

The Redstone Rocket

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VOL. XII; NO. 39

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

FEBRUARY 12, 1964

**Arsenal-Wide
Spot News
Dial 877-2164**

Redstone's Nike-X Will Be High Fund System

Sec. McNamara Outlines Proposed Plans For 'X'

The news was buried on page 116 of Secretary Robert McNamara's proposed 1965 defense budget.

In just 35 words it disclosed that Redstone Arsenal would become the home of the nation's highest funded defense missile project.

The project is Nike-X.

In presenting his request for funds for the new ICBM defense system, Secretary McNamara said:

"... \$40 million requested for Nike Zeus would complete the test and evaluation program for that system. The \$334 million requested for Nike-X would continue, on an urgent basis, the development of the new system."

The total for these two programs, thus, is \$374 million for FY 65. Nike Zeus testing is continuing as a part of the Nike-X development program.

Secretary McNamara had this to say about the new Nike-X System:

"The Nike-X is designed to provide three improvements over the Nike Zeus System: (a) a high acceleration missile, Sprint, which would be fast enough to provide time for discrimination of re-entering objects before the Sprint has to be fired; (b) a Multi-function Array Radar (MAR) which would have the capability to acquire and track a large number of objects simultaneously, thus reducing the probability that the system's rate of fire could be limited by saturating the radar; and (c) components which could be sufficiently hardened to make direct attack on the system unprofitable. A number of Nike Zeus missiles would be included in each battery in order to provide a capability for extra range interception, where circumstances permit. Several missile sites would be required around most cities.

"The continuing testing of the Nike Zeus and preliminary studies of the Nike-X System's characteristics and effectiveness provide grounds for believing that the technical problems of at least a partial defense against a ballistic missile attack may be solved within the next several years. The Nike Zeus test program at Kwajalein Island has met with considerable success."

The defense secretary went on to describe briefly the Nike Zeus test program and then said:

"Analysis of the Nike-X system completed to date provides some basis for the belief that the three critical characteristics required of the system, which I described earlier, can eventually be satisfied. However, major problems have yet to be solved before we (See NIKE-X on Page 3)



THEY HAVE TO GIVE IT BACK—The traveling plaque for suggestions to the Incentive Awards Board was earned by the Sergeant Project Office this quarter. Col. J. M. Loomis, Virginia B. Lee and Edgar C. Roberts examine the plaque which has been awarded the Production and Procurement Directorate 10 of the 12 quarters it has been in circulation. Once, the General Staff Offices displayed the plaque for a quarter, and now when the quarter ends, it will be returned permanently to the P & P Directorate. The proposed plan is to start a new plaque circulating. Members of the Engineering Division staff where Lee and Roberts work had 100 per cent participation in the Incentive Awards suggestion program during the past quarter.

Sergeant Program Status Reviewed

Where does the Sergeant missile program stand?

This and other pertinent questions were discussed last week during a status review of the Army Missile Command's Sergeant ballistic missile system held at Redstone Arsenal.

"This was a meeting to coordinate activities, see just where we stand and where we are going," said George Johnson and O. C. Lusk, program coordinators of the Sergeant project office.

Attending the conference were representatives of all directorates of the Missile Command, members of the project manager's staff as well as other Army agencies interested in the Sergeant program.

The Sergeant is a single-stage, solid propellant ballistic missile which is designed to replace the Corporal in supporting Army troops in the field.

Col. J. Mort Loomis, Jr. is Sergeant project manager.

Lt. Curtis Named Outstanding OGMS Instructor of OTB

First Lt. Myron F. Curtis, was named this week as the outstanding instructor of the Officer Training Branch at the Army Ordnance Guided Missile School.

Lt. Curtis recently was appointed commander of the Ordnance Equipment Maintenance Platoon of the Third Battalion (Pershing) of the 84th Artillery Detachment in the Unit Training Command. He taught in the nuclear weapons and logistics section.

Before coming to the Arsenal, Lt. Curtis attended the Army school at Sandia Base, New Mexico. He was graduated in 1962 from the University of Florida in Gainesville.

Propulsion Technology Is Studied

More than 100 missile and rocket propulsion experts from throughout the Department of Defense and industry today will conclude a two-day meet aimed at studying progress in hybrid propulsion technology.

The meeting, sponsored by the Defense Department's Advanced Research Projects Agency, began Tuesday at Missile Command headquarters.

Brig. Gen. H. P. Persons, Jr., Deputy Commanding General, Air Defense Systems, welcomed the officials to the conference.

Attending the meeting which is being hosted by the Missile Command, are ARPA officials, personnel of the Army, Navy and Air Force, the National Aeronautics and Space Administration, and representatives of contractor firms engaged in hybrid propulsion pro-

News Deadline
Deadline for news to be printed in The Redstone Rocket is Friday afternoon.
The Editor

grams funded by ARPA through the military services.

Included among those attending are Dr. Robert J. Heaston, program manager of the chemical office of ARPA, Washington, D. C.; William E. Sheehan, of the office (See PROPULSION on Page 3)

Charlton Named Redeye Manager

Ernest K. Charlton Jr., a native of Nashville, has been named acting Commodity Manager for the Redeye missile system.

Charlton has been employed at Redstone since 1951, coming to Huntsville from Birmingham, where he was a mechanical engineer with the Tennessee Coal, Iron & Railroad Co. Prior to his recent promotion he served as as- (See CHARLTON on Page 3)

Deactivation Of Corporal Units Begun

The Army has begun inactivation of selected Army battalions armed with first generation liquid-fuel Corporal missiles.

By finding new users for selected Corporal equipment no longer needed by inactivated tactical units, the Army believes it can save American taxpayers more than \$60 million on the Corporal missile system alone.

Inactivation of the first generation missile units has been announced by the Department of Defense, which said additional Sergeant missile units are being stationed in Europe and the new 175 mm self-propelled gun is being deployed to both Europe and the Pacific. In addition, an improved Honest John rocket system and larger numbers of nuclear warheads for the eight-inch howitzers will be deployed.

When the modern, improved weapons reach the field, first (See DEACTIVATION on Page 2)

Ingenuity Eliminates Need For Range Crew

Thanks to the ingenuity of a soldier in the Army Missile Command, one man can perform missile antenna tests that formerly required a full range crew and the firing of a live missile.

Sp4 Collins Smith, an electrical engineer with the Inertial Guidance and Control Laboratory of the Directorate of Research and Development designed equipment to tell missile scientists what an antenna will do long before the antenna is placed in the missile.

(See Picture on Page 12)

The equipment consists of a missile model containing a sub-scale antenna model suspended in a

transparent polystyrene globe. The globe rests on drive wheels controlled by a computer which can copy exactly the various positions of a missile in flight in one continuous motion.

When a missile is fired, the changes in position from nose-up at launch to nose-down at impact affects the performance of the missile-based antenna. The expected changes in performance must be known before an antenna is placed in a combat-ready missile.

The antenna flight simulation project has been planned for several years by personnel of the Laboratory's Instrumentation Branch. Smith was assigned to the

Laboratory in January, 1963. James V. Howell, Chief of the Radio Frequency and Tracking Section, gave Smith the task of designing the equipment to make the project work.

The expense of a live missile firing has always been a problem for missile scientists. A method had been devised earlier to evaluate antennas without actual flight tests, but the method was slow, not completely accurate, and required at least two men to operate.

With the old method, a missile model containing a sub-scale model of the antenna to be evaluated

was turned at 10-degree increments to simulate the position of the missile from launch to impact. Using the data gathered at these 10-degree increments, the scientist had to extrapolate a performance curve for the entire trajectory of a missile's flight.

With the new system, the entire flight of the missile is simulated in a smooth continuous curve, with the data on antenna performance being gathered continuously. In addition, an attenuator copies the effect of decreased antenna signal strength as the missile moves down-range away from the ground tracking crew. This takes the guesswork out of points in be-

tween the old 10-degree recordings and eliminates chances for human error.

Smith declined to estimate the difference in cost between the new method and a live missile firing, but said the only cost with the new system is one man's time and a few kilowatts of normal electric current.

The 26-year-old soldier attended Utah State University, where he lacks less than a year of study to receive his B. S. degree in Electrical Engineering. After his tour at Redstone, Smith plans to finish his B. S. degree and work toward his M. S. degree, both at Utah State, in Electrical Engineering.

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., Bldg. 5250, Room A-136, Extension 876-4161.

All advertising copy and payments therefor are received by Mrs. Zillah T. Heath, Huntsville, Ala., P. O. Box 346, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wanted—is noon of Friday before publication.

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for the Rocket are \$6.36 a year, or \$3.50 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Huntsville, Ala.

Rocket Ruminations

The American continents . . . are henceforth not to be considered as subjects for future colonization by any European powers." —James Monroe

The Will And The Way

It was George Crabbe in "The Birth of Flattery," who said "Be there a will, and wisdom finds a way."

He obviously referred to the will of the mind but his quotation is equally applicable to the signed document which disposes of an individual's worldly goods.

An up-to-date will should be particularly important to us at Redstone Arsenal. Most of us are in an automobile for many miles each day in getting from our homes to our work and dangers lurk on the roads we travel.

Also, many Army employees at Redstone find frequent travel to distant places a necessary part of their jobs. Being prepared for any eventuality is doubly important to them.

Having a will is just good business sense. It gives the individual the power to dispose of his possessions as he sees fit. It saves his family time, worry and money even if the will does nothing more than the due process of law would do.

Salute To The Boy Scouts

President Lyndon B. Johnson has proclaimed National Boy Scout Week for Feb. 7-13.

The International Boy Scout Program has the reputation of contributing a most healthy influence on the youth of today who will be tomorrow's leading citizens.

The Rocket is happy to take this opportunity to recognize and salute our local Scouts and their leaders who are doing a job that many people are merely satisfied to talk about.

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EDS-0009 GOES TO Washington

The Army Missile Command's new engineering marvel, the EDS-0009, is going to Washington.

The Engineering Data System will be on exhibit Feb. 17-19, at the 14th National Conference of the American Standards Association which will be held at the Sheraton-Park Hotel.

