

**Arsenal-Wide
Spot News
Dial 112**

The Redstone Rocket

Published by Jack W. Hoffhaus, Hartselle, Ala., a private individual in no way connected with the Department of the Army. Opinions expressed by the publishers and writers herein are their own and are not to be considered an official expression by the Department of the Army. The appearance of advertisements in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA 35809

JULY 12, 1967

NEW MISSION COMES HERE



POSTHUMOUS AWARD—Mr. and Mrs. Earl Matthews of 672 Hollow Road, Huntsville, receive the Purple Heart Medal, awarded their son, SP4 Robert L. Matthews, who was killed in action in March in Vietnam with the 319th Artillery of the 173rd Airborne Brigade. Presenting the award is Col. Erwin M. Graham Jr. (right), Commandant of the U. S. Army Missile & Munitions Center & School. Looking on (left) is Lucille Matthews, sister of the honored Soldier. The Purple Heart was established by Gen. George Washington in 1782 for soldiers wounded while serving in combat.

U. S. Helping Australia Ready For Space Launch

The Army's huge missile and rocket center here will play a major role early next year when Australia attempts to become the fourth nation to launch an earth-orbiting satellite.

The Intercept Technology Branch of the U. S. Army Missile Command's Research and Development Directorate, as an agent for the Advanced Research Projects Agency (ARPA), is supplying the booster—a modified Redstone missile—and launch services.

Russia, the U. S., and France have previously accomplished the feat.

Launch site for the satellite, which will be called WRE SAT-1 (Weapons Research Establishment—Satellite I) will be the Woomera Test Range.

Redstone rockets presently are being used at Woomera in a series of tests being conducted jointly by the U.S., Australia, and Britain to study reentry phenomena under the ARPA sponsored Project SPARTA (Special Anti-missile Research Tests in Australia).

Measuring about 2½ feet in dia-

meter and 5 feet in length, the satellite will study the effects of the upper atmosphere on climate and weather. The experiments planned will relate generally to solar physical phenomena and particularly to measuring X-ray and ultra-violet radiations in the outer atmosphere.

In orbit, it will range from 700 miles to 100 miles above the earth.

Weighing about 85 pounds, the satellite was developed by the physics department at the University of Adelaide in Australia and by the Weapons Research Establishment.

The launch will be conducted by a team of representatives from TRW Systems, Chrysler Corporation and LTV Astronautics. Directing launch operations and representing the Missile Command will be Edward P. Fronefield, Officer in Scientific Charge.

Redstone rockets launched the first U. S. satellite in 1958, and helped put astronauts Alan Shepard and Virgil Grissom into space.

Army Awards \$2.9 Million For SAM-D

The U. S. Army has awarded a \$2.9 million contract to Raytheon Company for continuation of work being done on a new air defense weapon system called SAM-D (Surface-to-Air-Missile Development).

Under the contract, a modification to a previously awarded contract, Raytheon will continue advance development efforts on the weapon system being designed to simultaneously acquire, track, identify and destroy multiple air-supported targets.

Work will be performed at the company's facility at Bedford, Mass.

SAM-D is being developed for a continental and battlefield air defense role in the 1970s, against high performance aircraft—both low and high flying—and short range missiles. It will be highly mobile and may be mounted on either tracked or wheeled vehicles.

Col. Edward M. Dooley is SAM-D Project Manager and directs the program from headquarters at the U. S. Army Missile Command, Charles A. Cockrell, an Army civilian, is his deputy.

SAM-D is planned for eventual replacement of the Nike Hercules and a portion of the Hawk air defense systems, both operational in the United States and overseas.

\$2.2 Million Award Made For Hawk

The U. S. Army Missile Command, Redstone Arsenal, today announced the award of a \$2,202,012 contract to Nortronics Division of the Northrop Corporation for construction of launchers for the Hawk air defense missile system.

The work will be performed by Northrop at Anaheim, Calif., between July 1st of this year and November 1968.

The Hawk is a missile system in use by the U. S. Army and several NATO countries. It is designed to detect and destroy low flying

(See LECTURE on Page 3)

(See HAWK on Page 3)

Measurements For Army Consolidated In Center With Directorate Status

Souvenirs Might Be Lethal

Army officials report instances of unsafe explosive munition items being mailed from servicemen in Vietnam to relatives or friends in the United States as war souvenirs.

Some of the items have turned up in customs inspections recently. There have been no known instances of dangerous material of this type being sent to persons in the Huntsville area.

As a precaution, however, Army authorities at Redstone Arsenal have advised persons who may receive firearms, grenades, mines, rockets, shells or other such potentially dangerous items to contact the Arsenal for a safety check by munitions experts.

Arrangements can be made for the safety inspection by contacting the Military Police on the Arsenal at 876-2222 or the local police.

Items discovered in the mails by customs inspectors, although of U. S. manufacture, could be extremely dangerous if handled by persons untrained in their use.

The U. S. Army Missile Command has activated the U. S. Army Metrology and Calibration Center at Redstone Arsenal.

The new Center consolidates calibration and metrology functions for the entire Army that formerly had been carried out at several locations throughout the United States. Among the many new mission assignments is the management of the world wide calibration effort at thirteen locations around the world.

Nucleus of the new Center is the former Metrology Center, its facilities and personnel which had been part of the Directorate of Arsenal Support Operations. The new Center has been established at the same level as the Command's several major directorates. Lt. Col. Peter L. Horne has been named head of the Center.

In addition to personnel already assigned, 184 civilian and military spaces have been transferred to the new Center as a result of the consolidation. Most came from the former headquarters for Army measurements and standards activities at Frankford Arsenal, Pa. An additional mission of primary reference calibration was transferred from Tooele Army Depot, Utah.

Transfer of the functions has required about six months. Consolidation of the Army calibration and metrology functions was announced by the Defense Department in January.

Management, technical direction, fundamental metrology and engineering support have been centered here with the responsibility to insure logistic support for the total Army calibration system.

Among the newly acquired responsibilities will be a national maintenance point mission, a national inventory control and procurement and engineering missions on the national and international (See METROLOGY on Page 3)

BLOODMOBILE TO VISIT ARSENAL

The Red Cross Bloodmobile will visit Redstone Arsenal on next Wednesday, from 8:30 a.m. until 2:30 p.m. at the old Post Hospital, Building 7110.

Red Cross volunteers willing to help may contact Mrs. E. M. Dooley at 877-5743. Volunteer nurses may call Mrs. J. M. Loomis at 881-9582.

Fifth Lecture Series To Start Next Week

The jointly sponsored fifth annual lecture series for science and engineering college students and faculty members employed by the U. S. Army Missile Command and the NASA-Marshall Space Flight Center during the summer, begins July 17 in Marshall's Morris Auditorium.

Brig. Gen. Clarence C. Harvey, Jr., Commanding General of the Missile Command, will make opening remarks. The lectures begin with an orientation and outline of missions of the sponsoring organizations.

Lectures are scheduled Mondays and Fridays and are divided among speakers from the Marshall Center and the Army. At the conclusion of the 19 lectures and other activities, Dr. Wernher von Braun, Director of the Marshall Space Flight Center will deliver the closing remarks.

Dr. Samuel P. McManus is the director of the summer program. He is a native of South Carolina. He received his bachelor's degree at the Citadel and his master's and Doctoral degrees from Clemson University.

On active duty as an Army Captain, Dr. McManus was a research and development coordinator in the Lance Project Office here from September 1964 to September 1966. He became an Assistant Professor of Chemistry at the University of Alabama in Huntsville in 1966.

His present research project is in the general area of stereochemistry and physical organic chemistry. This summer he is working in the Propulsion Laboratory of the Research and Development Directorate at the Army Missile Command.



COLONEL HANSEN HONORED—Lt. Col. Carl H. Hansen (right) received the Army's Legion of Merit recently in a ceremony at the U. S. Army Missile Command. Making the presentation is Maj. Gen. John G. Zierdt, Commanding General, who since has retired from active military duty. Col. Hansen was cited for outstanding contributions while assigned here as Assistant for Personnel and Administration.

The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket only through the Information Office, Army Missile Command, Redstone Arsenal, Ala., 35809 Bldg. 5250, Room A-136, Extension 876-1400 or 876-1500.

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Rocket Ruminations

Let the other fellow talk occasionally. You can't learn much listening to yourself. —Coleman Cox

An American Tradition

"A free society devoted to achieving the natural rights of its citizens can be maintained and tyranny prevented only if the people in general are well educated."

—Thomas Jefferson

Millions of young Americans have completed another school year. Many of them have entered the world of business or industry to apply the knowledge they have absorbed during their school years. The remainder will return to their respective schools in the fall.

Whatever the case may be, these millions have reaped the benefits of a tradition that is a vital part of



our priceless heritage—the opportunity for every American to obtain an education.

The United States has one of the most comprehensive public education systems in the world. Our public schools, colleges and universities, coupled with the thousands of private educational institutions, have helped produce an articulate and knowledgeable population.

This awareness of the value of an educated populace is no accident. For more than 300 years education has been considered essential in America. As early as 1642, civil authority required compulsory education for children.

Throughout our history, as our Nation has progressed so has our educational system. It has sought to provide the youth of our nation with the skills and knowledge necessary to succeed in an increasingly competitive and complicated society.

