

Incentive Award Program Observes Tenth Birthday

The Commanding General of the Army Missile Command has called on all Redstone personnel to make the tenth anniversary year of the Federal Incentive Awards Act of 1954 a banner year.

In a Command letter to all personnel, military and civilian, Maj. Gen. John G. Zierdt cited the past performances of Arsenal personnel in the program by calling it a "productive decade."

He went on to outline his objectives for the coming year and urged every supervisor and employee to participate in the program to the maximum extent.

The intensified local stress on the Incentive Awards program is in line with the Civil Service Commission's salute to a "Decade of Progress through Incentive Awards."

Chairman John W. Macy, Jr., of the Civil Service Commission, had announced the presentation of a special national award to a number of Federal employees as a climax to the 10th anniversary observance of the act.

The awards will be presented during a special ceremony to be held in Washington, D. C., on Nov. 30. They will be made to those employees who make the most notable improvements in Federal operations through suggestions or special achievements during the year.

The award winners will be selected from among those nominated by their agencies for achievement in a range of categories such as cost reduction, increased productivity, methods improvement, man-hour savings, and advancement of agency mission.

Each agency is expected to make its nominations for the awards by Oct. 1 after which the Civil Service Commission will make its selection of the winners.

Reviewing the history of the program at Redstone, Gen. Zierdt cited the fact that 1,393 Outstanding Performance Awards had been made and 2,925 employees had been awarded Sustained Superior Performance Awards.

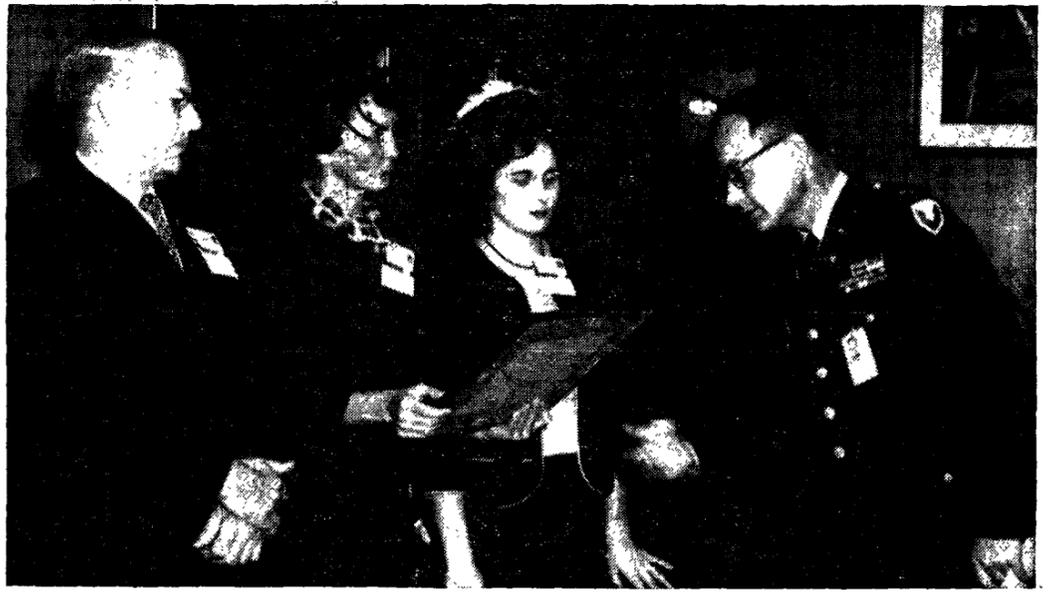
Continuing he stated that cash awards for suggestions had exceeded \$112,000 and the tangible

savings to the taxpayers was in excess of \$5.5 million.

In commenting on this enviable record, the Commanding General said, "Its merits are obvious and more than justify the emphasis which is planned for this calendar year."

He listed as the objectives for the year: to maintain a balanced use of the awards program, to assure an equal distribution of performance and honorary awards, to explore better and more economical means to accomplish our mission and to stimulate employees to submit suggestions which will improve operations.

He concluded his message by calling for Arsenal-wide cooperation to assist in the realization of these objectives. "One-hundred per cent effort will surely make this a Banner Year at Redstone," the General said.



WRECK VICTIM HONORED—Cpl. D. F. Shepherd, director of Research and Development for the Army Missile Command, presents a certificate of achievement to the parents of Bettye McCullough, who was killed in a traffic accident on Redstone Arsenal Feb. 26. The award was made posthumously to Miss McCullough for outstanding performance in the Directorate's Future Missile Systems Division. From left to right are Miss McCullough's parents, Mr. and Mrs. Gunter L. McCullough of Town Creek, and her sister, Mrs. Jane Terry of Decatur.

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Births At Post Hospital

David Christopher Snyder, 6 lbs., 7½ ozs., Mar. 2, son of Lt. Col. and Mrs. Robert W. Snyder.

Donna Lee Davis, 5 lbs., 4 ozs., Mar. 3, daughter of CWO and Mrs. Donald L. Davis.

Mark Stevens Hood, 9 lbs., ½ oz., Mar. 4, son of 2/Lt. and Mrs. Darl S. Hood.

Jacqueline Elaine Storino, 7 lbs., 12½ ozs., Mar. 4, daughter of Pfc and Mrs. Benny F. Storino.

Jo Ann Lee Fisher, 6 lbs., 6½ ozs., Mar. 6, daughter of Sp4 and Mrs. Gordon G. Fisher.

Beate Blei, 6 lbs., 2¾ ozs., Mar. 7, daughter of SSgt. and Mrs. Manfred Blei.

Elizabeth Nancy Nutter, 8 lbs., 6½ ozs., Mar. 7, daughter of 1/Lt. and Mrs. James I. Nutter.

William Todd Huskinson, 6 lbs., 6 ozs., Mar. 7, son of Capt. and Mrs. William M. Huskinson.

David Belton Helms, 8 lbs., 3½ ozs., Mar. 8, son of Pfc Ret'd and Mrs. Belton Helms.

Tawnya Mae Tharp, 7 lbs., 6½ ozs., Mar. 8, daughter of SSgt. and Mrs. Carl G. Tharp.

Carol Ann Johnson, 8 lbs., 4½ ozs., Mar. 9, daughter of Sp5 and Mrs. Jesse R. Johnson.

Joan Kaye Eggemeyer, 8 lbs., 4 ozs., Mar. 9, daughter of Sfc and Mrs. Gerhardt A. Eggemeyer.

Judith Ann Erlemeier, 8 lbs., 5½ ozs., Mar. 14, daughter of Capt. and Mrs. Lester A. Erlemeier.

Dena Christine Delaney, 8 lbs., 6½ ozs., Mar. 15, daughter of 2/Lt. and Mrs. James R. Delaney.

Richard Lee Rodgers, 4 lbs., 15½ ozs., Mar. 16, son of CWO and Mrs. Robert D. Rodgers.

Jackie Ray Cochran, 6 lbs., 6½ ozs., Mar. 16, son of Sgt. and Mrs. Allen A. Cochran.

Rena Ann Marsack, 7 lbs., 9½ ozs., Mar. 17, daughter of Sp5 and Mrs. Allen J. Marsack.

TOW Representatives Take A Look At Progress

The men who are developing the Army's new TOW (Tube-launched, Optically-tracked, Wire-guided) anti-tank missile system are meeting this week at the Army Missile Command to take a look at how the weapon is coming along.

One of the highlights of the

meeting was to be a demonstration of the TOW system at one of the Missile Command's test ranges.

Attending sessions yesterday and today at Missile Command headquarters are nearly 100 representatives of military agencies and the system's prime contractor.

Col. Cyril D. Sterner, Commodity Manager for the Anti-Tank Aircraft Weapons Commodity Office, greeted the visitors. E. A. Hayes, TOW project manager for Hughes Aircraft Company at Culver City, Calif., also was on hand. Hughes is prime contractor for the system.

In addition, officials attended from all military agencies interested in the development of the weapon which is intended for use by the infantry soldier.

The TOW missile is intended for use against heavy armored tanks. It may be carried by troops or mounted on light vehicles.

Col. Sterner's Commodity Office at the Missile Command directs the development of the new anti-tank weapon system.



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DRAKE SERVICES HELD YESTERDAY

Funeral services for Dr. Joseph F. Drake were held yesterday afternoon in Bibb Graves Hall on the campus of Alabama A&M College. Burial was in a Huntsville cemetery.

Doctor Drake was president of Alabama A&M from 1927 until his retirement in 1962. During his 35 years in Huntsville he took a leading role in civic and educational affairs.

At the time of his death he was a member of the local Army Advisory Committee.

Doctor Drake is survived by his widow, one son, one daughter and two grandchildren.

STUDENTS STUDY TO BE CITIZENS

Twenty-four students from seven foreign countries are presently enrolled in the Citizenship Class for the Foreign Born Persons now being taught at the Huntsville Center.

This class, offered annually for the past ten years, is one of the public services provided by the University of Alabama in cooperation with the Bureau of Immigration and Naturalization. During a ten weeks' period, these students are prepared for the citizenship examination which is required of all foreign born persons seeking to obtain United States citizenship.

Countries represented in this year's group include Canada, England, Iceland, Denmark, Germany, Iran and Taiwan.

Dr. Frances Roberts, professor of history at the Huntsville Center, teaches this class and provides information and materials to all prospective citizens who call upon the University for assistance.

Cost Reduction Seminar Held At Redstone Arsenal

Techniques of reducing product cost by a system of value engineering are being reviewed this week in a series of seminars and discussions at the U. S. Army Missile Command, according to Col. J. M. Loomis, Sergeant Project Manager.

