

THE REDSTONE ROCKET

VOL. XIX; NO. 26

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA 35809

NOVEMBER 4, 1970

Popham Will Be AUSA Speaker

John H. Popham, popular after-dinner speaker from Chattanooga, Tennessee, will speak during a general membership meeting of the Tennessee Valley Chapter, Association of the U.S. Army Thursday evening, November 19.

C.C. Lee, chapter president, said, "We are very fortunate to have this outstanding speaker for the first meeting of the 1970-71 AUSA year. He is eagerly sought throughout the southeast for his entertaining and provocative presentations."

Popham has been managing editor of The Chattanooga Times for the past 12 years.

Previously he was with The New York Times for more than 25 years, the last 12 as Chief Southern Regional Correspondent, reporting and interpreting all news events in 13 southern states, the largest domestic beat of the newspaper.

While with The New York Times, Popham covered such stories as New York City and state politics, the Lindbergh kidnapping, the Dewey criminal inquiry, the notorious underworld criminal syndicate known as Murder, Incorporated, the first session of the United Nations General Assembly at Lake Success, N.Y., and all presidential nominating conventions for 1948, 1952, 1956 and 1960.

"He utilizes his vast background of experience to comment on a wide variety of subjects," Lee said.

Popham's topic will be: "The Contemporary Crisis and Its Challenges."

Lee said that another feature of the November 19 meeting would be announcement of details for a membership campaign to regain the more than 1,500 members the Tennessee Valley Chapter is down from the 1969 peak.



JOHN H. POPHAM

At the Missile Command, tickets for the meeting are available as follows:

Staff Offices, Protocol Office (6-7135); Management Information Systems Directorate, Nancy Mitchell (6-7135); Comptroller & Director of Programs, Carol Sams (6-3305); Directorate of Arsenal Support Operations, Major Wilkerson (6-4603);

Procurement & Production Directorate, John Harrison (6-7804); Missile Intelligence Agency, Charles Thoman (6-8461); Product Assurance & Test Management Office, Dennis Vaughn (6-2588); Metrology & Calibration Center, Robert B. Smock (6-8884);

Plans & analysis Directorate, Ann Daniels (6-2778); Air Defense Systems, Jaceena Sloan (6-6161); Supply & Maintenance Directorate, Leonard Twinem (6-3298); Land Combat Systems, Maj. W.D. Kirby (6-8015); Research and Engineering Directorate, Gregory Moskoff (6-2512).

(See POPHAM on Page 3)

CFC Drive Near End

Drive officials are hopefully looking for a closing rush of contributions during the next two days to shove the 1971 Combined Federal Campaign to another record donation.

"We've still got quite a way to go, with not much time left," is the way Abner McNaron, the Area CFC Coordinator, looked at the latest set of figures on the progress of the drive.

Through last Friday the cash donations and payroll deduction pledges were lagging behind last year's total donations for the same period but the average gift per donor is somewhat higher.

Ninety-one per cent of the assigned Federal personnel in the area have responded to the annual appeal for funds with a total contribution of \$490,036. Their gifts have averaged \$28.33.

After five weeks last year a total of \$505,894 was received with 93 per cent of the assigned personnel listed as participants.

The fifth weekly report reflects (See CFC on Page 3)

Huntsville Firms Get Orders For \$900,000

Orders from the Army Missile Command for goods and services during the past month totaled more than \$13.4 million, and were exclusive of the contracts for a million dollars or more awarded for missile systems.

Huntsville firms received approximately \$900,000 worth of the business to cover purchase of such items as office and laboratory supplies, repair parts for (See HUNTSVILLE on Page 3)

Missile Command Begins Realigning

The U.S. Army Missile Command has begun realigning its organization, a process that will take at least 90 days to complete.

The reorganization will shift the Missile Command's elements into a standard structure being adopted by each of the U.S. Army Materiel Command's major commodity commands throughout the country.

In a letter to all Missile Command personnel, Maj. Gen. Edwin I. Donley, Commanding General, set Feb. 4, 1971, as the target date to complete most of the internal changes and have the command operational under its new organizational setup.

"There is a position in the new organization for every full time permanent civilian employee," Gen. Donley said. "The purpose of

this action is to realign our organization, not to reduce the number of civilian employees."

Some new command elements—offices and directorates—are being created while many others remain unchanged. The new elements are to be staffed by reassigning personnel transferring with functions they are now performing in other elements of the Command and by filling vacancies with individuals who may be excess to the needs of other organizational elements.

The Missile Command's basic missions remain unchanged.

Gen. Donley said that for the great majority of the Command's military and civilian personnel, the reorganization means, at most, a new organizational title for the

(See MISSILE on Page 3)

'We Care' Asks Christmas Help

Christmas shopping is underway for "Operation We Care" as the organization assembles gifts for patients and staff of the 93rd Evacuation Hospital in Vietnam.

"Operation We Care" is appealing to individuals and organizations for assistance in providing 750 gifts for the community's adopted hospital.

"We wish to make Christmas better for those assigned to the hospital," said Mrs. H.E. Miller and Harris T. Mitchell, Co-chairmen of "Operation We Care". "We want to show our soldiers still engaged in conflict that we

remember their dedication."

Mrs. Miller said that persons who wish to lend assistance individually or as a representative of an organization should contact her at 534-8792. She will provide details as to gift wrapping, donations, and Christmas card preparation.

"Operation We Care" was established in 1966 to provide morale items for the staff and patients of the 93rd Hospital. A music distribution system, hobby shop, patio furniture, and record players are among the major items donated and shipped to the hospital (See 'WE CARE' on Page 3)

Brothers Earn Eagle Scout Rank

Two brothers in Redstone Arsenal Boy Scout Troop 355 were awarded the Eagle in a special ceremony, Sunday.

Stephan Hollich III and Paul Hollich received the award from James Allen, who is also their ROTC instructor, during the dinner meeting at Shakeys Pizza.

Stephan III, age 16, entered Troop 355 in 1967 and accomplished three badges that year. He went on to achieve 21 badges. He has been Patrol Leader of the troop five times and Senior Patrol Leader. He had been scribe and instructor for first aid, camping, cooking, pioneering, signaling and nature. His Eagle Scout project was compiling a reading library of 127 books for younger children at the Farley Elementary School.

Paul entered scouting with Troop 355 in 1967. He has achieved 21 merit badges and the Order of the Arrow. He has been both assistant

and Senior Patrol Leader. He attained Life scout in 1969. Paul selected as his Eagle project the landscaping design and planting of trees and shrubs around the plaque placed in Brahan Spring Park by the Troop.

Stephan and Paul are sons of Mr. and Mrs. Stephan Hollich, 12712 South Memorial Parkway, Huntsville.

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FAMILY AFFAIR—It is rare that two boys of the same family attain the rank of Eagle Scout, but with Stephan III and Paul Hollich, from left, it happened on the same program. Their scoutmaster was doubly proud—he is their father, Stephan Hollich. It's all smiles as he looks over the twin awards.

The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesday. The publisher will receive editorial content for publication in the Rocket through the Information Office, Army Missile Command, Redstone Arsenal, Ala., 35809, Bldg. 5250, Room A-134, Extension 876-1400 or 876-1500.

All advertising copy and payments therefor are received by Mrs. Vergie Robinson, P.O. Box 346, Muntsville, Ala., 35804, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wanteds—is 10 a.m. Monday before publication.

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for the Rocket are \$7.42 a year, or \$4.00 for six months, tax included. Mailing arrangements may be made with the publisher, P.O. Box 520, Huntsville, Ala. 35840.

Everything advertised in this publication must be made available for purchase, use, or patronage without regard to the race, creed, color, sex or national origin of the purchaser, user, or patron. A confirmed violation or rejection of this policy of equal opportunity by an advertiser will result in the refusal to print advertising from that source.

Rocket Ruminations

Evasion is unworthy of us and is always the intimate of equivocation.
Balzac



The American Veteran

What is a veteran? More specifically, what is the American veteran?

Well, the American veteran is many things, and many people. He's both tall and short and sometimes medium. He's both rich and poor and oftentimes middle-income. He's Catholic, Protestant and Jew, and several other religions as well. He's also black, white, red, yellow and brown, and numerous shades between.

Above all, the American veteran is a patriot, and not ashamed to show it. Wherever and whenever his country's flag was in jeopardy — at Bunker Hill and Hamburger Hill, at Saratoga and Santiago and Salerno, at Lexington and Leyte and Luzon — he was there, standing steadfast to see the United States through storm and strife.

He curses like a Patton and prays like a Washington. He is as gentlemanly cultured as a Lee, and as plain and forthright as a Carson or a Crockett. He is as scientifically knowledgeable as an Armstrong or as matter-of-factly savvy as a Boone.

His courage is legend, and he has demonstrated it wherever the sun rose on crisis and set on peace: from the breakout following the bitter winter at Valley Forge to the surrender of the redcoats at Yorktown; from the struggle on Lake Erie to the defeat of the British at New Orleans; from the firing on Fort Sumter to the discussion of terms at Appomattox; from the hell of the Argonne Forest to the Armistice at Compiegne; from the landing at Algiers to the capitulation at Rhiems; from the attack on Pearl Harbor to the end of the Pacific conflict in Tokyo Bay; from the burst of shells on Seoul to the parleys at Panmunjom; from the defense of Saigon to, hopefully, the final peace negotiations at Paris.

The American veteran has a heart. After a fierce battle, he can be seen passing out chocolate bars and gum to the children of the very men against whom he was fighting. Deadly serious when the occasion demands, his other side also has a sense of humor.

