

Gen. Hurst Awarded Oak Leaf Cluster To Medal

Brig. Gen. Richard M. Hurst had an Oak Leaf Cluster added to his Legion of Merit Medal during retirement ceremonies at the Redstone Arsenal Parade Field Friday afternoon.

Ceremonies included a Retreat Parade and Review, and a flyover by Army aircraft.

Gen. Hurst was one of five men honored. All retired from the Army Sept. 30.

Col. S. A. Hall, Special Assistant to the Commanding General of the Army Missile Command, and an oldtimer who has served in various assignments at Redstone, was among the retirees. Also included were Col. Frank E. Napper, M/Sgt. Eldridge D. Walker, Jr. and M/Sgt. Samuel T. Houston.

Visitors for the event were Maj. Gen. John A. Barclay (ret.), former Commander of the Army Ballistic Missile Agency, and subsequently Deputy Commanding Gen-

eral for the Army Ordnance Missile Command, and Brig. Gen. John G. Zierdt, representative of Lt. Gen. Frank S. Besson, Commanding General of the Army Materiel Command. Gen. Zierdt also was formerly associated with the Missile Command at Redstone.

Among troops in the parade were Japanese trainees from the Ordnance Guided Missile School.

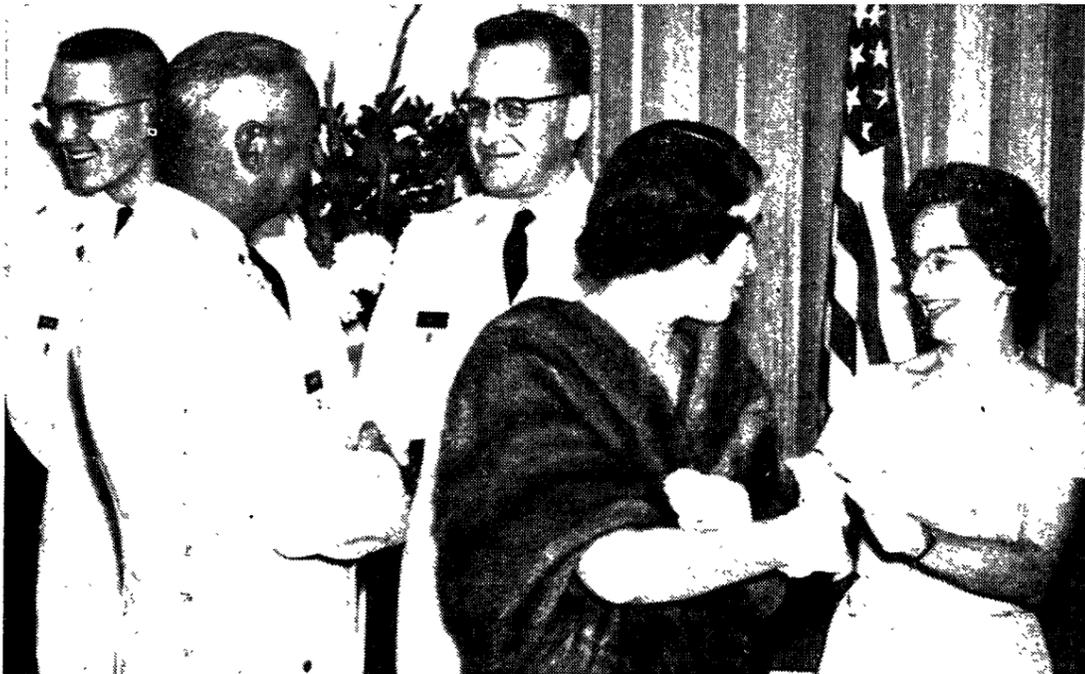
All of the detachments in the Missile Support Command and the Ordnance Guided Missile School were represented in the parade.

The 55th Army Band played for the ceremony.

Gen. Hurst accompanied Maj. Gen. Francis J. McMorrow, Commanding General of the Missile Command, the reviewing officer, in trooping the line by jeep.

Lt. Col. R. N. Ross was Commander of Troops.

Approximately 1,000 spectators witnessed the ceremonies.



GOOD LUCK—Brig. Gen. and Mrs. Richard M. Hurst are given best wishes by Col. and Mrs. Oliver M. Hirsch in their new life in the Boston area. They plan to live in Massachusetts, now that General Hurst has retired from active Army Service. Col. Hirsch acted as master of ceremonies at the farewell reception in the Hawk Room at the Squirrel Hill Officers Club Friday night. More than 300 guests attended the event.

The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

OCTOBER 3, 1962

Western Electric Receives Zeus Development Contract

The Army awarded a \$147,331,931 contract to the Western Electric Company Friday to continue development and testing of the Nike Zeus anti-missile missile system.

The funding is a continuation of previous awards to Western Electric and its subcontractors and extends research and development work on the system for an additional 12 months. Funds to produce and deploy the system are not included in the contract.

Nike Zeus is the only system in advanced development in the Free World designed to provide active defense against missile attack. The system is designed to use advanced radars and electronic computers in a fully automatic operation to detect, track, intercept and destroy attacking ballistic missiles.

The Zeus system scored its first intercept of a special ICBM-type target vehicle in a test at Kwajalein Island during July. A major portion of Fiscal Year 1963 funding for the system will be used for further testing at far flung test sites.

Other system component testing will continue at Bell Telephone Laboratories, Whippany, N. J., at White Sands Missile Range, N. M., Pacific Missile Range Headquarters, Pt. Mugu, Calif., and Ascension Island on the Atlantic Missile Range.

Western Electric Company, system prime contractor, has major plants in Burlington and Winston-Salem, N. C. Sub-contractors and suppliers who will share in FY 63 funding for the system include Bell Telephone Laboratories, Whippany, N. J., responsible for

system design and development; and Douglas Aircraft Co. of Santa Monica, Calif., builders of the missile.

Other subcontractors sharing in the funding are Goodyear Aircraft Co. of Akron, Ohio; Continental Electronics of Dallas, Texas; Aveo Research Laboratories of Everett, Mass.; and Cornell Aeronautical Laboratories at Buffalo, N. Y.

Others are Continental Can Co., Coffeetown, Kan.; Remington Rand Univac, St. Paul, Minn.; Sperry Rand at Great Neck L.I. and New Mexico State University at Las Cruces, N. M.

The Army Materiel Command supervises the Nike Zeus development program. The Project Manager, Col. I. O. Drewry Jr., and his staff have headquarters at Redstone Arsenal. The New York Ordnance District administers the contract.

HAWK CONTRACT GIVEN RAYTHEON

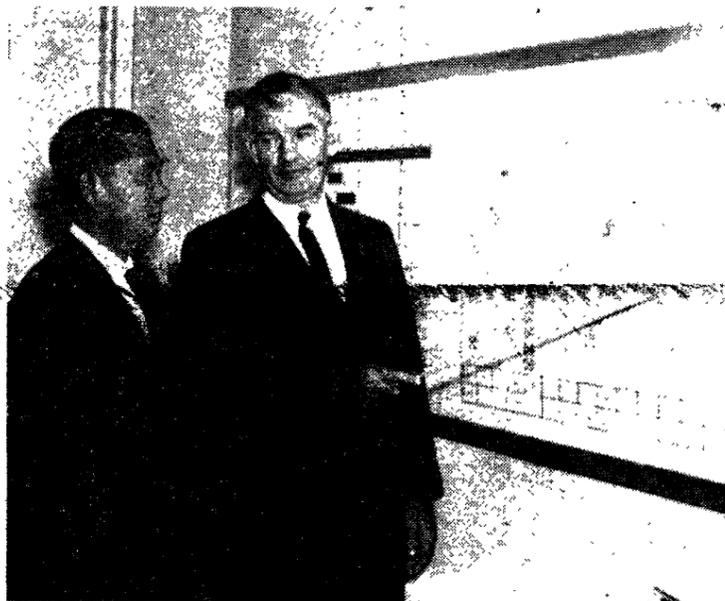
The award of a \$1,112,226 contract to the Raytheon Company, Lexington, Massachusetts, Sept. 25 is for production of depot maintenance equipment for the Hawk air defense guided missile.

Eighty percent of the work authorized under this contract will be done at Oxnard, Calif. and the remaining portion at Andover, Mass.

The U. S. Army's Hawk is an operational air defense system designed to defend against high performance aircraft attacking at tree-top level.

UGF SCOREBOARD	
	% Pledged
Msl Cmd Staff	33
Proc & Prod Dir	92
Research & Dev	34
Sply & Maint Dir	78
Msl Spt Cmd	29
Guided Msl Sys	
Hawk	49
Nike-Herc	51
Nike-Zeus	No Report
Mauler	No Report
OGMS	43
Area Engineers	No Report
Bal Msl Sys	
Pershing	44
Sergeant	59
Missile "B"	No Report
Msl Intell	6
Thiokol	37
Rohm & Haas	60

% Participation	
Msl Cmd Staff	32
Proc & Prod Dir	94
Research & Dev	35
Sply & Maint Dir	86
Msl Spt Cmd	28
Guided Msl Sys	
Hawk	55
Nike-Herc	55
Nike-Zeus	
Mauler	
OGMS	42
Area Engineers	
Bal Msl Sys	
Pershing	32
Sergeant	54
Missile "B"	
Msl Intell	11
Thiokol	33
Rohm & Haas	41



VISITOR FROM THAILAND—Okey D. Lambert, Chief, Department of Defense and International Standardization Office, Army Missile Command, (on right), explains the principles of the Defense Department's Standardization Program to Col. Prayul Ratanakich of the Royal Thai Army.

Thai Chief Of Staff Studies U. S. Defense Program Here

Col. Prayul Ratanakich, Chief of Staff of the Thailand Armed Forces Industrial Department, was welcomed to Redstone Arsenal this week, by Col. Foster L. Furphy, Chief of Staff, Army Missile Command.

The Department of Defense and International Standardization Office of the Directorate of Procurement and Production were selected by the U. S. Defense Department to instruct Col. Ratanakich for two weeks in the principles and operation of the U. S. and International Defense Standardization Program.

The program at the Missile Command has been termed "the most progressive in the entire Department of Defense."

From information gathered during the visit, Col. Ratanakich expects to initiate a similar standardization program for the Thailand Armed Forces.

Col. Ratanakich has served as an officer in the Royal Thai Army since 1925. Included among his decorations are the Most Noble Order of the Crown of Thai and The Most Exalted Order of the White Elephant.

PATENT CENTER PROCESSES 18 INVENTIONS

Eighteen new inventions were filed by Army Missile Command scientists and government contractors during August, according to Missile Patent Center officials.

The new patents and their inventors were disclosed in the first issue of a patent digest, successor bulletin to the Army Missile Patent Center Weekly Report of Activities. The Patent Digest is issued on a monthly basis.

In addition to patent disclosures, legal process for the award of patents was begun on five Missile Command inventions during August. A patent for desensitization of high energy propellant by Barry D. Allen, Walter W. Wharton, and Edgar F. Croomes of the Physical Sciences Laboratory now being processed has already received a special achievement award from Army Research and Development Office for making a significant breakthrough in the field of liquid propellants.

46% Pledge UGF Contributions In First Week

Response to the United Givers Fund Campaign by Arsenal personnel chalked up a first week total of 46 per cent pledged of the fair share potential. This was done by 44 per cent participation of military, civilian and contractor employees.

Horace Lowers, Executive Chairman of the Redstone drive, said that the report is greatly encouraging. He added, "Our Redstone UGF Chairman, Maj. Gen. Francis J. McMorrow, asked in his keynote speech that the campaign workers solicit early. He also encouraged all persons to participate through donation."

"If the response of those not yet participating equals the response of those in the first report, our drive will be of short duration. Also, we will have assisted our community which has expressed a need to us in terms of \$497,000, the round-figure UGF budget for the county in which the arsenal is located. Other surrounding counties have additional needs, and many UGF donations have been designated to those counties by our personnel."

Donations collected during the first week amounted to \$38,224.10. Not all pledges were paid during the first week.

Lowers stated that a letter had been received by Civilian Personnel from Charles Hendrix, President of Lodge 1858, American Federation of Government Employees. In the letter Hendrix said:

"Many of our members as well as non-members are asking what is AFGE's stand toward the United Givers Fund Drive? In brief may I say our union favors and supports the humanitarian principle which caused the drive to be launched in the first place. We all realize the money donated serves many useful purposes, many of which would be impossible without our joint support. We urge our members to join in our United effort and to give a fair share if at all possible to do so."

"May we remember that we have many people who are in dire circumstances and need help. We also know what we have crippled children and disabled adults who are looking to us to lend a helping hand. There are many more worthy welfare functions that a civilized society must of necessity be burdened with, and we all share in the obligation to fulfill this mission."

"Those of us fortunate enough to have good jobs and are able to have and enjoy the fruits of a bountiful life should stop long enough to consider how well off we are, and do some sober thinking when we are about to decide whether to give a fair share or not. I have been assured that no high pressure tactics will be used this year, and for this reason I urge our membership to give a fair share if at all possible."