The methods and curricula within our educational systems are continually changing in order to meet the growing demands of our modern world. Its ultimate goal, however, is an educated, intelligent population which can preserve and advance our democratic society. (AFNB)

Civilians Pursue Career Advances Through Study

Thirty-eight Arsenal civilians left their normal work areas this week to enroll for career development training courses being offered at government schools and leading colleges in eleven states across the country.

They will be away from their jobs for periods ranging from three days to ten weeks under the Missile Command's career development program administered by the Training and Development Division of Civilian Personnel.

The largest single group of Redstone civilians will be in Norman, Okla., this week for the Management Gaming course at the University of Oklahoma.

They are Glen Boquist and Delbert Marean (Pershing), Joe May and James Cissell (P & P), Wade Sanders and Charles Adams (S & M), Leon Frazier (MMCS), David Bouska (Hercules) and Marvin Lemmons (Nike-X).

Alfred Carpenter and Mat Maddix went to the University of Michigan for a course entitled Probability and Random Processes, and Charles Lynch is studying Strain Gage Techniques at the Massachusetts Institute of Technology. All three are in the Research and Development Directorate.

Russell Freeman (Nike-X) is taking Fundamental Aspects of Stress Corrosion at Ohio State while Larry Harvard (Nike-X) along with Robert Odum and Joseph Nix (R & D) is in Los Angeles for Modern Developments in Propulsion at the University of California.

Two employees of the Hawk Project Office are at Ft. Bliss where they will spend three weeks studying with the Raytheon Company. They are Thomas Stramiell and Bennie Pinckley.

Samuel Willis (DASO) is taking the Basic Radiological Health course given by the U. S. Public Health Service at Rockville, Md., and Helen Hughes (DASO) is at Baltimore for the Recruitment and Placement with the Deputy Chief of Staff for Personnel.

Richard Smith (DASO) and Harold Carper and Sidney Barbarash (P & P) are taking a two-week course entitled Standards of Workmanship at Frankford Arsenal.

Jerre Ducete and Lawrence Nicastro (R & D) and James Webb (Nike-X) started the 10-week Defense Weapons System Management course on Monday at Wright-Patterson AF Base in Ohio.

Five other Arsenal personnel are at the same base for study at the School of Systems and Logistics. Two of these, Thomas Kavanaugh and Leroy Gregg (S & M) are taking the 3-week Maintenance Management course.

Donald Myers (P & P) is taking Contract Administration, Joseph Plaxco (P & P) is studying Contract Law, and Jack Brightwell (Sergeant) is enrolled for Program Evaluation Review Techniques.

E. D. Scarborough, William Harris and William Brodeur (Hawk) are attending the Advance Seminar on Labor Management Relations hosted by the Army Materiel Command at Denver, Colo.

Thomas Beasley (S & M) is at Ft. Lee, Va., for a course entitled Use of Computers and Scientific Management in Logistics at the Army Logistics Management Center and Albert Kloock (S & M) studying Packaging Administration at the Joint Military Packaging Center, Aberdeen Proving Ground, Md.

Completing the list are Alfred Johnson (C & DP) and Carl Hardy (DASO), both of whom are at Ft. Benjamin Harrison, Ind., for study at the Army Finance Center.

Johnson will spend four weeks there for Programming and Budgeting while Hardy is taking the AMC Comptrollership Course and will be in Indiana for six weeks.

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CARE EMPLOYEE—A military man has been selected as July's "CARE Employee of the Month" at the U. S. Army Missile and Munitions Center and School. First Lt. Joseph I. Bertagnolli was taken by surprise when he was presented the award by Col. Raymond C. Bishop, Head of the Air Defense Department, for a suggested improvement made concerning the distribution of Zero Defects literature to incoming military and civilian personnel. Bertagnolli is the second person from MMCS to receive the monthly award as part of a campaign to promote participation in the Zero Defects Program.



PROMOTIONS—The leaves of Lieutenant Colonel are pinned on Chester L. Langley by Col. John R. Henderson, Assistant Commandant at the Missile and Munitions Center and School, at promotion ceremonies held at MMCS Headquarters. Lt. Langley is the Deputy Division Chief, Logistics Division, Officer Training Department. Others recently promoted include Majors Glenn A. Vogel, Thurman Watts, Lawrence E. Sisterman, and Richard E. Rogers. All the new majors are students at the school. Henry J. F. Meincke, Chief Storage Branch, Ammunition Department, received his captains bars from Col. Kenneth S. Whittemore Jr. his department director.

NEW HELIPORT, described by Qui Nhon, will serve as home base Brig. Gen. Charles M. Duke as for the 196th Aviation Co., 14th "finest in Vietnam", has recently Aviation Bn., which is supplying been completed by 19th Bn's Co. nearly all Chinook helicopters C. and the 554th Engineer Co. flying combat missions in South The 16-pad facility, located near Vietnam's II Corps zone. (AFNB)

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WELCOME TO REDSTONE—Brig. Gen. C. C. Harvey chats with summer employees at the Army Missile Command prior to an orientation program held for them recently at Rocket Auditorium. The Missile Command Commanding General officially welcomed more than 200 young people who are working at Redstone Arsenal under the Youth Opportunity Campaign program. Discussing their respective assignments with the General are Sherry Collier, Air Defense Control and Coordination Systems Office; Linda Sue Taylor, Procurement and Production Directorate; and Coy L. Fletcher, Supply and Maintenance Directorate.

Project SPARTA Fires Australia Test Series

The U. S. Army Missile Command last week announced the firing of a modified Redstone missile down the Woomera Test Range in Australia in one of a continuing series of missile launches known as Project SPARTA.

At the top of its trajectory, a velocity package consisting of upper stages with several rocket motors hurled the reentry vehicle back into the earth's atmosphere at ICBM reentry velocities.

The payload was observed by various range radars and other sensors.

Project SPARTA (Special Anti-missile Research Tests in Australia) is a cooperative program among the United States, Great Britain and Australia to study reentry phenomena. The program is part of Project DEFENDER, a study of ballistic missile defense concepts sponsored by the Advanced Research Project Agency.

This was the fourth of several planned launches, the Army said.

The launch was conducted by a team of representatives from TRW Systems, prime contractor for the program; Chrysler Corporation, subcontractor which did refurbishing work on the Redstones and designed and manufactured the reentry vehicles; and LTV Astronautics which designed and manufactured the velocity package.

Directing launch operations and representing the Army Missile Command was Edward P. Fronefield Officer in Scientific Charge.

Work on the SPARTA program is being directed by the Intercept Technology Branch, ARPA Division, of the Missile Command's Research and Development Directorate. The Missile Command manages the program for ARPA, an agency of the Department of Defense.

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LECTURE (Continued From Page 1)

Lucy C. Grace, Training and Development Division of the Civilian Personnel Office at the Missile Command, is coordinator for the lecture series. For NASA, Harold Parks is coordinator in the Marshall Personnel Office Training section.

The first two lecturers are Wilbur A. Riehl of Marshall and Dr. David Sayles of Army. The former will talk about propellant chemistry, the latter about solid propulsion.

Keith B. Chandler of Marshall will discuss liquid propulsion July 24 and D. H. Driscoll, Jr., will talk about Ground Testing of Saturn Launch and Vehicle Stages.

July 28, James J. Fagan will talk about theory and applications of lasers and Dr. John J. Stettler will tell the participants more about the theory of Lasers. Both men are employed by the Army.

Atmospheric and Environmental effects on missiles will be the subject of Dr. Osker M. Essenswanger July 31. Some aspects of nuclear and electrical propulsion will be discussed by Dr. Russell D. Shelton. The former is an Army employee, the latter MSFC.

Three lecturers are scheduled on August 4. MSFC's Dr. Alvis M. Holladay will talk about microcircuits. Two members of the Directorate of R&D's Advanced Sensors Laboratory at the Missile Command have divided lecture number ten into two parts. Nicholas J. Mangus will discuss radar followed by Wallace E. Wood telling about electro-optical technology.

Aug. 11 Charles E. Richardson of the Nike-X Project Office will describe the Nike-X Kwajalein Test Site. The same day J. P. Orr is scheduled to lecture on manufacturing Research at MSFC.

The lecture on the following Friday will cover guidance and control concepts delivered by Kelly V. Grider of Army.

Walter F. Wiesman is scheduled Aug. 21 to discuss management, growing demands on the profession and S. L. Hardy will talk about systems engineering. Wiesman is employed at MSFC, Hardy by the Army.

Lectures on Aug. 25 will cover

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Lance Production Support Contract Awarded LTVM

A \$584,181 U. S. Army contract has been awarded to Missiles and Space Division—Michigan LTV Aerospace Corp.—to support production of the Lance missile system.

Under the contract, LTVM will supply long lead-time missile items.

Work will be done at the com

pany's Warren, Mich., facility. Announcement of the award was made here by the U. S. Army Missile Command which directs the Lance program under John A. Robins, Acting Project Manager. LTVM is prime contractor.

Now in advanced production engineering, Lance is being developed as a highly mobile divisional support weapon which can be transported by plane or air dropped, has maximum ground mobility and a swim capability. Capable of carrying either a nuclear or conventional warhead, Lance will be the Army's first missile system to use pre-packaged storable liquid propellants.