Theme of this year's meeting will be "Markets—Standards—Profits."

Accompanying the equipment from Redstone Arsenal will be James H. Peacock and Gilbert A. Penny, both of the Standardization Office of the Procurement and Production Directorate.

Capable of storing mountainous volumes of technical data—from almost any type of document—and presenting it in a matter of seconds, the EDS-0009 is expected to save 16,000,000 engineer man-hours per year if used throughout the defense establishment.

This system can scan 1000 items in 12 seconds and displays standardized data sheets describing items which the engineer seeks. If needed, the system can provide a copy of the data sheet in 30 seconds.

AER Presented Check

In closing the account of the recent National Security Seminar the remaining \$347.59 was donated to the Army Emergency Relief Fund.

Chamber of Commerce President James W. Johnston presented the check to Col. Thomas W. Cooke, Commander of the Army Missile Support Command, who expressed appreciation for Army personnel at the Arsenal.

The National Security Seminar, sponsored by the Huntsville-Madison County Chamber of Commerce, was financed through pre-determined fees paid by attendees. Walter Eigenbrod chaired the committee of arrangements.

Huntsville was one of the major cities throughout the United States selected for location of the Seminar which concerned the interrelated civilian-military economic and industrial problems in herent in management of resources. The Army Emergency Relief Fund assists Army military families which encounter severe economic problems.

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Engineering Education To Be Discussed Tonight

The Dean of Engineering and Director of the Engineering Experiment Station at Auburn University, Fred H. Pumphrey will speak to The Institute of Electrical and Electronics Engineers tonight about Engineering Education of Today and Tomorrow. The IEEE will meet at 6:30 p.m. at the Squirrel Hill Club.

Before joining Auburn University in 1958 Dean Pumphrey was Professor of Electrical Engineering and Department Head at the University of Florida, Gainesville. He was Professor of Electrical Engineering at Rutgers University from 1928 to 1945. Dean Pumphrey's teaching career started at State University of Iowa as an instructor in 1927. He worked in various engineering positions prior to his teaching career with Dayton Power & Light Company, Kansas Gas & Electric Company and the Staten Island Edison Corporation.

Dean Pumphrey served in both World wars, as a lieutenant of Artillery in First, and as a colonel in the Office of Chief Signal Officers during the Second. He is the author of three books on engineering and has had articles printed in National Publications. He is a member of the American Society of Engineering Education, and the IEEE.

DEACTIVATION

(Continued From Page 1)

generation Corporal and Lacrosse missile units will be inactivated. The deployment of the improved weapons will provide an increase in Army fire support capabilities in both Europe and the Pacific areas.

The program aimed at finding new users for the Corporal equipment is being managed by Col. Robert W. Grote's Supply and Maintenance Directorate here.

The major items being offered include components of the missile, a mobile launcher, guidance equipment and several types of electronic equipment.

Army Developing Better Equipment

The Army is continuing to develop better test equipment, but the only real dependable test equipment for the missile age is a trained technician, Maj. Arthur Q. Woodward told 32 graduates of four courses Friday at the Ordnance Guided Missile School.

Maj. Woodward, chief of the Training Management Branch of the Academic Operations Division, OGMS also said that facilities for teaching are continuing to improve in an effort to keep up with the rapidly growing missile maintenance field.

Four students received honor graduate scrolls and special awards. Second Lt. Ronald E. Bischoff of Erie, Pa., was top man in the ordnance guided missile officer (administration) course; Sp/4 James A. Wright of Ft. Walton Beach, Fla., led the Hawk pulse acquisition radar and battery control center repair course; PFC Bert E. Carlyle of South Pasadena, Calif. was honor graduate in the Nike track radar repair course; and Pvt. Ned F. Letto of Broadview, Ill., topped the ballistic missile propulsion and structure repair (Pershing) course.

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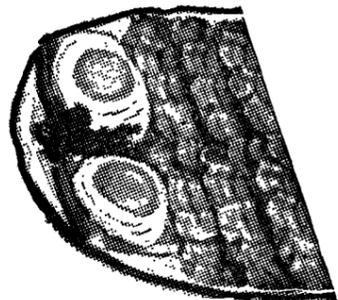
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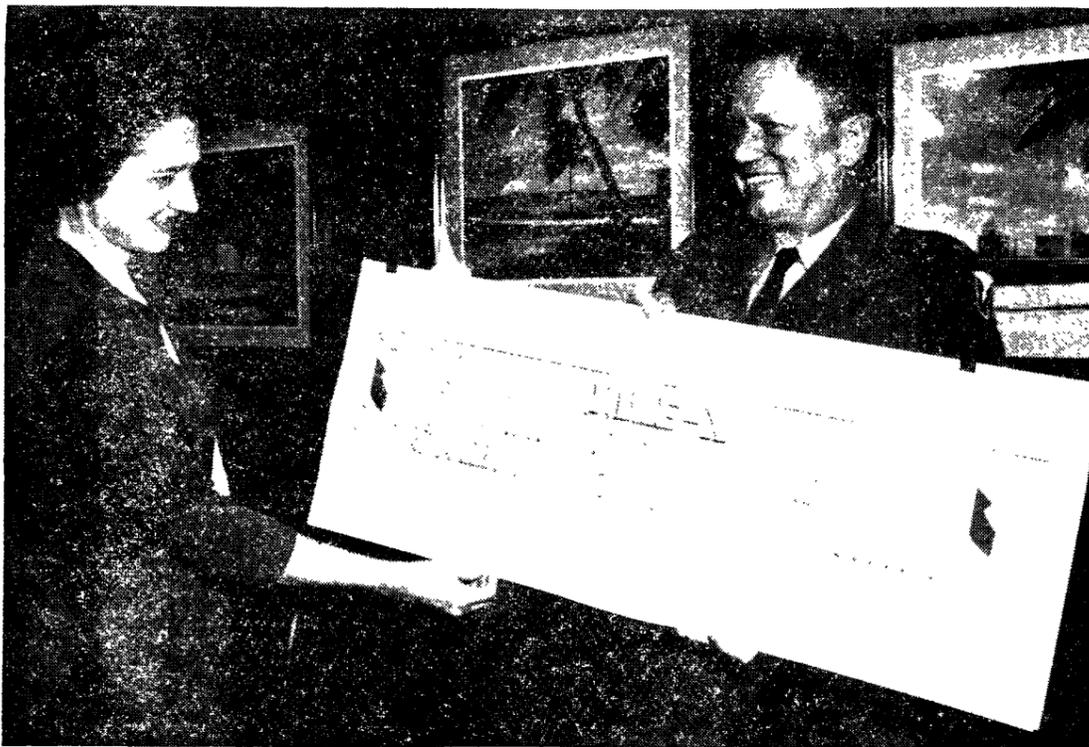
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MARKING THE SPOT WITH AN "X"—Going up in both hemispheres are signs proclaiming the new name for the Army's biggest missile project. At Redstone Arsenal (above) and Kwajalein Island in the mid-Pacific (below) Nike Zeus signs are being replaced by ones reading Nike-X. Above Col. I. O. Drewry, the Project Manager, shows a model of the new sign that will mark his headquarters to Wilodene Edwards his secretary. Below, holding a two-handed X are Col. Glen Crane, chief of the Nike-X Pacific Field Office, and J. W. Schaefer, Director of the Kwajalein Field Station for Bell Telephone Laboratories. BTL is responsible for Nike-X design and development.



NIKE-X

(Continued From Page 1)

will have sufficient data upon which to consider a decision to produce and deploy the system. Projects already underway will contribute importantly to this end.

"For example, a Zeus discrimination radar was installed at Kwajalein in September, 1963, and over the next year should produce a considerable amount of information concerning discrimination techniques against various types of penetration aids. In addition, a proto-type Multi-function Array Radar will be installed at White Sands Missile Range in June, 1964, and several other phased array radars will also be tested during the next year, thus contributing importantly to our knowledge of this type of radar technology.

"By next year, therefore, we should have considerable more information upon which to base a judgment on the technical feasibility of the Nike X system. A large number of detailed technical, strategic and economic problems, however, must still be solved before an effective ballistic missile defense system can be deployed.

"Components must be developed to withstand very high accelerations and temperatures. Manufacturing techniques must be devised for the production of thousands of efficient, reliable tubes and components. While none of these problems is considered insuperable, they could result in delays and increases in costs."

The Secretary continued: "But even if all of these difficulties can be surmounted, we will still have to determine whether the potential effectiveness of the system would justify the very high cost of its deployment. For example, we estimate that the R&D and investment cost of one possible Nike-X defense program would amount to about \$16 billion and it would cost a very substantial additional amount each year to operate the system. And

these estimates may prove to be low."

The Secretary then talked of a combination of Nike-X and an effective civil defense program. He said "the effectiveness of an active ballistic missile defense system in saving lives depends in large part upon the existence of an adequate civil defense system."

Reviewing the problems of defense against submarine launched missiles, Secretary McNamara said "The Nike-X System, if we decide to deploy it, would then provide the primary capability against submarine-launched missiles."

The case for the Army's new ICBM defense system was summed up this way: "Accordingly, we propose to continue the Nike-X as a high priority research and development program without any commitment at this time to its ultimate production and deployment."

The management of the Nike-X project is centered at the Nike-X Project Office here. Col. I. O. Drewry is the Project Manager and, as such, he reports directly to Lt. Gen. Frank S. Besson Jr., Commanding General of the Army Materiel Command in Washington.

PROPULSION

(Continued From Page 1)

of the Deputy Director, Research and Engineering, Department of Defense;

Dr. Vincent J. Keenan, of the Institute of Defense Analyses; Robert W. Ziem, NASA, Washington, D. C.; Harold E. S. Jersin and James A. Chalmers, both of the Army Materiel Command; Dr. Bruce A. Reese, a professor at the Purdue University jet propulsion center; and Dr. O. H. Johnson, Bureau of Naval Weapons in Washington.

General chairman of the event is Dr. Marvin J. Hall, of the Missile Command's Research and Development Directorate.

CHARLTON

(Continued From Page 1)

Assistant to the chief of the Redstone Commodity Office.