(See UGF on Page 3)

The Redstone Rocket

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Rocket Ruminations

It is a socialist idea that making profits is a vice;
I consider the real vice is making losses."
—Winston Churchill

Wonderful Time Of Year

Few Federal installations have the scenic advantages found at Redstone Arsenal. Broad wooded flatlands bounded between the North Alabama hills gain a special attraction in the fall.

Already we can see the changes taking place in the drab tired green of late summer. Reds and yellows of the sassafras and Dogwood are mingled with the browns and golds of the oaks and the deep greens of the pine and cedars.

This is a particularly wonderful time of year to take a few minutes each day to enjoy the changes that now come almost over night.

A Farewell Message

TO MEMBERS OF THE U. S. ARMY

"On the eve of my retirement from active service, I wish to express to each member of the Army my lasting gratitude for the magnificent support you have given me during my period of service as the Chief of Staff.

"The exceptional skill and dedication to duty of all ranks have been instrumental in developing a highly professional force unsurpassed in effectiveness in the Army's peacetime history. Your high esprit, your resourcefulness in overcoming obstacles, and your willingness to sacrifice, even your lives if need be, have been sources of inspiration and pride to me. I commend you for your important contribution to the security of the Free World, and I share with you the sense of personal gratification that I know each of you must derive from a superb performance of duty.

"It has been a rare privilege to have had the opportunity to serve with you as the Army's first soldier. Though I shall terminate my official ties with you, my personal interest in you and in the Army's future shall never wane. I wish for each of you, and your families, continued success and happiness as you go forward in service to the nation."

GENERAL G. H. DECKER
Chief of Staff
United States Army

Libbe Elected President Of Travel Group

The Redstone Recreation Association elected Herman Libbe president at a recent meeting during which planned trips sponsored by the association were also discussed.

Coordinators were named for trips during the coming year. Coordinator for an overseas tour is Libbe; a tour of the Caribbean,

John K. Morris; winter sports trip, Gary Fust; opera, Mrs. Arthur Gallager; skin diving, Dick Dixon; Mardi Gras, Mary Jo Smith; Mexico, S. Luna; and Halloween party, Holm Hinrich.

The Association will meet again Oct. 10 in the Trailer Music Company auditorium at 7:30 p.m.

Membership in the association is open to contract, Civil Service and Military personnel as well as the Marshall Space Flight personnel.

The Association was formed "to foster and enhance the social and recreational opportunities of its members and their immediate families as a non-profit organization".

Fire Prevention Stressed Oct. 7-13

Redstone Arsenal will press home the lessons of Fire Prevention week with demonstrations and other fire safety activities designed to build up recognition of the year-long need for fighting the menace of fire to life and property.

In announcing the Arsenal's anti-fire program, Col. Thomas W. Cooke, Installation Commander, pointed out that it carries out the directive to Federal agencies contained in President Kennedy's Proclamation setting aside Oct. 7-13 as a week devoted to reducing fatalities, injuries and losses to the nation's economy from fires. The proclamation directs Federal agencies to take part in campaign in which the President has invited the public to participate.

The Arsenal's program includes displays of fire protection materials and equipment, fire inspections, special inventories of protection equipment for adequacy and operability, checking and eliminating potential fire hazards, testing alarm systems, fire drills, and similar activities. Fire safety posters keyed to the attack on fire will be posted on organization bulletin boards.

Based on the latest Federal Fire Council statistics, Federal fire losses in buildings and contents, averaging about \$13,246,162 a year over the last 10 years, stood at \$23,028,500 in fiscal year 1961. Some of this increase was due to more complete reporting. The total reported fire loss for the Federal Government, worldwide, was \$151,719,800. At Redstone Arsenal, fire loss for fiscal year 1961 was \$10,125. The estimated loss for 1962, Army and Non-Army, was \$103,883.

Preliminary figures indicate that 175 men, women and children died from fire causes on Federal property, worldwide, in fiscal year 1961. Of this total, 34 deaths were from fires occurring in buildings. This latter figure compares with 25 fire fatalities in fiscal year 1960 and the ten-year annual average of 26 deaths from fire. At Redstone Arsenal there have been no fatalities caused by fire since 1950.

"We cannot afford," Col. Cooke said, "to take a complacent attitude when 43 per cent of all fires in Federal buildings have their origin in electrical and heating equipment, matches, smoking,

EMPLOYE DEVELOPMENT OPPORTUNITIES

The Training and Development Division, Civilian Personnel Office, Army Missile Support Command today announced the following courses for employe development:
Next Week: 8-12 Oct.

- Corrosion Control
- College Algebra
- Basic Infrared
- Advanced Circuitry
- Work Simplification
- Military Correspondence (Refresher)
- Time and Attendance Cards
- Plain Letters
- Reading Improvement
- Undergraduate Study
- Graduate Study
- Engineer & Scientist, GS-5 Level
- Near Future:
- Introduction to Transistors
- Basic Supervision
- Conference Leadership
- Preparation of Travel Orders and Vouchers
- Telephone Manners
- Pert Orientation
- Pert (Critical Path Method)
- Advanced Infrared

sible for most fires. There is a pressing need for all of us to be constantly aware of what constitutes good fire safety. Often we know what to do—but don't do it. I have directed my Fire Prevention personnel to carry out an active prevention program not for a week but from October 1962 to October 1963."

Manager: "Where'd you get the black eye?"

Traveling salesman: "It's a berthmark. I got into the wrong one on the train last night."

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or flammable liquids and over one-third of the forest fires on Federal lands result from man-causes. The lack of proper attitudes, habits and training of people are respon-

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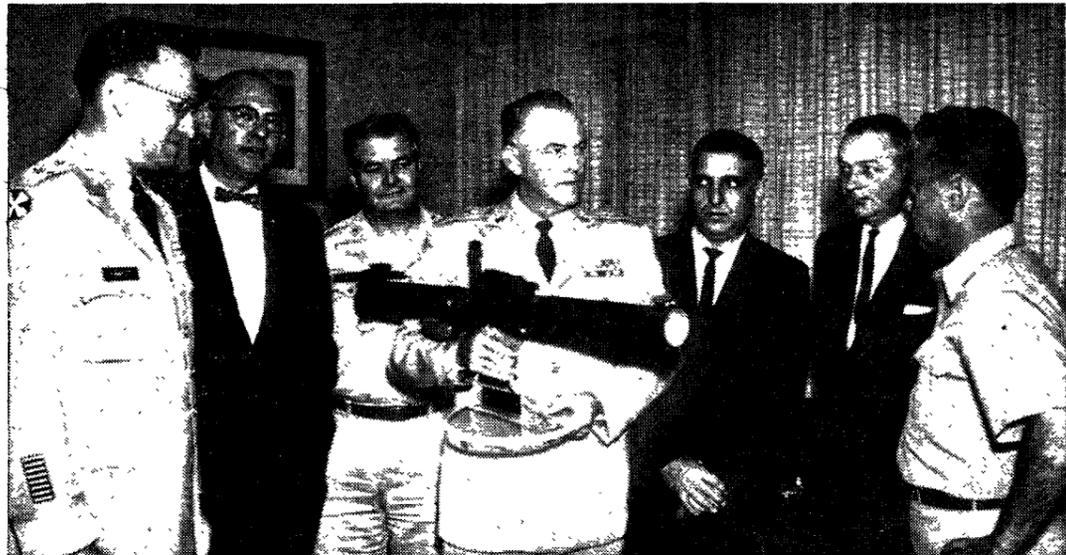
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A LITTLE WEAPON ADDS A BIG PUNCH—Maj. Gen. F. J. McMorrow, Commanding General, Army Missile Command, holds the M72 LAW presented to him by Maj. P. A. Pencola (right) Product Manager. This particular M72 was one of the first to come off the line after mass-production was instituted. Taking part in the informal presentation were, left to right: Brig. Gen. Richard M. Hurst, Deputy Commanding General, Ballistic Missiles; W. C. Rotenberry, under whose direction the development program was initiated in 1958; Lt. Col. D. J. Walsh, Jr., who supervises production and procurement of the LAW; L. N. Nicastro, who supervised the weapon's development in the Directorate of Research and Development; and Wiley O. Sanders of the Directorate of Supply and Maintenance.

Pocket Rocket Added To U.S. Arsenal; First M72 LAW Produced Goes To CG

America's foot soldier will soon find another potent punch added to his growing stock of weapons, courtesy of the Army Missile Command at Redstone Arsenal.

The first mass-produced M72 Light Anti-tank Weapon (LAW) was presented to Maj. Gen. F. J. McMorrow, Commanding General of the Missile Command, and to Brig. Gen. Richard M. Hurst, Deputy Commanding General, Ballistic Missiles. This new weapon was developed under Gen. Hurst's command.

Presentation of the lightweight one-man weapon was made by Maj. P. A. Pencola, Product Manager for LAW. He told Gen. McMorrow that while the rocket was small in size, it was a big addition to the foot soldier's arsenal.

In accepting the weapon, Gen. McMorrow said:

"I want to express my complete satisfaction with this weapon, and my appreciation to all of the people who made this project come through so quickly. I know that I can speak for the troops in the field who will be happy to have this weapon added to their arsenal."

Gen. Hurst, whose retirement

from military service was effective Sunday, September 30, also expressed his pleasure on having the M72 placed in mass production. He said he was particularly pleased that it came before his retirement since the early research and development had also been his responsibility.

The M72 LAW is a small, light and simple-to-operate individual soldier weapon. It can be carried and fired by one man using its disposable packing container as a launcher.

The weapon a joint Army-industry development, is highly effective against tanks, armored vehicles, concrete bunkers, earth filled log emplacements and sand bag fortifications.

On hand for the presentation in Gen. McMorrow's office were W. C. Rotenberry, under whose direction the development program was initiated in 1958; L. N. Nicastro, who supervised the weapon's development in the Directorate of Research and Development; Lt. Col. D. J. Walsh, Jr., who now supervises its production and procurement; and Wiley O. Sanders of the Directorate of Supply and Maintenance.

The Army Missile Command at Redstone Arsenal was the agency responsible for the overall development of the M72 LAW.

The four and three-quarter pound M72 is carried over the shoulder in a throw-away case that serves as the launcher. Each rocket is fitted with a canvas sling to permit shoulder carrying. The carrying case is 25 inches

long and two and three-quarter inches in diameter. A telescopic aluminum inner section is extended prior to firing. The outer section is made of fibreglas plastic composition. The weapon can be fired from a standing, kneeling or prone position.

A solid propellant rocket motor furnishes propulsion and burns out before the rocket leaves the tube. When the rocket emerges, six narrow magnesium fins, folded against the motor case when packed in the tube, spring into position and stabilize the rocket in flight.

Aiming is accomplished by a rear peep sight and graduated sight imprinted on a clear plastic rectangle at the mouth of the launcher tube. Firing is accomplished by squeezing the trigger which is mounted on top of the launcher tube.

The warhead uses a powerful new Army Ordnance-developed explosive known as OCTOL. Teamed with the 90mm Recoilless Rifle, the new rocket will satisfy the Infantry soldier's need for protection against enemy tank attacks.

The Hesse-Eastern Division, Flightex Fabrics, Inc., Everett, Mass., was the prime systems contractor during the R&D effort. That company is now producing the launcher; Norris-Thermador and Harvey Aluminum are producing the motor metal parts; Hercules Powder Company produces the propellant at Radford Ordnance Plant; Eastern Tool Company produces the warhead metal parts; Zenith Corp., produces the fuze; final loading, assembly and packing will be performed at Lone Star Ordnance Plant.

UGF

(Continued From Page 1)

"Support of the UGF campaign by this organization, and other groups, is greatly appreciated," said Lowers.