The contract was negotiated for the Army by the Missile Command's Procurement and Production Directorate.

METROLOGY

(Continued From Page 1)

level.

In these areas the Center will coordinate with other Command directorates which have the basic missions for handling the inventory, hardware and procurement.

The Center has one of the nation's most completely equipped laboratories for precise calibration and measurement of equipment.

The John M. Cone Laboratory which houses the Army Standard Laboratory was completed in September 1966. A unique feature of the one-story structure is that 5,000 of the 39,000 square feet has a floor four feet thick to isolate the interior from the slightest vibration. In some areas temperature control is exact to within five hundredths of a degree. Additional laboratory facilities will be added as needed.

aerodynamics and orbital decay and lifetime. The first will be presented by C. Wayne Dahlke of Army, the second by Robert J. Hill of MSFC.

The final day of lectures will be on computers and on future systems. Dr. Helmut Hoelzer is scheduled to talk first, David Paul III second. Both are MSFC employees. The same day Dr. von Braun will close the series.

HAWK

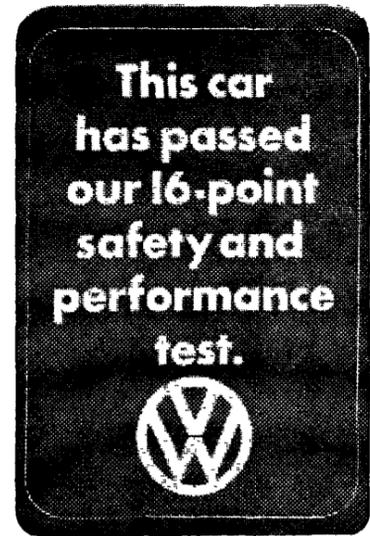
(Continued From Page 1)

enemy aircraft.

The contract was negotiated by Systems Contracts Division B of the Missile Command's Procurement and Production Directorate.

INSTRUMENT SYSTEMS modifier Earl R. Lannum, employed by Air Force Systems Command's Flight Test Center, Edwards AFB, Calif., has been recognized for a design and fabrication of device which will cut checkout time on radar magazines in F-11 aircraft from six manhours to two minutes, saving Air Force more than \$400,000 annually. Lannum was awarded \$1,460 and received special recognition from Civil Service Commission for idea. AFNB

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OPTICS COURSE TO BE OFFERED

A short course in "Optical Physics II" will be held at the University of Alabama Huntsville Campus, Nov. 6-10, 1967.

The object of the course is to give an account of the advancement of physics of optical radiation and its application. It discusses the modern development in the generation, propagation, and detection of coherent and incoherent light from the infrared to the ultraviolet region.

This program is intended for workers in research and development, engineers, teachers or graduate students who are interested in optical radiation physics.

Dr. Max Garbuny is the program coordinator and main instructor in this special short course. Dr. Garbuny holds a Dipl. ING., from the Institute of Technology, Berlin, Germany. He is now a Consulting Physicist at the Westinghouse Research Laboratories in Pittsburgh, Pennsylvania.

Enrollment may be made by individuals or companies. However, enrollment is limited, so early registration is important. For further information contact Conference Activities Department; University of Alabama Huntsville Campus.

Bar Association To Meet July 20

The North Alabama Chapter of the Federal Bar Association will meet on Thursday, July 20, 1967. The meeting will be at the Redstone Arsenal Officers' Open Mess, at 11:30 a.m.

Lt. Col. W. J. Chilcoat, Staff Judge Advocate of the U. S. Army Missile Command, will speak on "Legal Role of the MICOM Staff Judge Advocate." The proposed amendment to the Chapter's Constitution and By-laws will be discussed and voted upon at this meeting.

Reservations may be made by calling Mrs. Yvonne Jackson at 876-4951 or 876-4952.

BRIDGE WINNERS

Mrs. Robert Scott won the bridge competition sponsored by the Redstone Officers Wives Club Thursdays at the Redstone Officers Open Mess.

Mrs. T. Alvarez was second, Mrs. R. Newell third and Mrs. M. Reeves low.

Reservations to play with the group are handled by Mrs. Robert Allgeier.

GEN. HIESTER TO SPEAK AT "DINE-IN" . . . The Army Missile and Munitions Center and School will hold the first of a quarterly series of "dine-ins" July 14 at Redstone Officers Open Mess to acquaint student officers with career opportunities in the Ordnance Corps. Featured speaker will be Brig. Gen. David W. Hiester who recently retired as commanding general of the Army Ordnance Center and School at Aberdeen, Md., after 30 years of military service. Gen Hiester is a 1936 graduate of the U. S. Military Academy and held high-ranking Ordnance assignments in many parts of the world during his active duty.

SHOW SET

Hal and Ginger Willis, recording artists from Nashville, Tenn. will appear at the Service Club Sunday July 16 at 8:15.

This popular duo with their show and dance band have appeared in night clubs, theatres, Television shows all over the country. They feature favorite songs and music for listening pleasure.

DOD RESERVE COMMITTEE ESTABLISHED

Composed of flag or general officers and civilian officials of equivalent grade, the group will meet monthly to provide a continuing forum for discussion, exchange of information, investigation of common problems, fact finding, and review of matters pertaining to Reserve Forces. The group will seek to increase coordination and effectiveness in this area.



RETIREES—SGM Robert G. Hadden, Non-Commissioned Officer-in-Charge, Directorate of Logistics, U.S. Army Missile and Munitions Center and School retires from the Army after nearly 21 years of service at ceremonies held in the office of Col. Erwin M. Graham, MMCS Commandant. Col. Graham extends his congratulations to the Sergeant Major on a job well done and presents him with the Army Commendation Medal First Oak Leaf Cluster. Hadden's other medals include the Good Conduct Medal with Sixth Award and the National Defense Service Medal with First Oak Leaf Cluster. Hadden now plans to live and work in Plantation, Florida.

GENERAL SCHILTZ NAMED DIRECTOR FOR MAJOR ITEMS

Brig. Gen. Howard F. Schiltz, former Commanding General, U.S. Army Aviation Materiel Command, St. Louis, Missouri, has been named Director of Major Items at Headquarters, Army Materiel Command (AMC), Washington, D.C.

In this position Gen. Schiltz will direct and control AMC major item materiel activities, including inventory management. AMC is engaged in developing, producing, supplying, and maintaining weapons, equipment and other materiel for the Army throughout the world. Consisting of a nationwide network of nearly 200 installations and activities, it operates with a \$21 billion inventory and an annual expenditure of \$15 billion.

A native of Dubuque, Iowa, Gen. Schiltz was graduated from Iowa State College with a bachelor of science degree and commissioned a second lieutenant in the Corps of Engineers in 1934. He entered active service in 1941, and after being integrated into the Regular Army in 1946 accepted a detail in the Transportation Corps with duty at Ft. Eustis, Virginia.

Astronautics Group Hears About Systems Engineering

Systems Engineering was the subject of a discussion prepared for delivery last night during a local meeting of the American Institute of Astronautics and Aeronautics by Alexander M. Black, Sam-D Project Office.

Black briefly described the Sam-D system in laying the ground work for his more detailed discussion on Systems Engineering. He defined his subject and described its use by military organizations.

He talked about the qualifications required of a systems engineer, fundamental engineering activities, proceeding through an en-

gineering program and how the SAM-D Air Defense fits into this pattern.

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YOCs Earn And Learn On Job And In School

"This is a period of unprecedented opportunity if people will only seize it," said Vice President Hubert Humphrey when he spoke here last May to a group of young people who are working for the Army Missile Command under the Youth Opportunity Campaign (YOC).

To point out the opportunities available is just one of the aims of the Missile Command's YOC program which is in its third year of operation.

The number of young people hired under this new program here has doubled in size since 1965 and there are now some 250 youth, between the ages of 16 and 21, who are working with the Missile Command.

The program offers college students, high school students, and drop-outs meaningful work and training opportunities while they earn money to continue their education. It is a Federal program, authorized by the Civil Service Commission, and young employees names are taken from records at the local State Employment Service.

The youth will be attending briefing sessions for the next one and one-half weeks for the purpose of counseling and having discussions with fellow YOC employees. Also during the discussions, the group leaders will point out good working habits, the responsibility

of doing a good job, the types of jobs they might be qualified for after they graduate and what steps to take towards getting the job they want.

John G. Nelson, a staffing specialist in civilian personnel, said "the YOC program is still in budding process but it's been receiving an increasing amount of publicity. Results and favorable response from all over the United States show that the program has been a real success in more ways than one."

Nelson's job involves the orientation of the Missile Command's young people working under this new program and getting them on their jobs and acquainted with various phases of government employment.