He is magnanimously civic-minded, too. Hundreds of schools, orphanages and hospitals in several dozen lands came into being and continue to exist only through the sweat and charity of the American veteran.

His name? Take all the names in all the telephone directories throughout the nation and add several million more who were veterans before telephones had become a way of life, and the list would be almost complete.

How old is the American veteran? He's as young as the rawest recruit that swore his oath of enlistment today, and as old as the nation itself. American veterans of battles at Vosges and St. Vith and in Vietnam and elsewhere stand with their peers of all nations who have defended human freedom, rights and dignity throughout history.

What is the American veteran? He is the very lifeblood of America — an American who is ready and willing to, and has on frequent occasions, shed his own blood to keep that nation, and the spirit upon which it was founded, alive. (AFPS Editorial)



RISK ANALYSIS GRADUATES—Army Missile Command employees Major Lee Fecteau of the Metrology and Calibration Center and Nancy Rich of the Research and Engineering Directorate display their diplomas in risk analysis from the Army Logistics Management Center. The Center located at Ft. Lee, Va., recently conducted the course in risk analysis at Redstone Arsenal and graduated 25 Missile Command employees.

Twenty-Five Graduate From Risk Analysis Class

Twenty-five employees of the Army Missile Command completed a course in risk analysis held at Redstone Arsenal recently by the Army Logistics Management Center. In order to implement the Army Materiel Command's new risk analysis program, the Center, located at Fort Lee, Virginia, started training engineers and technicians to use risk analysis techniques.

Risk analysis is an intensive effort to identify technical, cost, and schedule risks involved in meeting performance requirements of weapons systems. In short, both the successes and the failures that a system may encounter are more clearly defined so that management can make the best decision affecting the system with the least risk.



During the first week of the course, the class heard lectures on the theory and background of risk analysis. The second week utilized real life case study work so that all 25 graduates had actual experience in risk analysis. Starting in March, the Logistics Management Center will conduct similar courses on a quarterly basis at Fort Lee.

The Risk Analysis Program in accordance with Deputy Secretary of Defense, David Packard's request, is helping to minimize the technical risks of new equipment procured by the Armed Forces.

The program necessitates teams of specialists since no single individual can handle the job alone. Members of the team include the system project engineer, a risk analyst, a procurement specialist, a representative

of the system manager, a cost analyst, a test specialist and an integrated logistic support specialist.

The Army Materiel Command considers risk analysis one of the most important elements of its Program for the Refinement of the Material Acquisition Process (PROMAP-70). This is the Army's

Theatre Schedule

WED., Nov. 4
"Loving" (R)
THURS.-FRI., Nov. 5-6
"The Five Man Army" (GP)
SAT., Nov. 7
"Tarzan's Deadly Silence" (G)
SUN.-MON., Nov. 8-9
"Darling Lili" (G)
INCREASED ADMISSION:
adults .50, children .25
TUES., Nov. 10
"The Angel Levine" (GP)
Two shows nightly at 6:00 and 8:30 p.m.
Sunday matinee at 2:00 p.m.

current campaign to eliminate most growth in weapons systems programs and to develop better methods for procuring reliable equipment.

The Army Materiel Command has completed risk analysis on eight items managed by the Command. The Cheyenne helicopter, LORAN Airborne Navigation System, armored vehicle launched bridge, XM-56 mine, 155mm XM198 Howitzer, turbo-alternator and a forward looking infrared system have been analyzed by the new PROMAP-70 management tool.

The Command's risk analysis of these items completes the first phase pilot studies of equipment represented by each of AMC's major commodity commands. The detailed reports comprise a compendium of risk analysis experience and will be used as ready reference throughout AMC's sub-commands.

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DRIVER ESCAPES INJURY—The driver of this car escaped injury when his car hit a curbing on Martin Road and skidded down into the deep ditch across the road from Army Missile Command Headquarters. The accident occurred between 4 and 4:40 p.m. during the afternoon rush traffic.

Huntsville

(Continued from Page 1)

machinery, and missiles, clothing and food.

Although awards go to businesses nationwide, a high percentage of the hundreds of orders are placed in Alabama and neighboring states.

The Missile Command Procurement and Production Directorate executes the awards.

'We Care'

(Continued from Page 1)

by the residents of Madison County and Huntsville. Individuals have sent countless magazines, candies, books, records, and letters and cards.

Recent letters from the hospital administrator and nurses have thanked the community for its support.

Popham

(Continued from Page 1)

In other Army organizations ticket sales are being handled as follows:

Missile & Munitions Center & School, CSM C.W. Riker (6-3349); Safeguard System Command, Lonnie Hightower (895-4810); Safeguard Logistics Command, Lt. Col. R.F. Vereen (895-4055); Huntsville Division, Corps of Engineers, Gewin Flowers (895-5760).

Missile

(Continued from Page 1)

element where they work and perhaps a move from one office to another. He estimated that more than 7,000 of the Command's 7,900 full time permanent civilian employees will be doing the same job at the same pay in February that they are doing today.

Others will be moved to similar jobs at the same pay they are now receiving. Still others may be adversely affected, for example, by shifting from supervisory status to non supervisory status or changing to a job with a lower salary.

Gen. Donley said the appropriate Civil Service and Army regulations would be invoked in such cases "...to assure a fair shake to everyone in a reassignment."

Railroaders

The North Alabama Railroad Club will meet at the auditorium of the Huntsville Public Library at 7 p.m. tomorrow. A fellowship period will begin at 6:30 p.m.

Additional information about the club can be obtained by calling 881-3629 or 852-8917.

CFC

(Continued from Page 1)

the activity in fourteen of the 21 Federal agencies and the Thiokol Chemical Corporation. Seven agencies will make just one report at the close of their campaign.

McNaron expressed optimism in commenting on the next to the last unofficial report indicating that he feels another record will be realized before all the donations are counted.

"While the drop in personnel has had an affect on the drive," he said, "contributors are giving more generously than ever before."

Huntsville area Federal em-

ployees have responded to the annual fund raising drive with cash gifts totaling \$114,869 along with payroll deduction pledges for \$375,167.

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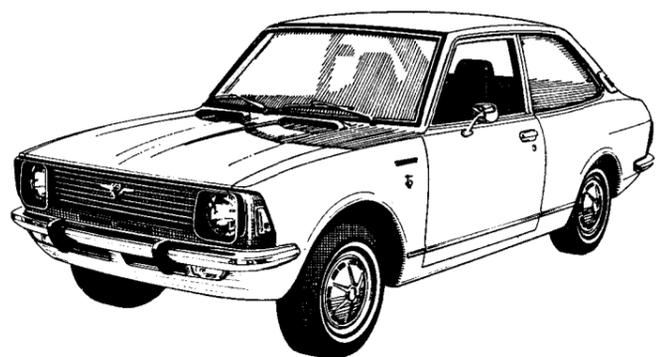
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Redstone Toastmistress To Be Council Hostesses

The Redstone Toastmistress Club will be the hostess club for the Council One, Dixie Region meeting of Toastmistress International at the Russel Erskine Hotel in Huntsville beginning at 9 a.m. Nov. 14.

The Council is made up of eight North Alabama Clubs — four in the Huntsville area, three from Birmingham and one at Columbia, Miss.

Redstone Toastmistress joined the Huntsville and Rocket City clubs last week to commemorate the founding of Toastmistress by Ernestine White whose aim was

to teach communication "with grace and facility" and to attain qualities of leadership as useful members of the community.

Kathryn Houston, president of the Huntsville Club, presided at the meeting in which members of all three clubs participated. The Redstone club furnished the topic mistress, Bonnie Miller; Rocket City the toastmistress, Bess Beasley; and all three clubs were represented by speakers: Salley Henderson, Redstone; Patricia Hammer, Rocket City and Audrey Henson, Huntsville. The joint membership voted Mrs. Henderson speaker's honors.

Admiral Bennett Set As Navy Night Speaker

Rear Admiral Fred G. Bennett, Chief of Staff of the Naval War College, will discuss the "Soviet Naval Build Up" Friday night at a dinner meeting of the Huntsville Chapter of the Reserve Officers Association.

Admiral Bennett's remarks will be made on "Navy Night" at the Redstone Arsenal Officers Open Mess. Activities will begin at 6:30.

He is a native of Yazoo City, Miss., and graduated from the Naval Academy in 1936. He later received a master of science degree from Massachusetts Institute of Technology.

Admiral Bennett has com-

manded Cruiser Destroyer Flotilla Eight and also served as Director of Navy Program planning and scientific officer in the Office, Chief of Naval Operations.

For reservations, call George Richie at 883-2802, Michael Vaccard at 453-3738 or Loxie Doud at 453-2597.

Tour of Cavern

A tour of Cathedral Caverns and a stop at The Heart of Huntsville mall for shopping is scheduled by the Service Club Saturday.

The tour bus will leave the Club at 11 a.m. All military personnel are invited to make the tour.



AT THE HARVEST BALL—Dancing and singing, a skit and dinner rounded out an elegant evening sponsored by the Redstone Officers Wives Club—an annual event which helps support a number of charitable projects the club supports. As in years past, the event was a sellout, but the profits were not yet counted at press time. The entertainment committee was headed by Mrs. Morris Pettit and overall chairman was Mrs. Gordon D. Rood. Many, many officers wives participated in the making the event a success visually, tastefully and fun.