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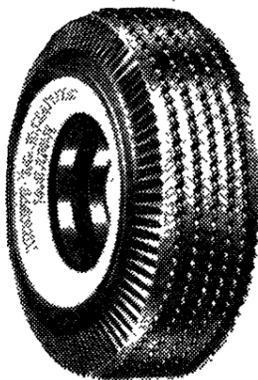
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850x14	40.40	26.40
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29.90	19.15	710x15	25.15	16.25	
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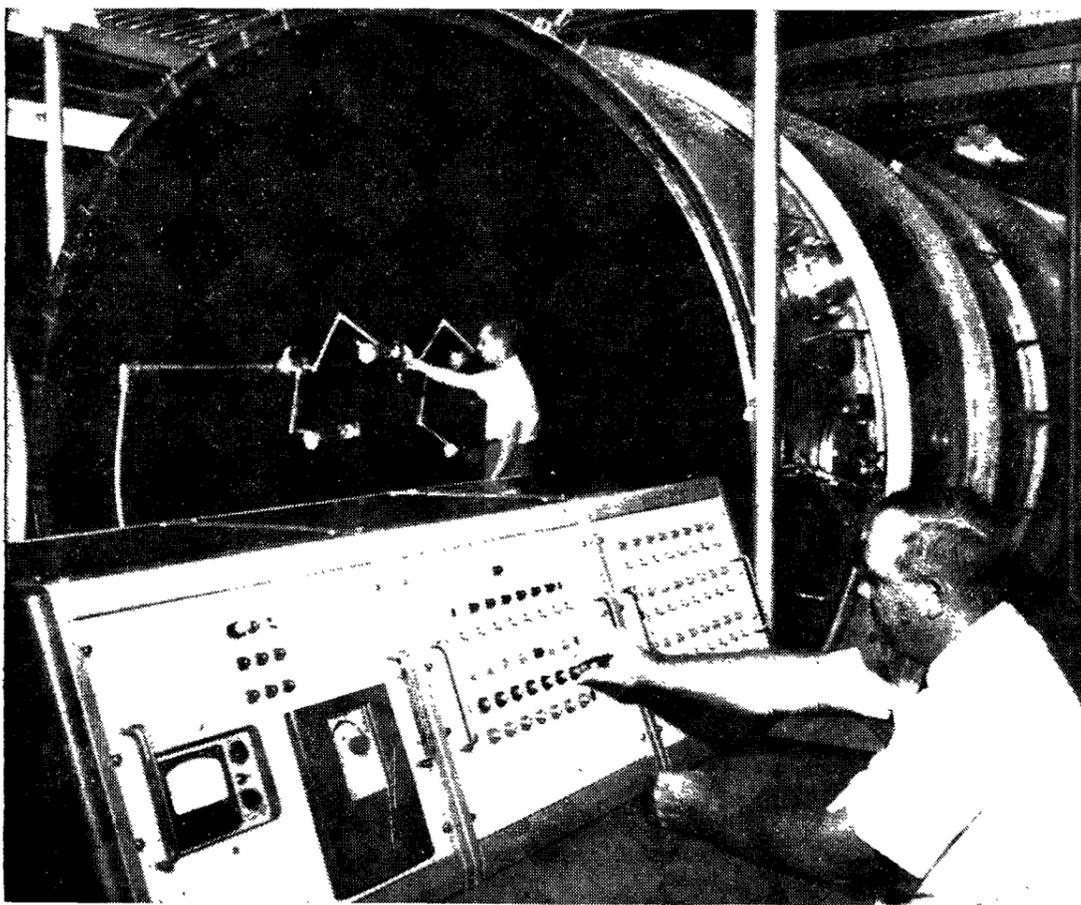
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MAMMOTH VACUUM CHAMBER—Tom Crick (at control panel) and Jerry Matthews, both general engineers with the Test and Evaluation Laboratory of the Directorate of Research and Development, inspect a new vacuum chamber capable of simulating altitudes up to 200,000 feet. The chamber is closed by a door of one-half-inch steel which rolls back and forth on a track. Panel in the foreground has controls for the vacuum and compressor pumps which control the air-flow in and out of the chamber.

NIKE ZEUS TESTED AT WHITE SANDS

The Army's Nike Zeus anti-missile was fired successfully in a test Thursday at White Sands Missile Range, New Mexico. The Nike Zeus roared from its above the ground launcher, all three stages of the 48-foot missile were fired in the test. Primary test objectives were met. The Nike Zeus is under the management of the Army Materiel

Command. Project management is centered at Redstone Arsenal, and Col. Ivey O. Drewry Jr. is Project Manager. Bell Telephone Laboratories are responsible for system design and development and Western Electric Company is prime contractor. Douglas Aircraft Company builds the missile. The solid fuel motors which power the Nike Zeus are made by Thiokol Chemical Corporation under subcontract to Douglas.

Missilemen Build Vacuum Cleaner For Army Missiles

A pressurized steel chamber capable of simulating altitudes up to 200,000 feet has just been completed in the Directorate of Research and Development, Army Missile Command. The chamber will also be used to dry and remove residue from liquid engines after firing and before they are refueled.

Called the vacuum drying facility, the chamber was built by SPACO for the DR&D Test and Evaluation Laboratory. Tom Crick, technical supervisor of the project, is a general engineer for the laboratory.

The tank is 12 feet in diameter and 51 feet long, large enough to hold any rocket engine in the Army program. Because most of the Army's rocket engines use solid propellant, the chamber will be used primarily for high altitude performance of various missile and rocket components, Crick said.

The chamber has infrared type heaters to aid the vacuum process when the facility is used to dry liquid engines. After the engine is dried and all moist air is evacuated from the chamber, a filter is used to thoroughly dry the air that is pumped back into the chamber. The compressor which forces air into the chamber is oil free to make sure that hydrocarbons do not enter the air around the dried engine.

The chamber is fabricated of three-eighth inch thick steel, and contains two sections. A 35-foot section may be separated from the smaller 16-foot section to save operating time and provide quicker pressurization when the space of the complete unit is not required.

When the 16-foot section is used, the compressors require one hour and twenty minutes to simulate the maximum 200,000 feet altitude, and two hours and twenty minutes if the full 51 foot chamber is used.

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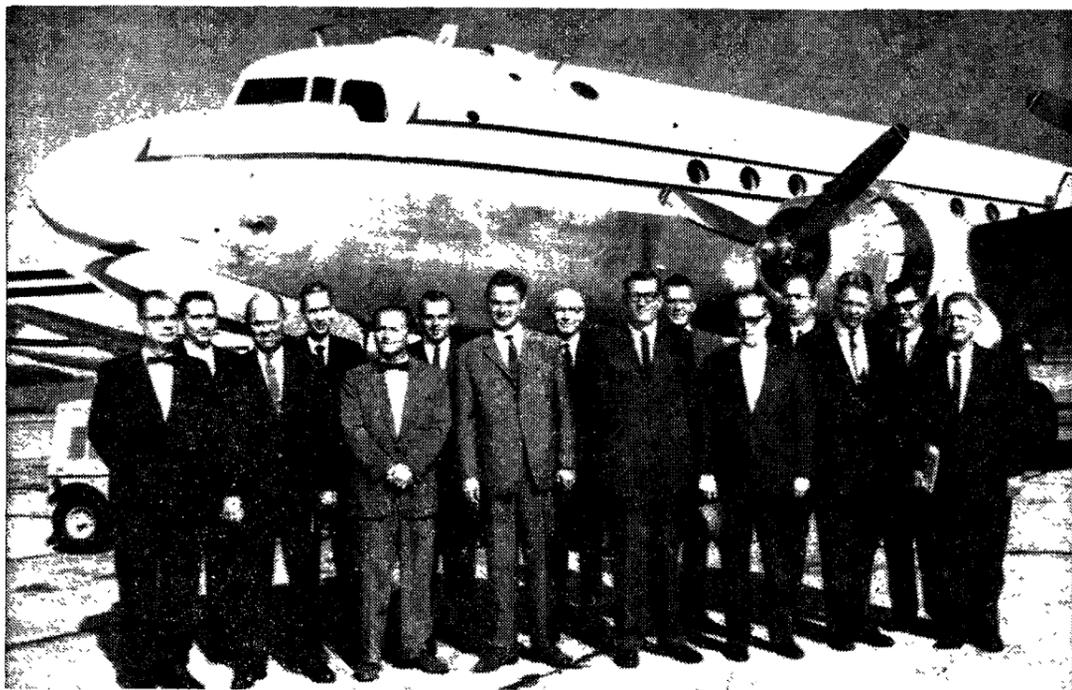
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READY TO TAKE OFF—for Auburn University

Joint Graduate Study Group Visits, Tours Campus At Auburn University

Members of the joint Army Missile Command-Marshall Space Flight Center Graduate Study Steering Committee and representatives of Huntsville industries allied with Redstone Arsenal activities were guests Friday at Auburn University.

The group of 17 men flew to Auburn from Redstone Army Airfield. Upon arrival at the University, they were taken on a tour of the campus and into laboratory facilities which are available for research in missile and space fields and other areas of advanced study.

Members of the Auburn faculty and administration leaders were on hand to host the Redstone group. Those making the trip included:

Dr. Marvin Hall, James Norman, John P. Hallows, H. A. Heithecker, John Hinkle and Joseph Fisher of the Army Missile Command.

Dr. William Johnson, Dr. John

Gayle, Clyde Hightower and Helmut Bauer of MSFC.

Allen Deschere, Rohm & Haas; Joseph Peters, Boeing; Dr. T. A. Neely, Thiokol Chemical Co.; A. R.

Trahern, Chrysler Corp.; Jarru C. Crews, Brown Engineering; Dr. Rudolph Herman, University of Alabama; Donald Denholm, Brown Engineering.

CIVIL ENGINEERS SCHEDULE MEET

The Alabama Section of the American Society of Civil Engineers is holding a one-day technical meeting in Huntsville on Friday, Nov. 2.

The morning session will consist of four papers on various aspects of facilities required for transporting and launching

NASA's advanced space vehicles.

During the afternoon there will be a field trip to the George C. Marshall Space Flight Center at Redstone Arsenal.

The meeting will close with a banquet and dance Friday evening. A special ladies program has been arranged.

Persons interested in attending this meeting should contact W. J. Connell, Jr.

MONEY

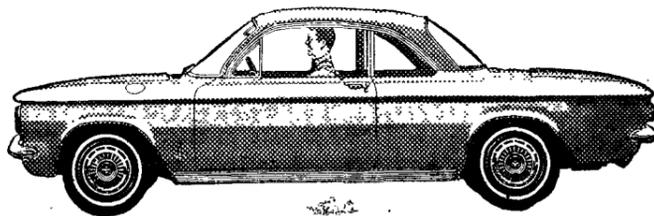
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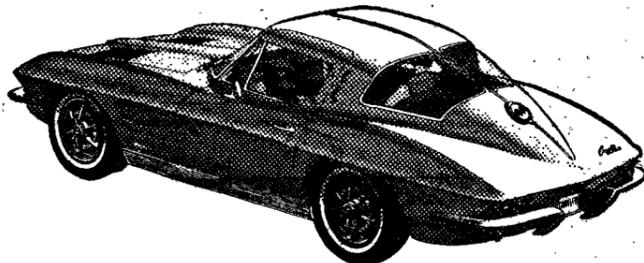
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Sports by Handy

By Sgt. Robert Handy

Football

In a constant downpour, 300 spectators braved the elements to see another close football game played in the Redstone League.

The confident Knights played the A-Bombs. This was the Knights first game of the season.

The A-Bombs kicked off to start the game. Before the Knights had their helmets on the short kick was recovered by the A-Bombs.

The Knights defense held the A-Bombs on the 50 yd. stripe for three downs. On the 4th down punt, the ball was returned to the 35 yard line of the Knights. A series of line plunges and end runs took the Knights to the 10 yard line where the Knights fumbled. A seesaw struggle followed with both lines weak and the backfields slow. The Knights got another break late in the first quarter when Turner intercepted a pass on the A-Bombs 10 yard line. The A-Bombs charged through to recover a fumble on their own 15 yard line, then moved down field to the Knights 10 yard line.

The Knights defense stiffened and held, and the A-Bombs lost the ball on downs.

The Knights kicked out of danger and A-Bombs recovered on the 40 yard line of the Knights. The first quarter ended with no score.

The Knights held the A-Bombs and on the fourth down punt, the Knights fumbled on the 1 yard line and the A-Bombs were in scoring position early in the second quarter.

On the next play, Elliott plunged through center for the first score of the game. The try for ex-

tra point failed, making the score 6-0 in favor of the A-Bombs. Kick-off by the A-Bombs set the ball to Sanborn of the Knights on the 15 yard line. He ran 85 yards for the tying score at 6-6. The A-Bombs started a passing attack, and on a 40 yard pass to Bulle, who dropped the completed pass, then lunged forward and recovered in the Knights end-zone for a 6 point score.

On the try for extra point, Marlar caught a pass for the extra 2 points and adding 8 points to the A-Bombs making the score 14-6. On the kickoff, Sanborn, of the Knights, zig-zagged back to his own 40 yard line. The Knights tried a pass, intercepted by the A-Bombs on their own 40 yard line.

The half ended with the score 14-6 in favor of the A-Bombs.

At the start of the third quarter, the Knights began with a head-of-steam that evaporated after a few plays. It was a matter of time before the charging A-Bombs took control of the game, but to the surprise of everyone the Knights defensive team began to function as a team and stopped the A-Bombs, even though their own offensive was stopped.

The Knights started a drive which came to nothing when Evans fumbled on the A-Bombs 45 yard line. They then intercepted a pass on their own 45 yard line. The game continued in this manner, fumbles and interceptions, until the end of the third quarter.

The fourth quarter started with the score 14-6 and it looked as though the Knights were beaten. Their line began to leave holes for the A-Bombs, and their backfield offensive drive was not there. Only the bad kicks by the A-Bombs kept the Knights hopes alive.

As the game got down to the 2 minutes left in the fourth quarter, the A-Bombs began to freeze the ball. Fans began to leave with the A-Bombs on their own 20 yard line.

The strategy of staffing backfired on the A-Bombs. A 5 yard penalty for too much time moved

them back on their own 15 yard line. Two plays later they were pushed back to the 10 yard line, and on the fourth down kick, which went to the A-Bombs 40 yard line, Sanborn of the Knights was run offside on the A-Bombs 30 yard line.

With 55 seconds left in the game Evans took the ball around end and went 30 yards for the score making it 14-12 in favor of the A-Bombs.