Charlton was born in Nashville on May 5, 1924, and graduated

from Hume-Fogg High School in 1942. He entered the Army Air Corps in March, 1943, and spent two years in the South Pacific as an engineer-gunner. After winning seven Air Medals and the Distinguished Flying Cross, he was released from active duty in late

1945.

Charlton enrolled at Vanderbilt University immediately after receiving his discharge and was granted his Bachelor of Science degree in mechanical engineering in 1949. He went to work for the Tennessee Coal, Iron & Railroad Co. and remained there until coming to Redstone Arsenal almost two years later.

He has held many positions at the arsenal, at one time as an engineer in the National Maintenance Point and later as deputy chief of the Control Office for ARGMA.

He is married to the former Miss Bettye Megar, and they have two children, Dianne and David Lynn.

A progress report on the newest Army branch — Intelligence and Security — is presented by Maj. Gen. Edgar C. Doleman, Assistant Chief of Staff for Intelligence, in the March Army Information Digest.

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Col. Marshall Is District Engineer

Col. Robert C. Marshall has been named District Engineer of the Mobile, Alabama, District of the Army Engineers effective in midsummer 1964. He will be in charge of an engineering, real estate, and construction program in the central southeastern United States amounting to over \$150 million in fiscal year 1964.

The announcement was made by Maj. Gen. A. C. Welling, South Atlantic Division Engineer at Atlanta.

Col. Marshall, 42, a native of Washington, D. C., has been assigned as assistant Director of Civil Works for Atlantic Divisions in the Office of the Chief of Army Engineers since 1961 and has been closely associated with civil works activities of the Mobile District.

The newly designated District Engineer served in four campaigns in Europe during World War II, and from 1945 to 1947 as Assistant Army Engineer, Third United States Army, in Germany. He has been awarded the Bronze Star twice and the Purple Heart Medal.

Col. Marshall also served with the Joint Military Aid Group in Greece from 1951 to 1954, and with the Eighth United States Army in Korea in 1961.

Col. D. A. Raymond, District Engineer at Mobile since 1961, will be reassigned. His new duties have not been announced.



OPEN SECRETARIAL COURSE—(Left to right) Lucy Grace, coordinator for an advanced secretarial course offered by the Training and Development Division of Civilian Personnel, Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command, and Eileen Hennessee, secretary to the Chief of Staff, go over the program at the opening session of the course. Gen. Zierdt was kickoff speaker.

Secretaries Study Advanced Course At Arsenal

An advanced secretarial course designed for secretaries who are good and want to be better was addressed by Maj. Gen. John G. Zierdt at the opening session last week.

Secretaries to executives in the Missile Command, the Guided Missile School and the Missile Support Command heard a number of speakers on a broad span of subjects.

The course is a part of the Training and Development Division of Civilian Personnel's overall plan to promote career development.

John S. Hinkle, from the Training Division, talked to the secretaries about Command organization. They heard about Human

Relations from Dr. B. E. Bess, Occupational Health Service; and about what an executive expects from his secretary from Lewis L. Gober, Mauler Project Office.

Meme Warren, also of Civilian Personnel, discussed Apparel, Poise and Grooming.

And a panel of secretaries from Huntsville and the Arsenal closed the session with a panel discussion called A Secretary Looks At Her Job.

Juliette Sperr, contract assistant in the Systems Contract Division of the Production and Procurement Directorate was the moderator.

Panel members were Martha Reynolds, Huntsville Utilities, Ann Walker, Brown Engineering Company and Becky Turnipseed, SPACO, Inc.

Lucy Grace, an employee development assistant in the Training and Development Division, coordinated the three-day course and introduced the speakers.

Movie Schedule

WEDNESDAY, February 12

"30 Years of Fun" (F)

THURSDAY-FRIDAY, Feb 13-14

"West Side Story" (M-YP)

First performance 5:45 p.m.

SATURDAY, February 15

"It's Only Money" (F)

SUNDAY-MONDAY, Feb. 16-17

"The Leopard" (M-YP)

First performance 5:45 p.m.

TUESDAY, February 18

"Nightmare" (M)

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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COL. COOKE DOES THE HONORS—Col. Thomas W. Cooke, Director of the Army Missile Support Command, presents Mrs. Ruth von Saurma with facsimile copies of patents of inventions by her late husband, Friedrich G. von Saurma, a German scientist who formerly worked with the Army Ballistic Missile Agency, has had four of his inventions issued by the U. S. Patent Office.

Mrs. von Saurma Receives Patent On Steerable Chute

One day in the distant future, it may well be possible for a man to leap into space from a plane, glide slowly to the ground and hit softly on a predetermined spot.

Unusual? Perhaps not, in most cases. But this particular man will be jumping without a parachute!

The man will float to earth via a new method which was invented by a German scientist who formerly worked with the Army Ballistic Missile Agency.

Although he has been dead for more than two years now, Friedrich G. von Saurma who was on the staff of Dr. Wernher von Braun—has just had four of his inventions issued by the U. S. Patent Office.

Col. Thomas W. Cooke, Commander of the Army Missile Support Command, recently presented Mrs. Ruth von Saurma with facsimile copies of the patents received by the Army Missile Command

Patent Center.

Indicative of his enthusiasm in flying, three of von Saurma's inventions deal with the device which will enable man to jump without a parachute.

It is a steerable rotary chute, made of wings or airfoils, which are rotated by the wind of descent and work in much the same manner as helicopter rotors. This device may be carried in a collapsed state by a man and inflated as he jumps.

The entire unit, which may be adjusted during descent for guidance to a desired location, is strapped on the back.

Von Saurma's other invention is a vacuum tube accelerometer which indicates the level and change in velocity of an object in flight. It can be used in missile and space vehicle guidance systems.

A native of Silesia, which is be-

hind the Iron Curtain in East Germany, von Saurma loved flying. He built his own planes as a young man and taught himself to fly.

"He did a lot of what you call barnstorming," Mrs. von Saurma says, "and I have a lot of pictures of banged up planes with broken propellers and the like."

During the Second World War, von Saurma was in the German Air Force and was one of the men who played a major role in developing the V-1 rocket as well as JATO (Jet Assisted Take-Off for planes).

He came to this country in 1953 and joined Dr. von Braun's staff in 1954, working at that time in the Development Operations Division.

Going with Dr. von Braun when the noted scientist left ABMA and became part of the National Aeronautics and Space Administration, von Saurma maintained his interest in flying and was one of a group to form the Redstone Flyer's Club.

With the assistance of some friends in the Army's Patent Center, von Saurma drew up plans for his ro-copter and inflatable wing idea and, subsequently, made improvements on it.

Described by Mrs. von Saurma as a cheerful man who lived life to the fullest and enjoyed every second of it, von Saurma died suddenly in December 1961.

His rotary chute, as it is explained, could have definite military advantages.

Most important is its steering

capability which would enable a jumper to steer away from trees, power lines and other such hazards. Then, too, high winds would not affect it as they do a parachute.

The rotary chute is much smaller than a parachute and would be less easily discovered by an enemy. Upon landing, the rotary chute may be tilted so that a jumper isn't dragged or bounced along the ground.

Mrs. von Saurma, a gracious

lady who is a native of Frankfurt, is presently a translator for Marshall Space Flight Center.

In addition to speaking German and English, she speaks fluent French and "gets by" in Italian. "I can translate Italian to English," she says, "but I have trouble translating into Italian."

Mrs. von Saurma, who lives at 3309 Panorama Drive, has a daughter, Lily, 19, who is a freshman at Georgetown University in Washington, D. C.

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 Charles W. Sandlin, Army Missile Command—\$50.
 Donald W. Miller, Army Missile Support Command—\$30.
 Walter J. Krueger, Army Missile Command—\$30.
 Leslie R. Conger, Army Missile Command—\$35.
 Jean W. Smith, Army Missile Command—\$70.
 Evelyn B. Foster, Army Missile Command—\$40.
 Jesse L. Draper, Army Missile Support Command—\$20.
 Leonard L. Crabb, Army Missile Support Command—\$25.
 Patricia W. Hood, Army Missile Command—\$15.
 Sidney W. Canfield, Army Missile Command—\$15.
 John O. Pepper, Army Missile Command—\$20.
 Fred L. Bright, Army Missile Command—\$15.
 Walter O. Tucker, Army Missile Support Command—\$15.
 Carlos E. Jordan, Army Missile Support Command—\$170.
 Charles V. Starkey, Army Missile Support Command—\$15.
 Clyde R. Jennings, Army Missile Support Command—\$30.
 Everette M. Pierce, Army Missile Command—\$15.
 Gerald W. Hutchison, Army Missile Support Command—\$40.

Alberta L. Short, Army Missile Command—\$25.
 Loraine Whittaker, Army Missile Support Command—\$15.
 Clayton B. Jewell, Army Missile Command, \$25.

SUGGESTIONS

Willie T. Baugher, Army Missile Support Command, \$45. Estimated savings annually—\$585.
 Lorene T. Hyatt, Army Missile Support Command, \$20.
 Martha R. Glover, Army Missile Support Command, \$15.
 Herschel B. Moore, Army Missile Support Command, \$30. Estimated annual savings is \$275, on first suggestion, no estimate made on second suggestion.
 James D. McCune, Army Missile Support Command, \$15.
 SP Ronald W. Taylor, Army Ordnance Guided Missile School, \$25.
 SFC William A. Baxter, Army Missile Support Command, letter of commendation.
 Karl K. Hardy, Army Missile Support Command, letter of commendation.
 Frances W. Burgess, Army Missile Support Command, letter of appreciation.
 Elise Fusch, Army Missile Support Command, letter of appreciation.
 Trubye Y. Sutton, Army Ordnance Guided Missile School, letter of appreciation.
 Ernest Gryder, Army Missile Support Command, letter of appreciation.



SAFETY AWARD—Mr. Hubert Callaway is shown receiving an award for outstanding safety supervision from Lt. Col. Earl D. Hicks, Assistant for Communications, U. S. Army Missile Support Command. Callaway is chief of the Material Division, of the organization, which has maintained an accident-free record for a period of three and one-half years. Looking on is Tillman G. Moses, a Decaturite, who serves as the division safety representative. As stated by his chief, "Tillman's enthusiasm and effort in accident prevention has contributed immeasurably to the division's safety record."