New Arrivals

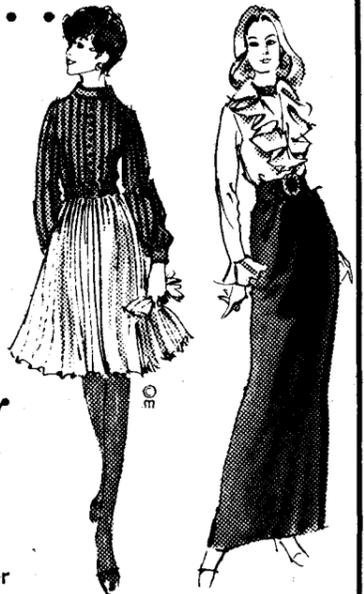
- SP5 and Mrs. Roy E. Kuhl, Sr., boy, Roy Edwin, Jr., Oct. 9.
- SP5 and Mrs. Larry G. Ochs, boy, Micheal Robert, Oct. 12.
- SP4 and Mrs. Edker F. Biggs, girl, Sheri Lynn, Oct. 14.
- SP4 and Mrs. Gary M. Smith, girl, Shelley Rene', Oct. 14.
- SSG and Mrs. Jerry L. Hodge, boy, Timothy Leon, Oct. 17.
- SP6 and Mrs. Robert W. Jones, boy, William Bradley, Oct. 17.
- 2LT and Mrs. Michael Zagwoski, Sr., boy, Michael, Jr., Oct. 20.
- CWO and Mrs. Cecil R. Doub, girl, Pamela Margrit, Oct. 22.
- SP5 and Mrs. Frank H. Haskin, boy, Sean Jason, Oct. 22.
- SGT and Mrs. Alex W. Adams, boy, Carlos Darnell, Oct. 25.
- SSG and Mrs. Jose' Wer, girl, Erika Noelle, Oct. 26.
- SSG and Mrs. Dieter Meurer, girl, Ariane Adelheid, Oct. 27.
- SP5 and Mrs. Jimmie L. Coste, boy, Mark Dwayne, Oct. 29.
- 1LT and Mrs. Charles J. Sliz, boy, David Charles, Oct. 29.

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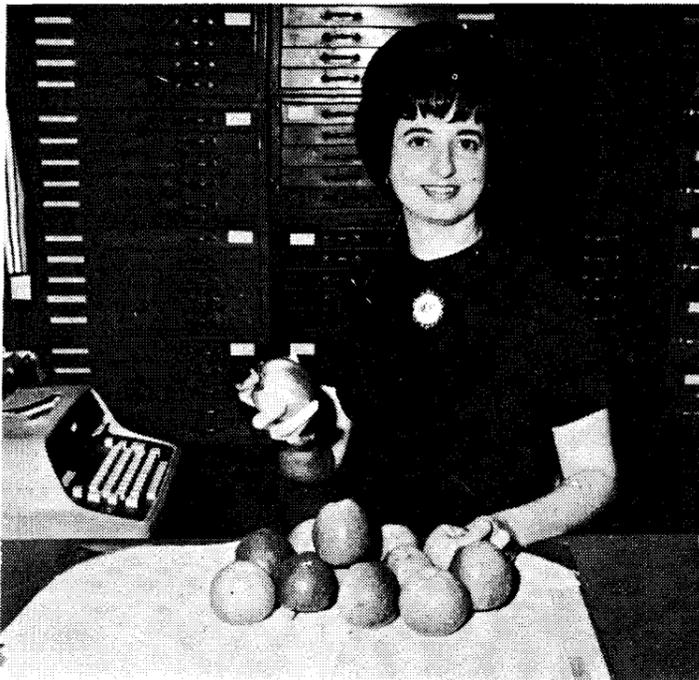
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APPLES APPLES! — If an apple a day keeps the doctor away, then Virginia Chandler, Specifications Clerk, Office Service Branch, Post Engineer's Office, has been eating apples by the bushel. Virginia is celebrating her 20th year at Redstone in the same office and also nearly 2,000 hours of accrued sick leave. Though Virginia doesn't eat that many apples she did have a few for the photographer.

Quite a few people at Redstone Arsenal can boast of 20 years service, but few can claim 20 years in the same office where they first started work. Virginia Chandler came to work in October 1950 in the Office Service Branch of the Post Engineer, and she has been there ever since.

Not only has Virginia been in the same office for 20 years, but she has been remarkably healthy because she has accrued nearly 2,000 hours sick leave.

Since she first joined the Army team back in 1950, Virginia has seen many changes. Back in those days there were only four people in the branch. During the height of activities, she saw the branch strength go up to 20 during the 60's and drop to its present strength of seven in the 70's.

Talking about the past years, Virginia revealed that the Post Engineer's building was half its present size in 1950. She was doing a lot of her work on the old ditto machine and the branch had about 20,000 drawings on file.

Now, 20 years later, there are new wings on the old building, Virginia has a new selectric magnetic tape typewriter to reproduce her material, and the section has over 60,000 drawings on file.

Virginia, a native of Huntsville, graduated from Huntsville High School in 1949, attended business college for a year and then came to work at Redstone Arsenal.

While many people would say that 20 years in the same office is too long, Virginia Chandler laughs and says the first 20 was the hardest and she's starting her second 20 now.

additional men for their outstanding academic performance. Receiving certificates were Pvt. Jed E. Peckham of Orlando, Fla., with a 95.7 in the Ammunition Storage course; Pfc. Egils Ambats, Monroe, Mich., with a 92.9 in the Pershing Guidance and Control Repair course; and Pfc John C. Brooke of Bettendorf, Iowa, 90.4 in the Hawk Fire Control Repair course.

In his address to the students, Maj. Hall counselled the graduates to "observe the Old Timers when you get on the job." He advised the men "to listen to what they say—in the vast majority of instances you will profit from their advice." Then finally he emphasized that they should apply what you have learned, for knowledge without application is no knowledge at all.



HONOREE—Mrs. Louis Rachmeler, wife of the newly named deputy to the Commanding General, accepts a cup of tea from Mrs. Ronald V. Hite during a tea sponsored by Army Missile Command Officers wives in her honor. The event was held at the Redstone Officers Open Mess last week.

AUSA Awards Three Top Scholarship Plaques

One local man was among the 74 graduates of the Missile and Munitions Center and School, Friday. Pvt. Gary G. Burson, a 1970 Lee High School graduate, was graduated in the Ammunition Records Course. He is the son of Mr. and Mrs. Archie J. Burson, Route 1, Delrose, Tenn.

those students who compile an average of 96.0 or higher in their studies at the school.



MAJ. THOMAS F. HALL

Leading the graduation were Pvt. Howard H. Kaufman, Milwaukee, Wis., with a 98.5 in the Ammunition Records course; SSG William E. Worthington, Ft. Lauderdale, Fla., 97.5 in the Land Combat Support Missile Systems Repair Technician course; and Sgt. Werner Gerhaeuser, German Air Force, Blumenweg, Germany, 96.1 in the Pershing Digital Equipment Repair course. J.W. Walters, Association of the United States Army (AUSA) representative for the Tennessee Valley Chapter, presented each with the AUSA outstanding student award. This award is presented only to

Guest speaker, Maj. Thomas F. Hall, Jr., an instructor in the school's Officer Training Department, recognized three

ASTRONOMICAL MEETING
"Beyond the Milky Way, Among the Galaxies" is the next program to be presented by the Rocket City Astronomical Association starting November 8 at the planetarium in Monte Sano State Park. Showings are scheduled for 2,3 and 4 p.m. Richard Hill and Ronald Ferdie will present the programs. There is no admission charge, and the public is cordially invited to attend. The planetarium is located on Observatory Road opposite the Monte Sano riding stables. For additional information call 852-3566 or 881-3700.

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Hunters Must Hear Game Warden Talk

More than 700 would-be deer hunters showed up Saturday morning at the orientation held for persons planning to participate in special public hunts this year.

The response was so great that two briefings were held Saturday. Another has been scheduled for 10 a.m. tomorrow in the Rocket Auditorium.

Public participation has been authorized this year on a one-time basis as a means of controlling the size of the deer herd on the installation.

Those planning to participate in one of the public hunts, during which portions of the Arsenal within the Wheeler National Wildlife Refuge will be open for deer hunting, must attend an

orientation session.

SFC John Levan, Deputy Game Warden, and members of his staff cover dates and hours of the hunts, rules and regulations and explain the procedure that must be followed by individuals making application to hunt.

Assignment to hunting areas will be done on a first come, first served basis to civilians and military personnel during the special hunts.

Both bow and arrow and firearms hunts have been scheduled with public participation.

Dates for the bow hunts open to public participation are Nov. 6 and 7 and Jan. 9, 10 and 11. The firearm hunts will be run on Nov. 26, Nov. 28, Dec. 12, 19 and 20.



DEER HUNTERS GALORE—More than 700 prospective deer hunters gathered last Saturday morning at the Redstone Arsenal Post Theater for the Bow and Gun Deer Hunting Orientation. SFC John Levan, deputy game warden, gave two briefings Saturday and has scheduled another for 10 a.m. tomorrow at the Rocket Auditorium in Building 7120. All hunters must attend the orientation and register to be eligible for the bow and gun hunts.

Rebels Hang Out Third Grid Flag

Redstone elevens captured both ends of the Brindlee Mountain championship double header last week with the Rebels gaining their third straight 100-pound title and the Raiders taking the crown in the 130-pound class.

The games were staged as the feature attraction of the Youth Sports Program's first annual Halloween carnival.