Col. Loomis said the discussions, which began Monday and will continue through Friday, have been used successfully on the Sergeant missile system. Representatives from Sperry Utah Company, prime contractor for Sergeant, are conducting the discussions.

Value engineering is the application of functional analysis to the many parts of a complex product to reduce its complexity, improve its reliability, simplify its production and lower the overall cost of the delivered item.

Applied successfully by Sperry Utah Company to the Sergeant program since 1959, value engineering techniques have helped reduce system costs and product improvements are increasing as more engineers are trained in value assessing techniques, says G. S. Gray, Value Engineering Supervisor for Sperry Utah Company.

Gray and one of his value engineers, Charles Bytheway, were invited by Col. Loomis to conduct discussions so that the concepts of this program can be studied by as many people as possible and applied to other areas of the defense system.

This discussion series, Gray said, is part of the successful Army-industry team effort that has been applied to the entire development and production of the Sergeant missile system.

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Director Of Research And Development Retires

Col. Daniel F. Shepherd, director of the Army's biggest missile research and development organization, will retire from active military service on March 31. His replacement has not been announced.

During the past year as chief of the Army Missile Command's Directorate of Research and Development, he headed an organization of more than 1300 people working in seven laboratories.

A veteran of 30 years Army service Col. Shepherd is a pioneer in missile development. The Colonel played a role in the development of Explorer I, which was the Free World's first satellite.

He played an important role in the development and production of the Redstone which became this nation's first tactical ballistic missile. Modified versions of the missile launched Explorer I into orbit and put two American astronauts in space.

Col. Shepherd was also active in the final phase of a building program which will bring centralization of four laboratories in his directorate from widely scattered temporary-type buildings on 40,000 acre Redstone Arsenal to a modern \$4.2 million research and development facility containing nearly five acres of office and laboratory space. Many of the laboratories had been housed in World War II buildings.

A quiet officer whose face seldom relaxes from an intent, serious look, Col. Shepherd was commissioned as an ordnance officer on graduation from the Massachusetts Institute of Technology in 1934. During WWII he served in Washington, England, North Africa and continental Europe where he was concerned with ammunition development and later with its supply.

A sketch made on a piece of scrap paper by Col. Shepherd during the North Africa campaign of WWII led to the invention of a special armor piercing artillery shell needed to stop the German's huge Panther tanks. He scribbled out his idea for a high velocity aluminum shell with a core of tungsten carbide, the same tough material used for tool steel.

He was recalled to Washington to develop the projectile. In 1944 the Colonel returned to Europe and landed with Allied troops in Normandy where he saw his new shell put to use in stopping Germany's crack Panzer Divisions.

At the end of the War he went to the Atomic Energy Commission center at Sandia Base, N. M. and later back to Washington to work in the development of atomic weapons and guided missiles.

He moved to Redstone Arsenal in 1956 and took part in the organization of the Army Ballistic Missile Agency.

During his year as chief of Missile Command research and development—a job he describes as "the most interesting in the command"—Col. Shepherd introduced a number of new features.

One was a review and analysis group that keeps a finger on all programs being carried on in the organization, the state of progress made by each program and the amount of money required. With a large organization working in many diverse fields ranging from ground support equipment to lasers, Col. Shepherd explained, this sort of control is necessary to keep the many lines of research from beginning to tangle up like "a bowl of spaghetti."

Under his guidance the Directorate also concentrated heavily on new missile concepts and hardware to prove out new ideas.

Concerned with the organization and management of Army research and development, Col. Shepherd also instituted some measures to make his Directorate's vast R&D capabilities more available to each missile system. Also, in 1963 the Directorate's Inertial Guidance and Control Laboratory was named as a national center



COL. D. F. SHEPHERD

for the development of inertial guidance systems for aircraft and land vehicles as well as missiles.



LOOKING AT MAULER—Col. B. R. Luczak (left), Mauler Project Manager, briefs this trio of British officers on the Mauler system during their recent orientation tour of the Mauler and Lance Project Offices. With Col. Luczak from left are Maj. Gen. Leonard Atkinson of the War Office in London who is Director of Britain's Electrical and Mechanical Corps; Brig. Leonard Jubb who is replacing Brig. Joseph Fitzpatrick (right) as Director Munitions, Defense Research Staff of the British Embassy in Washington.

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Solomonson's Inspirations Akin To Pipe Dreams

Henry Solomonson welcomed the Surgeon General's report on smoking like teetotalers welcomed prohibition.

Seated at his desk at the Army's missile center, he can put his hand on no less than 35 pipes, including briars, meerschaums, clays, cobs and a calabash.

Pipe smoking has long been the mark of the sober, reflective man. White haired, taciturn Solomonson fits the description. He has a sober and reflective job.

He is the nuclear coordinator for the Army's new Nike-X ICBM defense system. In his job he works closely with Atomic Energy Commission laboratories in developing and testing nuclear devices for the system.

Given a particularly knotty problem he is inclined to stoke up what he calls his "conference pipe." With a bowl as thick as the butt end of a pool cue, it holds a good part of a pouch of tobacco and "is guaranteed to give a full hour's smoke."

In moments of deeper reflection Solomonson may dust off a huge yellow calabash, a kind of pipe made famous by Sherlock Holmes. Named for the crooked neck gourd from which it is made, the pipe's meerschaum lined fire pot resembles the bell of an upturned trumpet. Here again, people inclined toward quick smoke breaks are advised to stick to cigarettes or pipes of less heroic dimensions.

Solomonson, who at one time or another smokes every pipe he owns, has broken in more than 200 new ones in the past 35 years. An advocate, like most serious pipe smokers, of giving his briars a rest, he can smoke a different one every day for more than a month.

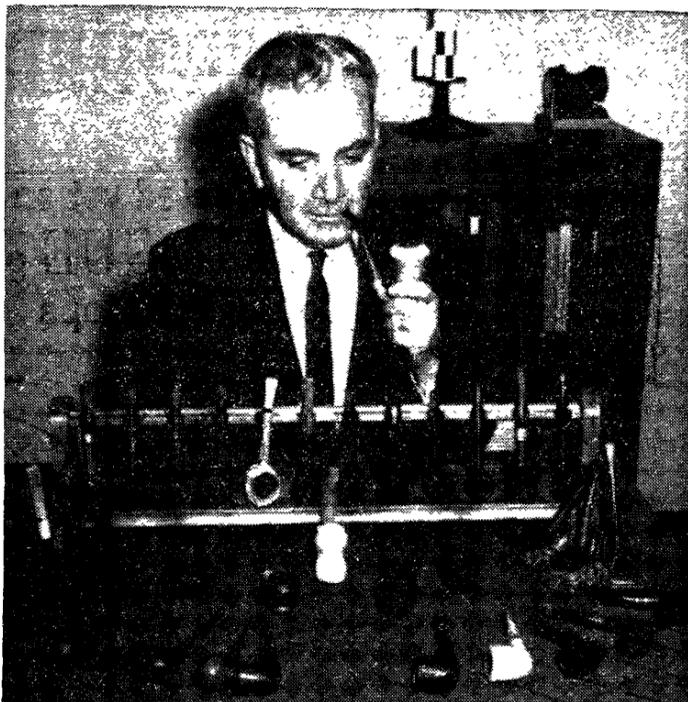
And, in between pipes, he occasionally puffs a cigar. These he fits in holders such as a hand carved meerschaum one from Turkey. If the cigar is a pantella, he uses a long, slender one carved from a fossilized walrus tusk. This particular holder he obtained through a Seattle sea captain who bought it from an Eskimo tusk whittler.

While Solomonson has everything from crooked stems to churchwardens, his favorites are two mellow briars given to him by his wife more than 20 years ago and a hand carved meerschaum in the shape of a Turk's head complete with intricately folded turban. One briar was made in England, the other in Greece.

Though he doesn't go in for elaborate tools and chrome plated accessories, Solomonson does blend his own tobacco sometimes. His favorite formula calls for portions of Latakia (a Turkish tobacco), Perique (a strong Louisiana leaf that resembles bayou mud in color), golden burley from the South, and Cavendish (a leaf that has been softened and sweetened and pressed in cakes).

Meerschaum (literally solidified sea foam) is a quality pipe material, he explains, because it is light, gives a cool smoke, and after "about three years" takes on a warm, brown color.

As for people who have trouble keeping a pipe lit ("match companies should give away free pipes") the champion pipe smoker says they don't know how to tamp a pipe or judge the right moisture in their tobacco. While most tobacco has the right moisture when it comes off the shelf, tamping is something else. It takes experience "like eating with chopsticks."



BRIAR PATCH—Some people collect pipes like they collect coins; to display but never use. However, Henry Solomonson of the Nike-X Project Office at Redstone Arsenal uses his collection of pipes for what they were intended—even the calabash he's puffing on here and the hand-carved meerschaum "Turk's head" in the center. These pipes—there are 33 of them—are from the collection he keeps in his office desk where Solomonson wrangles with knotty problems as the ICBM defense missile system's nuclear coordinator.