Five Southern Bell Men Will Present Program

The Huntsville section of the Society of Motion Picture and Television Engineers will meet Tuesday, Feb. 18 at the Squirrel Hill Officers' Club.

Five guest speakers from Southern Bell Telephone and Telegraph Company will present a program on Data and Video Transmission. Howard E. Palmes, account manager will talk first on Standard Bell System Offerings and a General Discussion of their

services. This will lead into the area of slow speed and voice bandwidth services by Robert E. Todd, Jr., a Bell services engineer. Then Dick Dedels will go into Broadband Services Covering Bandwidths up to one Megacycle. James C. Ray will then discuss Video Transmission with some of the problems involved. Bill Stafford, a staff supervisor, will then show a demonstration of teletypewriters and paper tape terminals. Interested non-members are invited to the lectures.

Military requirements for coal in the first six months of 1963 totaled 2,764,453 tons, or 30 times the weight of the Washington Monument.

PURDUE ALUMNI TO MEET

A movement is underway in the Greater Huntsville area for the formation of a Purdue University Alumni Club. An organizational meeting is slated Feb. 14, at the Trinity Methodist Church.

Purdue alumni and friends interested in such an association are invited to attend the organizational meeting starting at 7:00 p.m.

Persons interested in receiving information concerning the plans and activities of the club can keep informed by sending their name, address and telephone number to Porter Bridwell at 8712 Edgehill Drive, in Huntsville.

Awards and Decorations

Army Commendation Medals have been awarded the following:
 Lt. Col. Wilmer R. Bottoms, Post Chaplain;
 Lt. Slayden Diehl, Directorate of Production and Procurement;
 Lt. William E. Keeling, Pershing Project Office;
 Lt. John W. Milne, Directorate of Research and Development;
 CWO Hugo S. Mann, Directorate of Missile Intelligence.

Canadian Ordnance School Commandant Visits OGMS

Lt. Col. W. G. S. Barratt, commandant of the Royal Canadian Ordnance School, is visiting the U. S. Army Ordnance Guided Missile School this week.

Col. Barratt is here to establish a personal liaison orientation between the two ordnance schools. He arrived yesterday (Tuesday, Feb. 11) and will leave tomorrow.

February 8, 1963 — The U. S. resumed underground nuclear testing.

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Defense Announces Change In Signal, Communications

The Department of Defense has announced plans for a major change in the communications-electronics organization of the department of the Army.

The Chief Signal Officer, Department of the Army, will be redesignated the Chief of Communications-Electronics about March 1964 and will be assigned broadened and strengthened staff responsibilities.

At the same time, the Army Strategic Communications Command becomes a separate major Army command and assumes the command responsibilities for strategic communications formerly assigned to the Chief Signal Officer.

Both realignments result from a special study board directed by the Army's Chief of Staff to assess and redefine communications-electronics roles and missions in light of modern needs and the global responsibilities of the Army.

This Board recommended that the title of Chief Officer be changed to Chief of Communications-Electronics to better describe the broadened staff responsibilities.

The Chief of Communications-Electronics will remain under the general staff supervision of the Deputy Chief of Staff for Military Operations and will concentrate on the staff activities involved in tactical and strategic communications-electronics. He will provide a focal point at the departmental level for staff advice and coordination of all communications matters.

The Chief of communications-electronics will retain command of the Army Photographic Agency, located in the Pentagon. The Army Pictorial Center, Astoria, Long Island, will be transferred to the Army Materiel Command.

There will be no concurrent change in titles for signal officers at lower echelons. Their primary role remains the traditional and most important one of signal communications.

The U. S. Army Strategic Communications Command will become a major command directly under the Army's Chief of Staff. It will be under the staff supervision of the Chief of Communications-Electronics on all matters pertaining to the communications mission; and the position of Commander of the U. S. Army Strategic Communication Command has been established as one for a General Officer.

In executing the Army's strategic communications missions, the Command's Headquarters will continue to be located in the Washington area and will be the point of contact in the Army for DCA on all strategic communications operational matters.

In the first phase of its organization, beginning about April 1964, the Army Strategic Communications Command will incorporate those communications organizations formerly commanded by the Chief Signal Officer. These are: Joint Communications Agency, Fort Ritchie, Md., operated by the Army; the Army Signal Communications Security Agency, Arlington Hall Station, Va.; the Army Radio Propagation Agency, Fort Monmouth, N. J.; and the Flight Information and Navigational Aids Office, Arlington, Va.

In the second phase, starting about July, 1964, Army Strategic Communications Organizations Worldwide will be brought into

the command.

The Consolidated Worldwide Command will provide a single executive agency for the Army's Strategic Communications missions and better integrated control and response to both the Army requirements and those of the overall defense communications system.

It is anticipated that almost all of the personnel currently assigned to the Office of the Chief of Communications - Electronics and STRATCOM will continue to be employed in the same or similar jobs. There will be, however, some shifting of personnel between the two organizations, and between jobs.

Reading Improvement Demonstration Held

Faculty members of the William H. Council High School in Huntsville visited Redstone Arsenal recently to attend a special lecture and demonstration on the Army Missile Support Command's Reading Improvement Training Program.

The presentation was provided by the Civilian Personnel Training



KOREAN UNIT—The first Korean Hawk Detachment was initiated in a ceremony Monday, February 10, at the Ordnance Guided Missile School. Col. William J. Macpherson, commandant, (second from left) presents the unit competition certificate to Capt. Sunwon Hwang, commander of the unit, as Major Jaeine Choung, Korean Liaison officer, and Unit Troop Commander, Capt. Richard G. Vorba, look on.

and Development Division to assist the school in its program of reading improvement, a project selected this year for special emphasis.

Through the presentation and demonstration, the school authori-

ties are seeking new methods, techniques, and innovations that can be adopted to improve reading at all grade levels in the school. Lewis J. Baker, of the Training and Development Division staff, conducted the presentation.

S-Sgt. Chew Gets Ready For School

S-Sgt. Terry D. Chew is a persistent man in pursuit of education.

He entered the Army in 1956 under a program which would allow him to take two years of college and now he is starting out to complete the work he started then.

He has just been assigned six months of temporary duty at the University of Missouri Schools of Mines and Metallurgy at Rolla to complete work on a bachelor of arts degree in civil engineering. He attended the school from 1959 to 1961, completing all but one semester's work toward his degree.

Sgt. Chew is the son of Mr. and Mrs. Virgil Chew of 19 Cedar St., Akron, N. Y. He is a graduate of Akron Central High School there.

Before coming to Redstone Arsenal, Sgt. Chew was stationed at Fort Churchill in Manitoba province, Canada. He is presently working in the Hawk Branch at the Army Ordnance Guided Missile School.

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PEANUTS Charles Schulz

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Social

Toastmistresses Speech Contest Begins Wednesday

The Huntsville Toastmistress Club held its first preliminary speech contest after dinner Wednesday night at the Plantation. Mrs. Gere Wyss won first place with her talk, "Battle of the Bulge." Mrs. Rhoda Stambaugh and Mrs. Barbara Ray tied for second place.

The purpose of the annual speech contest is to provide each toastmistress with the opportunity to gain experience in preparing and delivering a contest type speech where tension, timing, competition and professional judging are involved. All contest speeches must be original material. The club's top winner will be selected during the finals Mar. 18. The winner of the finals will progress to more advanced competition toward the international contest.

Mrs. Meme Warren served as toastmistress and summarized the basic rules of the contest for the audience and directed the collection of the judges' ballots, judging forms and contestants' notes.

Guest judges were: Mrs. Grace M. Ackerman, a former toastmistress; and Mrs. Katy Lyle, President of the Huntsville Chapter of the Society for Personnel Administration. Mrs. Koki Hardenburgh and Miss Dollie Wiginton served as member-judges.

Mrs. Mary Jane Hearn, as toastmistress, carried out the theme: The Constitution, with requests for impromptu discussions of the most valuable amendments. Miss Dollie Wiginton was judged the best of the five speakers.

Guests were Mrs. Marshall V. Henry, Mrs. Elizabeth Douglas, and Mrs. Eleanor Weiden.

The next scheduled contest will be Feb. 19 at the Russel Erskine Hotel.



RETIRES—Mrs. Lillian W. Baxter unwraps a gift she received as a farewell present to the veteran employee who retired last week. The purse is one of several she was given by fellow employees who surprised her with a party at the Reproduction Division of

the Army Missile Support Command. Mrs. Baxter has two daughters, a son and a son-in-law working at Redstone Arsenal. Left to right are: Ann Brand, Mary Frances Branum, Ruth Hardison, Joyce Pope, Lila Moran and Martha Pinkerton.

After 17 Years, Mrs. Baxter Retires

Lt. Iber, Mrs. Cobban Win Bridge Competition

Winners at Monday night bridge at the Squirrel Hill Officers Club last week were Lt. Peter Iber and Mrs. A. M. Cobban.

Runnersup were Lt. Col. J. H. Helmers and Mrs. Charles McBrearty. Six tables were in play during the evening.

Mrs. Iber handles reservations to play with the group at 7:30 p. m. each Monday. Her deadline on reservations is Sunday evening.

MRS. COLE WINS AT PARTY BRIDGE

Party bridge sponsored by the Bridge Group of the Redstone Arsenal Officers Wives Club at the Squirrel Hill Officers Club Thursday drew nine tables of players.

Mrs. William A. Cole was winner with Mrs. R. L. Spragins second and Mrs. E. M. Krembs third. Mrs. Krembs, 877-5379, handles reservations to play with the group.

After almost 17 years of varied government service, Mrs. Lillian W. Baxter retired recently at the Army Missile Command. She was working as a reproduction equipment operator in the Reproduction Division of the Army Missile Support Command at the time of her retirement.