The Rebels maintained their crown with a 22-0 win over another YSP team, the Redbirds, while the Raiders took the measure of the Brindlee Wildcats, 6-0, in a hard fought defensive struggle.

It was the third win in as many tries during the week for the Rebels and followed by two

nights another win over their inter-Arsenal rivals. On Thursday the Birds fell, 6-0, in a game to decide the regular season title in the Mountain League.

Earlier in the week the Rebels went down town to turn in a 20-0 win over Southern in the City League. It was their sixth win against a single loss, however, a pair of ties have all but ruined their chances for a berth in the Huntsville Bowl game.

Ron Hollingsworth scored the points that won the Thursday encounter and added another six-pointers in the Saturday win. Mickey Huffman scored the other touchdowns in the championship game, one on a 56-yard scamper.

The Hollingsworth-Huffman duo also took care of the scoring in the City League win with the former scoring on runs of 55 and 10 yards.

Bruce James picked off a Wildcat pass and returned it 21 yards for the Raider touchdown midway in the second period and from there on it was a case of the Arsenal front wall throwing back one threat after another.

Twice the Wildcats moved the ball to within a yard of the Raider goal, but on each occasion were denied by the Arsenal youths led by Sparky Goodman, Jeff Dukes and Sanford Merrill.

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Police, Students Take Divisional Titles

Twin Shutouts Boost Co. A Into Tournament Picture

Student Officer Company, Missile and Munitions Center and School, ended the 1970 flag football campaign on a sweet note winning the last three games.

The team ended the season with a 7-1 slate, good enough for the championship in the National League. The 291st MP Co., undefeated in eight games, won the league crown in the American.

Larry Thrash, Ray Dorsey, Corky Sterling and John Norris were the heroes of all three SOC wins last week. When the fearsome four weren't scoring touchdowns they were snatching opposition passes out of the air, setting up SOC TDs.

Against the 6th ETC, Dorsey intercepted a pass and scampered 25 yards for a score. Thrash followed with a 45-yarder on a pass play and Sterling did likewise this time a 20-yarder while Norris added another on a five yard run. SOC dumped 6th ETC 26-14.

SOC shutout 1st ETC 12-0 for the second win of the week. James Porter intercepted a 1st ETC pass and returned the pig skin to the five-yard stripe. A few seconds later Thrash plunged into the end zone for the score. A 45-yard pass play accounted for the other SOC score.

Co. A was the final victim of the SOC scoring punch as the Alpha team bowed 16-0. Thrash and Sterling were the stars in the finale of the season with Dorsey and Norris adding the point after. Co. A did, however, manage to mount a drive to the SOC five yard line before the pass stealers from SOC ruined the hopes of an Alpha score.

Later in the week Co. A had to play a double-header to earn a spot in the Arsenal championships. Co. A ended the season with a 4-4 slate, tied with 6th ETC for fourth place in the National League.

After defeating UTC 8-0 the Alpha squad crushed 6th ETC's hopes of a spot with a 6-0 victory. Co. A joins SOC, Co. B and 249th Ord. Det. from the NFL in the

playoffs.

In the AFL, Co. D is the only MMCS entry making the championships. Other AL teams are 291st MP Co., MICOM and the Medics. The Medics earned a playoff berth the hard way. The doctors and the 227th Ord. Det. ended the season at 4-4 forcing a playoff.

In the battle for fourth place the Medics and 227th Ord. played to a 7-6 sudden death playoff with the scapel specialist coming out on top. At the end of regulation play the score was knotted 6-6.

Wackers Widen Margin In S&M

Second round action in the S&M Bowling League opened at the Playmor Lanes last week with the Bushwackers putting another couple of lengths between themselves and the second place Reba Apparel five.

Missile Intelligence got undisputed possession of third by blanking the Lot-o-Pins with U-Tote-Um dropping back a notch in taking three of four from the Fours.

The final match on the weekly card ended in a draw with Team 7 breaking even with the Pin Spotters leaving the two deadlocked in fifth.

Jerry Cutcher took the lead in the Bushwacker win with a 544 and Francis Cline showed the way for the MID sweep by flattening 531 sticks.

Oliver Graves grabbed off individual honors for the week with a 561 series for U-Tote-Um. His run included a 223 game. Clayton Bales rapped a 539 to keep the Grocer attack rolling and Andy Zurbier chipped in with a 516.

The Pin Spotters presented a stout three man front with Dick Pingry stacking 554 maples in the pits, Bob Faust hitting for 533 and George Vitale rapping the ten pins at a 515 pace.

Team Seven also put a trio of bowlers in the over 500 class led by Ray Whalen at 533. Gene Martin and Tom Johnson were close behind.

Final Standings

| AMERICAN LEAGUE | | |
|-----------------|---|----|
| TEAM | W | L |
| 291st MP Co. | 8 | 0 |
| Co. D | 7 | 1 |
| MICOM | 6 | 2 |
| Medics | 5 | 4* |
| 227th Ord. Det. | 4 | 5* |
| Co. C | 2 | 6 |
| 7th ETC | 2 | 6 |
| 9th ETC | 2 | 6 |
| Marines | 1 | 7 |

NATIONAL LEAGUE

| TEAM | W | L |
|----------------|---|----|
| Stu. Off. Co. | 7 | 1 |
| Co. B | 6 | 2 |
| 249th Ord Det. | 5 | 3 |
| Co. A | 5 | 4* |
| 6th ETC | 4 | 5* |
| 5th ETC | 3 | 5 |
| 1st ETC | 3 | 5 |
| 200th Ord. Det | 2 | 6 |
| UTC | 2 | 6 |

*Playoff to decide tournament spot

Civil Service Announces Medical Jobs

The Huntsville Area Office, Civil Service Commission, on Oct. 28, issued an examination announcement for the position of medical technician, (chemistry, blood banking, hematology), GS-5, \$6548 a year, GS-6, \$7294 a year, GS-7 \$8098 a year.

The majority of vacancies is in the Veterans Administration Hospitals in Birmingham and Tuscaloosa.

No written test is required. Applicants will be rated on an evaluation of experience and training.

Application forms and information concerning these positions may be obtained from the Federal Job Information Center, in Huntsville, 35801.

Carnival Grosses \$1600 For Youth Sports Work

The Redstone Arsenal's Youth Sports Program has another \$1600 to work with this week as a result of last Saturday's Halloween Day Carnival held in the area off Goss Road.

Over 1,000 persons attended the Carnival and, according to CW2 Richard McCool, YSP Chairman, "all of our planned objectives were overwhelmingly successful."

McCool said the Carnival was proposed with a dual purpose. The plan was to reduce the chances of juvenile vandalism associated with Halloween and to raise funds for the Youth Sports Program.

Nancy Hollingsworth served as chairman for the Carnival and she received voluntary support from practically every military organization on the Arsenal. Mrs. Hollingsworth had high

praise for the many people who spent many hours apiece in making the initial Carnival a huge success. She said, "The event could not help but be a success with the abundance of unselfish support that went into every stage of the program."

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JESSE HAWTHORNE 690

Jessie Hawthorne did not reach the pinnacle of bowling by shooting a perfect game or an ABC-award winning 700 series but to him the 265 game and 690 series posted in the Friday Night EM Mixed League was a personal victory.

"I finally rolled the ball as I

had in previous years," Hawthorne said. "It just felt great."

Was he nervous? "Of course!" he explained "but it really didn't bother me until the sixth frame of the second game when I began stringing the strikes." That was the 265 score in which he had eight strikes in a row. His first game score was 198 with the final tally being 227.

Hawthorne has been bowling for 10 years, whenever military duties would permit. He is currently assigned to Co. B, MMCS and works with the Office of Operations' Technical Inspection Branch.

Prior to Friday night's high his previous high game was 235 some years past. The 265 game is reported to be the second highest ever rolled at the Arsenal Lanes since moving into its new home two years ago.

Nike Acquisition moved out of the cellar in the Brigade Bowling League last week with a four point sweep of the Marines. It was the first victory of the seven week old loop for Acquisition. Richard Brown paced the Acq team with a 515. The triumph moved the team out of last place, one point ahead of SSD who lost four to HAWK.

DERAILED

Also in team action Nike Track was shoved off the track by 249th Ord. William Delchamp, an Arsenal All-Star team member, shot his first honor roll set in the league posting a 602, on games of 202-189-211.

The Delta 88s were up to its old tricks but managed to keep from drowning. The first place team (leading by two points) burried Five Aces in the first contest (1007-875), lost the sec-

ond and won the third for a three point win. Harold Kretlow paced the 88 attack posting a 543 with a 206 game (anchor man arise!).

Erna Schiro posted her second honor roll series in the Friday Night EM Mixed League. Schiro led the Wood Choppers back in contention for the crown, capturing second place in the Position Night round.

Schiro put together games of 179-225-200 for the 604 series, highest series for the week.

According to reports from the Redstone Arsenal Officers League, it was all splits Thursday night. "Every time I looked

around there were railroad tracks standing," Pat Keefe, league secretary reported.

It wasn't the Five Splits, however, as the team won only one point last week to lose its first place standing. The Lucky Strikes swept four from the Wheelers to gain the first place spot.

OFFICERS WIVES LEAGUE

The Leavins have moved back into first place in the Redstone Arsenal Officers Wives Club League by taking four points last week. But the Pacesetters are close trailing by only a half a point. The tenth place team is also breathing down the leaders'

neck, only points behind.