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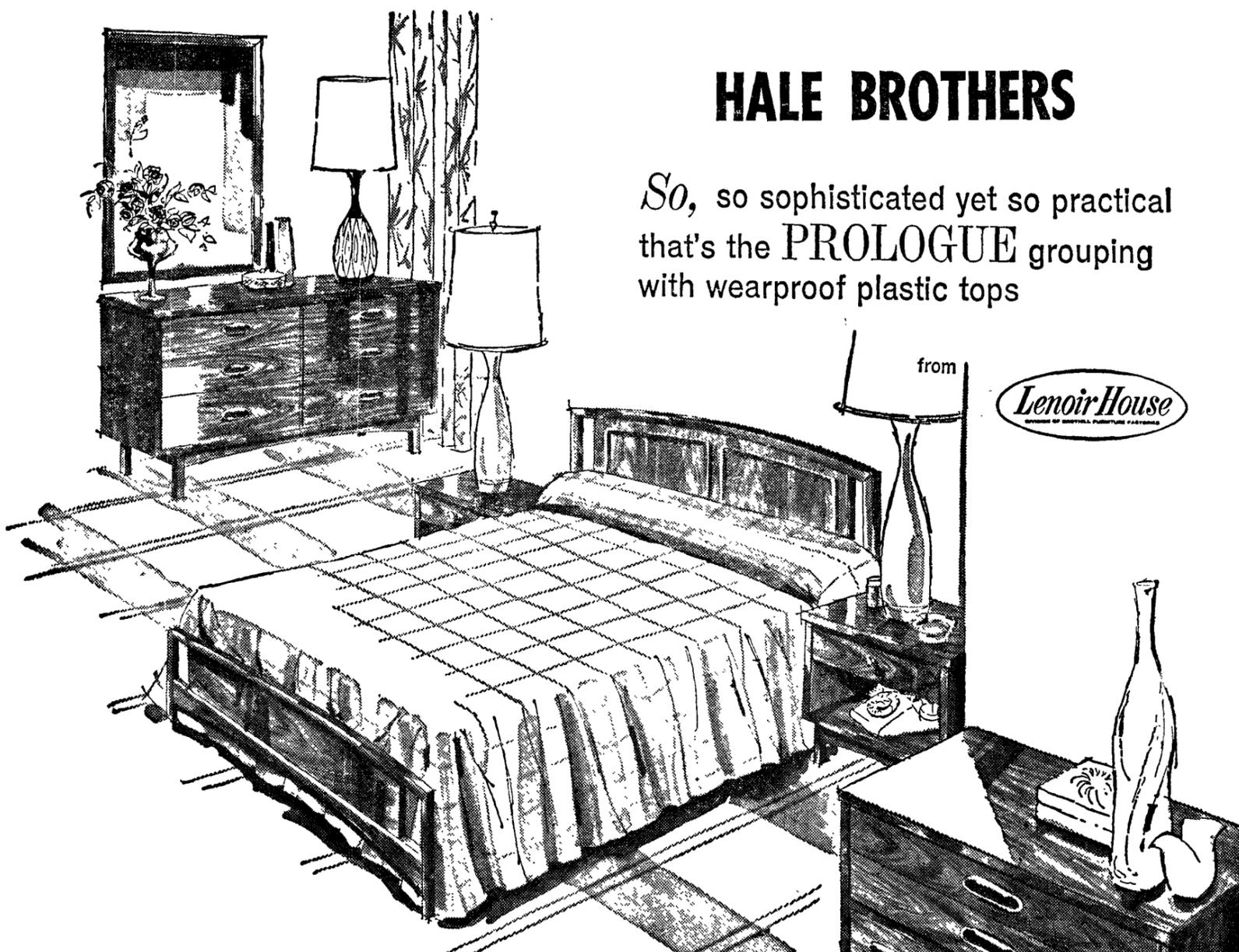
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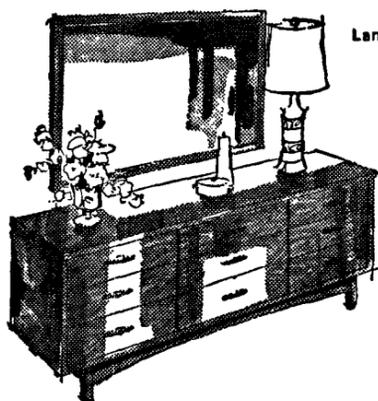
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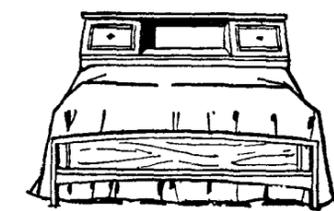
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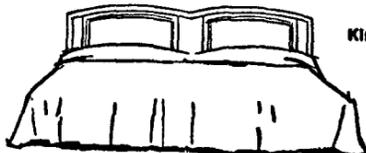


Triple Dresser

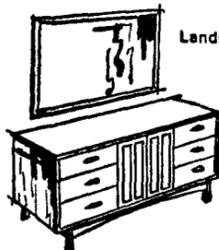
Landscape Mirror



Bookcase Bed



King-size Bed

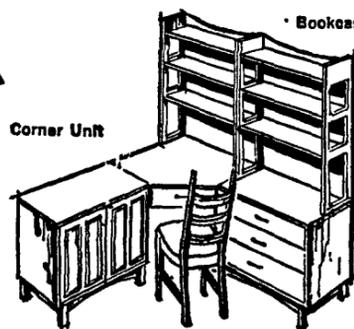


Door Triple Dresser

Landscape Mirror



Door Chest



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Door Storage Chest

Desk Chair

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Bible Telecourse Tour Scheduled On March 29

The Huntsville Bible Telecourse Tour will be held Easter Sunday, from 2-4 p.m. at the Huntsville Civic Arts Center, 311 Clinton Ave., West.

The Bible Telecourse is a public service presentation each Saturday from 12:30 to 1:30 by WHNT-TV, Channel 19. Dr. Edward W. Bauman of the American University and Wesley Theological Seminary in Washington, D. C. is the instructor.

Once each semester, telecourse students have the opportunity to meet each other during a field trip to explore community resources in the field of the related arts which have been inspired by holy scripture. This tour at the Civic Arts Center will include an art exhibit, a reception and social hour. Class membership cards will admit students without charge to the auditorium to hear an illustrated lecture by Harvie P. Jones, A.I.A., on "The History of Church Architecture" as reflected in the churches and cathedrals of Europe. Mr. Jones is a Huntsville architect who has designed local schools, churches, and public buildings. Among them are the Community Center, Huntsville Clinic, City Municipal Building, University Center, Holy Cross Chapel at Alabama A&M College, Monte Sano Methodist Church,

First Christian Church, Covenant Presbyterian Church, and the Highlands, University Place, and West Huntsville Elementary Schools as well as the addition to Blossomwood Elementary School. He is also president of "The Art League of Huntsville." He spent almost a year in Europe, studying and photographing the churches about which he will speak.

A special feature at the reception will be the first exhibit of religious art works of local artists. One item is a needlepoint done in silk and wool of Raphael's "Madonna." This exhibit is being assembled by the general chairman of the telecourse tour, Mrs. J. Patrick Smith. She will be assisted by members of the United Church Women.

Attendance at the telecourse tour is required for credit students. Guests are welcome, but a fee will be charged those who are not registered.

Reservations may be made by writing a post card to: Huntsville Bible Telecourse, 2104 Lufkin Drive NW, or by calling the information to 536-8800.

The Bible Telecourse is sponsored in Huntsville by the Huntsville Ministers Association and Athens College. It is a production of Educational Communication Association, Inc., of Washington, D. C.



SCOUTS REGISTER—Two Explorer Scouts who came to the Arsenal last week to take part in the 1964 Explorer Delegate Conference, are shown during their registration. The two Scouts, both from Huntsville, are at the left. Paul Ragan, far right, was chairman for the conference, and Robert Haskins, second from right, was the professional advisor. Almost 200 Scouts, representing 51 Explorer units in the nine-county area of the Tennessee Valley Council, took part in the three-day conference. The delegates developed their conference theme, "Seek The Truth In All Things," through participation in discussion groups that were designed to help improve teen-age relationships and activities in school, religious and Scouting programs.

Incentive Awards

Suggestions netted cash for a number of employees in the Army Missile Command: Mary C. Keel, \$235; William H. Lawson, \$25; Alice Forehand, \$40; Joseph J. Kalasz, \$20; Glenn Halcomb, \$50; M. J. Augenstein, \$150; Catherine D. Christian, \$30; Frank H. Marsden and Mildred K. Ford, \$35.

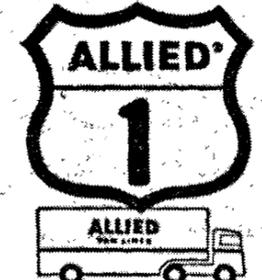


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1960	THUNDERBIRD	A-236-A	\$1875
1956	FORD Station Wagon	A-303-A	\$ 250
1959	FORD Station Wagon	A-127-A	\$1000
1960	COMET Station Wagon	R-48-A	\$ 875
1960	COMET Station Wagon	A-300-A	\$ 875
1956	OLDSMOBILE 4-door	A-106-A	\$ 375
1959	OLDSMOBILE 2-door	A-166-A	\$1075
1956	OLDSMOBILE 2-door	A-2-62-B	\$ 175
1958	PLYMOUTH 2-door	A-82-B	\$ 675
1959	PLYMOUTH 2-door	A-307-A	\$ 775
1960	PLYMOUTH Wagon	A-177-A	\$ 875
1956	PONTIAC 2-door Hardtop	A-176-B	\$ 350
1952	RAMBLER 2-door	A-85-B	\$ 175
1962	AMERICAN 2-door	R-53	\$1275
1958	RAMBLER Wagon	A-140-B	\$ 775
1958	RAMBLER Wagon	A-221-B	\$ 775
1959	RAMBLER 4-door	A-38-B	\$ 775
1962	RAMBLER Wagon	R-47	\$1575
1962	RAMBLER 2-door	A-283-B	\$1475
1959	RAMBLER Wagon	U-55	\$ 975
1960	RAMBLER Wagon	U-56	\$1075
1960	RAMBLER 4-door	A-311-A	\$ 975
1961	RAMBLER 4-door	R-46-B	\$1375
1959	RAMBLER 4-door	A-3-A	\$ 775
1959	RAMBLER 4-door	A-184-A	\$ 775
1963	RAMBLER 2-door	U-57	\$1775
1959	RAMBLER Wagon	A-203-B	\$ 975
1958	RAMBLER 4-door	A-212-B	\$ 675
1963	AMERICAN 2-door	A-125-A	\$1575
1960	LARK 4-door	A-181-A	\$1675
1962	VOLKSWAGEN	A-287-A	\$1475

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Gray Lady Classes Scheduled

Gray Lady classes are scheduled Apr. 6-7 at the Redstone Arsenal Post Chapel to train new volunteers to staff the U. S. Army Hospital, the Dental and Out-patient Clinics and the Bloodmobile.