The A-Bombs were still sure of the game. They had stopped the Knights at the line all night, and had been intercepting passes. A kick would still leave the Knights one point short. With 15 seconds left, Sanborn took the hand-off and went through the strong center of the line. He took three linemen of the A-Bombs over the line into the end zone tying the game at 14-14.

The A-Bombs made only two more plays before the end of the game. The loudspeaker system at the field carried the main points of the Patterson-Liston fight to the spectators.

Bowling

There are still openings in some bowling leagues, and a lot of teams need individuals, so call 876-4160 and get into the fastest growing sport in the States by participating, by starting your own team, or by joining a team.

The teams and leagues are for military personnel and for that one night out, no better activity can be found than bowling. A new trend is opening for the youngsters of Redstone families, junior bowling.

To start, adult instructors are needed. There are instructors in "little league baseball," "little league football", so why can't the adult personnel be eager to help the kids learn bowling.

If enough instructors, men or women, are interested, then an instructors clinic would be held at the RSA Bowling Lanes at a convenient time so that bowling instructions would be a pleasure instead of an inconvenience. The leagues formed by the kids would be on Saturdays. Junior Bowling has taken big strides toward the sportsmanship and teamwork of the younger generation.

Leagues have been formed in Huntsville already, and the lanes in Huntsville desire competition with the Redstone teams. The question is, can Redstone find enough adults interested in their kids to help them for two hours on Saturdays for three months at the most. Any parent or adult interested can call 876-4160 for information.

To give the youngsters an idea what is in store for their efforts, The American Junior Bowling Congress has published the following program: Membership Card to each member. All boys and girls who have not reached their 19th birthday before Sept. 1 may become members. Sanction Certificate is issued to each league. A minimum of eight members is necessary to form a league. Leagues may be composed of all boys, all girls, or mixed. Teams may be composed of one, two, three, four, five or more members.

A monthly magazine is sent free to each coach and manager and team captains. Stars of the Lanes emblems are awarded to all those who qualify by having their high game or series listed in the magazine.

Sports Car Buffs

By Ray Mosling

Approximately 25 sports car enthusiasts gathered at the Huntsville Speedway on Sept. 23 for the fourth in the current series of five SCCA Championship Autocross events.

Appropriately named "Little Daytona," the course covered about one-third of the speedway and most of the paved infield. A few contestants attempted to use other portions of the area before the event had ended, however.

The event was conducted in fine color, including green and checkered flags at the start-finish line and a safety crew at the first turn after the long straight portion.

The course was tight in the infield, but fast on the speedway. The smaller cars appeared to have the edge in the infield portion, but the larger cars got their chance on the long straight approaching the finish line.

At the finish, the following class winners were determined: 0-1300cc—Bob Johns (Boeing), driving an Alfa, 2:06.1 minutes; and Dan Pollard (AMC), MG-TD, 2:07.8 minutes. 1300-1600cc—Ray Mosling (Thiokol), Porsche, 1:58.5 minutes; and Bill McClain (Philco), MGA,

CLAIMS. H. R. 4131 authorizes the Comptroller General to waive indebtedness growing out of erroneous payments of money to any civilian officer or employee of the Government and any member of the uniformed services. Extends similar authority to heads of departments for waiver of such indebtedness where amounts do not exceed \$150. Passed House; pending before Senate Judiciary Committee.

2:02.9 minutes. 1600-2000cc—John Hardiman (Florence), TR-3, 2:03.3 minutes; and Bob Cortner (Linde), TR-3, 2:03.6 minutes.

Over 2000cc—Gene Salyer (Consolidated Systems Corp.), AH-3000, 1:57.9 minutes; and J. J. Carlin, AH-3000, 1:59.8 minutes. The Ladies' class was won by Peggy Neal (Southerlin Blue Print Co.), driving her Alpine, with a time of 2:13.1 minutes.

Everyone thoroughly enjoyed the chance to try a completely different type of course: The organizers, Dick Heckman (Thiokol) and Joel Blatt (AMC) deserve a big hand for their efforts.

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Bowling Score Board

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Sept. 27, 1962

	Won	Lost
Raiders	26	6
Lucky Strikes	24	8
Black Jacks	22	10
King Pins	22	10
Pin Splitters	16	16
Jupiters	12	20
AF Juplos	4	28
Hopefuls	2	30

SATURN BOOSTER LEAGUE

A-Division	W	L
Arrowhead Products	14	2
Norris Riddle Furn.	11	5
Martin Co.	8	8
Brown Engineers	8	8
Republic Aviation	8	8
Hilding Holmberg	8	8
Redstone Mach & Tool	8	8
Tenn. Valley Oxygen	7	9
Huntsville Trailer Ct.	6	10
Filter Queen	2	14
B-Division	W	L
Murphree Mortgage	14	2
Redstone Fed. Credit		
Union	11	5
Lockheed	9	7
Modern Machine	9	7
Hayes Designers	8	8
Hayes Top Seven	8	8
Tri-Lanes	8	8
Progressive Welders	7	9
C. W. Stewart Mach. Co	4	12
Hayes Ex-Cons	2	14

Boy Scouts Hold Court of Honor

Lt. Col. Raymond Hansotte, OGM-S, was the guest speaker at the quarterly Court of Honor conducted by Troop 234, B. S. A., of Redstone Arsenal, on Tuesday, Sept. 25. Lt. Col. Hansotte discussed the meaning of the Scout Laws and the relationship between Scouting and the military and civilian professions.

Chaplain (Capt.) R. G. Cook gave the invocation and benediction.

CWO Spencer F. Ball, the Tennessee Valley Council neighborhood representative, presented the Scoutmaster. Lt. Col. W. R. Phillips, with the renewed charter and the 100% "Boys' Life" award.

Advancements were awarded to the following Scouts:

Life: Ed Woods.
Star: Ricky Burleson, Ivan Cancel, Walter Lloyd, Henry Holmes, and David Smith.

1st Class: Edgar Cancel, Robert Fatheree, Glenn Hagen, Robert Phillips.

2nd Class: David Ballard, Steve Belcher, Ross Humphries.

Tenderfoot: David Ballard, Douglas Humphries, Ross Humphries, Lucius Lloyd, Brian Gee-

At the Service Club

By Brenda Hanson

As we leave September behind, we are made to be aware of the Season approaching us by observation of the wondrous works of nature.

The leaves are beginning to glow with variations of color schemes, the air is getting a little chillier, and Halloween lurks there at the end of the month to usher us into the season for holidays.

There are numerous amounts of things to look forward to in the oncoming days of October, and high on the list of pleasant occasions are the Service Club programs scheduled for October.

As we move into a new season, plan ahead for all the holidays and celebrations to come. The Halloween Costume Dance and Rhythm Romp Dance will require some dancing skill on your part. So now it is time to prepare by enrolling in the Dance Classes held in the main Lounge each Wednesday at 6 p.m. for beginners and 8 p.m. for advanced. On Wednesday, Oct. 3, the EM Council will meet to discuss the month's activities and make advance plans for the month of October. If you have a suggestion for entertainment at the Service Club, pass it on to the representative from your company. We are always open for suggestions for the program.

On Oct. 4 at 7:30 p.m. Card games will be played here at the Service Club. If you enjoy cards, come down with your favorite opponent and challenge him to a game.

Friday, Oct. 5, Stop the Music will be played at 8 p.m.

Then on Oct. 6, Saturday, we have a Shuffleboard Contest scheduled for 8 p.m. Prize will be given to the winner. The more people we have to enter the greater the prize. So why not, its free.

At 7:30 a.m. is Sunday morning Coffee Call.

We invite you for hot coffee and donuts. Then the Sunday night record dance will begin at 2000 and go through 2300. The

han. Ken Birkenstein, Senior Patrol Leader, was awarded the Scout Life Guard award.

A total of 62 merit badges were awarded to 18 Scouts. Senior Scout awards, year pins, and perfect attendance awards were given.

Lt. Col. Phillips awarded Shiloh medals to the 16 Scouts who participated in the 14 mile hike over the Shiloh battlefield.

It was announced that Bob Sims, son of Lt. Col. L. P. Sims, USAF, who recently transferred from Troop 234, completed his Eagle Scout requirements before he left and the award has been forwarded to his new troop.

Maj. Philip Burleson, advancement chairman of the troop committee, conducted the meeting.

theme for the Record Dance is "Fire Prevention Record Hop."

Monday night Oct. 8 is game night, with prizes waiting. The games will start at 8:15 p.m. in the main lounge.

Looking into the future, I see a remarkable array of interesting things to do, including Five Cokers, a Costume Dance at Halloween. I'm mentioning this dance a little early, but I would like to see a lot of costumes here that night and I thought a little advance notice might come in handy. Be looking around for costume ideas. Bed sheets make wonderful Romans out of ordinary people, the beatnik costume is usually popular, and the more traditional ghosts, witches and ghouls are always appropriate at Halloween.

Miscellaneous

The Post-Wide Table-Tennis

Movie Schedule

WEDNESDAY, October 3
"Hey, Let's Twist" (M-YP)
THURSDAY-FRIDAY, Oct. 4-5
"Advise and Consent" (M)
First show 5:45 p.m.
SATURDAY, October 6
"Ring-A-Ding Rhythm" (F)
SUNDAY-MONDAY, October 7-8

Tournament was won by PFC Klaus Lewejohann, 3rd ETC. A trophy was presented to Klaus and also a unit trophy to his Company.

The Runner-up was SFC Kazuo Kobayashi, UTC. Congratulations to both. They both displayed an array of skill and talent. See ye at the Service Club.

"No Man Is an Island" (M-YP)
TUESDAY, October 9
"Seven Seas to Calais" (M-YP)
Two shows nightly at 6 and 8:30 p.m.
Saturday matinee at 1 p.m., and Sunday matinee at 2 p.m.

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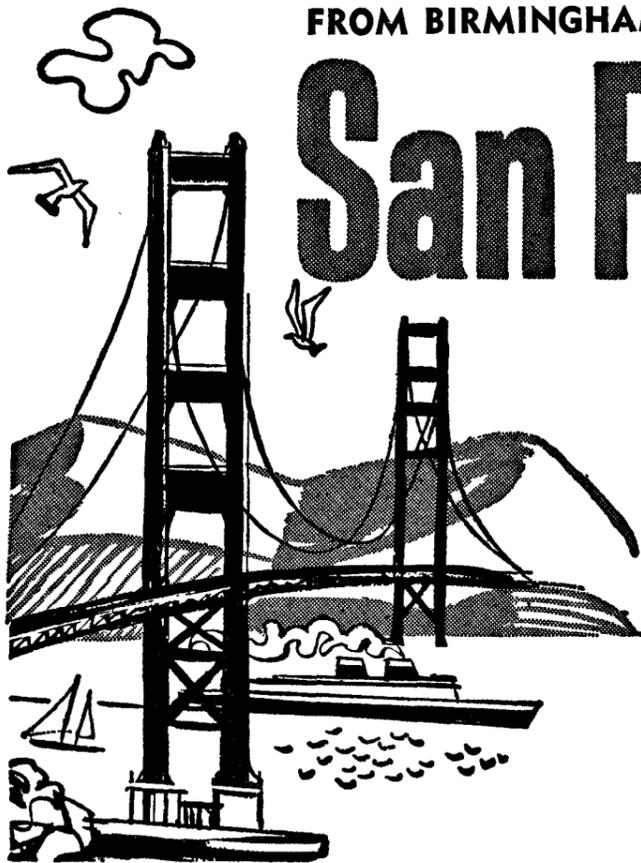
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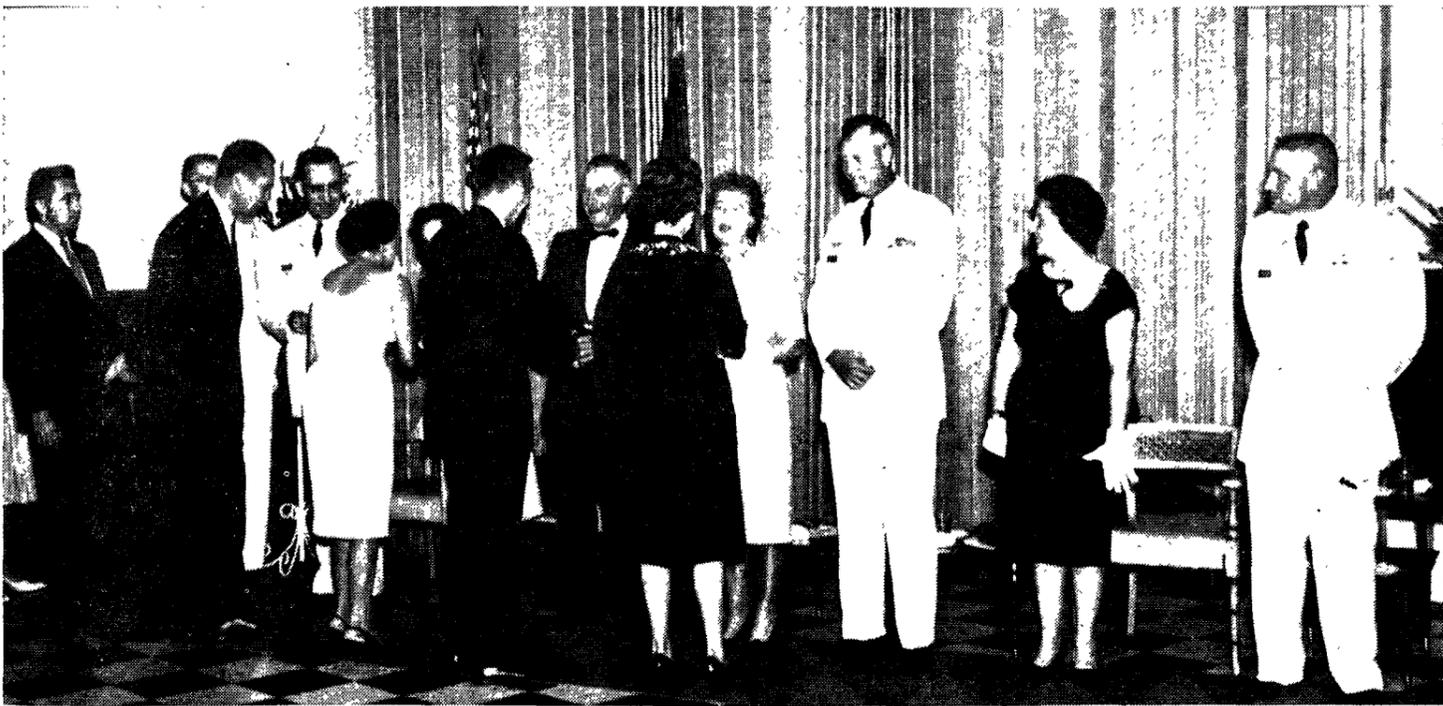
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RECEPTION HONORING RETIRING OFFICERS—Brig. Gen. and Mrs. R. M. Hurst Friday night headed a reception line which held three officers beside the General retiring from active Army Service. In the line, (left to right) are Gen. and Mrs. Hurst, Col. S. A. Hall, Special Assistant to Maj. Gen. F. J. McMorrow, Commanding General of the Missile Command; Mrs. F. E. Napper and