HIGHS AND LOWS: Carolyn Uhlrich 217, Margaret McBrearty 494, Reb Hurst 559, Ted Ailes 541, George Stewart 571-223, John Glease 543-210, Raymond Dinger 542-218, John Goltz 540, Larry Makanani 525, Wesley Mondy 585-210, Sally Gerheuser 517, Emma Blair 508, Gerry Melvers 506, W. Hockman 546-201, Jessie Hawthorne 538-200, Charles Rodeen 531, Earl Griffin 571-201, Gordon Chalenburg 558-219, W. Bean 530-201, Pete Henderson 594-203, 218, Al Klaus 542-234, Harold Kretlow 543-206.

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Rejectors Frustrate Hot Shooting Cobra Keglers

Slim Wilson shot a 246 to start the evening, Chuck LeMonde closed it with 224 and in between Chuck Mont, Ben Jones and Bob Ford beat a steady tattoo on the Parkway ten pins last week.

An after it was all over the Rejectors had provided the Cobras with a frustrating evening of ten pin toppling in AMC-Civilian Welfare Fund Bowling League action.

The Rejectors upended 3040 maple sticks and won three points while the Cobras had to be content with a single point despite turning in a 2993, second best in the league.

DeVault dropped a point to the Bombers but still sets atop the pack by six points over the Tigers, clean sweep winners over the Alley Cats. The Bandits and Tow Boys also scored shutout wins with the Jokers and Alley Cats on the losing side.

The rest of the league matches ended in 3-1 verdicts with the T-Birds shading Sheraton, the Sprinters taking the Wonnors and the All Sports whipping the Raiders.

LeMonde claimed scoring honors for the Rejectors with 563, Wilson totaled 542 and Mount put together a 530. The Cobras had a high scoring trio of their own with Howard Helmick chopping down 574 sticks, Chuck Turner rapping a 554 and Bill Davis racking the maples for 531.

High individual honors for the week went to John Goltz whose 593, along with a 537 by Willie Wiggins did the Jokers in and got the Bandits back into third place.

Less than a mark behind was Bob Brand who included a 235 game in his 585 run for DeVault. Floyd Clark had a 554 for the leaders while Joe Barnes was the

most effective Bomber with 532. Dan Pollard hit the Parkway slides for 544 to pace the Tigers to their sweep and Lee Keim provided the direction as the Sportsmen outscored the Raiders despite Les Westbrook's 560 in the losing effort.

CWF Gals Take On Defending League Champs

A third quarter spree provided the working margin and the Missile Command went on to a 53-43 win over Safeguard in the Huntsville Women's basketball league game last week.

It was the second win in as many starts for MICOM and gave Safeguard and even split after two weeks of play.

The girls from Research Park have another tough session scheduled this week with the defending champion-State Farm six providing the opposition. MICOM goes against Fashion Two-Twenty this week before matching shots with State Farm next Monday evening.

The two Civilian Welfare Fund-sponsored sextets battled on even terms through the first half with MICOM taking a one-point lead into the intermission.

But the third quarter was a different story as Gladys Hill and Joyce Ingram started hitting the hoop with regularity while the Safeguard girls were suffering through a cold spell. After three quarters MICOM was out front by 12, 44-32.

Gladys, the league scoring champ last year, fired 30 points and Joyce added 16 more as the two scored enough for the win themselves. Wyonelle Pennington hit three goals for six and Margaret Harbin completed the scoring by converting her only try from the foul line.

Linda Haygood topped the Safeguard scorers with 25 and Gretchen Bigham collected two more. Doris Wallace accounted for the other eight Safeguard points with four goals.

RSA Lions Seek Key To Playoff

Six consecutive victories have propelled the Redstone Lions into a possible playoff berth in the Midget Division of the Huntsville Parks and Playground League.

Coached by Biill Barbato and Charles Johnson, the Lions dropped their first two starts of the season before starting their string of victories. Wins the last two weeks enabled the Lions to tie National for second place behind the unbeaten Northern Red Rebels.

The Arsenal 7 and 8 year olds will take on Northern next Tuesday at Mastin Lake Park with the

University Offers Math Refresher

The Division of Continuous Education at UAH will offer a short course, "Decision Mathematics," January 18-29, 1971. Purpose of this course is to further inform those persons whose mathematical training was weak or whose

training occurred several years ago. Classes will be held from 8:00 a.m. until noon each day.

Each topic will be presented in such a fashion as to allow each student to understand the basic ideas even though the particular topic is new to him.

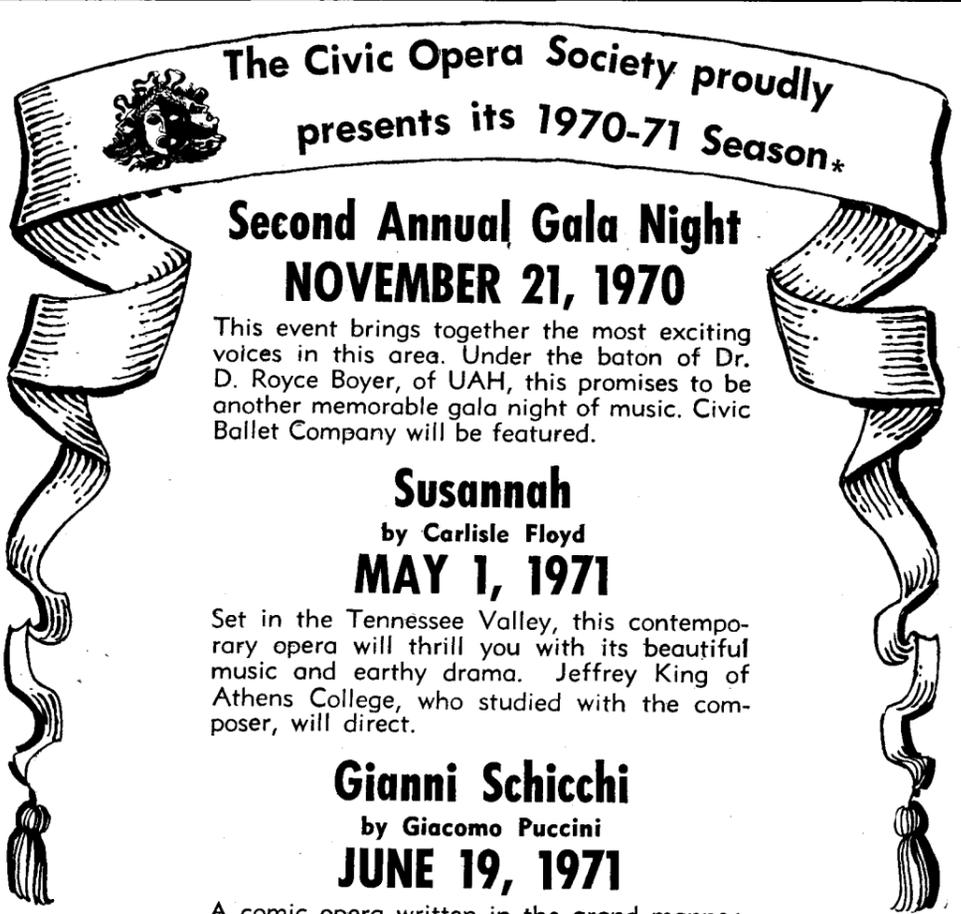
Dr. Robert E. Shannon and Dr. Robert A. Brown, both associate professor's of industrial engineering at UAH, will instruct the course.

For further information call or write, The Division of Continuous Education, The University of Alabama in Huntsville, P.O. Box 1247, Huntsville, 35807; telephone: 895-6010.

winner earning a shot at the Rebels in the annual Bowl game on November 21.

Ernest Collier has been the big gun in the Lion attack all season running for 20 touchdowns.

During their winning streak the Lions have amassed 140 points while restricting their rivals to a total of 16.



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ARMY R&D AWARD—Ben F. Wilson, left, is presented the Army Research and Development Achievement award by LTG Austin W. Betts, chief Army Research and Development, during the General's visit this week to the Army Missile Command. Wilson, of the Missile Command's Research and Engineering Directorate Propulsion Laboratory, was recognized for his extensive investigations in the field of liquid propulsion.

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Professionals, Non-Professionals Vote On Exclusive AFGE Bargaining

Non-professional employees of the Safeguard System Command and the Safeguard Logistics Command voted last week to recognize Local 1858 of the American Federation of Government Employees as their exclusive bargaining agent.

In the same elections, professional employees of both Army commands rejected AFGE representation.

Non-professional employees of the Huntsville Division, Army Corps of Engineers, also rejected a bid from Local 1858 for AFGE to be their exclusive bargaining agent. Professional employees were not balloting.

In a similar election held in the Huntsville Office of the Advanced Ballistic Missile Defense Agency, the voting for recognition of AFGE for non-professional employees resulted in a tie. Balloting was not conducted among professional employees.

At SAFSCOM more than 66 percent of the 415 eligible non-professionals turned out to vote 164 to 113 for exclusive recogni-

tion of Local 1858, AFGE, while more than 63 percent of the 322 eligible professionals voted 127 to 75 against being included with non-professionals for Local 1858 to represent them.

At SAFLOG more than 48 percent of the 77 eligible non-professionals turned out to vote 28 to 9 for exclusive recognition of Local 1858, while only 37.5 percent of the eight eligible professionals turned out to vote three to 0 against being included with non-professionals for Local 1858 to represent them.

Non-professional employees of the Huntsville Division, Army Corps of Engineers, turned out 68 percent of the 174 eligible employees to vote 68 to 51 against exclusive recognition.