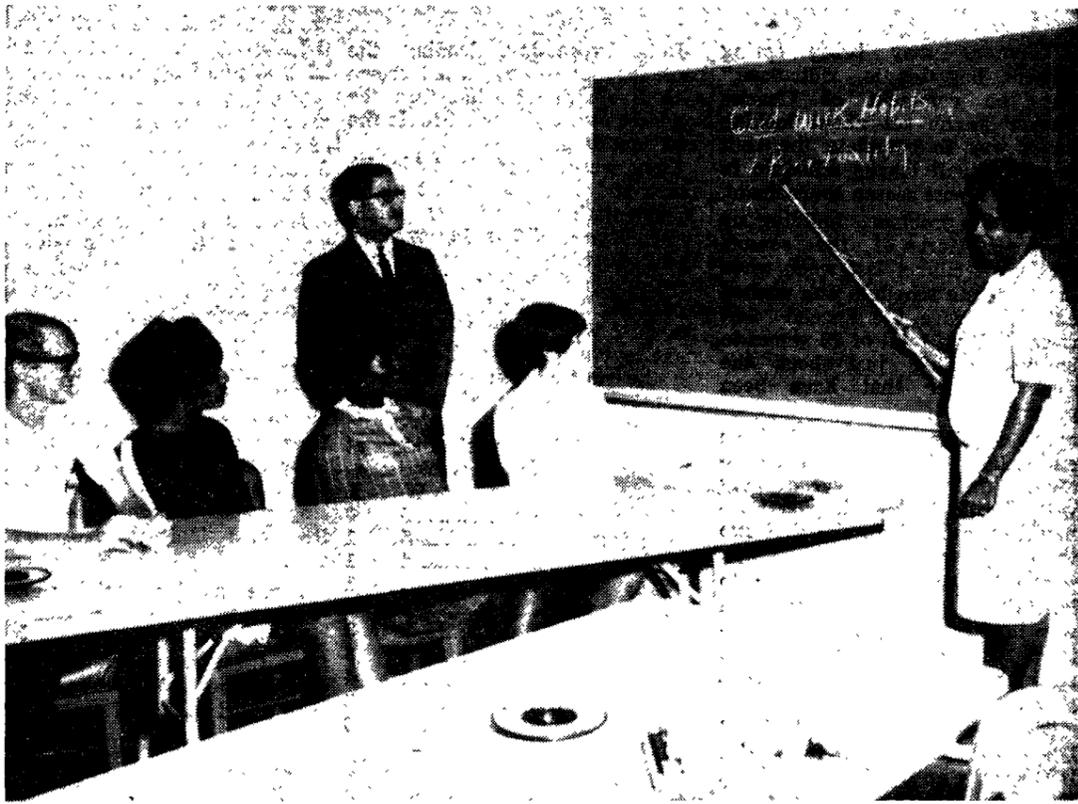
He went on to say that a student hired on the YOC program is from lower income bracket and studies have shown that this youth is most commonly the one who gets in trouble with the law. But, in general, when you give this youth a job to do and a reason to work, you'll find that he's apt to become a better citizen in our society. Nelson feels that this is one of the big reasons the program has become so popular nationwide.

Presently, industry and government have some 250,000 young Americans working with this program.

Under the YOC program most federal agencies are asked to hire at least one youth for every 100 regular employees but the Missile Command is hiring double this.

Mrs. Viola Adams, a graduate of Alabama A & M and a native of Gadsden, Alabama, has taken on a new role as the YOC program's first guidance counselor. Mrs. Adams works directly with the young people under the supervision of James Blackburn, Chief of Employment Services Division, of Civilian Personnel here.

Mrs. Adams, who is presently doing graduate work in counseling and guidance, said she plans several group discussions to give the youth a chance to ask questions and exchange ideas about their jobs and interests. Later, she will evaluate the Missile Command's YOC program with the young people's viewpoint as her main source of information.



YOUTH LEARN GOOD WORK HABITS—John G. Nelson and Viola Adams present some ideas during a briefing session with a few young people who are working at the Missile Command this summer under the Youth Opportunity Campaign (YOC). Nelson is a staffing specialist in civilian personnel and Mrs. Adams is the YOC's first guidance counselor. Seated are Roger Husmer, Dessa Nesmith, Barbara Maclin, and Sandra Simmons.

Theatre Schedule

WED., July 12
 "Fort Utah" (F), s
 THURS.-FRI., July 13-14
 "Two for the Road" (M)
 INCREASED ADMISSION: adults 50c, children 25c.
 SAT., July 15
 "Fahrenheit 451" (M-YP)
 SUN.-MON., July 16-17
 "The Taming of the Shrew" (M-YP)
 INCREASED ADMISSION: adults 75c, children 25c.
 TUES., July 18
 "Cyborg 2087" (F)
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Schedule Problems Pile Up For Special Services

"Showers may bring spring flowers, but this is ridiculous," was the comment of Charles Ducker as he set about looking for a way to complete the Unit Level Softball league schedule in time for a post season tournament.

Ducker's problems, building up since the start of the season, reached a climax last week when the complete schedule was washed out. This gave the Special Services Office a total of 79 games to be rescheduled, just about the same number that have been played.

The regular season should have ended last Friday, but will be extended through the end of July with the double elimination tournament now planned for the first two weeks of August.

The Military Police appear to have things pretty much their own way in the A Division of the 20-team league after winning 18 straight after a loss in their first game.

The story is different in the B Division, however, with DASO and D Company engaged in dead heat. Each has won 15 out of 18 starts.

The Civilian Softball league was also hoping to get back into action this week after a layoff last week. Games are scheduled at the Civilian Recreation Area on Monday, Tuesday and Thursday nights.

Data Processing, leading the pack for the second round crown with five straight wins, face the toughest part of their schedule the next few days.

They were slated to tackle Finance and Accounting last night, Documentation tomorrow night and Redeye next Tuesday evening. Each of the three competitors have but one loss against their record for the round.

Redeye won the first round with eight out of nine and qualified for the post season tournament against the winner of the other two rounds.

The CWF league standings at the start of play this week is:

	W	L
Data Processing	5	0
Fin & Acct	5	1
Redeye	4	1
Documentation	4	1
G & C Lab	3	2
I C O	2	3
Comp Center	2	3
Proc & Prod	1	4
Metrology	0	5
AMMCS	0	6

The American Cancer Society says about 14,000 women died of uterine cancer in 1966, most of them of uterine cervical cancer. But if all women would have annual Pap tests, uterine cervical cancer, as a cause of death, could be virtually eliminated.

Vie For Lead

Netters Test Strong Lockheed Team

Missile Command netters faced an uphill fight this week as they attempted to add the Lockheed Co. to their list of victims in the B Division of the Huntsville Industrial Tennis League.

The loss of three straight singles matches following a win in the first of three doubles matches gave the division leading Lockheed team a 3-1 lead in the nine-match set.

Malcolm O'Neil and Bill Woodward teamed up for the lone MICOM winning matches staged last week. The two Captains scored an impressive 6-4, 6-2 win over the No. 1 Lockheed tandem.

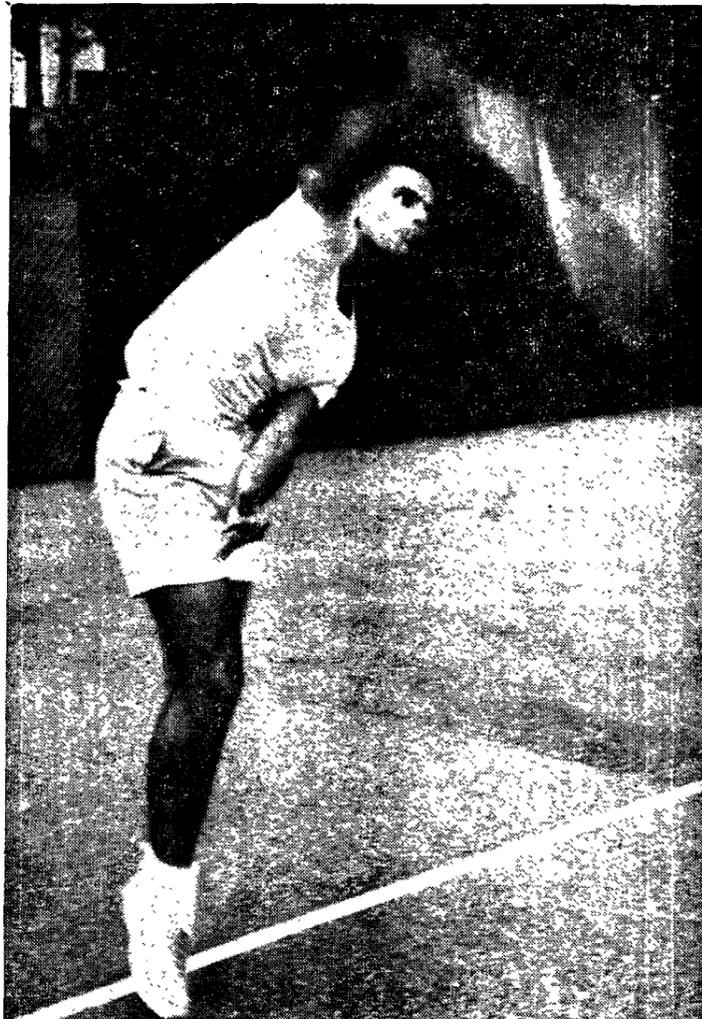
However, O'Neil, the No. 1 MICOM player, dropped his first match when he fell before the top Lockheed netter, 6-3, 6-3. Later Gary Brown lost a hard fought, 14-12, 6-3 decision in the No. 6 singles and George Bush dropped the No. 5 singles in a 6-0, 6-1 defeat.

Three singles matches and a pair of doubles will complete the team match this week, and MICOM faces the necessity of taking four of the five if they hope to win their third match in a row.