She says she will now become a built-in baby sitter for her nine grandchildren in Huntsville. Three of her six children are employed on Redstone Arsenal. Daughter Peggy Mitchell is in the Hawk Project Office, daughter Ann Page is with Marshall Space Flight Cen-

ter, and son James W. works at Thiokol Chemical Corp. Her son-in-law, V. "Mitch" Mitchell is chief of the Office Services Branch of the Missile Command Administrative Office.

Mrs. Baxter's first assignment was as a practical nurse in the U. S. Army Hospital at Huntsville Arsenal. Later she was a matron on the ammunition lines at Red-

stone Arsenal. When Redstone's mission changed from bullets to missiles, Mrs. Baxter moved to the Reproduction Division where she has been the last 10 years.

Her boss in the Reproduction Division, John Tyson, presented her with a certificate and a letter of appreciation signed by Col. Thomas W. Cooke, AMSC Commander.

SCOTTISH RITES ELECTION PLANNED

The Scottish Rite Bodies of Huntsville will elect officers of The Lodge of Perfection Monday, Feb. 17 at 6:30 p.m. They will meet at the Scottish Rite Temple, Bob Wallace and Poinciana Avenues.

Feb. 21, the Scottish Rite Association will hear Warrant Officer Carlos R. Velez tell about Latin-American countries, particularly Puerto Rico. He will use visual aids. The meeting will be open to all Masons, their families and friends.

Supper will be a covered dish affair provided by the attendees and will be served at 6:30 p.m. The program is scheduled at 7:30 p.m.

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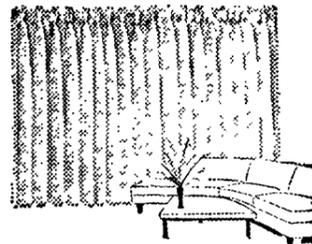
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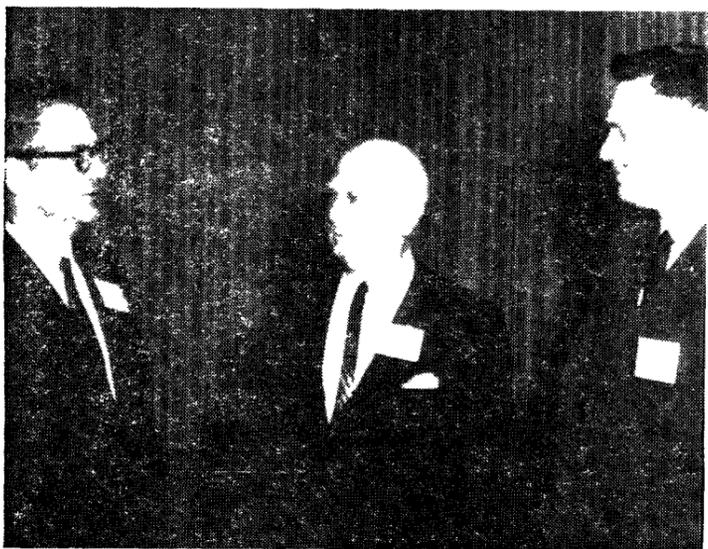
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DEMPSTER DUMPSTER HEAD — George R. Dempster (center), guest speaker at last week's meeting of the Thiokol Management Club, talks with Club President Leo A. Brookshire (left), and Program Chairman, Garland K. Grace (right) prior to the meeting.

Dempster Speaks To Thiokol's Management Club

George R. Dempster spoke at the meeting of the Thiokol Management Club last week.

Dempster, at 76, is the active head of Dempster Brothers, Incorporated, of Knoxville, Tennessee. The company manufactures and distributes on an international basis the famous Dempster Dumpster and related equipment.

Dempster spoke to the 300 club members present on the problems of a small manufacturer. His firm employs about 500 people at its Knoxville plant and 150 at a new plant just opened on the West Coast. The Dumpsters are manufactured in England under license from his company, and will soon be produced in France and Germany under a similar arrangement.

Known as a civic leader and long time backer of the "Hire the Handicapped" program, Dempster has served as councilman, Mayor, and City Manager of Knoxville. He presently serves on national and state special commissions promoting the employment of handicap-

ped people in industry. He was the 1958 recipient of the Tennessee Jaycee Good Government Award.

The dinner was at the Squirrel Hill Officer's Club.

At The Service Club

By: Brenda Hanson

Our calendar year is arranged so there is a time for everything, and everything has its place in the overall plan.

This week is the time for hearts and flowers. It's getting perilously close to the time for income tax too, which for many of us means a time of headaches and empty pocketbooks. These times try men's souls. Therefore, the Service Club program this week is designed to soothe troubled minds and bring entertainment to the penniless.

We start with a contest for the thinkers. If you enjoy competitive chess enter for the chess contest Feb. 12 at 8 p.m. Prizes will go to the winners. If you permit yourself an evening of entertainment, it might prove profitable.

Thursday is bridge night. Come down and fill in some of your empty hours with a Bridge Game. Lessons are also given on this date if you are interested in learning.

Cupid's Musical Quiz will hear the program Friday night. We have a mystery tune. If you are lucky enough to identify it, you'll be the winner of a wallet. Try your luck with familiar music.

Saturday afternoon the regular Saturday Coffee Call will be at 2:30 p.m. If you find that you have several idle hours on hand, why not come spend an afternoon utilizing the facilities that are here for your enjoyment. At 6:30 p.m. Kitchen Kapers will be held.

Sunday coffee and donuts will be served at 9 a.m. There's noth-

Deans' Day To Be Observed

A significant feature of the local Engineers' Week activities will be an observance of Deans' Day on Feb. 18. Deans of Engineering Schools over the Southeast are being invited to participate in order to update them regarding the tremendous technical challenges facing engineers in the Huntsville area and throughout the aerospace industry.

Planned activities for Deans' Day participants and guest include a luncheon at MSFC, an afternoon tour of Redstone Arsenal and the Industrial Park, and a reception given by Milton K. Cummings, President of Brown Engineering Company, hosts for the deans and guests during their stay in Huntsville.

Climaxing the deans' orientation to the aerospace industry challenges will be a panel discussion at 7 p.m. in the Huntsville Utilities Building auditorium. Dr. F. J. Tischer, Deputy Director of the Research Institute, will moderate the discussion. Members of the panel are: Dean Thomas L. Martin

of the University of Florida; Dean Fred Pumphrey of Auburn University; Dean Felix Zweig of Yale University; Scott Hill, Director of Professional Recruiting for General Electric; and Frank Williams, Assistant to Dr. von Braun.

The panel has been selected to

represent the views of education, industry, and government service in attempting to pinpoint future trends which may affect the entire engineering field and, in turn, determine what is required in future engineering education. Members of engineering societies and the public are invited to participate by presenting pertinent points and questions to the panel.

For further information contact: Jerry Barnes 532 1537.



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"THE ROMANCE" By Nita



"THE MARLENE" By Mary



"THE MARLENE" By Mr. Brady

Mr. Brady, one of the nation's leading Hair Stylists, returned to Huntsville this week to teach and demonstrate the latest coiffure collection for spring and summer 1964. Mr. Brady, member of O. H. F. C. and National N. H. C. A., has been stylist for many TV and movie personalities and consultant for many of the latest fashion releases throughout the country.

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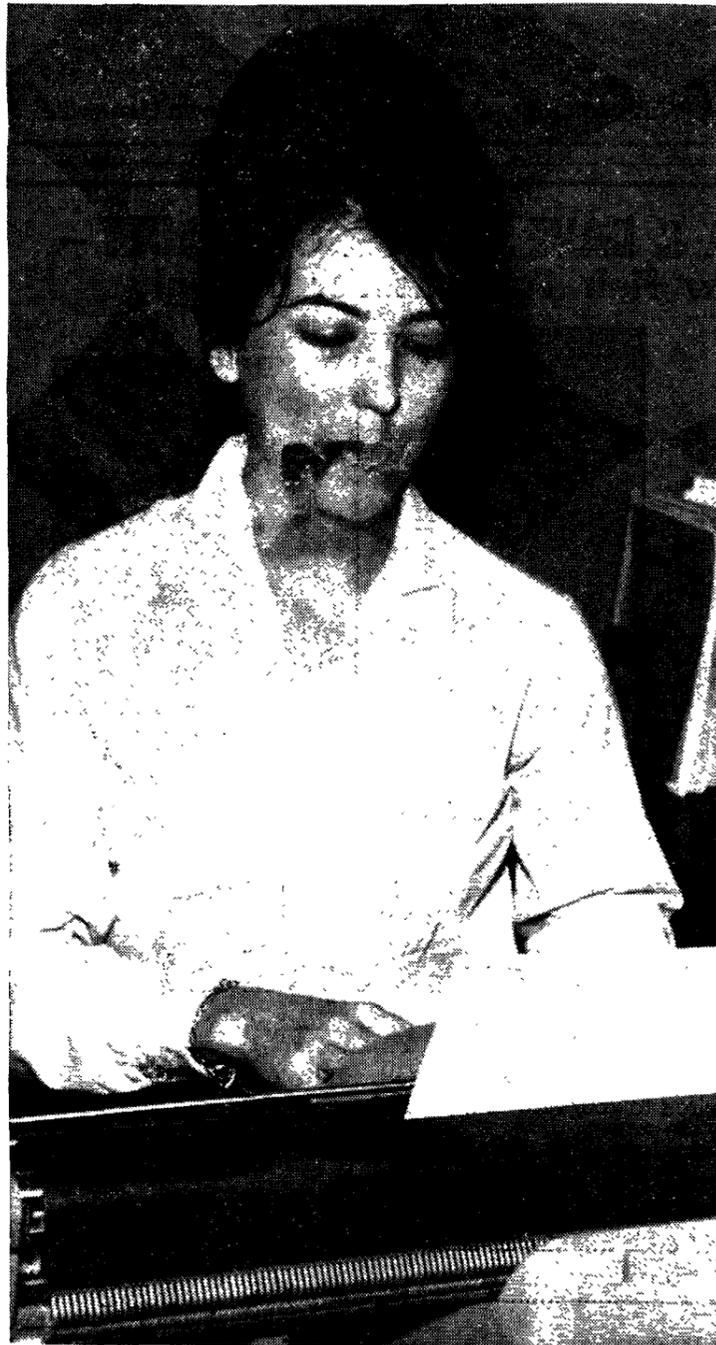
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PIPE-SMOKING SECRETARY—The rage to pipe smoking is by no means confined to male-type missile engineers and scientists at the Army Missile Command. Women-type secretaries have the urge too, as evidenced by the photos. Above, Secretary Margaret Hansen Ellett fires up the old boiler and (below) ignores the wise cracks—insisting it's all in fun. The secretary in the Support Research Branch of the Future Missile Systems Division, R&D Directorate, is a connoisseur of sorts. She smokes only imported tobacco in her jeweled smokestack as she contentedly clatters away at her typewriter keyboard. She insists it's just for fun—which, after all, is the reason we like pipes too, isn't it?