Col. Napper, Deputy, Directorate of Production and Procurement; Mrs. and Lt. Col. Joseph N. Baer, Hercules Project Manager. The officers were honored at a Retreat Parade and Review at the Arsenal parade field earlier. More than 300 well wishers attended the reception.

cy; a pair of cannon replica bookends by Watertown Arsenal, now a part of the Missile Command and a post which the General once commanded.

From the local Commands he received plaques, missile models, and his portrait. Presentations were made by Col. William Macpherson, Commandant at the Ordnance Guided Missile School, Col. T. W. Cooke, Commander of the Army Missile Support Agency, Col. Raymond W. Burkette, Director for Research and Development, Col. Ernest V. Lau, Director for Production and Procurement; Col. Robert W. Van Wert, Director for Supply and Maintenance; and Pershing Project Manager, Col. Oliver M. Hirsch (who also was master of ceremonies).

The General was also presented a letter of Appreciation from Leo Codd, Executive Secretary of the American Ordnance Association. Maj. Gen. Francis J. McMorrow, Commanding General of the Missile Command, made the presentation.

In addition, a special delegation from the Martin Company at Orlando attended the reception honoring Gen. Hurst.

Also among the guests were Maj. Gen. John A. Barclay (ret) and Brig. Gen. John G. Zierdt.

The Marshall Space Flight Center was represented by Dr. Eberhard Rees, who presented a scroll to Gen. Hurst.

GALA HAT PARTY

A fall hat sale will be sponsored by the Redstone Catholic Women's Sodality on Wednesday, Oct. 10th from 10 a.m. until 6 p.m. in the Social Room of the Post Chapel.

Over 300 new fall hats in a variety of styles and fabrics will be sold for less than \$5.00 each for the benefit of Cuban Relief. Many fall accessories will also be available. All area ladies are invited to attend by the Sodality.

SOCIAL ^{and} CLUB EVENTS

NCO Wives Sponsor Paper Moon Ball At NCO Club

The NCO Club Auxiliary held a Paper Moon ball with everyone dressed in tatters last Thursday night at the NCO Club.

Games, dancing and a judging for the "tackiest couple," the worst dressed man and woman were all a part of the entertainment.

Prizes for all events were contributed to the Auxiliary by merchants in the Holiday Shopping center.

S/Sgt. and Mrs. John Sloan were judged the "tackiest couple." Mrs. Edward Powell and S/Sgt. Bill Lowery were the worst dressed man and woman in the group.

One of the projects the Auxiliary has undertaken this year is partial support for families in need of help in the area.

The next scheduled special event will be a Halloween Ball.

FLEET RESERVE ASSOCIATION FORMED HERE

A Fleet Reserve Association for all retired Naval men and Reservists with over six years of active service is being formed in Hunts-

Bake Sale Planned By Chapel Group

The Protestant Men and Women of the Chapel will sponsor a bake sale Saturday in front of the Main Post Exchange between 9 a.m. and 2 p.m.

The group is asking for contributions of baked goods in addition to those being furnished by members of the group. Pies, cakes and pastries of all sorts are needed according to Mrs. Stuart Aiken, 877-5863, coordinator.

Proceeds are marked for a child to be supported through the Save the Children Foundation, Inc. Approximately \$150 provides food and clothing for one year for a child selected from an area where the need is greatest. Overseas welfare representatives select the recipients.

ville.

The Group will meet at the U. S. Naval Reserve Training Center at 7:30 p.m. tomorrow.

Details can be obtained by calling Chief Malcolm Lipsey or Chief Guy Carter at the Training Center.

300 Attend Reception Honoring Gen. Hurst

Brig. Gen. and Mrs. Richard M. Baer.

Hurst were honored at a Farewell reception at the Squirrel Hill Officers Club as a part of the retirement ceremonies which began at a Retreat Parade and Review for the General and three other officers Friday.

The others in the reception line included Col. Sylvester A. Hall, Col. and Mrs. Frank E. Napper, and Lt. Col. and Mrs. Joseph N.

More than 300 guests from the Arsenal and the surrounding community were on hand to honor the retirees.

Gen. Hurst was presented a chitum wood gavel by Walter Linde, president of the Chamber of Commerce, as a token from this section of North Alabama; a permanent certificate as a "Citizen of Huntsville" by Mayor R. B. Sear-

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Radio Physics Is Main Topic At IRE Meeting

Radio physics was the major topic Friday night at a meeting of the Huntsville Chapter of the Institute of Radio Engineers at the Squirrel Hill Officers Club.

John L. McDaniel, chairman of the Huntsville Section of IRE, said a forthcoming merger of the IRE and the American Institute of Electrical Engineers also will be discussed. McDaniel is technical director of the Directorate of Research and Development in the Army Missile Command.

The merger will occur less than a year before the tenth anniversary of the Huntsville Section of IRE. The section, which includes North Alabama, North Mississippi, and Tennessee, began with less than 100 members in November 1953. Membership is now more than 900, including student chapters at several universities within the section boundaries.

McDaniel said the international merger has already been approved by members of both organizations, and is now scheduled for January 1, 1963. Physical integration of the local sections and chapters is tentatively planned for completion before the end of this year.

Dr. James B. Dozier of the Research Projects Division at the Marshall Space Flight Center, will talk to the group on radio astronomy instrumentation. The presentation of several awards also has been scheduled.

This is the group's first meeting under the new board of officers which took office September 1. Delman E. Rowe, director of the DR&D Electromagnetic Laboratory, is the immediate past section chairman.

Other officers are: Harold Hufnagle, MSFC, vice chairman; Ray Watson, Brown Engineering, program chairman; Jim Butler, Chrysler, publicity chairman. Other Missile Command personnel holding office are W. B. Millsap, treasurer; Bill Lindberg, membership chairman; Bill Gudaitis, awards chairman; James Norman, student branch chairman; Stephen L. Johnston, professional group chairman, and Lloyd Root, editor of "Live Wire".

Wives Club Plans Fall Flower Show

The Redstone Arsenal Officers Wives Club will hold a sherry-tea at the Squirrel Hill Officers Club Tuesday, Oct. 9 between 2 and 4 p.m.

Highlight of the afternoon will be a flower show featuring four classes of arrangements: oriental, chrysanthemums, dried materials, and foliage.

Arrangements will be accepted at the club on Oct. 9 between 10 a.m. and noon by the committee. Arrangements received after noon will be marked "too late for judging."

The rules state that both fresh and dried materials may be mixed but no artificial materials may be used except grapes.

The exhibit is open to all club members. Mrs. A. Birkenstein is handling the exhibits arrangements.

Editor To Address Chemists' Meeting

Mrs. W. T. Castles (Vera Kimball, editor of *The Chemist*) will be the speaker at the Oct. 9 meeting of the North Alabama Chapter of the American Institute of Chemists at the Russel Erskine. The meeting begins with a reception at 6 p.m.

Mrs. Castle's topic will be "Prelude to the Present." She and Mr. Castles will be guests of honor. Their home is in New York.

Martin Williams is handling mail reservations for the meeting. Phone reservations may be made through Oscar L. Hurtt at the H. K. Porter Company; in Decatur with George Gatcheff, Chemstrand, or James Mann, Minnesota Mining and Manufacturing; in Florence with Dr. Kleim Alexander at Florence State College; and in Huntsville with Lee Naftel, Marshall Space Flight Center; Dr. Charles Colburn, Rohm and Haas; John Miller, Thiokol; Dr. David Sayles, Army Missile Command, and Williams, Air Force.

The meeting is open to anyone interested. A special invitation has



GRAY LADY ORIENTATION—Lt. Col. Theresa S. LaPlante, Chief, Nursing Service at the U. S. Army Hospital at Redstone Arsenal, addresses a Red Cross Gray Lady class to outline the activities in which Gray Ladies participate at the hospital. Twenty-four Gray Ladies from Redstone Arsenal were enrolled in the two-day class last week. They will spend ten hours in active service before receiving caps on Nov. 29.

Mrs. Quantz Wins At Party Bridge

Mrs. Raoul J. Quantz was the winner among the nine tables of players at the meeting of the Party Bridge Group sponsored by the Redstone Arsenal Officers Wives Club last Thursday.

Second place was scored by Mrs. William R. Phillips and third place by Mrs. William M. Tarr.

Reservations during October will be handled by Mrs. Frank Moore.

Nondestructive Test Men Meet

The Society for Nondestructive Testing will hold the annual ladies night Oct. 8 at 6 p.m. at the Elks Lodge in Huntsville.

The evening's schedule includes a social hour, dinner and Hookey Fann, the Magic Man from Test Division, followed by dancing.

Earl J. Daugherty, program chairman has issued an invitation to all members and guests.

been extended the Tennessee Valley Chapter of the American Institute of Chemists.

Gray Lady Class Trains For Hospital Service

Twenty-four Gray Ladies, two will be forwarded to the new post.

Novices in the service include Mrs. E. R. Billings, Mrs. Gactano Caporale, Mrs. L. C. Cox, Mrs. DeBose, Mrs. Dennis Drewry, Mrs. Tom Gannon, Mrs. Grunden, Mrs. A. A. Hord, Mrs. James Hudgins, Mrs. H. J. Katz, Mrs. W. M. Lewis, Jr.;

Gray Lady orientation, which includes service at the U. S. Army Hospital on post, the various clinics, and the monthly visit of the Bloodmobile, was presented by members of the Volunteers, the Red Cross staff, and the Post Hospital staff.

The 12-hour instruction in the classroom is followed by ten hours of practical service in the clinics and at the hospital before the Gray Ladies are capped on Nov. 29.

Mrs. Benjamin Register and Mrs. Otis DeBose will complete as much of the service as time permits before the transfer of their husbands to new assignments. The records

Mrs. W. D. Lewis Mrs. Robert Loshbough, Mrs. C. M. Marshall, Mrs. James K. Osterman, Mrs. E. E. Pierce, Jr., Mrs. Benjamin Register, Mrs. W. F. Register, Jr., Mrs. Clyde Walworth, Mrs. R. G. Weber, Mrs. J. P. Dobbins, Mrs. C. W. Goldey, Mrs. K. L. Shave, and Mrs. Helmers.

Eighteen of the potential Gray Ladies also intend to study first aid. Three will be trained to work in the first aid room at a school in Huntsville.

Mrs. Ernest V. Lau is the Chairman of Gray Ladies at Redstone Arsenal.



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COL. WILLIAM J. NEWMAN
Col. Newman Is
New Comptroller

Col. William J. Newman is the new comptroller and director of programs for the U. S. Army Missile Command, according to an announcement by Maj. Gen. Francis J. McMorrow, Commanding General.

The Colonel came here from the Ordnance Office at the U. S. Army Headquarters, Pacific, where he was Chief of Ammunition and Special Weapons from 1959 until August of this year.

A graduate from Hardin-Simmons University at Abilene, Tex., with a degree in business administration, Col. Newman studied chemistry at Wayland Junior College in Plainview, Texas.