In previous matches the MICOM netters have scored 6-3 wins over Computer sciences and Sperry Rand. Lockheed leads the division with consecutive 8-1 wins over Sperry Rand and G. E.

Irv Kellogg, Joe Hiatt and Tom Grubbs will represent the Command in the remaining tennis

matches with Kellogg and Hiatt sets. Grubbs is paired with Bush teaming for one of the doubles for the final match.



SUFFERS FIRST LOSS—When Malcolm O'Neil dropped a hard fought match to the No. 1 singles player on the Lockheed tennis team last week it was his first loss of the year for the top Missile Command netter. The all-around athlete from Chicago and DePaul University had little trouble in capturing his singles matches against Computer Sciences and Sperry Rand and has helped win one of the doubles sets in each of the three team matches so far. Capt. O'Neil, aide-de-camp to Maj. Gen. John G. Zierdt, will leave Redstone later this year to attend the Ordnance Officers Career course at Aberdeen Proving Ground, Md.

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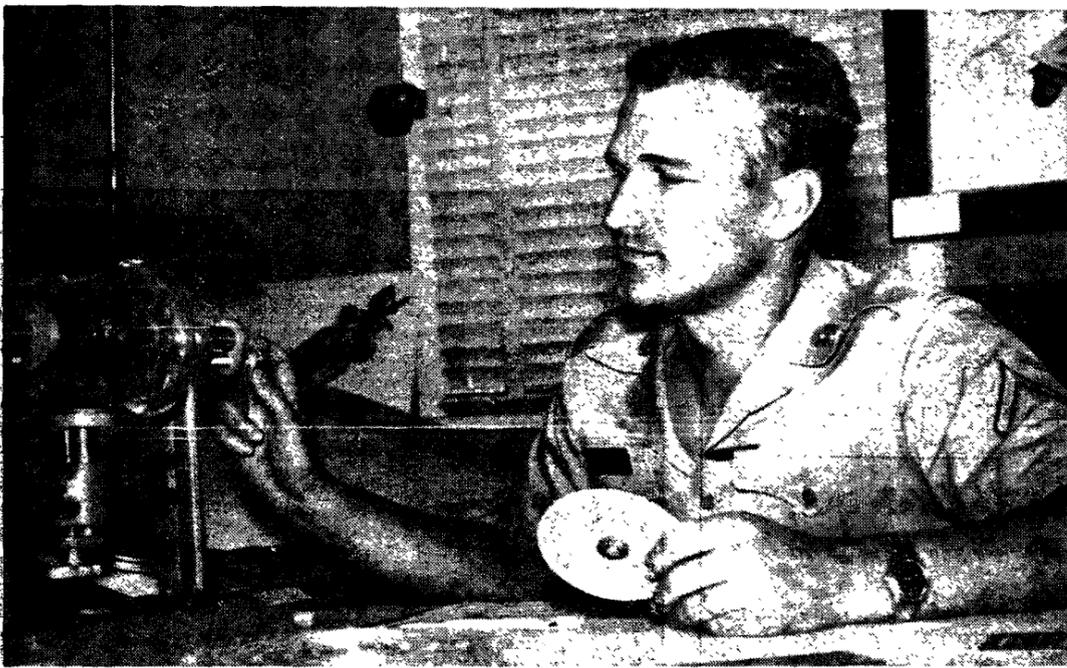
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SOLDIER-ENGINEER—Redstone Arsenal's Post Soldier of the Month award for June was won by PFC Ronald Moore who also applies engineering skills in the Physical Sciences Laboratory of the U. S. Army Missile Command's Research and Development Directorate. A Scientific and Engineering enlistee, PFC Moore has designed a calorimeter for Laser research. He also assisted with construction of the alignment device he is adjusting for the new 100-foot Laser. Moore is a graduate of Montana State University with a BS in Mechanical Engineering. He and Mrs. Moore reside at 2905 9th Avenue, Huntsville, Ala.

Nike-Hercules HIPAR Contracts Hit \$7 Million

The Army has awarded two contracts totaling nearly \$7 million to the General Electric Company, Syracuse, N. Y., to produce High Power Acquisition Radar (HIPAR) equipment for the Army's Nike Hercules Air Defense guided missile system.

In addition to HIPAR equipment, the contracts provide for modification kits to improve system performance.

Work under both contracts is to

be performed at Syracuse.

The Nike Hercules system is the Army's primary defense against high flying aircraft. The HIPAR is designed to detect enemy aircraft at long ranges so that they may be engaged by the ground-launched interceptor missiles of the Nike Hercules system.

Nike Hercules sites are located throughout the United States and in some allied countries.

The Nike Hercules program is

managed by the Army Missile Command, under Col. Morris W. Pettit, Project Manager.

Contracts were negotiated by Systems Contracts, Division B of the Missile Command's Procurement and Production Directorate, headed by Col. S. C. Holmes.

ARMY WAR COLLEGE was presented Army Distinguished Service School Award for more than 50 years' outstanding contribution to education and training of Armed Services personnel. Army Chief of Staff Gen. Harold K. Johnson made presentation at Carlisle Barracks, Pa. (AFNB)

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Reservists Train For Explosives Disposal



The 433d Chemical Detachment (MSC) from Columbus, Ga., and the 416th Chemical Detachment (MSC) from Tuscaloosa, Ala. are two reserve units who recently completed their annual active duty training at the Missile & Munitions Center & School. The Explosive Disposal Department of the Unit Training Command were responsible for the training.

The 433d is commanded by Lt. James B. Johnson and the 416th by Capt. Ernest W. Blakeney Jr.

Promotion Policy Review Initiated

House Armed Services Committee Chairman L. Mendel Rivers (D-S.C.) has appointed a Special Subcommittee "to conduct an Enlisted Promotional Policy Review."

Naming Rep. Alton Lennon (D-N.C.) as chairman, he said that it is time for his Committee to consider whether statutory promotion provisions should be recommended for enlisted personnel.

"Officer promotion procedures are spelled out in law," he elaborated, "Enlisted promotions, however, are governed almost entirely by regulations."

Chairman Rivers expressed concern whether enlisted personnel are getting adequate and equitable promotion opportunity, particularly those in Vietnam.

"I want to be sure that enlisted promotions don't depend, as is often alleged, on 'being in the right place at the right time,'" he said.

He also asked his subcommittee



CONGRATULATIONS, BILL—William M. Schmidt of Systems Contract Division B, Procurement Operations in the Army Missile Command Procurement and Production Directorate, gets a handshake and a certificate of excellence from James K. Fowler, Deputy Director. The award recognizes the Buyer of the Month who is selected for remarkable ability in contractual actions. Schmidt was the winner for May. He came to the Missile Command in July 1964 from the Cincinnati Procurement District, and works on Lance contracts in P&P. His co-workers call him "Mr. Bloodmobile" since he has been a consistent blood donor for years.

PERSONNEL are putting on rubber suits worn during decontamination of areas and of un-exploded chemical ammunition.

to determine why there are great variations among the services in promotion procedures and time in grade, citing the waiting time for some Air Force enlisted grades as twice as long as other services.

Chairman Rivers also instructed the subcommittee to inquire beyond promotions into a wide range

of other matters from the consistency of awarding pro pay and the variable reenlistment bonus to the variation of stripes and rank designations, including the Army's specialist system.

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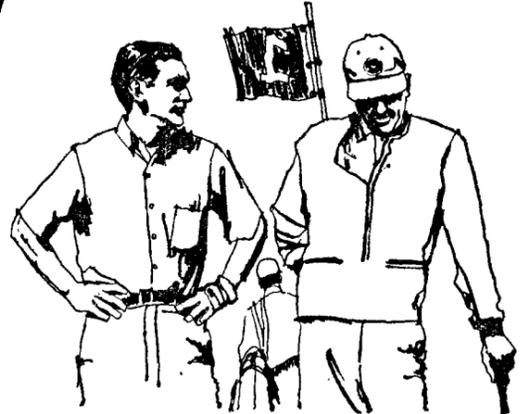