Births At Post Hospital

Lourdes Ann Guidry, 8 lbs., 1½ ozs., Feb. 2, daughter of Sp4 and Mrs. Rene F. Guidry.
 Cora Wigold, 8 lbs., 7 ozs., Feb. 2, daughter of SSgt. and Mrs. Jurgen Wigold.
 Lawrence Lamar Jolly, 8 lbs.,

11¼ ozs., Feb. 3, son of Pfc. and Mrs. Lawrence J. Jolly.

Elizabeth Ann Shaffer, 6 lbs., 3½ ozs., Feb. 64, daughter of Capt. and Mrs. Robert L. Shaffer.

Dominique Claude Lejeune, 7 lbs., 11½ ozs., Feb. 3, son of S/Map. and Mrs. Camille M. Lejeune.

Technical Writers, Artists Schedule Show And Seminar

The Huntsville Chapter of the Society of Technical Writers and Publishers Fourth Annual Seminar and Technical Art Show will be held Apr. 10 and 11 at the Huntsville Utilities Building.

Open to all artists and illustrators of technical information, entries for the Art Show may be submitted after Feb. 22 and must be received no later than Mar. 13. Categories are: diagrams and schematics; line pictorial; technical art continuous-tone (black and white and color); photo retouching; concepts (black and white and color); promotional art (brochures, posters, etc.); and cartoons, animation, etc.

Entries will be limited to individuals (no entries by companies) and an entry fee of \$1 per piece of art is required.

Nationally recognized judges will determine the winners. Awards will be made April 10 during the Technical Communications Seminar. The Seminar will include a dozen feature speakers, all of whom are recognized in some phase of technical communications or publications.

Further information on the Seminar and Art Show can be ob-

tained by writing to: STWP-Huntsville, Technical Art Show, Civic Arts Center, 311 West Clinton, Huntsville, Alabama.

100 PER CENT

The 291st Military Police Company has received a letter of commendation from Col. T. V. Cooke for achieving 100 per cent participation in the payroll deduction plan for U. S. Savings Bonds.

July 28, 1914—Outbreak of World War I in Europe occurred.

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- No. 1091 1961 CADILLAC 4-dr. Sedan DeVille, air cond., full power **\$2,695.00**
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- No. 17 1961 CADILLAC Sedan DeVille, full power, air conditioned **\$3,195.00**
- No. 60 1958 CADILLAC, '62' Coupe, radio, heater, full power, air conditioned **\$1,195.00**
- No. 88 1963 CADILLAC Sedan DeVille, air conditioned, full power **\$5,495.00**
- No. 7 1963 BUICK RIVIERA Coupe, radio, heater, full power, air cond., like new. **\$4,195.00**
- 1961 CORVETTE, Full injection,, 4-speed transmission, radio, heater, extra clean.

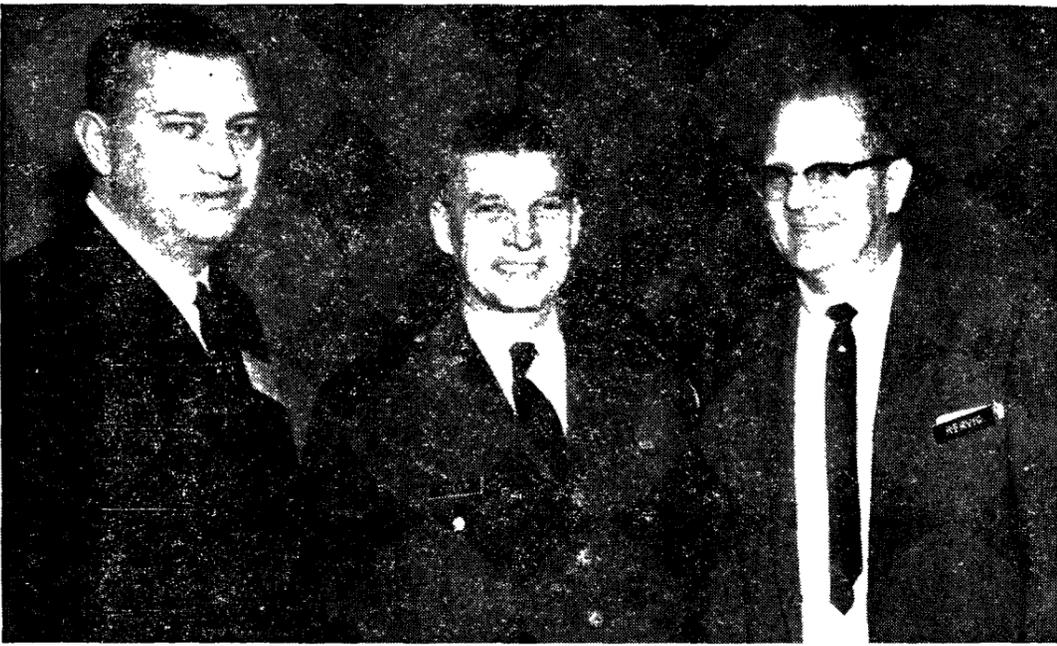
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TIME FOR A CHAT—Gen. C. W. Eifler, Deputy Commanding General of Land Combat Systems, pauses to chat with two officials during last week's symposium on measurements—techniques and applications—which was held at Rocket Auditorium. At left is Marvin Steinberg of Singer Metrics and at right is Don I. Hervig, Chief of the Army Missile Support Command Calibration Center.

Meteorologists To Hear Kaufman

The North Alabama Chapter of the American Meteorological Society will meet Feb. 14, at 7:00 p.m., in Room 218 of the University of Alabama, Huntsville Center.

John W. Kaufman of the Environmental Applications Group, Aero-Astrodynamic Laboratory will present an analysis showing "The Relations of the Spectra of Lower

Atmospheric Wind and Temperature to Synoptic Weather Conditions."

Results of a study are to be reviewed which show existing relationships between the spectra of winds and temperature to synoptic weather conditions. Requirements for such knowledge on the variability of micrometeorological parameters with respect to large-scale weather patterns will also be discussed.

Visitors are welcome.

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Thiokol Sets Safety Record

The Huntsville Plant of Thiokol Chemical Corporation's Alpha Division, Feb. 5, set an all-time high mark for the State of Alabama in consecutive number of man-hours worked without a disabling injury, and became the State's leader in industrial safety.

On that date the Huntsville Plant recorded its 3,276,500 consecutive accident-free man-hour worked, surpassing the State's previous all time high of 3,251,176 accident-free man-hours.

The Plant's accident-free record is continuing, and establishes daily a new industrial safety record for the State and the Plant.

A telegram received by the Plant from Jack Giles, Alabama State Director of Industrial Relations, extended congratulations to each employee and confirmed that the Plant currently stands in first place in Alabama for continuous hours worked without a disabling

injury.

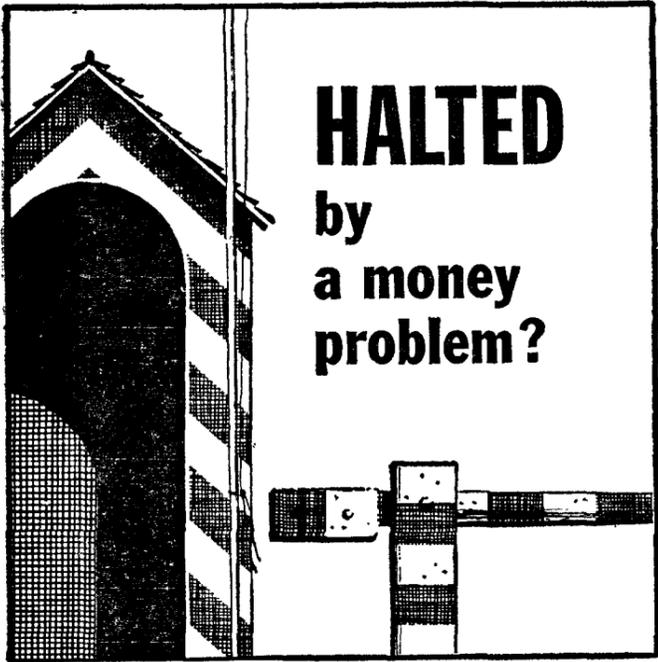
On Feb. 7, two days after establishing the new State safety record, Huntsville Plant Manager, J. B. Galloway announced the achievement of another milestone when the Plant recorded its 365th consecutive day worked without a disabling injury. This was the first injury-free year the Plant had recorded.

Thiokol's Huntsville Plant on Jan. 3 received the National Safety Council's highest award, the Award of Honor, in recognition of its achievement of 3,000,000 consecutive accident-free hours worked. It also received the State of Alabama's Certificate of Merit, and the Travelers Insurance Company Achievement Award for outstanding accomplishment.

The Plant has reached 1,000,000 consecutive accident-free man-hours eleven times and has gone over the 2,000,000 man-hour goal five times. This is the first time

the Plant has reached and exceeded the 3,000,000 man-hour mark.

February 8, 1918 — First number of "The Stars and Stripes," service newspaper of the AEF, issued in Paris.



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Cash You Get	MONTHLY PAYMENT PLANS		
	30 months	24 months	12 months
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700		34.30	64.92
1000	\$40.05	48.76	92.30
1500	59.80	72.80	137.80
2000	78.96	96.13	181.96

Payments above include principal and loan charges if repaid according to schedule, but do not include life and disability insurance, available at group rates.