He entered the Army in April, 1942 as an enlisted man and attended OCS, Aberdeen, Maryland, where he was commissioned a second lieutenant in November, 1942. He served with the U. S. Army Forces in England, France and Germany during and immediately following World War II.

Col. Newman has had two assignments in the Office, Chief of Ordnance, and was in the Ordnance Office at U. S. Army Headquarters in Korea in 1953-54.

A native of Perryton, Texas, where his father, Claude I. Newman, still lives, the colonel is married to the former Miss Mary Jean Reynolds, daughter of Mrs. Leon B. Reynolds of Montgomery, Ala. They have three children: Donna Marie, 18; Jerome, 9, and Leon, 6.

Col. Newman is a member of the Alexandria-Washington Masonic Lodge No. 22 and a member of the Thirty-Second Degree Scottish Rite Consistory at Alexandria, Va. He is also a member of the National Sojourners, Hawaiian Chapter No. 9.

Among his hobbies are gardening, golf and fishing.

In 1954, he was awarded the Legion of Merit while in Korea. He also received the Bronze Star Medal while in Europe in 1945.

The family now lives at 50 Bomford Drive, Redstone Arsenal.

POTENTIOMETERS TO BE DISCUSSED

A technical seminar on precision and trimming potentiometers and associated components will be presented by Spectrol Electronics Corporation Oct. 11, at 9:00 a.m., Bldg. 4505, Room 300.

Speakers representing the San Gabriel, California based component manufacturer will be Don C. Fleming, Chief Engineer of Reliability, and David C. Hoos, Application Engineering Manager.

Fleming will describe the environmental testing and reliability program at Spectrol and will outline the dynamic concepts of environmental test programs in use at that company. By utilizing unique testing equipment and specially trained laboratory personnel, a large amount of environmental test data can be obtained with a high degree of accuracy, it is claimed. The testing programs to be discussed include design evaluations, qualification, safety margin, and destructive testing, as well as environmental sample testing.

David Hoos will discuss application problems in potentiometers and related components. He will describe available potentiometer types and styles, discussing the advantages of each in various applications. He will give specific examples of situations where potentiometers can be used to a cost advantage over other combinations



Lt. Col. William Graham

Col. Graham Gets Startling Welcome

When Lt. Col. William Graham stepped off a train to take over

of components.

Army Missile Command and Marshall Space Flight Center personnel and contractor personnel are invited by Spectrol Electronics and Edgar A. Moore & Assocs. to an "open house" after 5:00 p.m., Thursday, Oct. 11th, in Room 100, Holiday Inn.

an assignment as the United Kingdom's Liaison Officer to the Army Missile Command at Redstone Arsenal, he was greeted by banners and stickers stating "Welcome Billy Graham."

A couple of weeks later he met the President of the United States as an official escort for the Chief Scientist on the staff at the British Embassy in Washington, D. C.

The colonel is a graduate from the King's Durham University with degrees in mathematics and physics. A Fellow of the Royal Horticultural Society, he prefers raising prize vegetables to flowers.

Lt. Col. Graham entered the Army in 1941. He is a member of the Royal Electrical Mechanical Engineers and was the Officer

Field Maintenance in England before his present assignment. His successor, Lt. Col. W. D. H. Blackman, switched assignments with him. Lt. Col. Blackman was the Liaison to the Missile Command for two years.

Lt. Col. Graham served in the Middle East during World War II. After the war ended, he was reassigned in the Far East for two years. And from 1956-58 he was in West Africa.

Lt. Col. Graham lists golf and tennis as hobbies in addition to his gardening.

Mrs. Graham is scheduled to join him this month.

They will live at 1614 Clinton Avenue East.

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Tax Time Arrives

Tax time arrived this week in Alabama!

Personnel on Redstone Arsenal have until Nov. 15 to pay taxes and buy license tags for their vehicles. Tax assessors and collectors throughout the area are asking that these be done as early as possible in order to avoid last minute lines.

In Madison County, a Motor Vehicle License Department is set up in the Courthouse Annex to handle the auto tags. All paper work and taxes connected with the licenses are done in this office. In other counties the work is handled through the tax assessors and tax collectors.

Also in Madison County, license tags may be ordered by mail, using coupons being published in the Huntsville Times. Mail orders will cost 75 cents more, but will eliminate the need to visit the License Department in person.

Persons getting license tags must present their previous year's tag receipt. In cases where tags are being bought for a new car or for a recently purchased used car, owners must present their bills of sale.

Non-resident military personnel must send or present a non-resident affidavit when buying their auto tags. This will eliminate them from paying the Alabama ad-valorem tax.

In addition to the auto taxes, October 1 was opening day for assessing property and paying 1962 taxes. Deadline for paying ad valorem taxes in Alabama is Dec. 31.

This part of the tax affairs of Madison County and Huntsville is handled at the Courthouse. Deeds should be available for property being assessed for the first time. Persons re-assessing property should bring their last year's assessment sheet so as to shorten the time necessary to fill in these papers.

Remember, the tax offices in Madison County are open Monday through Friday. They are closed all day Saturdays.

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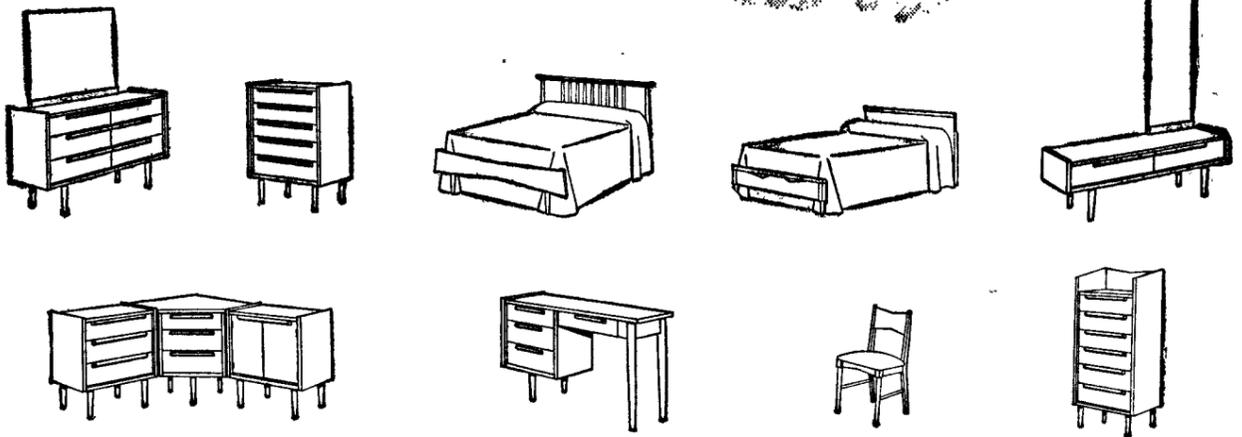
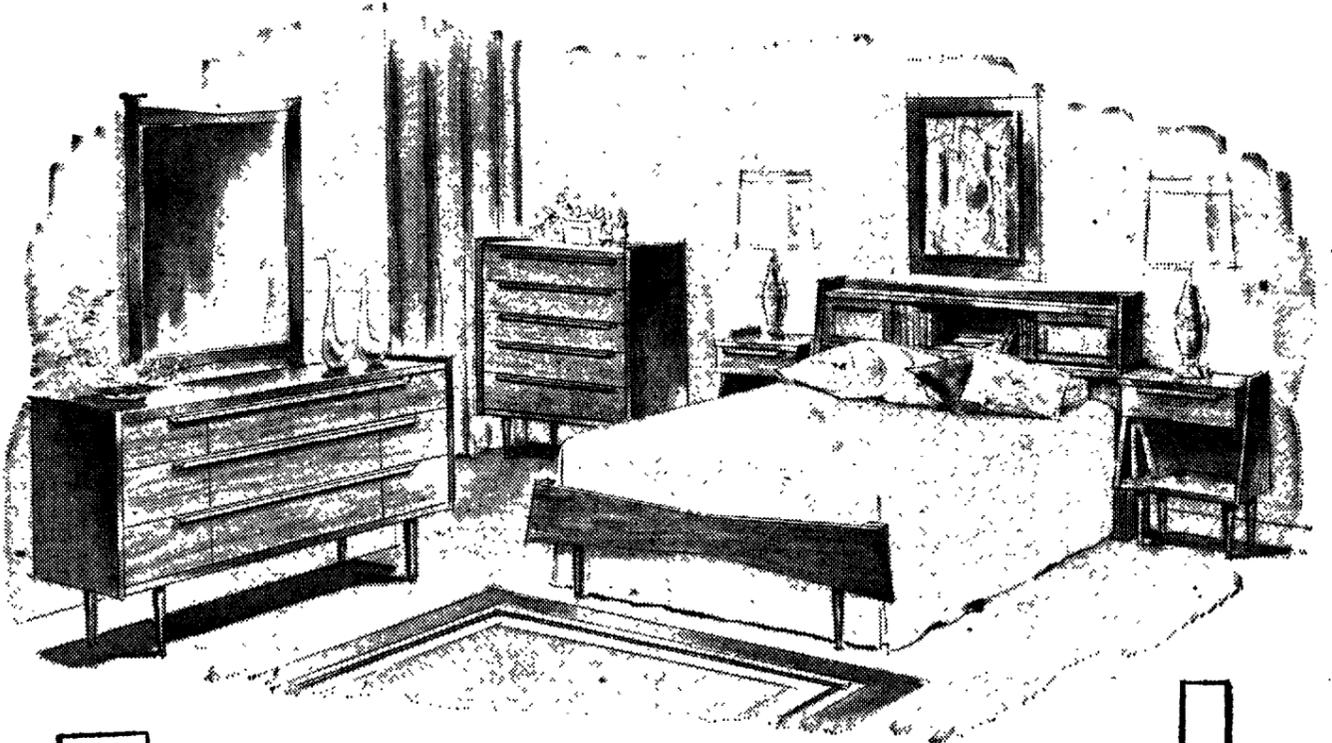
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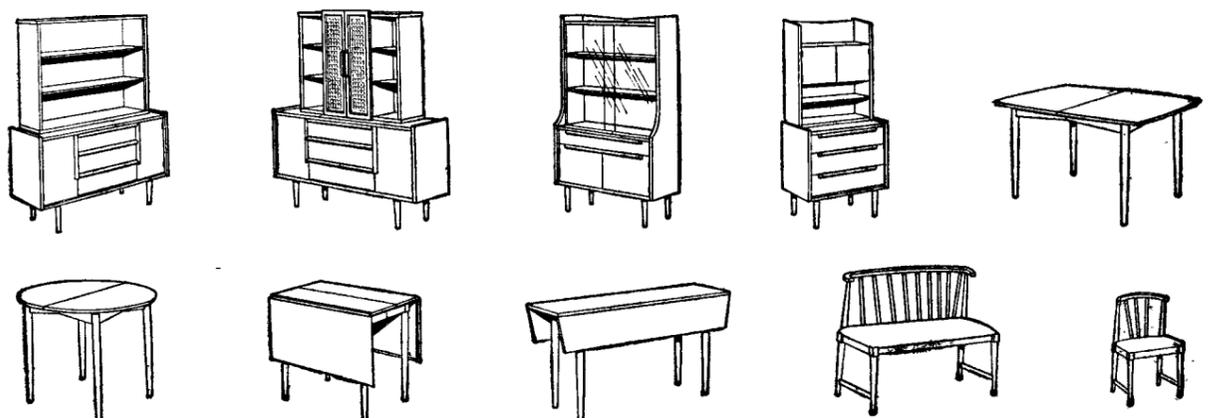
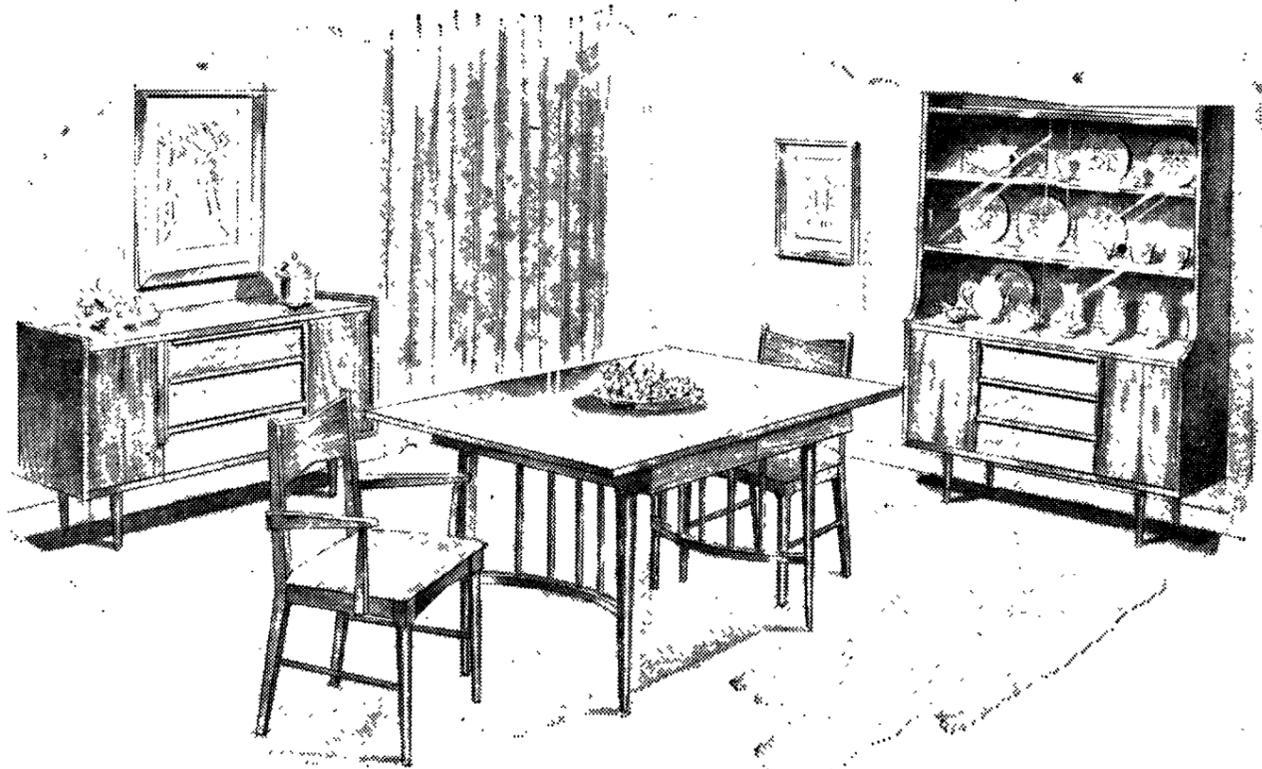
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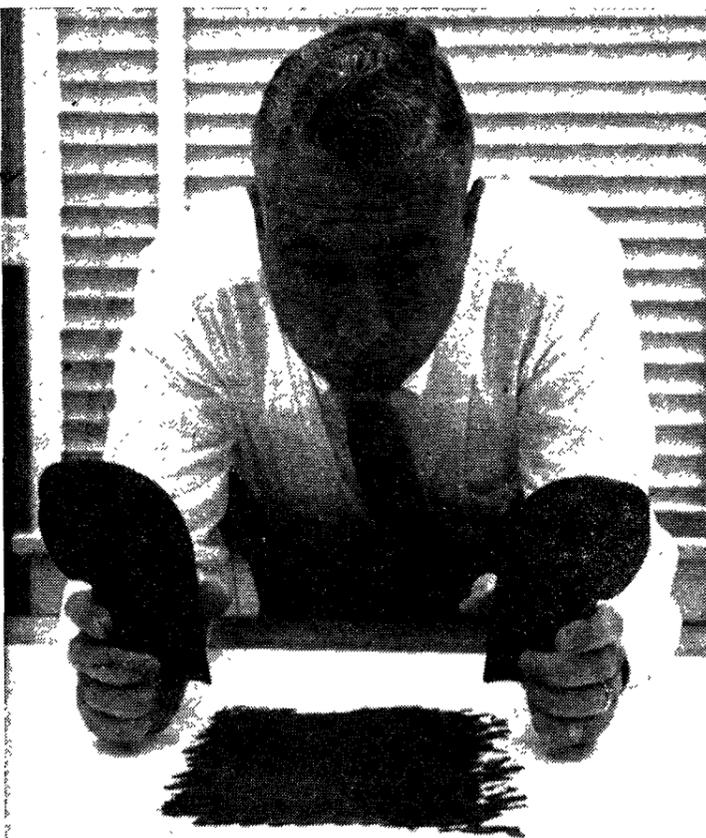