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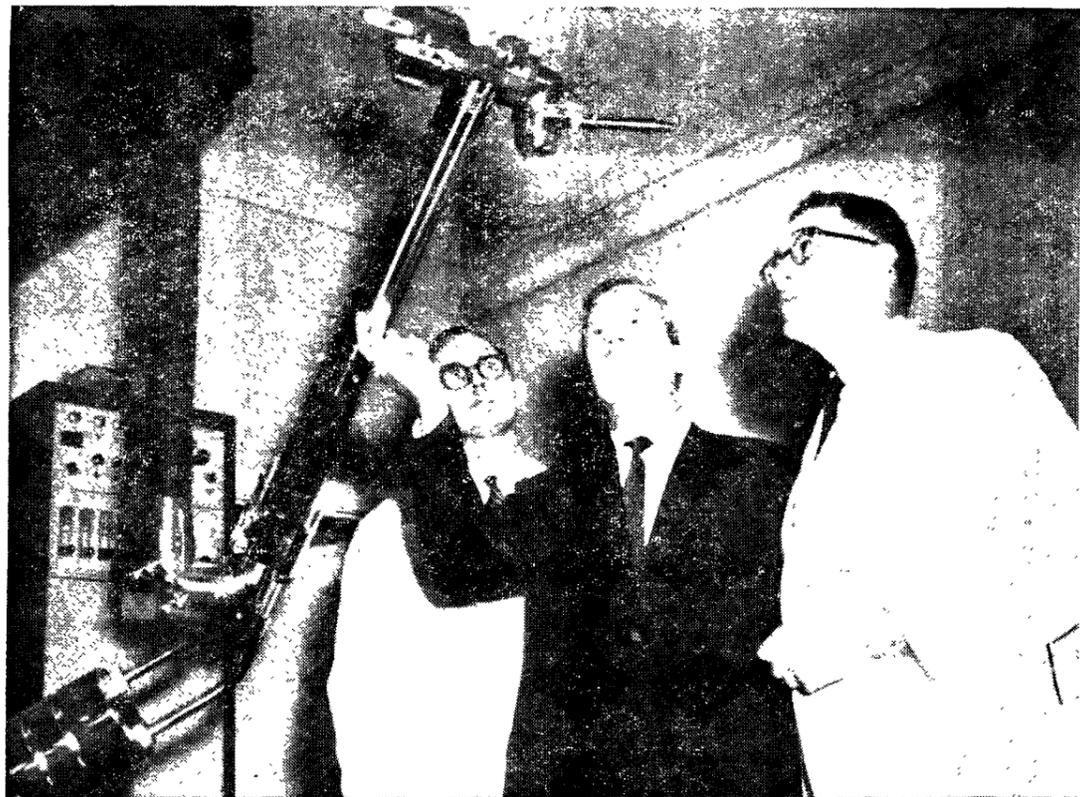
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A NEW SURGICAL TOOL—William B. McKnight of the U.S. Army Missile Command, demonstrates the new laser surgical tool he helped design for the Public Health Service of the Department of Health, Education and Welfare. Dr. Robert C. Hoye, left, senior investigator, Surgery Branch, National Cancer Institute, and Dr. Alfred S. Ketcham, right, Chief, Surgery Branch, National Cancer Institute, look over the device which is believed to be the first laser unit specifically designed for possible use as an adjunct in human surgery for treatment of cancer.

Command Employees Develop Laser For Use In Cancer Research Effort

The Public Health Service's National Cancer Institute, using laser equipment developed by the U. S. Army Missile Command, will conduct research with high energy light beams to study their effects upon cancer.

The term "laser" is derived from "light amplification by stimulated emission of radiation."

The laser instrument is undergoing modifications while being installed in a cancer research area at the National Institutes of

Health, Bethesda, Md. The device was developed by the Army in response to a request from the National Cancer Institute following more than a year's cooperative study by the Missile Command's laser experts and Institute scientists.

The earlier experimentation carried on at Redstone Arsenal involved exposure of both internal and external malignant growths in laboratory animals to pulses of infrared radiation from high energy

lasers developed by the Missile Command. The experiments proved that the radiation could destroy some cancer cells under certain circumstances.

The National Cancer Institute proposes to use the laser instrument in a program of experimental work on laboratory animals. The results may indicate whether laser could be used for treatment of malignant tumors in humans. While many of the results thus far of laser irradiation upon tissue remain poorly understood, the experimental findings are sufficiently significant to justify further animal experimentations and refinements in laser instrumentation.

Dr. Kenneth M. Endicott is Director of the National Cancer Institute and Maj. Gen. Charles W. Eifler is Commanding General of the Missile Command. Dr. Alfred S. Ketcham, Chief, Surgery Branch, and Dr. Robert C. Hoye, surgeon, are the National Cancer Institute scientists in charge of the research, assisted by Grant Riggle, Biomedical Engineering and Instrumentation Branch, Division of Research Services, NIH, and William Hawkins, Electrical Engineer, Redstone Arsenal. William B. McKnight and the late James R. Dearman, both engineers of the Army's Missile Command, designed the laser device.

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Army Cuts General Orders To Three

Starting Aug. 1, the U. S. Army will drop the 11 general orders and substitute the following three:
No. 1—"I will guard everything within the limits of my post and quit my post only when properly relieved."
No. 2—"I will obey my special orders and perform all my duties in a military manner."

The three simplified orders will be supplemented on each post by a set of realistic, detailed, and mission-oriented special orders, established by the commanding officer. These additional orders are tailored for the specific post and situation from the viewpoint of security and sentry effectiveness and protection.

The revised general orders are part of a new concept of Army-wide guard duty, both on-post (interior) and off-post (exterior), as stated in DA Field Manual 22-6. The new manual, called "Guard Duty," replaces FM26-5, called "Interior Guard Duty."
FM 22-6 defines exterior guard as a term to classify those guards in a combat area, guards in hostile

No. 3—"I will report violations of my special orders, emergencies, and anything not covered in my instructions, to the commander of the relief."
The three simplified orders will be supplemented on each post by a set of realistic, detailed, and mission-oriented special orders, established by the commanding officer. These additional orders are tailored for the specific post and situation from the viewpoint of security and sentry effectiveness and protection.

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FM 22-6 defines exterior guard as a term to classify those guards in a combat area, guards in hostile

or unfriendly territory, and guards located anywhere who have to perform their duties in such a manner that the general orders prescribed for interior guard are not applicable or practicable.
The new manual, effective Aug. 1, explains in detail the use of the countersign and parole word under all field and combat conditions.

BRITISH WING COMMANDER Roy M. Jenkins, on exchange duty with U. S. Air Force at Scott AFB, Ill., has earned Military Airlift Command flying safety award for completing 10,000 flying hours without accident. Wing Commander Jenkins was first exchange officer from RAF to earn this award. AFNB

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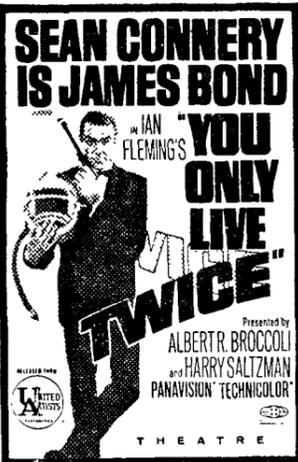
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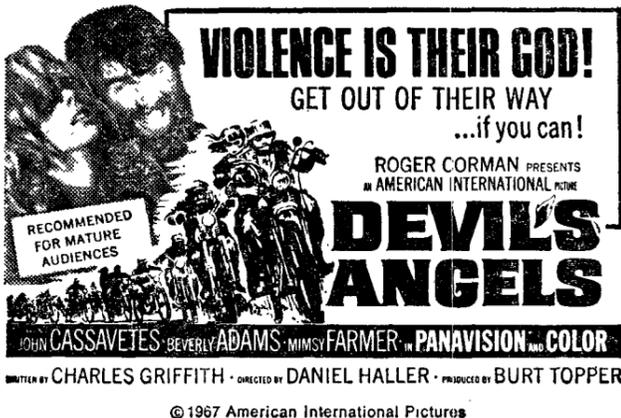
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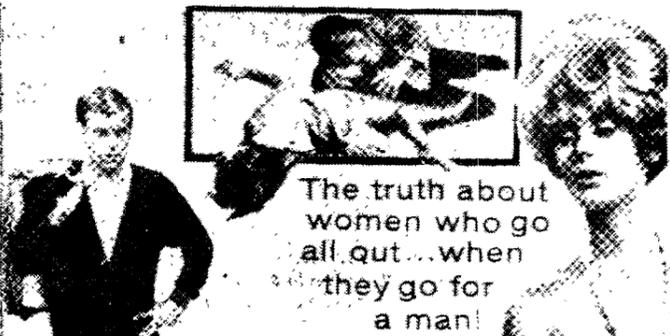
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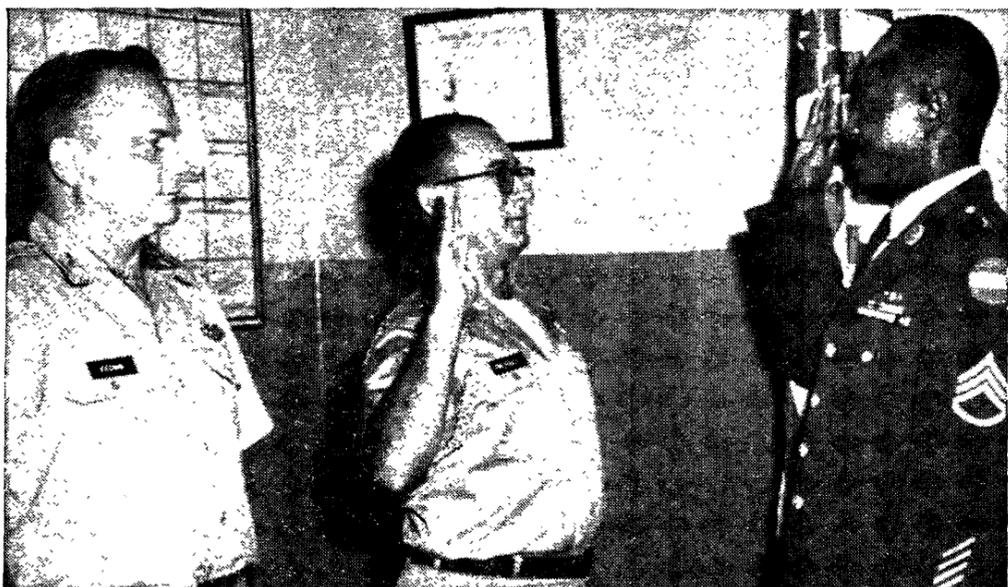
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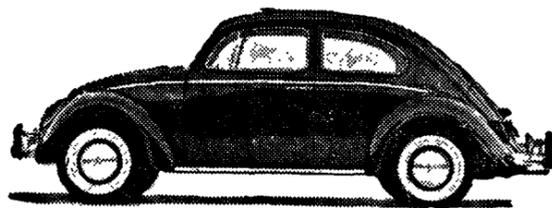
Robert Wagner • Anjanette Comer • Jill St. John
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RE-UP—The new company commander of the 9th ETC at the Missile and Munitions Center and School re-ups his training sergeant. Infantry Captain David J. Murray recently returned from My Tho, Vietnam, swears in SSG Solomon A. Mitchell, a veteran of 24 years service recently returned from Berlin, as Col. James L. Keown, School Troop Command Commander, looks on. Cpt. Murray is a native of Ft. Worth, Texas. He received his commission in 1964 through the ROTC program at Arlington State University. He succeeds Cpt. Harry M. Laska who is soon to terminate his service.