Classes will be conducted by trained members of the Hospital staff and Red Cross volunteers. Details can be obtained by calling Mrs. G. L. Bass, 877-5263 or Mrs. L. O. Cox, 877-5766.

Mrs. Bass pointed out that the volunteer staff is always in need of relief volunteers during the vacation months.

Honor Graduates Represent Three Nations At OGMS

Students from three nations were named honor graduates in ceremonies at the Post theater Friday.

Twenty-four students represented five nations completing courses at the Ordnance Guided Missile School.

The honor graduates were Capt. Hiroshi Shiragaki of Japan in the Hawk maintenance supervision class; 1st Lt. Peter H. Stadler of Frederick, Md., in the ordnance missile systems maintenance officer course; and Cpl. Kjell Granseth of Norway in the Nike launcher control repair course.

Eleven U. S. officers and enlisted men, six men from The Netherlands, four Japanese officers, two Italian enlisted men and one Norwegian enlisted man heard Lt. Col. William W. Paris, chief



JACK AND THE BEANSTALK—Fantasy Playhouse will present Jack and the Beanstalk at Lee High School Apr. 4-5. Saturday a matinee is scheduled at 2:30 p.m. and an evening performance at 7 p.m. Sunday the Fantasy players will present a matinee at 2:30 p.m. The three young performers above are (left to right): Hub Harrington as Frikol the Magic Maker; Rick Hutson as Nicholas; and Gordon Medenica as Jack.

At The Service Club

By: Brenda Hanson

Easter . . . the very word brings to mind lilies, quiet sunny mornings and sunrise services, children in bright clothes, and colored eggs scattered over the countryside by thoughtful bunnies. Easter season, take a moment out every now and then and drop by the Club. Easter Week offers a variety of programs well suited for a quiet Easter morning, a sunny afternoon, or an entertaining evening.

Wednesday evening, entertain-

ment with a capital E is sure to be an end product when a Chess Contest holds the spotlight. Prizes will be given to the winner.

How are you at bridge? Care to prove your adroitness? Or maybe kibitz? Thursday evening make the Service Club your headquarters at 7 p.m. The Bridge Club will play all evening.

Friday, small games including chess, monopoly, cue, parchessi, checkers, card games and many, many others are available.

Saturday, Coffee Call is at 2:30 p.m. The main event is a pool contest. Seems as though the competition for pool is rather keen on this post. Some good pool shark will take away a prize.

Sunday is actually a full day at the Service Club starting with Coffee Call at 9:30 a.m. A hot cup of coffee and a fluffed donut is a refreshing starter for the day. Sunday night, we will have a Fudge Party at 8 p.m. If you care for fudge, come down and join the party. You just might be the one to lick the spoon.

Then, Monday, the 30th is game night. The prizes should meet the approval of all the male participants.

Miscellaneous

The Dance Sunday night was a great success. The danceable music was furnished by the newly organized 55th Army Dance Band. This was their first appearance, and they really gave forth with the best of music. Because we have many requests for a repeat performance, we plan to have them back in April. Watch the schedule, and be sure not to miss hearing the band next time.

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Easter Sunrise To Be Observed Atop Monte Sano

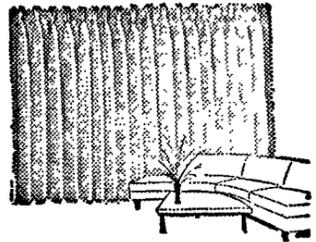
Two Monte Sano Churches will observe sunrise services Easter Morning from the crest of the mountain.

The Monte Sano Methodist

Church and the Monte Sano Baptist Chapel will hold combined services in the State Park Amphitheater. The services will start at 5:45 a.m. Rev. Keith Weakley, pastor of the Baptist Chapel, will be the speaker.

Persons attending the services may park in the State Park picnic area. Guides will show the worshippers the path to the amphitheater.

If it rains the services will be held in the picnic area shelter.



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SOCIAL ^{and} CLUB EVENTS

Bar Association To Hear Judge At Lunch Meeting

Judge James J. Bloodworth of Decatur will talk to the Explorer Chapter of the Federal Bar Association at a luncheon in the Redstone Room of the Squirrel Hill Officers Club today.

Judge Bloodworth is a well-known jurist in Alabama, noted among members of the legal professions for his tact and commentaries on the cases tried before him. He will talk on "A Funny Thing Happened in Court."

The members of the Association will also discuss plans for Law Day at the meeting. An invitation has been sent to Army Secretary Stephen Ailes to be the principal speaker on Law Day.

Federal bar members and guests are being urged by the planning committee to participate in the scheduled events. Details may be obtained by calling 876-1584, Miss Hill.

LT. MULLENBERG, MRS. MATTHEWS WIN AT BRIDGE

Lt. Dean Mullenberg and Mrs. A. J. Matthews were the winners at last week's session of the Monday Party Bridge Group at the Squirrel Hill Officers Club.

Lt. Mullenberg captured first place honors for men with Jack Elliott placing second. Mrs. Matthews was the winner among the women with Mrs. Robert Van Roo

Kessler-Dravecky Engagement Told

Col. and Mrs. Robert Henry Kessler announce the engagement of their daughter, Eve Burke, to Edward Stephen Dravecky, Jr., son of Mr. and Mrs. Edward Stephen Dravecky of Scotch Plains, N. J.

Miss Kessler is a graduate from Butler High School. She studied at William and Mary College in Virginia and is to be graduated from Athens College in May. She is editor of the student newspaper and a member of the honorary English fraternity, Sigma Tau Delta. Miss Kessler is listed in "Who's Who Among American Universities and Colleges."

Mr. Dravecky, a teacher in the Huntsville school system, attended Newark State College in New Jersey and was graduated from Athens College.

The wedding is scheduled at the Redstone Arsenal Post Chapel on June 13.

Claudia To Be Presented At Post Service Club

"Claudia," a comedy about a naive bride and her long-suffering husband, will be presented at the Post Service Club Apr. 9 at 8:15 p.m. by the Alabama College

taking second.

Reservations to play with the Monday Night Group may be made by calling Mrs. Peter Iber at 877-5235. She requested that reservations or cancellations be made by Sunday evening.



GEN. PERSONS DOES THE HONORS—Brig. Gen. Howard P. Persons, Deputy Commanding General for Air Defense Systems, kicks off a management level reliability training class held at the Army Missile Command's Training and Development Center. Subject of the three-day course was Product Reliability—Target for Top Management. Among those attending are (at left) Kenneth Carroll and Joe Mitchell, both of the Missile Command's Research and Development Directorate.

Folk Singers To Join Third Army Show

A postwide contest for folk singers will be held at the Service Club April 24.

All Army personnel with more

than ninety days to go on their tour of duty are eligible to enter as individuals or as groups.

All members of a group need not sing, but at least two performers in this category must sing according to the rules. Both individuals and groups may have musical accompaniment or sing without instrumental accompaniment. Individuals are allowed four to six minutes . . . groups from six to eight minutes.

Winners at Redstone Arsenal will be eligible to compete in the Third Army contest at Ft. Gordon, Ga., May 9. The winners there will join the Third Army Touring Soldier show.

Miss Molly Patterson, Service Club Director, has details about the rules of the contest.

Quality Control Society To Meet

The American Society for Quality Control, Huntsville Section, will meet tomorrow night at the Squirrel Hill Officers Club at 6:30 p.m.

Morris K. Dyer, special assistant quality engineering, quality and reliability assurance laboratory will talk on "A Look at NASA'S Quality program."

The meeting is open to anyone interested in Quality Control. Reservations deadline is 2 p.m. today.

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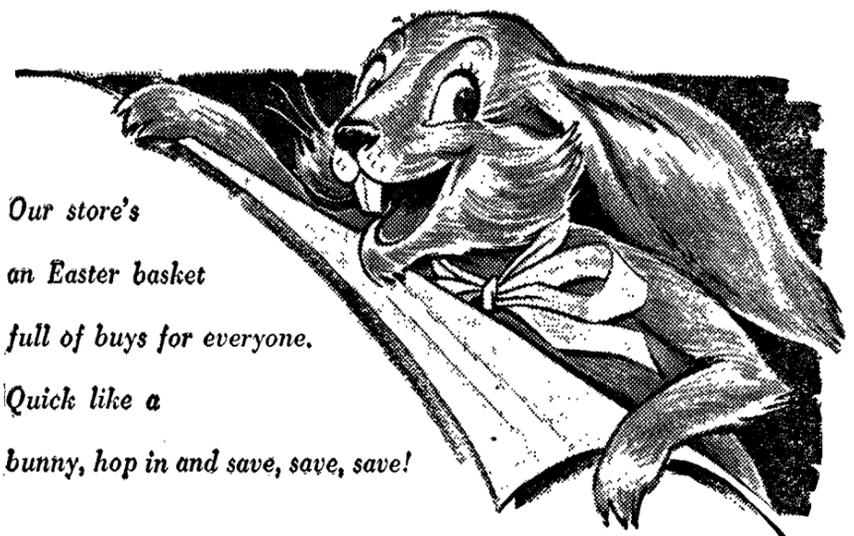
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- Free Downtown Parking

Medical Science Aided By Joint Fund

With each passing year, the fight for better health intensifies and there are new gains in medical science's efforts to conquer disease and disability.

