

The University of Alabama in Huntsville has been designated as a test center for administering the National Teacher Examination on April 12. Michael LaBouve, director of admissions, announced.

College seniors preparing to teach and teachers applying for positions in school systems which encourage or require applicants to submit their scores on the NTE along with their other credentials are eligible to take the tests. Last year more than 98,000 candidates took the examinations.

At the one-day session a candidate may take the Common Examinations, which include tests in Professional Education and General Education, and one of the fifteen Teaching Area Examinations, which are designed to evaluate his understanding of the subject matter and methods applicable to the area he may be assigned to teach.

Bulletins of Information describing registration procedures and containing Registration Forms may be obtained at the Information Desk, Lobby, Morton Hall. Prospective teachers planning to take the tests should obtain their BULLETINS promptly, LaBouve advised. Registrations for the examinations must be forwarded so as to reach the Princeton Office not later than March 21.

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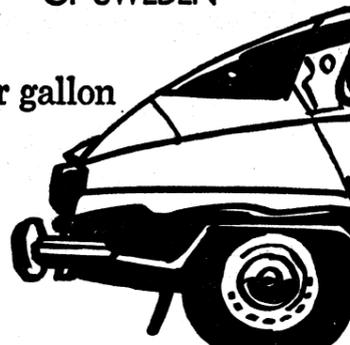
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### Sale No. 1

Sale No. 1 will be the modern 7 room home, two baths, on a one acre lot with 140' frontage on Highway 53. The home consists of 3 bedrooms, living room, dining room, den, kitchen, two modern full ceramic tile baths. It is a lovely brick home with storm doors and windows, gas and electric heat, completely air conditioned. There is plenty of room for a garden or for a pony. It is fenced and cross fenced. The front lawn is well sodded and there is beautiful shade and shrubbery on the lot. It is on school bus route and has all utilities and is in one of the finest communities you can find in Alabama. Be sure to look this wonderful buy over. Water is furnished by an everlasting well.

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# Employees Studying In Seven States To Help Advance In Career Fields

Thirty-one Department of Army civilians with Redstone agencies have been selected for advanced training courses in their individual career fields at government schools and colleges located in seven states across the country.

They left their work areas this week for the off-post training and will be away for periods ranging from three days to five weeks. The advanced study is offered to local personnel under the Missile Command's career development program administered by the Training and Development Division of Civilian Personnel.

The largest single group is in Rock Island, Ill., for study at the Army's Management Engineering Training Agency. Thirteen Redstone civilians are enrolled in four courses.

Frank Marsden (TOW), Varian Scott (P & P) and Poarch Kirkland (SENLOG) are attending the Seminar for Middle Managers, Leona Torade is enrolled for Management Statistics and Harry Ward (R & E) is studying Real Time Systems.

The other eight are attending the Top Management Seminar. They are Charles Vandiver and Kenneth Abel (SENLOG), William Horton (Prod Assurance), R. F. McGourick (P & P), William Brodeur (Hawk), John Jones (S & M), Robert Lee (Lance) and Lloyd Daniels (Metrology).

Another group was selected for advanced training at the Army Logistics Management Center, Ft. Lee, Va., where eight are enrolled in four courses.

Lavelle Samley and Christopher Robbins (S & M) are taking the Advanced Inventory Management

course, while Richard DeKalb (Pershing) is enrolled for Effective Briefing Techniques and Robert Masucci (Lance) is studying Quality Control Management.

The other four in the Ft. Lee contingent, all from the Procurement and Production Directorate, are participating in the Advanced Procurement Management class.

They are Clifton Lipscomb, Thomas Crockett, Roland Smith and Max Freudenberg.

Robert Martin (S & M) is studying on the Arsenal for the Hawk Pulse Radar course at the Missile School, and Ernest Moran is in Los Angeles for a concentrated course in Government Contracts with Federal Publications, Inc.

Two other locals are at the School of Systems and Logistics, at Wright-Patterson AF Base, Ohio. James Brannon (P & P) is taking Advanced Systems Buying and Arthur Frederick (SENSC) is studying Contractual Aspects of Value Engineering.

Five Redstone civilians are enrolled for graduate level study with the University of Oklahoma. Of these, Carl Pinyerd (Pershing), is at the March AFB, Cal., facility for Impact of Science and Technology on Public Administration.

The others are on the campus at Norman, Okla. Ernest Young (Hawk) and James Shrader (R & E) are studying Social Welfare Legislation while Robert Moore (Hawk) and Douglas Gordon (S & M) are attending the Social Science Seminar.

The final civilian on the weekly list is Howard Warren (SENSC) who is spending the week in Tullahoma, Tenn., for High Speed Aerodynamics at the University of Tennessee Space Institute.

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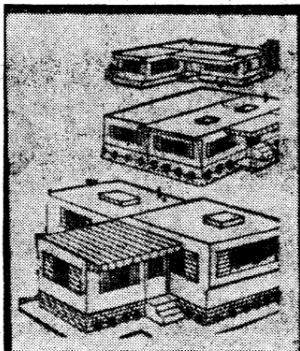
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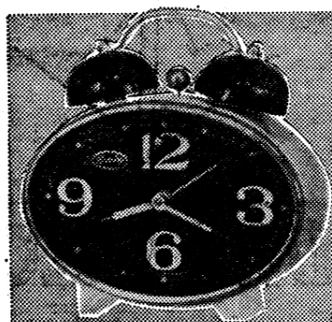
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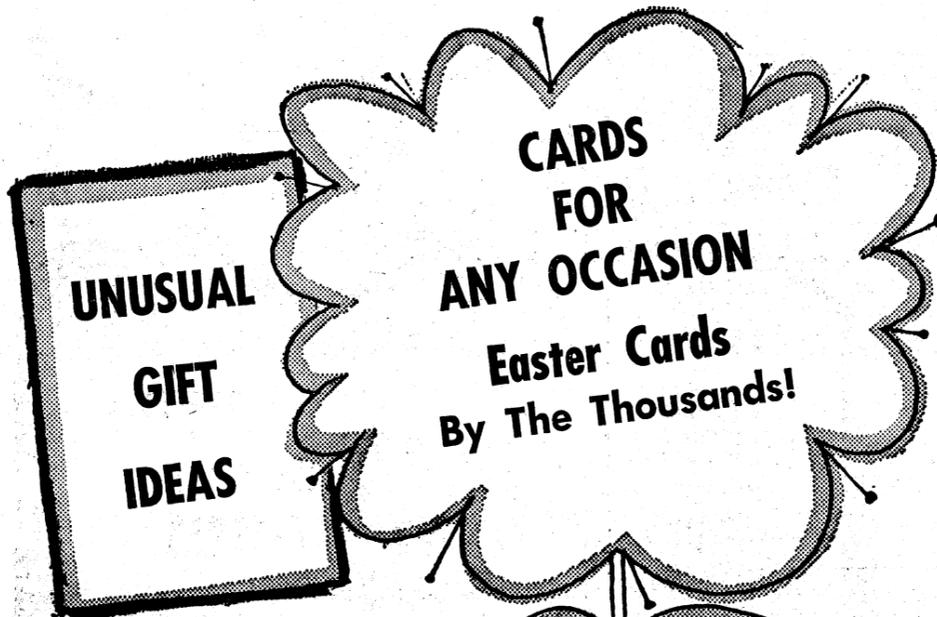
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