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"MAGIC CARPET"—Vernon Nieberlein of the Army Missile Command's Research Laboratory holds parts of a missile nozzle over a "magic carpet" of tungsten powder that will be used to coat the inside of the tube. The tungsten will help absorb the heat from burning missile fuel and cut down erosion on the nozzle produced by exhaust blast.

Missiles Flown On Magic Carpets Woven Of Metal

An Army Missile Command scientist is weaving a magic carpet designed to improve flight performance for Army Missile motors.

No fugitive from "The Arabian nights," Vernon Nieberlein of the Missile Command's Research Laboratory is using a new and inexpensive method of coating exhaust nozzles of missiles with a carpet of tungsten that keeps them from eroding.

"The method—technically known as vapor deposition—puts a layer of tungsten inside exhaust nozzles in a much better way than the old method of beating the tungsten into place by hand," Nieberlein said. "The 'nap' or grains of the tungsten carpet is perpendicular to the exhaust flow and cuts down erosion of the missile nozzle."

Explaining the new method, Nieberlein said, "The vapor method heats tungsten fluoride and hydrogen gases at high temperatures and forces the tungsten in the mixture to deposit itself on the graphite nozzle."

Nieberlein's method of carpet laying eliminates a ceramic cement used to bond the tungsten to the graphite and takes less time to

accomplish than the old method. It can even be turned into a mass production operation.

The vapor deposited tubes will be static tested with a rocket motor to prove the application of the new process in high speed solid fuel missiles.

Nieberlein is also experimenting with saturating sponge-textured graphite nozzles with a high heat resistant metal to improve nozzle performance. The gas mixture is a combination of tantalum chloride, hydrogen, and carbon monoxide.

The mixture is drawn through the pores of the graphite under high temperatures and locks itself in place. The result is tantalum carbide that can withstand heat from missile exhausts up to 7000 degrees Fahrenheit.

Working as a chemist in the Solid Mechanics Branch of Research and Development, Nieberlein has been using the vapor deposition method since 1957, when he helped to develop the process.

Now, the application for missile motors is being used for the first time to give Army missiles a magic carpet to ride on.

Pershing Meets Test Objectives

The Pershing ballistic missile was successfully fired in a test at Cape Canaveral, Florida Wednesday night.

A full set of tactical ground support equipment was used to prepare, erect and fire the Army's missile on a long range mission down the Atlantic Missile Range.

The missile was fired from the erector launcher mounted on its highly mobile XM-474 tracked ve-

hicle. The firing was monitored from the blockhouse, but the system programmer test station performed its tactical countdown functions. The primary power pack supplied the power necessary to erect the missile and run the countdown.

Brig. Gen. Richard M. Hurst, Deputy Commanding General, Ballistic Missiles, Army Missile Command, said that preliminary data available immediately after the firing indicated that all the test objectives had been met and the missile's nose cone impacted in its pre-selected ocean target area.

Objectives in tonight's test in-

cluded further evaluation of the missile's guidance and control, aeroballistics, and the two solid fuel motors of Pershing's propulsion system.

Brilliant flares were ejected from the missile's nose cone to aid in tracking the missile after powered flight.

The Martin Company, Orlando, Fla. Division, is prime contractor for the Pershing, under the technical management of the Army Missile Command. Personnel from both organizations conducted last week's firing, another in the series of Pershing missile development firings.

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Page 14 The Redstone Rocket — Oct. 3, 1962

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FOR SALE!
1317 OAKWOOD EAST — Nice home on large lot, 75'x150'; partial brick, 3 bedrooms, large living room 12'x26'; living room drapes included, one bath, 2 air conditioners, family room carpeted, kitchen stove, gas floor furnace, plenty of shade, all assessments paid. Can be financed up to \$11,000.
FOR SALE OR TRADE on equity of property in town — Nice brick home, ½ mile west of Hazel Green, 6 rooms, 1800 sq. ft. of living space, 2 full ceramic baths, garage, one acre of ground, plenty of shade. Also rock home, 3 bedrooms, 1½ baths, kitchen, dining rm., living rm., carport.
5 ACRE TRACT near Toney — good home.
On **ARDMORE HIGHWAY** — Several shady lots just out of police jurisdiction. Other lots in various parts of town.
C. F. STINNETT
Real Estate Broker
2501 Meridian St.
Phone 536-9901

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

SWEDISH MASSAGE for ladies only. Steam cabinet. By appointment. No Wednesday or Saturdays. Mrs. Mary Fromm, trained in Denmark and Sweden. Call 536-0242 (mornings best). 1201 Lowell St., Southeast. tfc

MODERN HEALTH Club Services — Central YMCA, 203 South Green St. is offering massages, turkish baths, electric heat cabinets, ultra-violet and infra-red lamps, diathermy sun lamp, swimming pool. Graduate massuer in charge. Phone 534-2444. tfc

If You Are Not Satisfied With the Haircuts You Are Getting . . . Try
Al's Barber Shop
3805 Governors Drive
Regular Haircut \$1.00
PHONE 534-4036 tfc

5/10/5 Post Liability \$10.00 a Year
Service men, all ranks and ages, also Civilians.
W. E. DICKEY INS. AGCY.
PHONE 539-1161
507 Terry Hutchens Bldg. Huntsville, Alabama

BUTLER'S NEW and USED FURNITURE
American — Antiques — Import
1006 W. Market St. — Athens, Alabama
One of North Alabama's Largest Furniture Stores
ACROSS FROM FAIRGROUND GATES
Dial Athens 232-3940

IMPORTS! IMPORTS!

1961 M.G. Roadster. Chrome luggage rack. Beautiful white, local car.	1961 Triumph TR3 A very nice local car with radio and heater.
1961 Volvo Sport sedan. White, radio, heater, white tires, low mileage and exceptionally clean.	1960 Borgward 2 dr. Station Wagon. Blue-gray in color. Radio, heater, 4 forward shift. 28 to 30 M.P.G. Excellent condition.
1960 Sunbeam Alpine Roadster Convertible. White with a newly reconditioned engine. Radio and heater.	1960 V.W. Sunroof, navy blue. Radio and heater. A real nice car.

TEXAS AUTO SALES
1013 Meridian Street Phone 536-6121

FOR RENT — 2 bedroom unfurnished house, available now. Gas heat, carport, washer connections, adults or couple with small baby, 2021 Vanderbilt Dr., S.W., \$90.00 per mo. See **MRS. ELDER**, next door or call 534-1609. 1tc

TRAILER FOR SALE — 1958 De-troiter, 50'x10' Blue and white, very good condition and reasonably priced. For details call Ext. 536-2436; 536-2437. 8:00 to 4:30 p.m. 1tp

POST LIABILITY \$10 PER YEAR
Military - Any Age or Rank - Terms
Branner Insurance Agency
527 Madison Street
Open 'til 8 p.m.
Pho. 534-0146

PORSCHE
Authorized Sales & Service
UNIVERSAL MOTORS, INC.
"Your Volkswagen Dealer"
2305 No. Parkway
PHONE 539-7456 tfc

AUTO
POST LIABILITY INSURANCE
\$5/10 Bodily Injury
\$5000 Property Damage
\$10.00 year
C. J. WAITE
INSURANCE AGENCY
518 Madison St.
PHONE 536-9641

SECOND CAREER FOR RETIRED MILITARY—Or active duty military planning retirement. To represent 96 year old national concern in Huntsville area. Complete training program. Applicant must have management potential and 5 figure income objective. \$500 per month training allowance plus commissions to qualified representative. Non military with sales, teaching or executive background also eligible. Replies in strict confidence must include age, education, past experience and marital status. Write Frank Williams, 1010 Frank Nelson Building, Birmingham 3, Alabama. 10-10c

FOR RENT — Large furnished room, 12'x24', wall to wall carpeting, air conditioned, gas heat, bath, private entrance, good location, off street parking, ideal for 2 people, rates by week or month, phone 539-8565 or 534-3581. 1tc

FOR RENT — Unfurnished brick duplex apartment, 4 rooms, gas forced air heat, on Nell Street near Guided Missile School, \$72.50 per mo. Jere Evans Real Estate, phone 534-9821. 1tc

FOR RENT — 2 bedroom furnished house on Lake. Fishing pier, launching ramp. Nolan Motel, Guntersville, Ala. 582-3178. 10-25c

SALE — Equity FHA, three bedroom brick, 1½ baths, paneled den and kitchen, screened carport, 210x115 lot, occupancy November 1. Save real estate fees. Price \$17,450. Call 539-1679. 1tc

1936 FORD — 2-Dr. Trunk Sedan. Beautifully restored to like new condition. Stock except for hydraulics and sealed beams. Over \$1,000.00 invested. \$750.00 cash, no trades, no "offers." 4215 Tof toy Dr. Weekdays after 5, all day Saturdays and Sundays. 1tp

HOUSE FOR SALE—5 rooms and bath, only 6 years old, paneled den, birch cabinets, washer-dryer connections, electric heat, close to schools, churches and arsenal. \$9,750.00. Can be financed FHA or conventional loan. Call 534-6656. 1tc

A GOOD INVESTMENT — Completely furnished duplex, convenient to shopping and arsenal, air conditioned, electric heat, rented for \$190.00 per mo., price \$11,000.00. Call 536-6776 1tc

FOR SALE — 1955 Chevrolet, 4 door, 6 cylinder, std. trans., car looks good and runs good. \$310. Phone 536-5620. 1tc

FOR RENT — 3 room apartment, furnished, air conditioned, television cable, private front and back entrance. 409 Eustis Ave. Phone 534-3865. 1tp

ARE YOU INTERESTED IN AN ANTIQUE CAR? If so here is a dandy, 1933 Olds., in good shape, good tires and less than 69,000 actual miles. You will have to see it to appreciate it at \$350.00. See Don Blankenship, 601 High St. or phone SP 3-7704. tffc

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

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

BAND INSTRUMENTS — Rental Returns. Clarinets, Cornets, Trumpets, Trombones, Saxophones, Flutes, etc. Prices range from \$29 to \$79 or higher. All instruments guaranteed. Cash or Terms. Phone 536-9933, 9 a.m. to 9 p.m. ttc

WANTED — Part time office personnel, neat, efficient, female. Phone 536-5992. 1tc

OLD COINS — I buy old coins—old gold coins; Indian head pennies, complete sets; Canadian coins. Darrell Sanders, Grand News Stand, Clinton Ave., downtown Huntsville. ttc

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

ON THE LAKE, LESS THAN 20 MILES FROM ARSENAL GATE — Boat storage for rent. Rooms with bath for rent. Contact W&W Land Co., 106 N. Lincoln, Phone 534-1451 or 536-3113. ttc

ABS SECRETARIAL SERVICE, 408 Clinton Avenue, W., Huntsville, Ala. Phone 534-6451. CALL US FOR: Photocopying, mimeographing, transcribing (Dictaphone), telephone answering. Employment applications prepared (Government and other). Notary Public. (Our office or yours). ttc

THRIFT SHOP
Open Saturday, Oct. 6, 1962
1000 Hrs. to 1400 Hrs.
This is in accordance with Thrift Shop policy of opening Wed., Fri., and the 1st Saturday after pay day, 1000 to 1400 hours.
The Thrift Shop is located in Bldg. 3740 (in Tin Village area).