As a result of this progress, much of which can be attributed to the voluntary contributions of Americans the nation-over, we and our children can count on living longer and fuller lives.

The campaign in support of the National Health Agencies constitutes one half of the Joint Fund drive now underway at the Arsenal. The other part of the Federally approved fund raising campaign is for support to the Joint Crusade.

Contributions of Redstone personnel go to support the continued progress in the research, information and service programs of six individual health agencies. Each of the agencies is entirely dependent upon the generous donations of the citizens of the country.

In his message to all Americans, President Johnson said: "The National Health Agencies exemplify many fine traditions—help to the afflicted, the continuing search for new knowledge, and the voluntary banding together of citizens with similar interests and aspirations.

"In their appeal to Federal personnel, the voluntary health agencies urge each of us to decide democratically which organizations to support. I strongly endorse their objectives and activities, and urge a generous response."

Here at Redstone Maj. Gen. John G. Zierdt urged all personnel to give thoughtful consideration to the great work that is being accomplished by these organizations to make their contribution accordingly. The Commanding General of the Army Missile Command added that the goal for the drive is "one-hundred per cent participation."

The six agencies participating in the campaign are, the National Multiple Sclerosis Society, United Cerebral Palsy Association, American Cancer Society, American Heart Association, Arthritis and Rheumatism Foundation and Muscular Dystrophy Associations of America.

Personnel making contributions to the National Health Agencies may designate all of their donation to go to one of the agencies, or they may split the contribution. All contributions are made through sealed envelopes.

The envelopes will be accumulated at the Arsenal and forward-



FIRST CONTRIBUTION to the National Health Agencies campaign is made by Robert S. McNamara, Secretary of Defense and National Campaign Chairman for the health appeal. An employee in the Defense Secretary's office accepts the gift. Mr. McNamara urges "all the government service to rally to this appeal for financial aid in support of the research, service and educational programs of the agencies involved in the drive."

ed, unopened, to the state coordinating committee for the National organization. The state office will report back to the Arsenal on the contributions at the close of the drive.

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45% worsted wool!

maker-to-wearer
priced at only

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other Suits from 29.95

For our early (March 29th) Easter, you'll be wise to pick out your Suntamer suit now, while there's an eye-popping selection! This is Schwobilt's famous feather-weight that keeps you wrinkle-free, cool and comfortable all thru summer... and this year's weaves and colors are terrific! New lighter tones as well as mediums and darks... and plenty of the handsome new iridescents. Alterations free, of course.

also a complete selection of sport coats, slacks, dress shirts, sport shirts, and a fine array of furnishings and accessories.

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NIGHTS
TILL
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Just say
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Nothing down &
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Movie Schedule

WEDNESDAY, March 25
"The Caretakers" (M-YP)
THURSDAY-FRIDAY, March 26-27
"Kings of the Sun" (F)
SATURDAY, March 28
"The Secret Door" (F)
SUNDAY-MONDAY, March 29-30
"The Seven Faces of Dr. Lao" (F)
TUESDAY, March 31
"The Crawling Hand" (M-YP)
Two shows nightly at 6 and 8:30 p.m., Saturday matinee at 1 p.m., and Sunday matinee at 2 p.m.

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ELVIS PRESLEY
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in two roles for the first time!
KISSIN' COUSINS
in Panavision and METROCOLOR

Bowling Results

Junior and Senior League Standings

Team	Won	Lost
Alley Dusters	62	30
Fearsome Five	59	33
Pin Devils	49	43
Strike "N" Spare	48½	43½
Screwheads	46½	45½
Team No. 1	43	49
The Jinx	32	60
Strike Outs	28	64

Bantam (8-12 Years)

Team	Won	Lost
Team No. 2	39½	18½
Team No. 3	35½	21½
Team No. 5	34	23
Team No. 1	33	24
Team No. 4	30	27
Team No. 8	22	35
Team No. 7	19	38
Team No. 6	16	41

Officers Mixed

Team	Won	Lost
D. Yanks	142	74
Bombers	126	90
Pin Droppers	115½	100½
Bowl Weevils	109½	106½
Redstones	100½	115½
D. Doms	92	124
Baby Splits	90	126
Hi Counts	88½	127½

Enlisted Men Mixed

Team	Won	Lost
Draggins	66	38
Hotshots	63½	40½
Keelers	63	41
Dolittles	52	52
Brokenettes	47½	56½
Washouts	43½	60½
Unpredictables	42½	61½
Breaking Points	38	66

RSA Officers Wives

Team	Won	Lost
Merry Mrs.	54	42
Missers	52	44
Who Cares	51	45
Comets	49	47
Gamblers	48	48
Crazy Eights	44	52
Misfits	44	52
King Pins	42	54

OGMS Officers

Team	Won	Lost
Rounders	61½	30½
Admin	50	42
Bohunks	49	43
Zeros	46½	45½
Bowl Weevils	41	51
Missile Comp. Division	28	64

Thursday Morning Ladies

Team	Won	Lost
The U. N.	50	38
Roaring Trio	49½	38½
Splits	49½	38½
Tryettes	45½	42½
Old Timers	44	44
Gutter Dusters	38½	49½
Youngsters	31	57
Terrific Trio	44	44

American-British-Canadian Officers

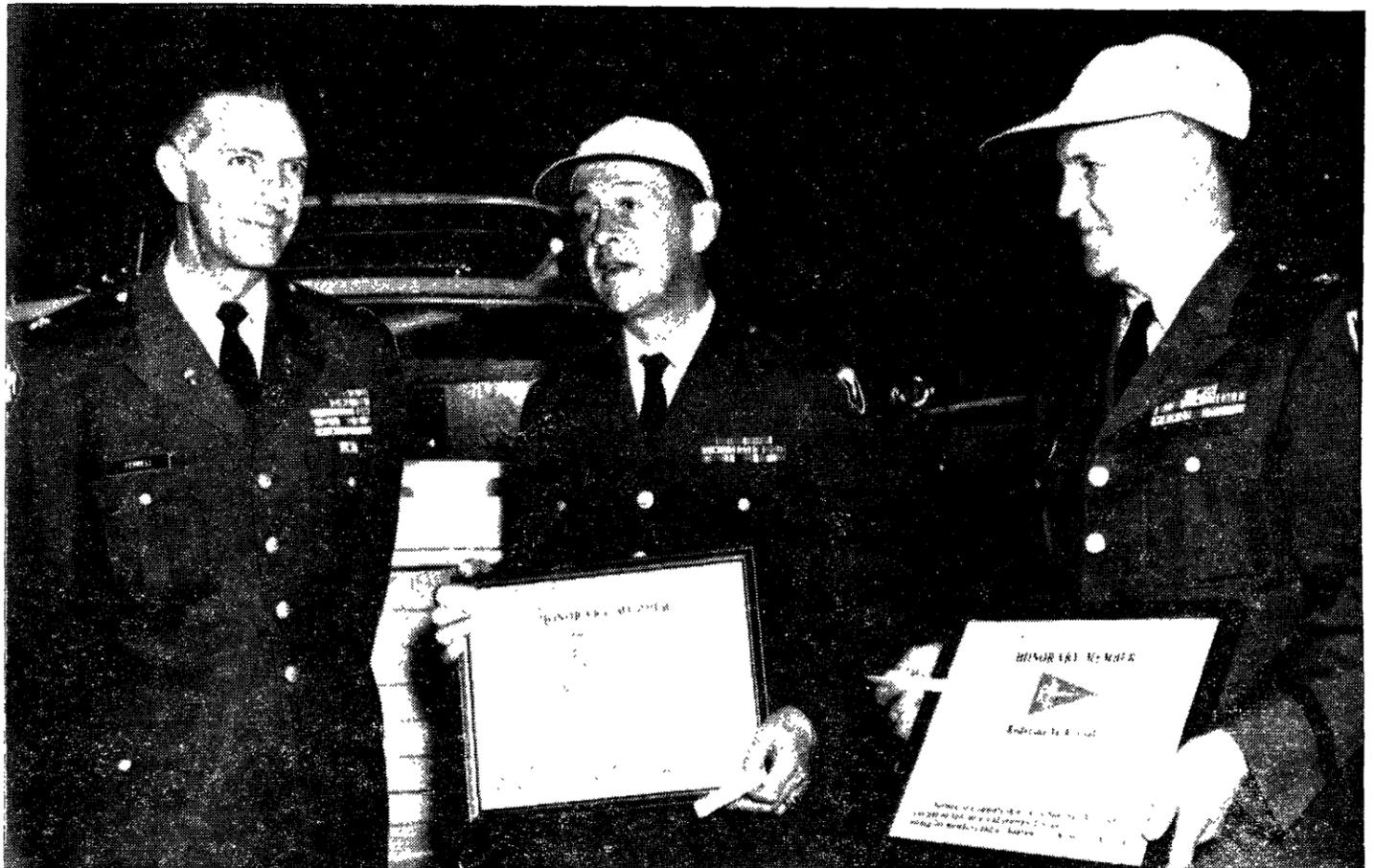
Team	Won	Lost
S. Winners	155	45
Lucky Strikes	149	51
Wheezers	113	187
Hopefuls	100	100
Black Jacks	90	110
Af Jupils	68	132
Pin Splitters	63	137
Maulers	63	137

Redstone Arsenal Officers

Team	Won	Lost
Spoilers	57	35
Mets	51	41
Procture Mites	50	42
Bandits	49	43
Allev Cats	45	51
OGMS	35	61
Robbers	49	43

School Troop Command

Team	Won	Lost
UTC Raiders	74½	25½
The Bisons	66	34
Co. "C" No. 1	54	46
Pop Tops	52½	47½
Pin Pickers	49½	50½
Five Aces	45½	54½
Co. "C" No. 2	33	67
Hq Company STC	25	75



HONORARY MEMBERS OF YACHT CLUB—Maj. Gen. John G. Zierdt (center), Commanding General of the Army Missile Command, and Col. Thomas W. Cooke (right), Commander of the Army Missile Support Command, hold certificates of honorary

membership presented to them Saturday by the Redstone Yacht Club's commodore, Lt. Col. C. L. Ferrell. The yachtmen held open house Saturday. Club membership is open to government and contractor employees assigned to organizations at Redstone Arsenal.