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Battlefield In Vietnam Circular, Graduates Told

A 360-degree circular battlefield is the major difference between the war in Vietnam and other conflicts in which U. S. forces have fought, an expert in the use of armored vehicles in warfare Friday told graduates of the Army Missile and Munitions Center and School at Redstone Arsenal.

Maj. Charles W. Richardson, a member of the faculty of the Armor School at Fort Knox, Ky., said both the American and South Vietnamese armies have developed highly effective new combinations of armored vehicles to fight the Communists on battlefields that are circular because there no fixed front lines, no lineal disposition of troops and attacks come from all directions.

A highly fluid type of tactics has been developed by combinations of tanks and armored personnel carriers equipped to fire small missiles and a wide variety of artillery and explosives on the circular battlefields.

Maintenance men thus bear special responsibilities because the rear echelons where maintenance is usually performed can suddenly become the front lines, Maj. Richardson said. He complimented the work of Army Ordnance maintenance specialists on the high quality of their work in Vietnam.

He also praised the effectiveness of 10 South Vietnamese armored

battalions that have developed special ways of using armor in jungle warfare.

Maj. Richardson spoke to 137 graduates from the U. S. Army and Marine Corps and Venezuela at a ceremony in the Redstone Theater.

Burl Galloway, president of the local chapter of the Association of the U. S. Army presented student awards to three graduates who averaged 96 or better in their studies.

They were: Pvt. Gale Belden of Burr Oak, Kansas, with 97.3 and Pvt. Michael A. Carranza of Kearney, Neb., with 96.2 both in the ammunition records course; and

CP/5 Floyd Kirksey Jr. of Shreveport, La., with 96.1 in the Nike missile radar and computer course.

Cited as honor graduates in their respective classes were: Lt. John B. Bartos of Alhambra, Calif., 94.8 in the ammunition officer course; PFC Kenneth R. Kerr of Parnell, Ill., with 88 in Hawk radar and battery control; PFC Michael G. Littlejohn of Indianapolis, Ind., with 88.2 in Hawk radar; Marine Corps PFC Donald R. Denton of Midwest City, Okla., with 94.3 and PFC Joseph F. Sidiski with 94.2, both in Hawk guidance and launcher electronics; PFC James P. Siefken with 91.8 in combat missile systems repair; and Pvt. Robert V. Davidson of Wilmington, Del., with 95.2 in ammunition storage.

PFC Robert E. Stair III of 2611 Scenic View Drive, Huntsville, was among the graduates of the Nike radar and computer course.

HUBBARD RECEIVES MEDAL

SFC James R. Hubbard Jr. received the Army Commendation Medal for meritorious service from Col. Erwin M. Graham Jr., Commandant, Missile and Munitions Center and School. Hubbard

formed and supervised a special team of instructors who teach maintenance of complex high power radar equipment that feeds target data to guided missiles.

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Sergeant's Avocation Sometimes Proves Stinky

Many people have hobbies to occupy their time off duty. Some play at sports like tennis or football or engage in indoor activities like model railroading or stamp collecting, but SSG Gary M. Zaun of the Special Ammunition Department at the Missile and Munitions Center and School has a hobby that is guaranteed to stink—the deodorizes skunks!

SSG Zaun took up the hobby in 1962 at Aberdeen Proving Ground where his brother, also stationed

at APG, got him interested. The tools of his trade include hemostats, surgical knives, rubber gloves and a gas mask. Zaun says the gas mask is only to protect his face from the animal, since the cannister (which is cut off) doesn't begin to stop the smell of the furry striped creature.

There is a good market for

skunks as pets. SSG Zaun estimates there are some 400 on post, some in captivity and some not.

One of these housepets weighs upwards of 16 pounds. Some skunks are more in demand than others. Zaun notes that the "desirability" of said animals is determined by the number of stripes on their

backs—the more stripes the more highly prized the skunk.

The Sergeant says people tend not to bother him too much about his hobby. The MP's on post only stopped him once to examine his car trunk which was full of skunks. The only people he seems to have trouble with are his

assistants who never volunteer more than once to help him.

Zaun is now clearing post prior to leaving for Guam. Since there aren't any skunks in that part of the world, he wants to sell his equipment to someone interested in carrying on his fine tradition.—Any takers?



HOW TO STOP FRITTERING AWAY YOUR EDUCATION

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READ THE WANT ADS! USE THE WANT ADS!

NAVY RADM. THOMAS B. Owen has assumed command as Chief of Naval Research, succeeding Adm. John K. Leydon, who retired from military service. Adm. Owen came to his new post from Director of Naval Research Laboratory. AFNB

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 217 Times Bldg., Huntsville. Deadline is Friday noon, before Wednesday publication.

Page 14 The Redstone Rocket — July 12, 1967

For Rent

FOR RENT—Brick house with 3 bedrooms, carpeted living room, 2 complete baths, built-in kitchen, dishwasher and carport. Near Arsenal, Research Park and University of Alabama. Call 852-1301. 7-19-p

2. Cars for Sale

JEEP 1965 4 wheel drive, 10,000 actual miles, big heater, vinyl top, clean as new, cash price \$1395. See at Taylors Pharmacy, No. Memorial Plaza Shopping Center, Cor. Oakwood and No. Parkway 1tc

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3. Miscellaneous

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KARATE—Rocket City Karate Club has opening for instructor, Korean style preferred, must be certificated black belt. Call 536-4420. 1tc

FOR SALE—Conrac Fleetwood 21" TV, Model 800. Full remote control. The Connoisseur's TV, studio monitor quality. Nope, it's not COLOR, just "State-of-the-Art" B&W. 881-4696. 1tp

FOR SALE—Singer ¾ size portable sewing machine with attachments (including button hole). In good shape with current warranty. \$50.00. Call 539-6165 after 3:30 p.m. 1tp

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4 BEDROOMS, 2½ baths, den, garage, fence, patio, carpeting throughout, drapes, finance equity, \$112 per mo. 3 BEDROOMS, den, bath, carpeting, drapes, fence, \$76 per mo., will lease for year or finance equity. 532-1526 or 852-5760 evenings. 1tc

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ACCOUNTANTS INSTALL OFFICERS—Floyd E. Mitchell, Branch Manager of the Defense Contract Audit Agency, was recently installed as president of Huntsville Chapter, Federal Government Accountants Association, in ceremonies at the Carriage Inn. A resident of Huntsville since February 1965, Mitchell is a native of Columbus, Ohio, and a charter member of Columbus FGAA Chapter where he served as treasurer. Other officers pictured, from left, are Bernard R. Shell (DCAA), treasurer; Mitchell; Paul O. Ritchie (Army), vice president; and Theodore Kromis (NASA), secretary.