ABMDA non-professional employees turned out 81 per cent of the 27 eligible employees in the voting which resulted in a 11 to 11 tie regarding exclusive recognition of AFGE as their bargaining agent. This result is being referred to the U. S. Department of Labor, which supervised

the elections, for a decision.

In accordance with the provisions of Executive Order 11491, exclusive recognition gives Local 1858 of AFGE the right to negotiate agreements with management, to be present at formal discussions of individual grievances and appeals and to speak for all SAFSCOM and SAFLOG non-professional employees.

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| Course No. | Course Title | Time Meeting | Day |
|------------|--|--------------|-----|
| S300 | Introduction to Automatic Data Processing (Theory) | 6-10 P.M. | MW |
| S310 | Introduction to Computer Science (Theory) | 6-10 P.M. | TTH |
| S320 | Introduction to Cobol Programming (Theory-Lab) | 6-10:10 P.M. | TTH |
| S330 | Introduction to Fortran IV (Theory-Lab) | 6-10:10 P.M. | MW |

CREDIT

Certificates of completion will be presented for each module successfully completed by the student as well as a letter grade reflective of his achievement. After completing on or more of the certificate modules, and a student decides to enroll in a degree producing program at Alabama A & M University, he may present his certificate(s) for evaluation in the same manner as he would transfer credit from another institution.

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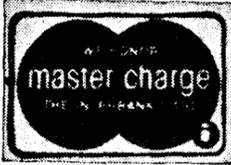
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 MSG Willard G. Johnson, Jr.

GRADUATION SPEAKER

The only military aide to Dr. Wernher von Braun will make his first speech to an MMCS graduation class Nov. 6.

LTC C. Frederick Kleis, presently assigned as chief, Training Division, Office of Operations, was commissioned in the



LTC FREDERICK C. KLEIS

Regular Army in 1954 as a Distinguished Military Graduate from Pennsylvania Military College, Chester. The holder of a bachelor degree in Industrial Engineering, LTC Kleis has pursued graduate studies at the University of California and the University of Maryland.

In 1958, LTC Kleis served with the Army Ballistic Missile Agency (ABMA) during the exciting days of the Explorer I launching, the Free World's first satellite.

His overseas assignments have included duty with the Nike Zeus Project Office, Kwajalein Island, during initial range testing of the Nike Zeus antiballistic missile, forerunner of the Spartan missile to be deployed with the Safeguard Defense System. His decorations include the Legion of Merit, Bronze Star, Joint Service Commendation Medal, and the Army Commendation Medal with two oak-leaf clusters.

MEDALS FOR THREE

The Meritorious Service Medal was awarded last week to an MMCS chief warrant officer who also enjoyed the satisfaction of concluding a 22-year Army career. CWO Billy B. Bourne received the medal for his outstanding service since July 1966, when he began his final assignment with the Plans and Operations Division, Office of Operations. Bourne was cited for making an invaluable contribution to missile and maintenance training at the school.

Also honored last week for meritorious service, in this case at his previous assignment, was CWO Hayward E. Smith. A recent arrival here from a year of duty up in the polar region, Smith was presented the Army Commendation Medal for distinguishing himself as Operations Officer, 524th Ordnance Co., Fort Richardson, Alaska.

Among permanent party military personnel here at MMCS, prior service in the Republic of Vietnam isn't too unusual. But civilian employees with service "in country" are a good deal less common. John Talley, Department of Nonresident Instruction, returned from a year of duty with USARV, in August and last week was recognized by being presented the Vietnamese Service Medal for civilians. Glad to see you back safely, John.

CREDIT WHERE DUE DEPT.
 Diligent work seldom goes un-

noticed, as 35 civilian employees of MMCS discovered recently. Certificates for Outstanding Performance Ratings were presented to a half dozen tireless workers for their efforts over the past year. Recipients were Janet R. Falconbury and William F. Burden of DIT, Eugene W. Menning and Stanley W. Clements, Mildred W. Backs, Comptroller and Janice N. Burkett, Office of the Secretary.

Outstanding Performance Appraisals were given to 29 hard-workers from DIT. From Air Defense, they are: Leon C. Knowles, James E. Hayes, Eulis W. Esslinger, John T. Daniels, Coburn G. Arledge, Roy B. Moorman, Harold R. Seal and George W. Wright.

From Land Combat: J. C. Throop, Robert E. Lincomb, William C. Krisher, Skeggs P. Gilchrist, Sycourne R. Garner, Paul B. Locke and John W. Verbeek.

Recipients from OTD were Vernon O. Harmon, George L. Foster, Frank Brown, Jr., Paul A. Michael, Louis L. Pierce, Frank C. Westerman and Robert G. White, Jr. And from other departments of DIT, OPA's were given to Julian C. Weathers, Clayton L. Bales, J. M. Rodgers, Wayne R. Jones, Homer B. Thompson, Gerald Williams and Donald L. Mansfield.

THREE CENTURIES OF SERVICE

Eighteen employees with a total of 320 accumulated years of work with the U.S. government took time out to be recognized for their faithful service last week. Newest initiates to the 30-year club are Wayne K. Cox and Bernard L. Baeske of Air Defense, Ernest E. Thomasson Jr., DIT, Forrest B. Eads of the Ammo Department, John E. Dickerson and Dan H. Foster, both from Missile Components.

Passing the 20-year mark were Romea G. Henson, Air Defense, and John W. Hudman of Training Aids. And rounding out the group were 10 DIT employees with 10 years of service each: George O. Bushey, Leonard Nabors, Theodor Angeloff, Robert Norwood, William Martin, Orea Norton, Matthews Salopek, Alton Connell, Richard Coddington and Shirley Johnson. Here's to as many more fruitful years in the future.

RA ALL THE WAY!

CPT James W. Cape, a test coordinator for the EOD Division of UTC, received his Regular Army commission last week. Cape entered active duty in 1965 and came to MMCS from a tour in Vietnam with the 611th Ordnance Co.

A TWO TIME LOSER—OR WINNER?

1LT Robert A. Sudderth, MMCS Assistant Information Officer, has won School Brigade's coveted Lily of the Valley "Shtick" award



1LT ROBERT SUDDERTH

for the second time in recent weeks.

The "Lily" is a Wednesday evening gathering of the officers of School Brigade, MMCS, at the Redstone Officer's Open Mess. And the "shtick," resembling a crooked, miniature cane, is awarded for the funniest story told about an anonymous officer in the Brigade. 1LT Sudderth was branded as being a "poor winner" because he was responsible for a story printed in the Redstone Rocket equating the bowling match between the Secretary's Second To None and School Brigade's Bowling Detail as "the biggest mismatch since Patterson-Liston." Sudderth's Second To None team trounced Bowling Detail in every possible category.

"I'd rather carry this darling digit (the "shtick") for being a



MAJ. JAMES D. ROWAN

poor winner than a poor loser," said 1LT Sudderth. "I take back the Patterson-Liston comment," he added. "Too bad about Bowling Detail. I guess they feel like the Kansas City Chiefs did after the first Super Bowl."

NEW ARRIVALS

Major James D. Rowan II has assumed duties as Tech Officer with the Development and Review Branch, Doctrine Division, Office of Doctrine and New Materiel. His last assignment was with the Management Control



2LT JAMES E. FURR, III

2LT James E. Furr III, a recent graduate of the Adjutant General School, Ft. Benjamin Harrison, Ind., has been appointed as Assistant Secretary, Administrative Division, Office of the Secretary.



SFC ORVILLE H. THOMAS

SFC Orville H. Thomas, a Military Intelligence career man, has been assigned as Security NCO, Security Division, Office of the Secretary. His last assignment was with MACV, Vietnam.

RETIREMENT

Eighty-two years of active military service fade away from MMCS this month for second careers.

CW4 Billy B. Bourne, Office of Operations, retires with 22 years service. Twenty-year retirees are SFC Charles W. Freeze, Director of Individual Training; SFC Billy F. Oman, Office of Doctrine and New Materiel; and SSG Verlon R. Thornton, Directorate of Logistics. We wish them well in their new endeavors.

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TRICK OR TREAT?—German Air Force Colonel Wolfgang Reich receives a Halloween treat from Evelyn Latta and Faye Fulks, both telephone operators at the Madison County Court House. The colonel received the treat during the visit to Huntsville of the 45-voice German Air Force Chorus from Ft. Bliss, Tex., during the Halloween weekend. The Chorus, made up of enlisted men and officers of the German Air Force, gave a concert at the Huntsville High School Auditorium, Saturday night. While here the group toured Huntsville and surrounding area, including the Alabama Space and Rocket Center and Marshall Space Flight Center. The visit was sponsored by Missile and Munitions Center and School.

Fiser Leads Management Seminar In Atlanta, Ga.

W.D. Fiser this week served as one of four leaders of the American Management Association's Orientation Seminar, "Fundamentals of Maintenance Management for First-Line Supervisors."



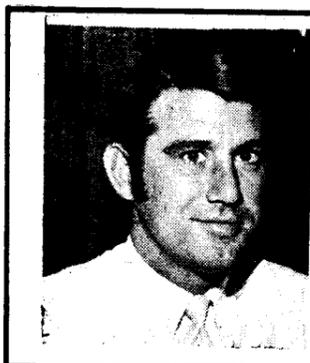
W.D. FISER

The seminar was held in Atlanta, on Oct. 26-28, and Fiser led the session on "Making the Transition from Worker to Maintenance Supervisor."