Special Services is interested in anyone who would like to officiate unit level baseball and softball games. Interested personnel should contact the Sports Branch at 876-2943 or 877-3323 on or before April 3, 1964.

Special Services will conduct an officials clinic during the period of April 6 through 8, 1964 for softball officials between the hours of 1800-2000 Building 3712.

The baseball clinic will be held April 7 through 9 at the Post Service Club, Bldg. 3712.

SATURN BOOSTER LEAGUE "A" DIVISION

Team	Won	Lost
Black Forest Lounge	69½	34½
Martin Company, Mfg. Div.	65	39
Lockheed (RIFT)	56	48
Spaco	54	50
Hall's "66" Service	54	50
Hayes Top Seven	53	51
Republic Aviation Corp.	53	51
Garrett Airesearch Corp.	50	54
Brunson Instruments	48	56
C. W. Stewart Machinery	45½	58½
Hilding Holmberg	45	59
Hayes Ex-Cons	31	73

200 GAMES:
Magnant, 233; Phillips, 219; Kozlowicz, 213, 205; Matthews, 209; Verschoore, 202; Lewallen, 200.

"B" DIVISION

Team	Won	Lost
Redstone Federal Credit Union	72	32
RCA	61	43
All Sports Trophies	59	45
Norris Riddle Furniture Mart	58½	45½
Pin Palace Lanes	57	47
Modern Machine Associates	55	49
Arrowhead Products	52	52
Redstone Machine & Tool Corp.	48½	55½
Terry Heights Cleaners	46	58
Reba's Bowling Apparel	44	60
Hayes Designers	39	65
Progressive Welders	32	72

200 GAMES:
Cizek, 212, 214; Bush, 215; Lovell, 213; Clark, 214; Wyatt.

GOLFERS COMPETE

Fourteen members of the Golf Group sponsored by the Redstone Arsenal Officers Wives Club played blind bogey competition on the Arsenal course last Wednesday.

Mrs. Charles Owen came in first on the nine-hole competition with Mrs. W. A. Cole a close contender.

The Group plays every Wednesday morning.

The Golf Group sponsored by the Redstone Arsenal Officers Wives Club is open to military dependents only. The Rocket erroneously implied that it was open to all members of the Wives Club.

Summer Bowling Leagues Should Be Registered

With the winter bowling season rapidly drawing to a close, Sgt. Bob Handy, manager of the Post Lanes, has started laying plans for league activity during the summer months.

He has set the period of summer bowling to run from June 8 through the first week of September. Leagues desiring to have a time slot scheduled should make their de-

sires known at the earliest practical date. There will be no Saturday leagues scheduled during the summer months.

The first league to announce plans for the summer is the Women's Monday Night Group. They will start weekly bowling at 7 p.m.

Sgt. Handy also called on officers of this year's leagues to schedule an election of officers for the

next year before the end of this season. This will help to preclude unnecessary delays in getting the league started in the fall.

He added that the present leagues will have priority on time and dates for the 1964-65 season. He is tentatively expecting two leagues each night, the first one will start at 5:45 and the late league will begin at 8:30.

Ever had a rainy day financial? Then you should get acquainted with United States Savings Bonds. Ask your banker or the bond officer where you work.



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RARE CARS

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Catalina 3-Door Hardtop with automatic shift. Low mileage and it's like new. \$1599

1961 FORD

Half Ton Pickup Truck with Custom cab, 6' cylinder motor, std. shift. Local and like new. \$1399!

1960 OLDS

Super "88" 2-Door Hardtop with full power and factory air. \$1599!

1962 OLDS

"88" Four-Door with full power and low mileage. \$2199!

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4-Door Sedan! All Cadillac accessories, 14,000 miles. Spare never used. Doctor's car. New car trade-in. Like new. For... \$3199!

1963 RAMBLER

Classic 9-Passenger Station Wagon with radio, heater and automatic shift and Economy-6 engine. Has solid white finish. \$2299.

1962 RAMBLER

Four-Door Economy-6 with automatic shift and low mileage. Has whitewalls and it's like new. \$1599.

1962 CONTINENTAL

This car is a luxurious 4-door sedan with the comforts of full power, electric windows, electric 6-way seats, tinted glass and only 27,000 miles. \$3499!

1961 NOMAD STA. WAGON

By Chevrolet! This 4-Door 9-passenger wagon has a powerful V8 engine and it is like new. \$1899!

1958 CHEVROLET

Station Wagon Four-Door with SMALL V8 engine (it's economical, too), stick shift, local car with low mileage. \$899.

1960 OPEL

Station Wagon with 4-cylinder engine, standard shift and it, too is a local car. Like a new one. \$799.

1960 VOLKSWAGEN

Sedan with radio, heater, and it's real clean. Another local car. \$899

1962 VOLKSWAGEN BUS

Carry your kids and the neighbors, too (if you want to)! There is plenty of room and a sunroof to boot! You'll want to look it over—it's in excellent condition. \$1899!

1959 IMPALA

This coupe is built by Chevrolet, too! Has a shining brown and white finish, powerful V8 motor and real low mileage. \$1399!

1958 CHEVROLET

With Economy-6 engine, stick shift, local car. Unusually nice \$699.

1960 AMERICAN

By Rambler — Four-Door with Economy-6 engine, automatic shift, and low mileage. It's a clean car with good whitewall tires. \$799.

1959 FORD

Custom "300" Fordor Economy-6 with stick shift. Nice and clean. \$799.

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Across From First National Bank Branch
501 MADISON ST.—DIAL 539-1769

No Money Down

Lance Project Director To Retire

A veteran Army missile man who has directed the progress of the new Lance ballistic missile system since it became a project managed weapon, announced this week he will retire from active duty at the end of the month.

He is Col. W. W. Holmes, who has been Lance Project Manager for the Army Missile Command since development of the Lance began under a high-priority label.

At the conclusion of a 30-year Army career, Col. Holmes can look back on military pursuits that range from overseeing the development of a new rifle to directing efforts on one of the Army's newest land combat missile systems.

Col. Holmes will be guest of honor at a reception and retirement party scheduled for March 30, at the Redstone Arsenal Officers Club.

Successor to Col. Holmes as Lance Project Manager is expected to be named shortly by the Army Missile Command.

At the end of his military career, Col. Holmes can look back on a number of notable contributions to the art of making missiles. Under his direction, the Lance project has accomplished at least four "firsts" in weapon system development programs.

They include the process known as Program Evaluation and Review Technique-Cost (PERT/Cost), which was applied to the total development program for the first time on Lance.

In the Lance development plan, an advanced process of program

definition was used for the first time to make the selection of the prime contractor for the system, to insure selection of the superior proposal.

As a third noteworthy aspect of the Lance project, an incentive contract was awarded covering all areas of cost, time and technical performance during the total development program, another first for a missile system's development process.

Under Col. Holmes' direction, the Lance became the first system to be placed under project management before development "go-ahead" from the Department of Defense, thus insuring complete implementation of project management from the beginning.

By establishing the basic process for application of these techniques, the Lance development program has become a model for similar projects through the Department of Defense.

Col. Holmes came to Redstone Arsenal in mid-1962, as the director of Lance's predecessor program, known as Missile "B."

The officer came to the Missile Command from the Ordnance Weapons Command, where he served as Director, Plans and Programs and Deputy Project Manager for

the M-14 rifle program.

A native of Kentucky, Col. Holmes is a graduate of Western Kentucky State College, at Bowling Green, where he majored in mathematics. He did graduate work in math at Peabody College, Nashville, Tenn., in 1938-39, and in Industrial Management at the University of Kentucky.

He is a graduate of the Army Industrial College, the Ordnance School, the Command and General Staff College, and he has attended numerous service schools during his career.

Col. Holmes was commissioned a second lieutenant in 1936. He has served in positions of increasing responsibility throughout his Army career. He holds the Army Commendation Medal, awarded in 1946, and is a member of the American Ordnance Association.

The Lance Project Manager's plans for the future indicate the "first real vacation I've had in 30 years."

Welcome Mat

The ROCKET extends a welcome to the following named personnel who have recently accepted positions with Army organizations at the Arsenal.

ARMY MISSILE COMMAND

Research & Development: Geneane B. Anderson, Richard H. Boutillette, Lurline S. Clem, Winslow L. Hill, Iris H. Hosmer, Guy G. Hubbard, Arvil G. Jackson, Charles D. Johnson, Mary W. Kuemper, Jerry E. Lester, Kenneth K. Magnant, Herbert K. Naumann, Katharyn W. Sparkman, John V. Swearingen, Priscilla H. Uelton and Shirley W. Walker.