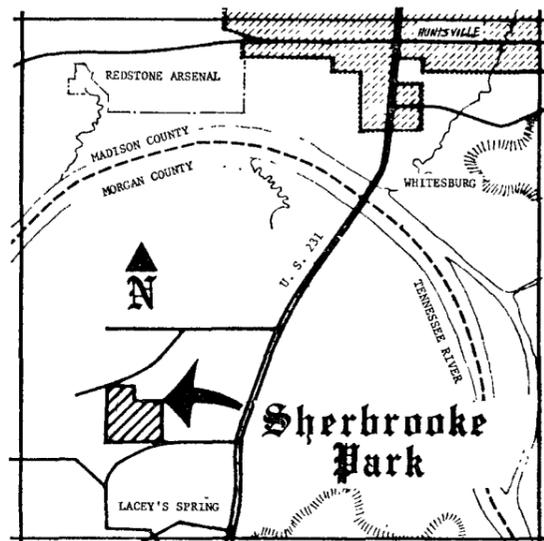
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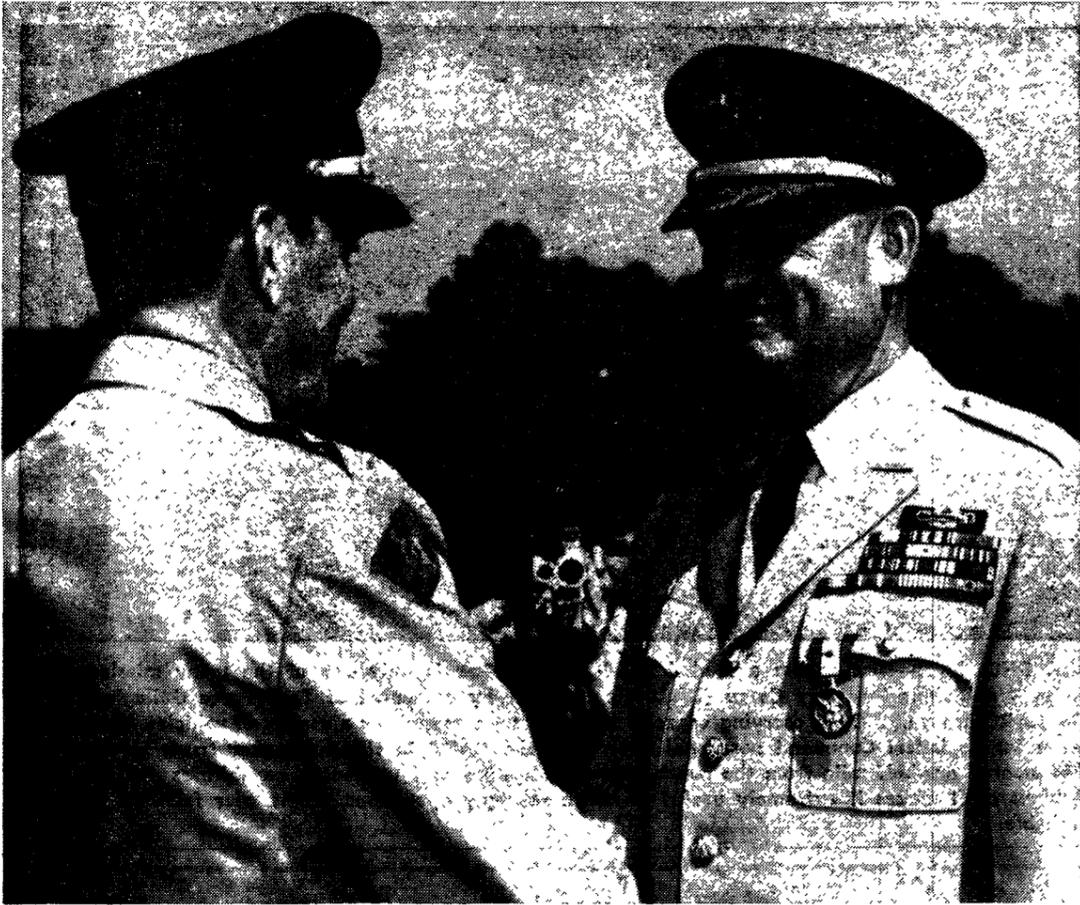
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RETIREMENT HONORS—Maj. Gen. George T. Duncan, Deputy Commanding General, Third U.S. Army and Commanding General, Fort McPherson, was honored at a special retirement review on June 29th on Hedekin Field, Ft. McPherson. Lt. Gen. Louis W. Truman, (left) Commanding General, Third U.S. Army, congratulates Gen. Duncan as he is presented the Distinguished Service Medal with the First Oak Leaf Cluster.

Third Army General Retires In July

HEADQUARTERS, THIRD U. S. ARMY, Fort McPherson, Georgia—Full honors were accorded Maj. Gen. George T. Duncan, Deputy Commanding General, Third U. S. Army and Commanding General, Fort McPherson, in honor of his retirement July 31st from the installation with which he has been closely associated throughout his 35-year military career.

His first assignment here was as a Second Lieutenant with the 2d Infantry in 1932-35. It was during this tour he married the former LaTrelle Robertson of Atlanta at a military wedding in

the First Presbyterian Church of Atlanta.

His second tour was in 1954 as Deputy Chief of Staff, Third U. S. Army. Later assignments included Commanding General, Berlin Command; Commanding General, IV Corps, Birmingham, Alabama; and several positions in the Continental Army Command, Fort Monroe, Virginia. In 1966 he returned to serve in the double role of Deputy Commanding General, Third Army and Commanding General, Fort McPherson.

Following his retirement from the Army, Gen. Duncan will serve

as Assistant to the Director, Yerkes Primate Resources Center, Emory University, Atlanta.



SUPPORT CONTRACT FOR HAWK MISSILE SYSTEM GOES LOCALLY

The Army at Redstone Arsenal has awarded a \$307,482 contract to the Boeing Company in Huntsville support work being done on the Hawk guided missile system.

Under the cost-plus-incentive-fee contract, Boeing will design and develop a new wing for the Improved Hawk.

Announcement of the contract was made at the Army Missile Command which manages the Hawk program under Col. J. G. Edmon, Project Manager.

Hawk is the Army's primary weapon system to search out and destroy low flying attacking aircraft. Improved Hawk is an improvement program featuring design changes which make the weapon even more capable and reliable.

Negotiating the contract for the Army was Systems Contracts, Division B, of the Missile Command's Procurement and Production Directorate, headed by Col. S. C. Holmes.

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See These Cars and Make an Offer



QUICK ACTION RECOGNIZED—High praise for helping to save the life of a Huntsville youth who was thrown from his motorcycle and through the windshield of an automobile in a traffic accident recently is given to specialist James B. Johnson of the Army Missile and Munitions Center and School, by Col. Erwin M. Graham, Jr., commandant. Johnson, the son of Mr. and Mrs. Austin Johnson of Route 2, Richton, Miss., rendered rapid first aid to Russell Hamilton, 16, and others injured in the accident last March. Johnson received a special letter of commendation and the coat-of-arms of the Center and School.

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KENNEDY SPACE CENTER—Mr. and Mrs. Eugene Matthews and their children Mark and Terrie toured the John F. Kennedy Space Center during a trip to Florida. Matthews is employed in the Computation Center, Arsenal Support Operations. The family lives in Huntsville.



DUC PHO, RVN—Discharging a loaded 5,000-gallon tanker is only one of the many missions this Barge Amphibious Resupply Cargo (BARC) is used for by personnel of Task Force Gallagher here. The BARC has a 60,000-ton carrying capacity and easily accommodates a variety of vehicles. These U.S. Army 1st Logistical Command personnel have used the BARC to fill the tanker truck from an oil ship moored one-half mile from the beach. The fast loading and unloading capabilities of this amphibious craft makes it extremely useful in beach resupply operations, where pier facilities are not available.

Col. Hughes Receives Joint Services Medal

A special assignment in a vast training maneuver that involved 25,000 men, 70 ships and 300 aircraft from all branches of the U.S. Armed forces has earned a high Department of Defense award for Col. Thomas K. Hughes, director of the missile components department of the Army Missile and Munitions Center and School.

The Joint Service Commendation medal was presented to Col. Hughes by Col. Erwin M. Graham, MMCS commandant, on behalf of Admiral T. H. Moorer who heads the Navy's Atlantic Command and commanded the exercise known as Operation Clover Hitch and held off Puerto Rico from January through May of this year.

Col. Hughes was cited for exceptionally meritorious service as deputy chief of staff for plans and operations of the complex tri-service exercise. Col. Hughes is a 1938 electrical engineering graduate from Texas A. and M. University and holds a master's degree in electronics from Massachusetts Institute of Technology.



FRAMED—Army Sp4 Fred A. Theis cleans part of a grader's clutch assembly. Sp4 Theis is assigned to the Saigon Support Command's 185th Maintenance Bn. at Long Binh in the Republic of Vietnam.

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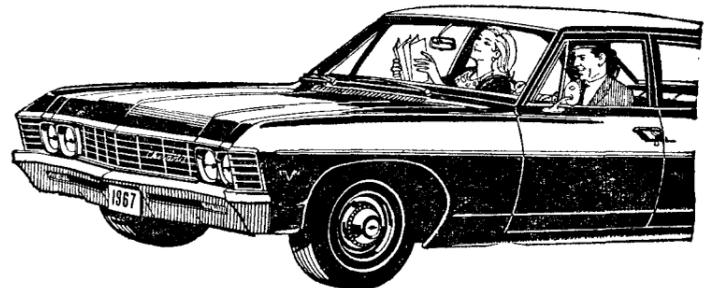
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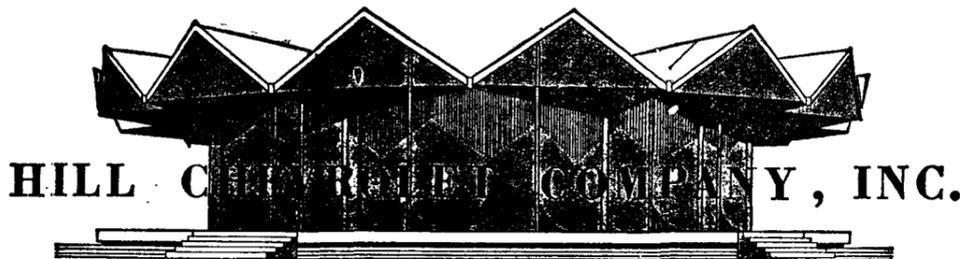
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