Fiser, plant engineer for Thiokol Chemical Corporation-Huntsville Division, graduated from Georgia Tech. Since joining Thiokol's Huntsville Division in 1953 he has worked in various capacities and currently is responsible for facility planning and equipment design as well as for maintenance of the Division.

He is a member of the American Institute of Aeronautics and Astronautics and of the American Institute of Chemical Engineers of which he is a Past Chairman of the North Alabama Chapter.

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C. H. Howell Dies Thursday

Cleves H. Howell, Jr., Chief, Quality Engineering and Reliability Branch, Test, Reliability and Evaluation Lab, Army Missile Command, died last Thursday at his residence in Huntsville.

Howell was one of the original engineers involved in development of the 2.75 inch aircraft rockets used on helicopters and held numerous patents for his work in automatic weapons and rocketry.

Prior to joining the Army Missile team at Redstone in 1955, Howell served with the U. S. Atomic Energy Commission, U. S. Naval Ordnance Test Station, the U. S. Bureau of Reclamation and the U. S. Geological Survey Office.

Some of the highlights of his career at Redstone were his appointment as technical advisor to the laboratory director when the facilities of ABMA and ARGMA were combined in 1962; his assignment on the review commit-

Army R & D Chief Talks To Local Group

One of the Army's top missilemen told a Huntsville audience Monday night that Army researchers have at least two common bonds with the civilian community.

"We both have medical problems that need urgent

Soldier Dies At Redstone

A Redstone Arsenal soldier died Sunday with what Army medical authorities said was a meningitis infection of his blood stream.

He was Pvt. Manuel C. Ramirez, 21, of El Paso, Texas, who was assigned to the Army Missile and Munitions Center and School.

Col. Ernest M. Bralley, Jr., commander of medical department activities, said Pvt. Ramirez had meningococcus, a bacterial infection that causes clotting of the small blood vessels throughout the body and destroys the adrenal gland.

Pvt. Ramirez, who was assigned to the 6th Enlisted Training Company, reportedly told friends Sunday morning that he felt ill. He was taken by ambulance to the Redstone Army Hospital where he died shortly before noon.

Col. Bralley said soldiers who had been in contact with Pvt. Ramirez have been examined, surveillance of other soldiers will continue and other appropriate precautions are being taken. He said he considered it "extremely unlikely" that there would be another case, explaining that most individuals have a natural resistance to the organism.

tee for the Lance Missile System, and his service as a member of the Missile Command committee to develop guidelines for industry support of the Army Research and Development Program.

Since July 1965, he had been involved in product assurance activities in the Research and Engineering Directorate.

A native of Keokuk, Iowa, he is survived by his wife, Mrs. Edith Howell, Jr., and his son, Cleves H. Howell III, both of Huntsville.

solutions," said Lt. Gen. A.W. Betts, Chief of Army Research and Development, "and we both are hard pressed to get necessary funds to continue vital research."

General Betts' remarks were made to the North Alabama Tuberculosis Association at its Christmas Seal kick-off dinner at the Carriage Inn.

Earlier in the day, the general toured research facilities at the Army Missile Command.

Using as his theme what the Army has done, and is doing, to help civilian health programs, Gen. Betts cited such programs as respiratory research, development of vaccines against a variety of viruses, development of artificial limbs and surgery methods and studies to eliminate environmental infections.

Gen. Betts has announced he will retire from the Army in late December.

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OPEN EVENINGS

Army's Manuals Undergo Tests

The man who buys a new lawnmower, compact car or outboard motor usually gets a glossy maintenance manual with it. If he attempts to follow the manual's instructions to replace some widget, he usually ends up scratching his head with greasy fingers because the manual just isn't explicit.

The Army, however, makes sure that isn't the fate of troops who must maintain weapons in the field. Technical manuals that go with Army missile equipment are completely verified at the Army Missile Command before they go to the soldiers.

During a recently completed maintenance evaluation, manuals issued with the Land Combat Support System (LCSS) were meticulously checked for accuracy and compatibility through the combined efforts of the Command's National Maintenance Point of the Supply and Maintenance Directorate and the Maintenance Support Division of the Arsenal Support Operations Directorate.

Technicians stand with the manual in hand and run through all of the operations to be performed by LCSS, a device designed to automatically pinpoint faulty electronic components in the Shillelagh, TOW, Lance and Dragon missiles.

Punched tapes are used to test the LCSS and missile system materiel with a printout appearing when there is a malfunction. Printouts give instructions about what repairs or changes must be made, and corrective measures for the operator to take.

Manuals cover everything that concerns the item being tested—what tapes to use, what cables to connect, a diagram of the connecting cables, and detailed maintenance instructions as appropriate.

If the test operation and the manual don't coincide, necessary alterations are made.

Chris Leachman, who heads the section in the National Maintenance Point concerned with validation of technical manuals and test tapes, said that the real proof of the accuracy and adequacy of the manuals comes when a soldier can use them.

"During validation, we try to simulate field conditions because

we intend to furnish the soldier something completely satisfactory. As often as possible we get a military man and set him down with the manuals and the equipment to see how successful we've been.

"We aren't through with our part when the first manuals are issued because it is often necessary to make changes in equipment. When a change is proposed, we try them out to see how well they'll work.

"If a change is approved and the equipment is modified, we install a trial modification kit. This means we also have draft maintenance procedures which we must validate."

Richard Smith from Leachman's section, Multisystems Tools and Test Equipment, and Jerrel Haislip of the Maintenance Support Division, worked together in checking maintenance procedures for LCSS.

Haislip's boss, Harold Vanderveen, explained "We're the Supply and Maintenance Directorate's laboratory—we have the facilities and capabilities to support their projects."

Smith, who started his career in electronics while he was in the Army, says: "My Army experience flowed right into the kind of work I'm doing now. It takes a lot of practical knowledge and experience to check out the manuals."

"We want to give the best piece of equipment to the soldiers in the field, and they know they can come to us with their equipment problems. The people in our office analyze the problems and give advice so the troops can do a better job."

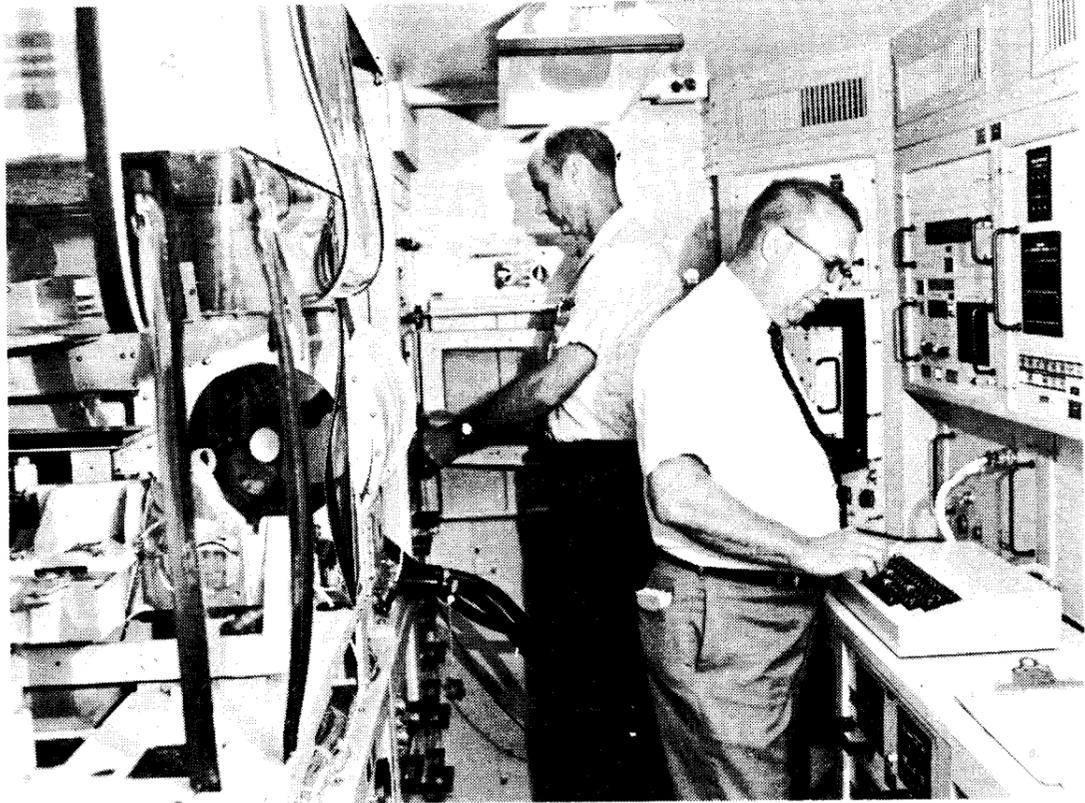
This maintenance evaluation is not unique to LCSS but is a standard procedure, and is similar to evaluations that are performed on all Missile Command items.

Show Time

Kandice Tandy, featured dancer of the Del Breece Show, will be at the Post Service Club at 8 p.m. Sunday.

She has danced in night clubs and entertained at private club parties and military bases in the United States and Europe.

Her routine is comedy in dance and includes audience participation.



MAINTENANCE EVALUATION—Technical Manuals for the Land Combat Support Systems (LCSS) are being checked out at the Army Missile Command by Jerrel Haislip, left, and Richard Smith. Haislip, from the Maintenance Support Division of the Arsenal Support Operations Directorate, is loading tape into a tape reader while Smith of the National Maintenance Point in the Supply and Maintenance Directorate is performing maintenance checks using a manual input assembly.