Supply & Maintenance: Ernest E. Blackmon, Gordon L. Cotrell, Joel B. Fields, Frances A. Frederick, Carlton Garner, Guy H. Iverson, Minnie H. Jones, Rudolph P. Kiss, Dewey G. Kitchen, Guy R. Lynn, Hal L. Moore, Gerald W. Parham, Curtiss S. Pearson, Ruthie, H. Poe, Jesse H. Smith, Martha L. Smith, and Richard L. Taubert.

Procurement & Production: Elizabeth M. Chaviers, Helen D. Cox, Hilda T. Dykes, John W. Ecklin, Helen S. Hadley, Homer J. Hansen, Elmo J. Kerr, Elizabeth L. Mosby, Myra D. Tidwell, Nellie S. Underwood, Louie P. Weeks, General W. Whitaker, III.

Project Offices: Linda N. Bentley (Pershing), Annie S. Daniels (Mauler), Vernon S. Robeson (Lance) and Gert E. Schmitz (Hercules).

Comptroller & Dir. of Programs: John R. Carter, Reba W. Jackson and Samuel H. Miles.

NIKE X PROJECT OFFICE
Sleety I. Ballew, Robert E. Manley and Roger L. Williams.

SHERIDAN/SHILLELAGH ENG.
William D. Hagler and Mary A. Wessler.

ARMY MISSILE SUPPORT COMMAND

Patty J. Ballard (Intel & Secty); Harry L. Brandon, Nancy E. Folsom, and Shirley E. Farmer, (all in CPO); Maxine C. Cochran (Surgeon & Hosp. Cm); Della C. Cope (Reproduction Div);

James E. Durham, Lillian A. Hamer, Allan E. Hodge, George J. Simas and Richard N. Smith (all in Maint Support); Francis P. Fundo (Post Trans); Betty G. Grayson (F&A); James C. Lowery (Inspection Div); Thomas P. Massier (Calibration Center);

Mary B. Moore and Lillie B. Ricketts (both in Computation Center); Nellie R. Oliver (Asst for Log); and Ruth K. Wideman (Consolidated Sup).

ORDNANCE GUIDED MISSILE SCHOOL

Tommy E. Adams, Carolyn W. Moyers and Mable S. Pitts.

The Rocket welcomes the following named military personnel who have recently started tours at duty with Redstone Arsenal organizations.

Officers: 2nd Lieut. William J. Higgins, who is assigned to the United States Army Hospital; and CWO (W-4) Arnold C. Millner, assigned to the Post Quartermaster.

Enlisted Personnel: CPL. Richard L. Hunter, CPL. Doyal W. Hunt, CPL. David E. James and PFC Lee W. Leckler, all assigned to the 291st Military Police Company; SP5 Albert W. Lochli and

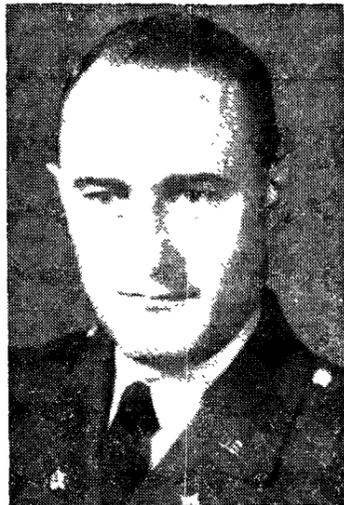


SET THE PACE—Maj. Gen. John G. Zierdt hands envelopes to Gustavus Brown, indicating that the Office of the Commanding General had reached 100 per cent in the 1964 Joint Fund Drive. Margaret Francis, the General's secretary, is on the left. In reporting 100 per cent, in the first week of the campaign, the Office is the first organization to reach a perfect record for both drives that are included in the overall fund solicitation. Two other organizations have reached 100 per cent in the Health Activities drive but not in the Joint Crusade.

PVT James B. Thomason, Field Maintenance; SFC Allen S. Perry, Supply & Maintenance; PVT Richard J. Darnell, Missile Intelligence; PVT Timothy D. Kinsman, 55th Army Band; and SFC John G. Watson, Jr., Hq & Hq Det, Missile Support Command.

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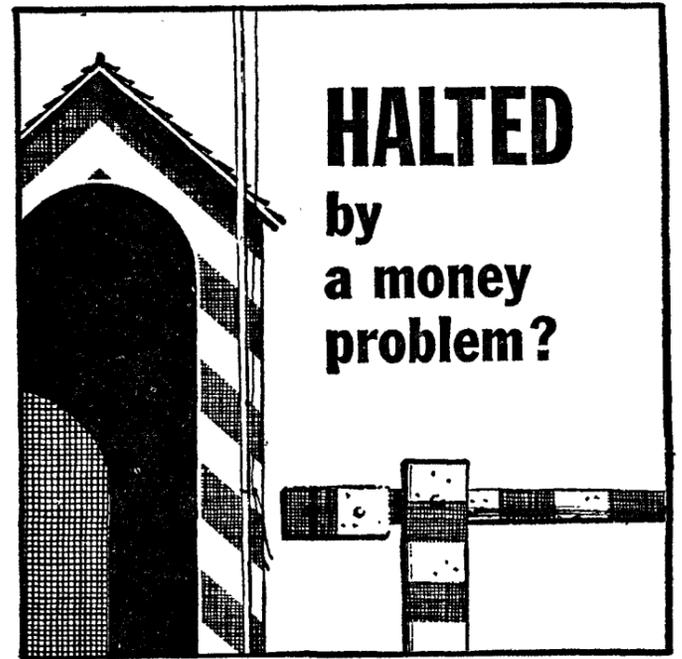
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Cash You Get	MONTHLY PAYMENT PLANS		
	30 months	24 months	12 months
\$500		\$24.73	\$46.81
700		34.30	64.92
1000	\$40.05	48.76	92.30
1500	59.80	72.80	137.80
2000	78.96	96.13	181.96

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Loans made to residents within a 100 mile radius

Pershing To Go To Europe

The Army's sleek new Pershing ballistic missile system will arrive in Europe next month for its front-line debut.

The weapon system, developed by the Army Missile Command at Redstone Arsenal, will provide added heavy artillery support for the U. S. 7th Army in West Germany.

The Department of Defense said that the 4th Battalion, 41st Artillery will go to West Germany from Ft. Sill, Okla. Lt. Col. Spillman N. Fitzpatrick, Jr., of Auburn, Ala., is commander of the battalion.

With a range of 100-400 nautical miles, the Pershing ranks as the most advanced Army battlefield missile system. Its deployment to Europe was announced by the Department of Defense late last year.

In Europe, the Pershing will join ranks with the shorter-ranged Sergeant ballistic missile system, also a product of missile development capabilities at the Missile Command.

The Sergeant with a range of 75 miles, arrived in Europe last year. Both of the missiles are powered by solid propellant and both are highly mobile to meet the demands for modern-day warfare.

The development of the Pershing is under the direction of Col. E. I. Donley, Pershing Project Manager for the Missile Command.

Col. J. Mort Loomis is Sergeant Project Manager for the missile program managing Army organization.

The Pershing is a two-stage missile which is guided to its target by an inertial system. It is designed to operate under any weather or terrain conditions. The system is self-contained and self-sustained on its four tracked vehicles.

The development of the Pershing is under the direction of Col. E. I. Donley, Pershing Project Manager for the Missile Command.

Bloodmobile Quota Upset Second Time

The bloodmobile at Redstone Arsenal has exceeded its quota for the second consecutive month.

A total of 676 pints were received last week from blood donors at Redstone Arsenal, with a total of 729 persons being processed during the day.

Marshall Space Flight Center had the highest number of civilian donors, and the 291st Military Police Company at Redstone, won the military trophy for the most contributors.

In charge was Dr. Charles Moss, and Dorothy Brooks, head nurse, both from the Birmingham Blood Center. Director of Arsenal volunteers was Mrs. R. B. Braid, and Arsenal blood coordinator is Col. William Luk, Troop Commander and Provost Marshal.

POPEYE - Bud Segendorf



DONATION FOR DANNIE'S SCOUTS—Dannie Kibodeaux here receives a check to help with the organization of a native Scout Troop on Majuro Island in the mid-Pacific. Dannie is a member of a Boy Scout Troop on neighboring Kwajalein Island, home of a Nike-X ICBM defense missile system test site. The check represents contributions by members of the Army's Nike-X Project Pacific Field Office. It is being presented by Col. Glenn Crane, Chief of the Office. Looking on is Dick Wood, a sponsor of the Kwajalein Troop. Dannie's family moved to Kwajalein from Huntsville where his father, Curley was employed in the Supply and Maintenance Directorate of the Army Missile Command.

Boy Scouts Organize On Kwajalein

Tiny Majuro Island, way out in the Pacific Ocean, is the home of one of the world's newest Boy Scout Troops, thanks to the Army's

Nike-X ICBM defense project.

Majuro is next door to Kwajalein Island, home of the Nike-X test site. Like any American community with a population of some 3,000, Kwajalein has a thriving Boy Scout Troop made up mostly of boys whose fathers are on the island in connection with the missile program.

As one of its projects, Kwajalein Troop 135 established a Scouting program for native Marshallese boys on Majuro. In fact, it is the first native troop in the Marshall Islands, a cluster of palm-thatched coral islands mid-way between

Hawaii and the Philippines.

Some 30 boys and five adults are now participating in the Majuro program.

In addition to sponsoring the Marshallese Troop, a number of Kwajalein Personnel have supported individual boys in the Majuro Troop by buying them uniforms and equipment.

Scouting on Majuro is hardly like that in the states. For one thing, Marshallese boys are practically born with the ability to row an outrigger canoe and live off the surrounding ocean and coconut groves.