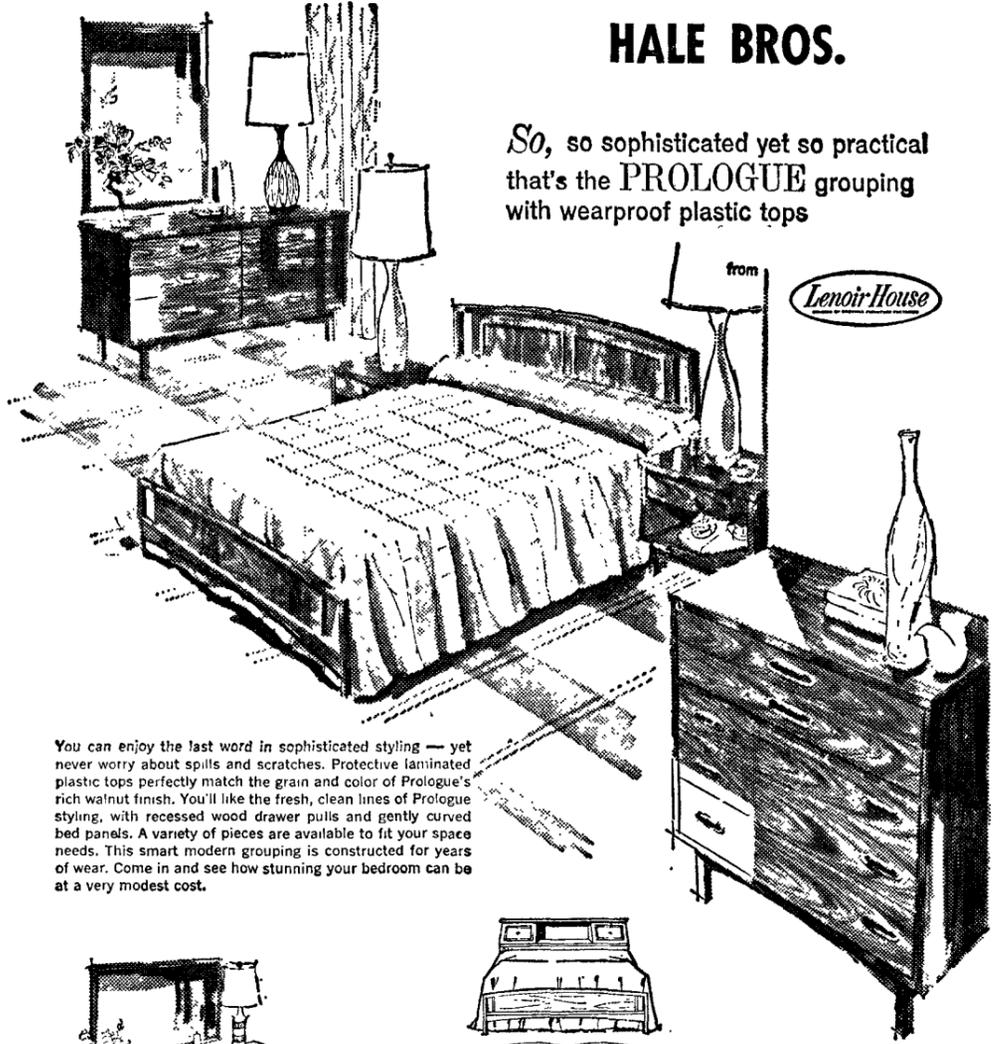
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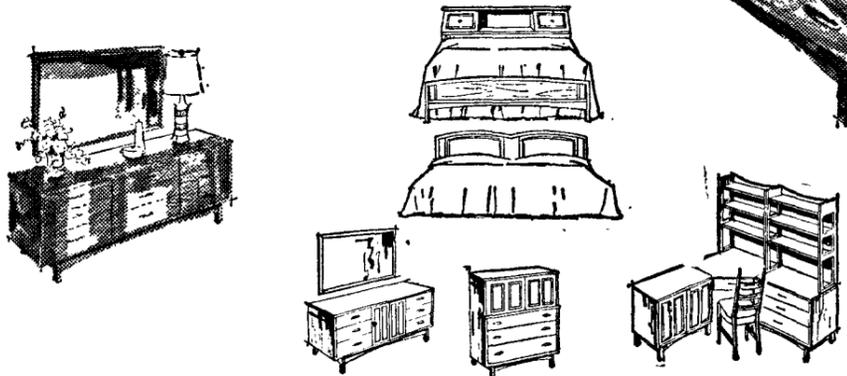
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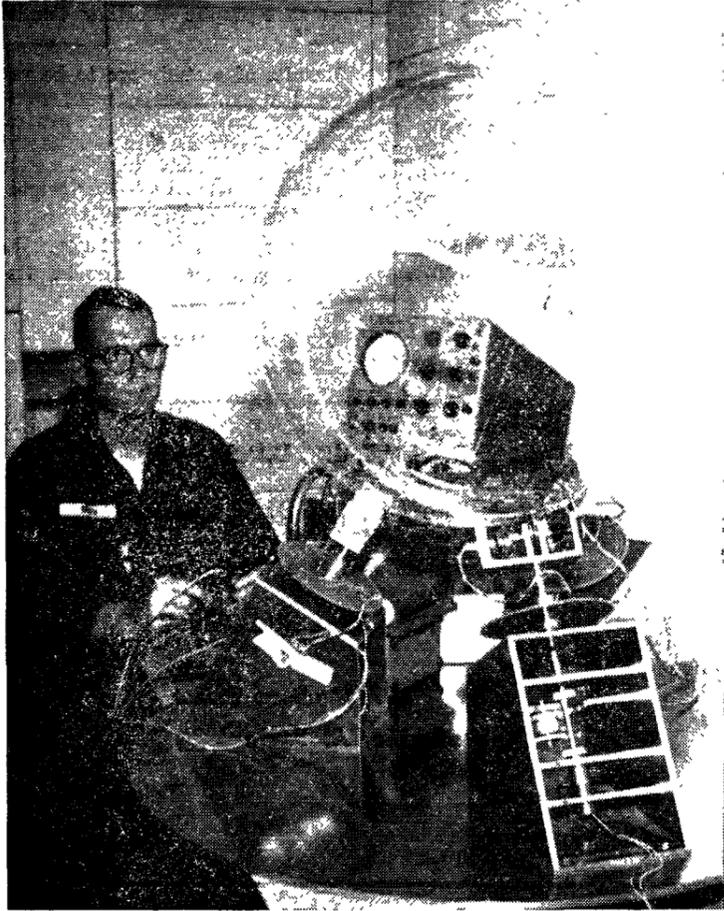
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ALL SYSTEMS GO — SP4 Collins Smith, an electrical engineer with the Army Inertial Guidance and Control Laboratory in the Army Missile Command's Directorate of Research and Development, checks the circuitry on an antenna flight simulator. Smith designed the equipment which enables missile scientists to perform antenna evaluations which required live firings in the early days of Army missiles.



REDSTONE OFFICIALS CITED—Three officials of the Army Missile Command have been recognized by the Atomic Energy Commission for their roles in Joint Task Force Eight. Holding their plaques, left to right, are Col. B. R. Luczak, Nike Hercules Project Manager; Dr. W. W. Carter, Chief Scientist; and Arthur Tarwater, of the Nike Hercules Project Office.

GERMAN SOCCER TEAM TOPS TECH

The German Air Force soccer team at the U.S. Army Ordnance Guided Missile School eked out a 2 to 1 victory over Georgia Tech here Sunday, for the first victory either team has been able to register in three contests between the evenly matched squads. Previous scores were 3-3 and 2-2 stalemates.

The rough, close game pitted the light and speedy Latin American students from Atlanta against a heavier German squad. Tech scored first midway in the second half on the nimble maneuvering of Rafael Herrera of Costa Rica

who wound up inside the goal along with the ball.

Cpl. Helmut Achilles evened the game ten minutes later with a solid boot from 30 feet out. S/Sgt. Ulrich Tiefert put the Germans

ahead only four minutes before the end of the game when he out-balanced the Tech goalie directly in front of the net.

Turkish S/Sgt. Ziyya Soyler refereed the game.

Sports By Colbert

LEAGUE STANDINGS

January 31, 1964

AMERICAN LEAGUE

Team	Won	Lost
Officers	12	1
Co. C STC	8	5
1st ETC	8	6
Hq. STC	7	6
Co. A STC	5	8
German Det.	0	14

Hq. Co. UTC—33
Allied—21

Co. C STC—50
German Det.—19

February 3, 1964

Co. A STC—47
1st ETC—29

184th Ord. Det.—16
Co. B STC—28

Hq. AMSC—39
291st M. P.—33

NATIONAL LEAGUE

Team	Won	Lost
291st M. P.	10	4
Hq. AMSC	9	4
Co. B STC	9	4
184th Ord.	6	7
Hq. UTC	3	10
Allied	2	12

VOLLEYBALL LEAGUE

Team	Won	Lost
French Det.	7	0
German Det. No. 1	5	1
Hq. AMSC	4	3
Israeli Det.	3	3
Co. C STC	3	4
German Det. No. 2	1	6

HIGH SCORERS

Name	FG	FT	FTA	TP
McMillian, 1st ETC	.88	23	47	199
McKinney, Co. C, STC	.86	26	38	198
Robson, Co. B, STC	.67	39	52	172
Stone, Officers	.76	16	32	168
Merkerson, Co. A, STC	.72	24	50	168
Price, 291st MP	.56	19	41	131
Hunt, Co. B, STC	.50	26	39	126
Logan, Co. C, STC	.56	12	13	124
Work, Hq. STC	.43	33	42	119
Schreiber, German Det.	.52	14	26	118

DENNIS THE MENACE Hank Ketcham



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FOUR-DOOR . . . loaded with everything including factory air. One-owner Tennessee car with only 19,000 actual miles. Original cost \$7,000—Our Price \$3490.