Planned... Protection
IS YOUR GREATEST ASSET FOR YOU AND YOUR FAMILY.
— CALL —
JERRY MOORE
District Manager
Jefferson Standard Life Insurance Co.
Room 314 Terry-Hutchens Bldg.
PHONE 534-2932 or 534-9985


WHAT ARE YOU WORTH TO YOUR FAMILY?
Your earning power should be insured just as your other valuables are insured.
It's a good policy to see **JESSE ANDERSON**
General Agent
Provident Life and Accident Insurance Co.
PHONE 534-7651

GI EQUITY
Three bedroom brick, one bath garage, payments only \$85 per month. ood location. Call Owner. Theodore Blocker, at 539 8481 days or 534-6303 nights.

Beautiful Wooded Lots
with or without VA or FHA houses. 100% wooded lots of this caliber are indeed a rarity for Huntsville. Located near University of Alabama complex, Arsenal, Brown Engineering, IBM. A perfect environment in which to live and raise your family. Sherwood Park 11th Addition. For information dial 539-8481 days — or 534-6303 nights.

STRIDE RITE SHOES
For Children
Straight Last — Thomas Heels — Plain Shoes
Also
"SPARKLE TOES" By Alexis
The Junior Booterie
120 Southside Square — Downtown Huntsville
Phone 539-1112 — Open Thursdays til 8 p.m

HE DESERVES THE BEST!
USE OUR LAUNDRY SERVICE FOR SPARKLING, LIKE-NEW SHIRTS.
Uniform Service is Available Too!

● CONVENIENTLY LOCATED
● OPEN 7 A.M. to 7:30 P.M. DAILY

VALLEY CLEANERS
Parkway City

DURING OUR GRAND OPENING SALE
SAVE! — SAVE! **NO MONEY DOWN!**
NAME YOUR PRICE!
SALE PRICES ON BOTH LOTS!

1956 PONTIAC 2 dr. Hardtop. Really sharp! Radio, heater, auto. trans.	1956 BUICK 4 dr. Special. Radio, heater, auto. Jet black and nice.
1956 CHEVROLET Bel-Air Sports Sedan. Beautiful turquoise and white. V8, radio and heater.	1958 CHEVROLET 4 dr., 6 cyl., auto., radio, and heater. A real nice car.
1956 CHEVROLET 2 dr. All leather interior. V8, auto., radio, heater. A real beauty.	1954 PLYMOUTH 2 dr., 6 cyl., radio, heater. A good one.
1957 FORD CUSTOM 300 2 dr., 6 cyl., radio, heater. Clean as a pin. A beautiful color.	1953 BUICK 4 dr., radio, heater, auto.
1957 CHEVROLET (4 to choose from). 6 and 8 cyl. If you want a '57 Chevy, shop us!	1955 CHEVY (2 to choose from!)
1959 VOLKSWAGEN	1959 CHEVROLET CONV. Solid white.
	1960 SIMCA 4 dr.
	(Over 60 cars to choose from)

These Courteous Salesmen to Serve You:
LEWIS ROBINSON **I. A. (PAPA) BETHUNE**
HAROLD BROOKS **JIM "CUZZ" GRAY**

Robinson Auto Sales
810 AND 733 MADISON STREET
PHONE 536-9161 or 539-8551

Montgomery Barber Shop
Located in
Holiday Plaza Shopping Center
Corner Bob Wallace & Jordan Lane
— 4 Barbers to Serve You —
IVAN PEPPER
LAYMAN SHARP
MACY MONTGOMERY
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OPEN 10 A.M. to 9 P.M.

Choice WESTINGHOUSE Trade-ins
1-yr. old Automatic Defrost—13 cu. ft. **REFRIGERATOR**, Retail 349.95 - **\$150.00**
1—AIR CONDITIONER **\$125.00**
Used one year.
1—REFRIGERATOR, 11 cu. ft. **\$50.00**
10—USED TV SETS **\$25.00 Up**
1—FREEZER, 17 cu. ft. Upright .. **\$125.00**
Excellent condition.
MANY, MANY MORE TO CHOOSE FROM!
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Automobile Financing
COSTS LESS
With GEFC—Compare your monthly payments before you buy.
V. F. CARTER
2905 Bayless Drive — Phone 539-2356

GOVERNMENT EMPLOYEES FINANCE CO.
FORT WORTH, TEXAS

At 6 p.m. Oct. 10

Registration In County For November 6 Ends

Qualified residents of Madison County who wish to register for voting in the November General Election have three days remaining.

The Madison County Board of Registrars will sit Oct. 8, 9 and 10 to register voters. This will be the last registration period until after the Nov. 6 election. The Board offices are in the County Courthouse Annex, and hours will be 11 a.m. to 6 p.m.

Army Missile Command personnel who live in Alabama counties other than Madison should contact the Probate Judge of their county to get final registration dates.

Following are the Alabama regulations governing registration for new Residents:

Qualifications

Have resided in Alabama two years and the county one year by the date of the next general election.

Be able to read and write the English language as demonstrated by reading and writing from the U.S. Constitution.

Be 21 years of age. Earliest possible date for a person to register is the day before his 21st birthday.

Take a non-Communist oath and an oath to tell the truth.

Be a citizen of the United States. If naturalized, furnish number on papers.

Must not have been convicted of crime involving moral turpitude or other disqualifying offense as listed in the Alabama constitution.

Method

Appear before the county Board of Registrars at a regular meeting.

Furnish witness who must sign a part of the form testifying as to length of applicant's residence. He must sign the witness form at the Board office and must be a registered Alabama voter.

Fill out the application form without assistance.

Read and write, take oaths required.

Reporting Requirements

All persons registered in Madison County must keep a current address on file with the Board. If the Board "loses track" of a registrant and mail sent is returned, the registrant's name may be advertised for striking from the list.

Addresses may be reported in

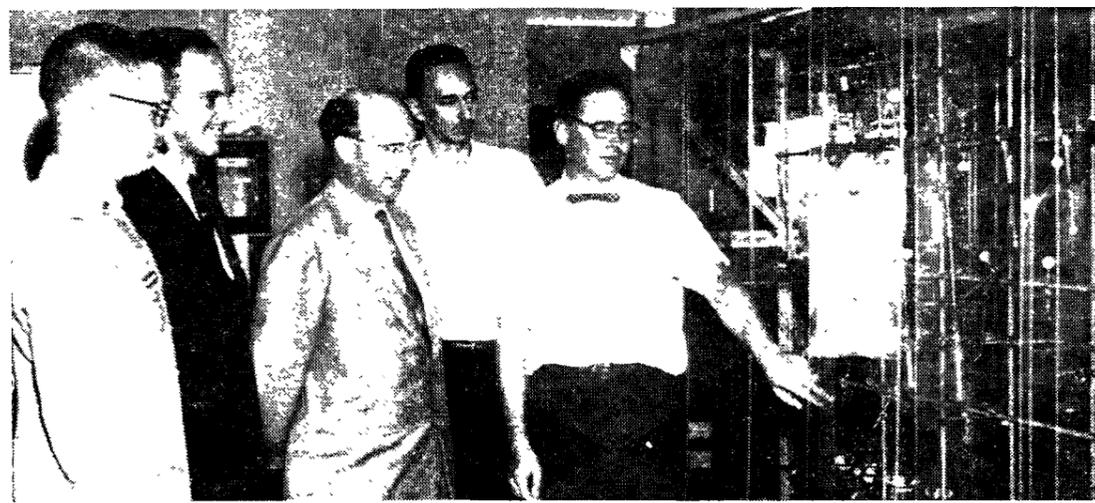
person, by mail, or by phoning the Board office which is open Mondays through Fridays.

Change of address applies to moving from one place to another within the county or the precinct, ward or district.

Maintenance of a current address is the individual's protection against being stricken from the registration list as a non-resident.

Registration is permanent in Alabama within the County. A person need not register again unless he moves to another county and establishes a residence there.

Persons who move out of the county temporarily with the intention of returning should place



CANADIAN EXPERTS BRIEFED—Joe Connaughton (right), chemical engineer with the Army Missile Command's Physical Sciences Laboratory, shows two Canadian scientists an apparatus for handling liquids undergoing research and development for possible use as rocket propellants. The handling system is a series of tubes and flasks made of metal, and is used for liquids that are reactive with glass. A similar system made of glass is used for liquids that react with metal, and plastic shields are added for safety. Others in the photo, left to right, are Phillip Monson, escort officer; Francis W. Slingerland and Reynold St. Clair Mitchell, both from the Canadian Armament Research and Development Establishment; and John J. Ehrlich, a physicist with the Laboratory. Connaughton is a former resident of Mobile and Tuscaloosa.

such information on file with the Board to prevent names being stricken.

announcing—



New Location of

OUTERWEAR and WORK CLOTHES DEPT.

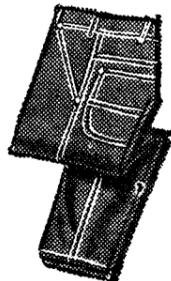
NOW ON THE BALCONY

- HEAVY COTTON TWILL WORK CLOTHES
Grey, Khaki, Air Force Blue; Matching Shirts and Pants
- COVERALLS
- RAINWEAR
- CAR COATS
Wools and cottons
Wide choice of colors
- JACKETS
Wools, cottons, blends,
leathers. Many colors.
- CAPS
- GLOVES



WORK SHOES
— Oxfords, High Cut
HUNTING BOOTS
SAFETY TOE SHOES
RIDING BOOTS
BUCKLE RAIN BOOTS
Sizes 6 to 13

- DUNGAREES
Men's & Boys' Sizes
- CORDUROY PANTS
Heavy Weight
- THERMO-KNIT 2-Pc.
UNDERWEAR
- WASH 'n WEAR SPORT
PANTS
by FARAH and LEVI



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WASHINGTON at CLINTON

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OPEN THURSDAYS & FRIDAYS UNTIL 8:00 P.M.

Scientist Attends Symposium; Talks

A scientist from the Army Missile Command attended a symposium on the "Dynamic Behavior of Materials" at the University of New Mexico last week.

Richard E. Ely, chief of the Physical Science Laboratory's Solid Mechanics Branch of the Research and Development Directorate, presented a paper on "High Speed Compression Testing of Thermoplastics" during the Sept. 27-28 symposium.

Births at Post Hospital

David Scott Lewis, 5 lbs., 9 3/4 ozs., Sept. 19, son of Capt. and Mrs. Thomas M. Lewis.

Jeffrey Allen Brown, 7 lbs., 8 ozs., Sept. 20, son of SP5 and Mrs. Jesse A. Brown.

Valerie Lynne Helms, 7 lbs., 5 ozs., Sept. 24, daughter of Capt. and Mrs. Bobby T. Helms.

Patricia Diane Jolly, 6 lbs., 14 1/2 ozs., Sept. 24, daughter of SP5 and Mrs. James C. Jolly.

Scott William Curtis, 6 lbs., 9 1/2 ozs., Sept. 24, son of Ret. T/Sgt. and Mrs. John A. Curtis.

Karen Elizabeth Pearson, 7 lbs., 12 ozs., Sept. 24, daughter of Maj. and Mrs. Matrin Pearson.

Rhonda Lynn Lee, 5 lbs., 11 ozs., Sept. 25, daughter of Sgt. and Mrs. Ronnie W. Lee.