Fourteen Undergo Training

Fourteen Missile Command and Safeguard civilians are engaged in career development training activity this week after being selected for courses being conducted at government schools and contract facilities located in six states and the District of Columbia.

Two of the Missile Command civilians, both from the Hawk Project Office, will stay on the Arsenal for class room work at the Missile and Munitions Center and School. Leonel Brennaman and Thomas Ferrell are enrolled for the Hawk portion of the Missile Maintenance Officer course.

Casper Basham (Safeguard) and Edwin Grady (S&M) are at Watertown, Mass., this week for Ultrasonic Inspection at the Army Materials and Mechanics Research Center.

In Illinois are Hubert Tatum (Lance) and Jesse Woodlee (S&M). The former is at Rocket Island for Designing Quality Programs while the latter is taking the Land Combat Missile course at Savannah.

Two more employees of the Supply and Maintenance Directorate are at the Frankford Arsenal in Philadelphia this week for an Infrared course. They are John Reppert and John Yankowski.

Clyde Bridewell (Safeguard) is enrolled for training with the Air Force while Charles Berry (Dragon) is studying with the Navy. Bridewell is at Wright-Patterson AFB, Ohio, for Management of Value Engineering and Berry is taking the Procurement Executive Refresher course at the Naval Materiel Command in Washington.



RETIREES—Paul R. Fisher, education specialist in the Military Personnel and Administration, Army Missile Command, retired from active service after more than thirty years. This is Fisher's second retirement at Redstone Arsenal. He retired from active Army service in 1958 as a sergeant first class, and immediately took up the reins he dropped—becoming the post's education officer. He plans to remain in Huntsville.

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Redstone Arsenal Special Services has set up a garage where active duty and retired military personnel and their dependents can work on cars. In addition to providing the garage, Special Services has tools, equipment, and trained personnel on hand to assist or advise individuals on some of the problems that arise.

Discussing the popularity of the automotive craft shop, Robert L.

Henson, Crafts Director, pointed out some of the projects that are currently underway in the shop.

A beautiful lime green 1955 Chevrolet over in the corner was the first project for discussion. Spec. 5 John Beno, an electronics instructor at the Army Missile and Munitions Center and School told about buying the old Chevy for about \$250 and deciding to convert it into a dragster.

He stripped it down and took it to a body and paint shop in Huntsville where it was painted a shocking lime green, then he brought it back out to the craft shop and went to work. The standard 283 engine he stripped, rebored .060 and con-

verted it to a 292 cubic inch engine complete with chrome plated valve covers and air cleaner.

Beno then installed a Hurst Shifter on the floor in place of the conventional shift on the steering column and extra instruments on the dash to check rpm and engine temperature.

While he was installing a 1957 Pontiac rear end on his car, Beno confided that he had between \$2500 and \$3000 in the car, but if he won one or two drag races, he could recoup expenses within a very short time.

Talking about the services offered, Henson introduced W. W. Bing and Alfred Lankford, two qualified instructor mechanics who are on duty whenever the craft shop is open.

According to Bing, the shop is a center of activity during operating hours. Spec. 5 Earnest White, Headquarters & Headquarters Det., Missile Command, who was working on the brake drums of his Buick, does a lot of his car repairs in the shop because it saves him money.

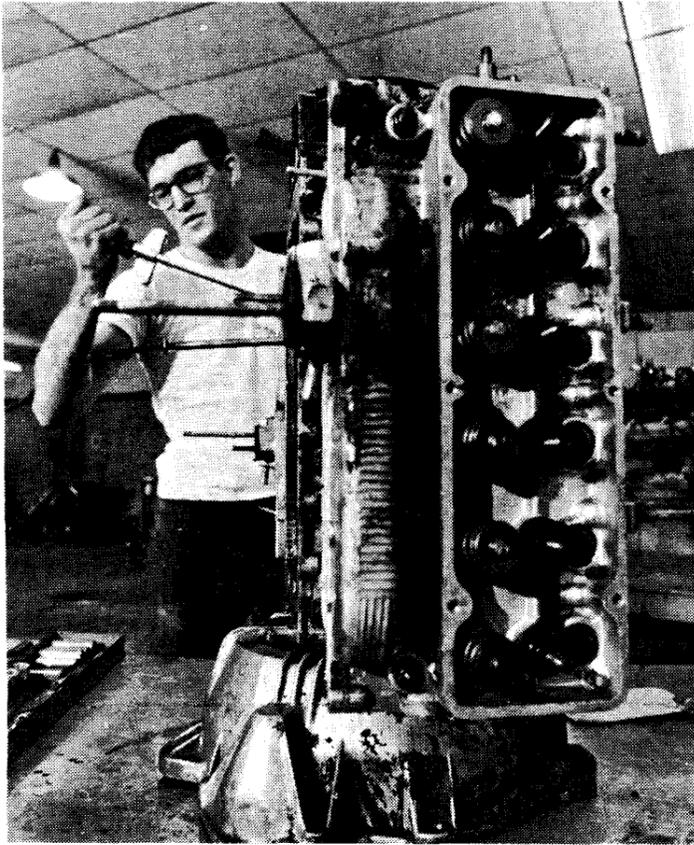
Further down the line PFC Donald Kocher was overhauling a Corvair engine. Kocher, a member of the 291st MP Co., plans to completely overhaul his Corvair during his spare time utilizing the craft shop and tools to do the job. Bing maintains that all minor

auto repairs can be done in the shop and any major repairs can be accomplished through an arrangement with a machine shop in town. Unfortunately there are no facilities for body work and painting, but there are places in town that are recommended to craft shop patrons.

Capt. Paul Jensen, Special Services Officer, extends an in-

invitation to all eligible personnel to utilize the facilities of the automotive shop in Building 3617 just behind Rod and Rake. The Shop is open Monday through Friday from 1:30 p.m. to 10:00 p.m. and on Saturday from 9:00 a.m. to 5:30 p.m.

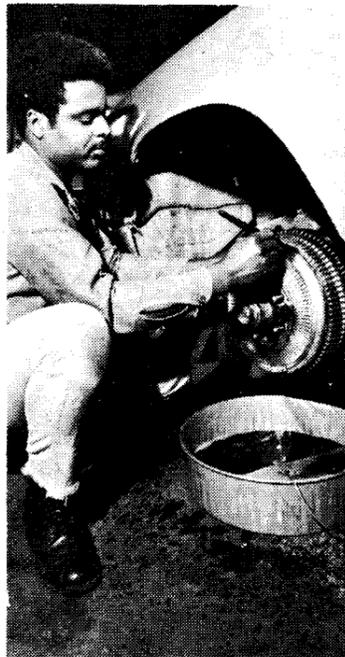
Further information can be obtained by calling Special Services at 876-2501 or 876-3696.



OVERHAUL JOB — PFC Donald Kocher uses a torque wrench on the Corvair engine he is overhauling in the Redstone Arsenal Automotive Craft Shop. Facilities of the shop are open to active duty military and retired personnel and their dependents. Kocher is using shop facilities and tools to overhaul his car in his spare time.



SUPER DRAGSTER — Spec. 5 John Beno, an electronics instructor at the Missile School discusses work on his engine with W. W. Bing, right, instructor in the Automotive Craft Shop. Beno has converted an old 1955 Chevrolet into a sharp lime green dragster. He has done all the mechanical work in the Hobby Shop, and expects to use his green beauty on the drag strips sometime in the future.



SAVES MONEY — Spec. 5 Earnest White, Hq & Hq Det., Army Missile Command, uses facilities of the Craft Shop to clean and check the brake drums on his car. White performs much of the maintenance on his car, saves money and enjoys working at the hobby shop.

WANT ADS

WANT AD RATES—\$2.50 minimum per weekly insertion, covering first 25 words. 5 cents per word for all over 25 words. Cash with copy, except where open account basis is previously established. 25c service charge added for credit. Mail copy with payment to Mrs. Vergie Robinson, P. O. Box 346, Room 908 Times Bldg., Huntsville. Deadline is Friday noon, before Wednesday publication.

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2. Cars

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3. Miscellaneous

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Air Defense Contracts Let

Two contracts, totaling more than \$14.8 million, have been awarded by the Army Missile Command for work related to air defense missile systems.

Larger of the awards, for \$11,615,000, went to Raytheon Company at Andover, Mass., for 70 engine ring services on Improved Hawk.

The other contract, for \$3,199,507, went to Western Electric Company for engineering services on Nike Hercules. Most of the work will be done at Western

Electric's plant at Burlington, N.C.; at General Electric in Syracuse, N.Y., and at McDonnell Douglas at Titusville, Fla.

Hawk is the Army's air defense system that can search out and destroy enemy aircraft at low altitudes. Col. J.R.M. Covert is Project Manager.

Nike Hercules is the United States' primary high altitude air defense system. Col. M.W. Pettitt is Project Manager.

Both systems are managed by the Army Missile Command.

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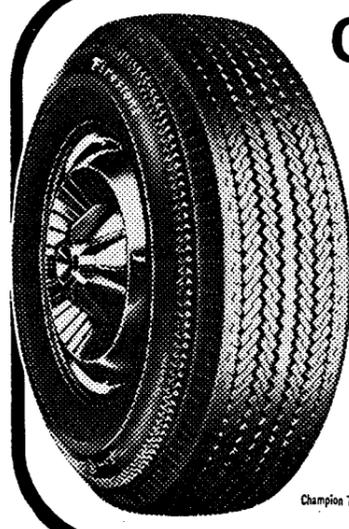
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