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SEDAN DEVILLE 4-Door with all Cadillac accessories including factory air, \$3290.

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LAUNDAU with all accessories including factory air. You can hardly tell this car from a new one. \$3090.

1962 THUNDERBIRD

BEAUTIFUL RED with matching interior. Has all equipment including factory air, \$2990.

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SEDAN DEVILLE . . . local car with all accessories available including factory air. Has blue and white finish, \$2690.

1959 CADILLAC

FOUR-DOOR with solid white finish and black and white interior. Completely equipped including factory air, \$2090.

1962 OLDSMOBILE

STARFIRE Hardtop 2-Door. Local low mileage car with all equipment including factory air conditioning. Has very low mileage, \$2790.

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MISSILE ORIENTATION—Forty officers from Fort McClellan get the "inside scoop" on missiles from Lt. Harold J. Hicks, technical liaison officer for the Nike Branch of the Ordnance Guided Missile School's Department of Individual Training. The annual tour is part of the Chemical Corps career Officers training program. Lt. Hicks points out the steps in operating a missile station at the scale-model demonstration device in Vincent Hall.

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Non-Fiction

Bingham, Madeliene, "Cheapest in the End."

De Toledano, Ralph, "The Greatest Plot in History."

Faulkner, William, "William Faulkner: Early Prose and Poetry."

Graubart, Ella, "Yesterday's Laws and Today's Accidents."

Laycock, George, "The Deer Hunter's Bible."

Millikin, H. F., "The Prudent Man; Tax Dodging As An Art."

Sargant, William Walters, "An Introduction to Physical Methods of Treatment in Psychiatry."

Smith, Margaret Ruth, "The Complete Book of Desserts."

Spackman, Spike, "Don't Fence Me In."

Weekes, Claire, "Hope and Help for Your Nerves."

White, Elwyn Brooks, "The Points of My Compass."

Fiction

Brown, Marion (Marsh), "The Silent Storm."

Corbett, Elizabeth Frances, "The Heart of the Village."

Fenwick, Elizabeth, "The Make-Believe Man."

Grass, Gunter, "Cat and Mouse."

Household, Geoffery, "Thing of Love."

Manning, Rosemary Joy, "The Chinese Garden."

Martin, Kay, "All the Gods and Goddesses."

Meyer, Lewis, "Second Wife."

Smith, Betty, "Joy in the Morning."

Wallant, Edward Lewis, "The Tenants of Moonbloom."

White, Lionel, "The Money Trap."

Of vital interest to Army personnel will be the article "A Second Retirement Income for the Serviceman" in the March ARMY INFORMATION DIGEST. It outlines Social Security eligibility requirements and benefits of potential value to the Soldier.

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Page 14 The Redstone Rocket — Feb. 12, 1964

1. For Rent

IDEAL FOR MEN OR ADULTS—Furnished 3-room apartment, ceramic bath, air-conditioned, double closets, best neighborhood, close in, \$100.00, parking. Phone 539-7027. 1tc

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FORD — 1963 "500" XL, 2 door hardtop, dark chestnut, 390 - 4 bbl motor, automatic transmission, power steering. Special stereo-radio, extra instrument panel, real clean and sharp, straight sale and good credit, assume notes or trade for foreign compact. Phone 536-3624. 1tc

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

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3. Miscellaneous

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FOR SALE—Equity in Lakewood brick home, 4 1/2% VA. Three bedrooms, living-dining combination, eat-in kitchen, garage, covered patio, fenced back yard. Payments \$85.00 per month. Phone 852-1903. 1tc

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Procurement & Production: David J. Ball, Eddie S. Boe, Helen M. Cravens, George G. Fowler, Alice F. Keller, Emil A. Luft, Jacqueline

Y. Mann, Barbara R. Peters, Charles H. Rush, Jr., Pat Shamblyn, Robert L. Sullivan, Donald E. White, and Ray D. Williams.

Research & Development: Sylvia N. Bearden, Joseph W. Doctorchik, Wilton B. Garretson, Jr., Wilber H. Gibson, Frank C. Grantham, Jr., Jimmy W. Hamby, James A. Harget, Jr., Niles N. Harvey, Rex M. Heck, Frank J. Miller, Kenneth W. Peterson, Allan Platt, Earl T. Reed, Janet B. Rice, Timothy W. Summers, Richard J. Thompson, Curtis L. Vest and Billy M. Waldrop.

Pershing Project Office: William R. Bendall, Sandra W. Duke and James D. Williams, Jr.

Sergeant Project Office: Arthur P. Mork and Beverly A. Pederson.

Mauler Project Office: Margie M. Brown and Ophelia C. Gaustad.

Missile Intelligence: Boyd E. Bump.

Personnel & Training: Quitman C. Byrd.

General Counsel: Juan B. Geralla.

Lance Project Office: William C. Hyatt.

Hercules Project Office: Nuggett F. Mayes.

ARMY MISSILE COMMAND

Research & Development: Maurice Q. Bahan, Norman L. Bell, Marjorie T. Cucksee, Charles E. David, Robert H. Evans, Ronald G. Eystone, Heidi H. Garner, Ruby H. Hawkins, Sam Hazelrig, Jr., Floyd H. Hennessee, Willard L. Hofst, Johnnie W. James, Jr., David H. Lacy, Billy B. Letson, Alma S. Marks, Albert L. Michetti, Thomas J. Snowden, and Alice R. Thorough.

Procurement & Production: Ralph E. Akin, Patty J. Ballard, John F. Bartuska, Barbara S. Coker, Etta B. Couch, John P. Daly, Wilfred J. Davis, Elizabeth R. Douglas, Ray Heathcock, Har-

old L. Novell, Helen J. Padgett, Brenda M. Rutherford, Maurice D. Sanford, James M. Shew, George T. Turnipseed, Harold E. Weldon and Bruce P. Wills.

Supply & Maintenance: Vincent T. Baer, David L. Balkin, Charles R. Campbell, Adolphus E. Crosby, David L. Forrester, Richard E. Harris, Clay D. Hix, Mina J. Jacobs, Lawrence E. McEnroe, Janette Y. Maxwell, George G. Myrick, Nell J. Rudd, Charles V. Starkey, Earl B. Stevens, Richard D. Stimler, Dawson E. White, John R. Williams and Walter H. Young.

Pershing Project Office: Alice H. Ballew, Robert C. Cook, Jo R. Holt, and William E. Keeling.

Sergeant Project Office: Paula J. Dean, Maybelle H. Hardenburgh and Meredith M. Sheffield.

Hercules Project Office: Rebecca W. Cox, Audrey C. DeGross, Mary S. Mann and Robert L. Russell.

Lance Project Office: Eleanor G. Adams.

Missile Intelligence: Delores S. Guess.

NIKE X PROJECT OFFICE

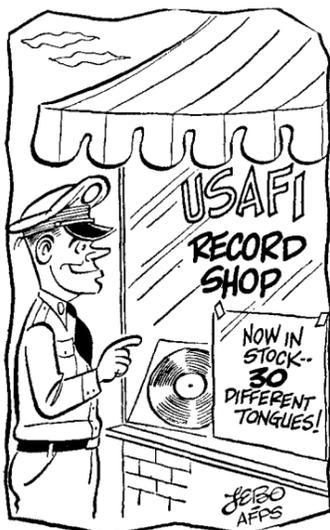
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Religious Services

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SUNDAY — 1000 & 1115 hrs. General Protestant Services. (Chapel Nursery open during both Services.)

CHURCH SCHOOL — 1000 hrs., ages 3 years to adults. Classes for children and young people, grades 1 through 12, meet in Chapel Annex, Bldg. 3151. All military and civilian personnel, and their families are welcome.

SUNDAY EVENING WORSHIP — 1830 hrs.

CATHOLIC

SUNDAY — Masses — 0730, 0845, 1230 & 1700 hrs. Post Chapel, Bldg. 3714. (Chapel Nursery open during Masses at Post Chapel only.)

TUESDAY — Catechism classes from 1830-1950 hrs, in Chapel Annex, Bldg. 3151.

THURSDAY — Lenten Devotions (Stations of the Cross) 1930 hrs. Confessions — 1945 hrs. Choir practice—2000 hrs.

DAILY MASS — 1205 hrs, Mon thru Sat, at Post Chapel.

BAPTISMS — By appointment only.

SATURDAY — Confessions — 1800-1930 hrs.

GREEK ORTHODOX SERVICE: Sunday 2-4 p.m., Social Room, Post Chapel, Greek and American Languages.

REDSTONE PARK CHAPEL—BLDG. 9600

SUNDAY — 0945 hrs. — Sunday School. 1100 hrs. — Morning Worship Service. 1800 hrs. — Youth Fellowship for all young people, age 9 or grade 4 and up. 1900 hrs. — Evening Worship Service. (Nursery is open for both Services.)

JEWISH SERVICES

Conservative Jewish services will be held weekly each Friday at 2000 hrs. and each Saturday at 1000 hrs. at 2333 Poincianna Street, SW, Huntsville, behind the Scottish Rite Temple which is located at 314 Bob Wallace Avenue, SW.

Reform Jewish Services are

held at Temple B'Nai Sholom 2000 hrs, Friday, at the corner of Lincoln & Clinton Streets, SE, Huntsville. Sunday School at 0930 hrs.

For further information concerning these Services, contact Rabbi Stein, 536-4771.



RETIRE—(Left) Willie C. Branch of Huntsville and Sam L. Summers of Grant, both janitors for the Medical Detachment, Army Missile Support Command, are retired on medical disabilities. Branch joined the Post Engineer in the Roads and Grounds Division in 1951 and has worked continuously at Redstone Arsenal since then. He was in an aviation engineer unit in the South Pacific during World War II. Summers spent 15 months in the Army. He was employed at Redstone Arsenal in late 1956.

SCHOOL ELECTION

Projects for the coming year and effects of the coming elections on the school system will be discussed Tuesday night by the Huntsville Citizens Committee for

Better Schools.

The meeting will be held at 7:30 p.m., Feb. 18, in the small auditorium of Huntsville High School. Anyone interested in Huntsville schools is invited to attend.

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