Gen. Hardaway Is Materiel Command New Comptroller

Brig. Gen. Eads G. Hardaway will become the new Comptroller and Director of Programs for the Army Materiel Command, Lt. Gen. Frank S. Besson, Jr., Commanding General of the Materiel Command, announced last week.

The appointment will be effective Apr. 1 when Maj. Gen. William B. Bunker moves into the office of the Deputy Commanding General.

Gen. Hardaway is now one of two deputies under the Comptroller and Director of Programs, with specific responsibility for plans and programs. He was assigned to the Materiel Command Headquarters in June 1962, two months before its formal activation on Aug. 1, and served initially as Chief, Programs Management Division. He became Deputy Director of Programs in September 1962.

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GEN. JOHN A. BARCLAY

General Barclay Talks To Personnel Group, Tonight To Reserve Navy

Maj. Gen. John A. Barclay (Ret.) spoke to the Huntsville Chapter of the Society of Personnel Administration at the monthly meeting last week at the Squirrel Hill Officers Club.

His subject was "The Pace For Space." Gen. Barclay emphasized the need for retention of employees through job satisfaction rather than continuous recruitment caused by turnover. He called for less red tape in personnel administration and more attention to development of employee skills in individual fields of endeavor.

Gen. Barclay is manager of the Huntsville department of Northrop Space Laboratories.

Tonight the General will talk to the Naval Reserve Officer's School at the Training Center in Huntsville.

SUNRISE

(Continued From Page 1)

several years ago.

Persons planning to attend the service are urged to bring raincoats, plastic sheeting or other suitable material to sit upon to protect their clothing. In the event of inclement weather, the service will be held nearby in the post theater.

Holy Week Services

PROTESTANT—Post Chapel Maundy Thursday — Holy Communion — 1900 hours.

Good Friday — 1300 hours thru 1415 hours.

Easter Sunrise Service — 0600 hours.

Easter Sunday—Regular Sunday Services.

CATHOLIC—Post Chapel Holy Thursday — Evening Mass of the Last Supper — 1715 hours.

Good Friday — Stations of the Cross—1500 hours.

Afternoon Liturgy of the Lord's Passion and Death—1700 hours.

(Private devotions, Blessed Sacrament Chapel—12 noon to 1500 hours)

Holy Saturday — Easter Vigil Services—2330 hours.

Confessions: Half hour before Services on Holy Thursday, and Good Friday; 1900 to 2100 hours on Thursday and Friday nights; 1800 to 1930 hours on Saturday night.

PROVOST

(Continued From Page 1)

ishments and developments.

Escort Officer for Gen. Butchers will be Col. R. M. Allgeier, Assistant for Intelligence and Security Operations for the Missile Support Command.

AOA

(Continued From Page 1)

local professional organizations—there are more than 20 with membership drawn from the missile and spacemen at Redstone and their industrial contractors—were all competing for attendance at evening sessions with other facets of family and community life.

"The Apr. 1 meeting will begin and end in exactly one hour," Demetriou said. "Our objective is to present good programs with a minimum time demand upon our membership." If the experiment proves successful, the AOA post will schedule other noontime meetings.

Gen. Eifler has scheduled a presentation on government-industry contract relationships with suggested areas where financial performance can be improved to begin the new meeting series. Demetriou said a number of local

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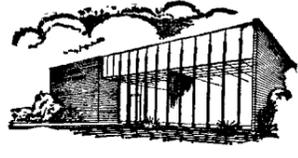
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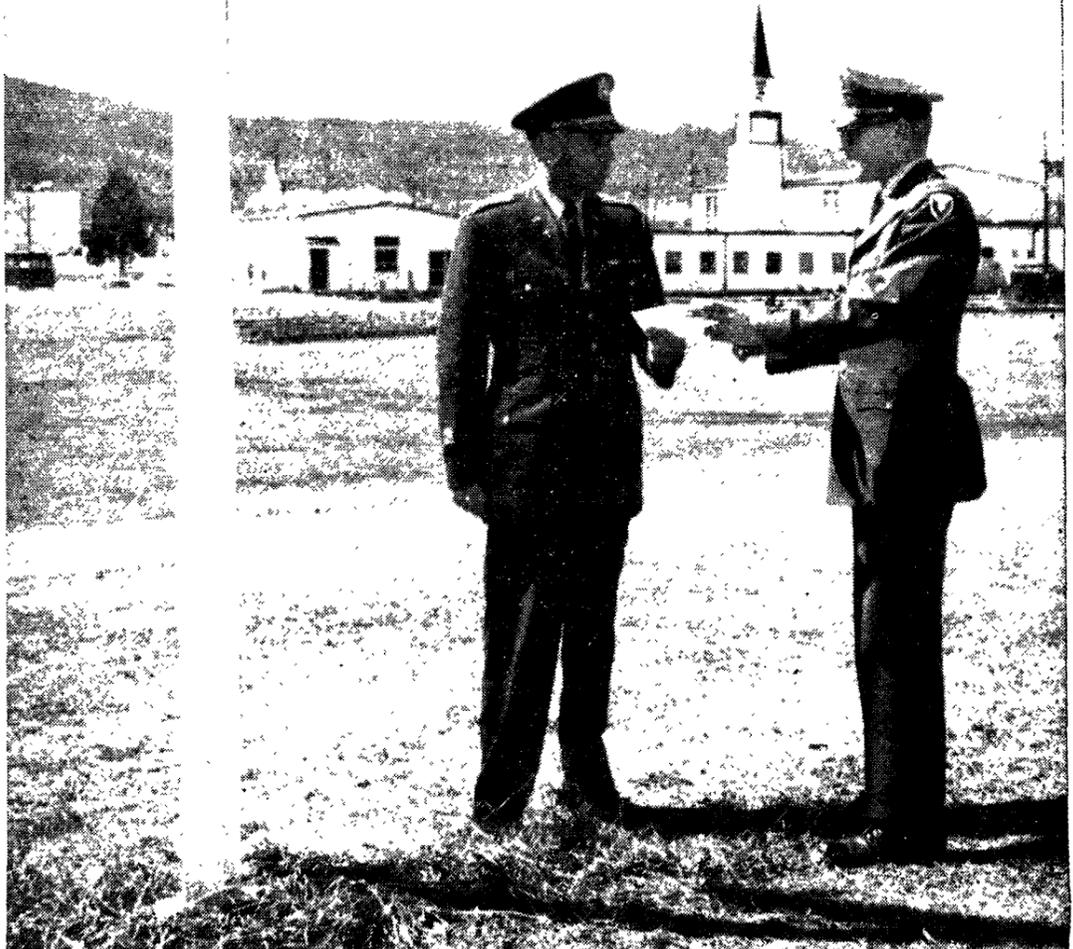


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PLAN SUNRISE SERVICES—Chaplain (Lt. Col.) Donald F. Carter, Redstone Arsenal Post Chaplain, reviews final plans for the annual Easter Sunrise Services at the Arsenal with Chaplain (First Lieutenant) Richard L. Andrist. The non-denominational services will be held in the area to the rear of the Post Chapel starting at 6 a.m. The annual service is sponsored jointly by the Redstone Post Chaplain and the Huntsville Ministerial Association.

and out-of-town government and industry speakers are being contacted to participate in later meetings.

In another attempt to simplify the proceedings, the post presi-

dent said reservations will be by telephone only.

Persons desiring to attend may contact O. M. Hirsch, Marshall Center representative, at 876-6953;

Horace Lowers, Missile Command representative, at 876-8736; A. F. Wild, industry and off-arsenal representative, at 881-1640, or Demetriou at 539-3711, Ext. 203.

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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.

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Rocket Ruminations

"Knowledge can give us nuclear fission; only wisdom and understanding can assure its application to human betterment rather than human destruction."

—Former President Eisenhower

Join The Minute Men

The recent pay raise for civilian employees and the new tax reduction for both military and civilian personnel has increased the take-home pay of all personnel. This affords an opportunity to achieve ninety percent bond participation, which will entitle this command to fly the Minuteman Flag.

A review of the pre-drive status of organizations located at this installation for the past four years is as follows:

Military Participation	Civilian Participation
1960—26.5%	1960—46.3%
1961—33.6%	1961—55.7%
1962—45.8%	1962—58.8%
1963—62.9%	1963—70.3%

The above tabulation shows how bond participation has increased each year.

When you buy a bond, you are actually lending money to the United States Government. The bond is really an IOU, or a written promise by the Government to repay your loan at a specified rate of interest at a specified time. Should you want the loan repaid before maturity date, you may, of course, redeem your bonds. If your bonds are stolen, lost, destroyed, or badly mutilated, your investment is still good; the Treasury Department keeps a record of all bonds and will replace them without charge.

A recent change to AR 37-103 provides an additional incentive for the purchase of larger denomination bonds by partial deductions, whereby when one-half or more of the purchase price of the bond has been deducted, full interest will begin accruing.

The Series E. Savings Bond is purchased through payroll deductions and military pay allotments, as well as cash. It is purchased at 75 percent of its face value, and accrues interest until it matures. The current bond earns 3 3/4% interest and will reach its face value if held seven years and nine months after the effective date shown on the bond. This bond is sold in seven denominations ranging from the \$25 bond costing \$18.75, to the \$10,000 bond costing \$7,500. Bonds may be converted to cash easily and quickly at any bank.

The Treasury Department prefers to borrow as much money as possible from individuals. The American people own over \$44 1/2 billion in savings bonds. This is approximately 15% of the public debt, and is a solid cornerstone for the remainder of the debt to rest upon. The money the individual uses to purchase a bond is already in circulation in the form of his salary, wages, or other income. Buying bonds means giving the Government a powerful weapon with which to fight and control inflation.

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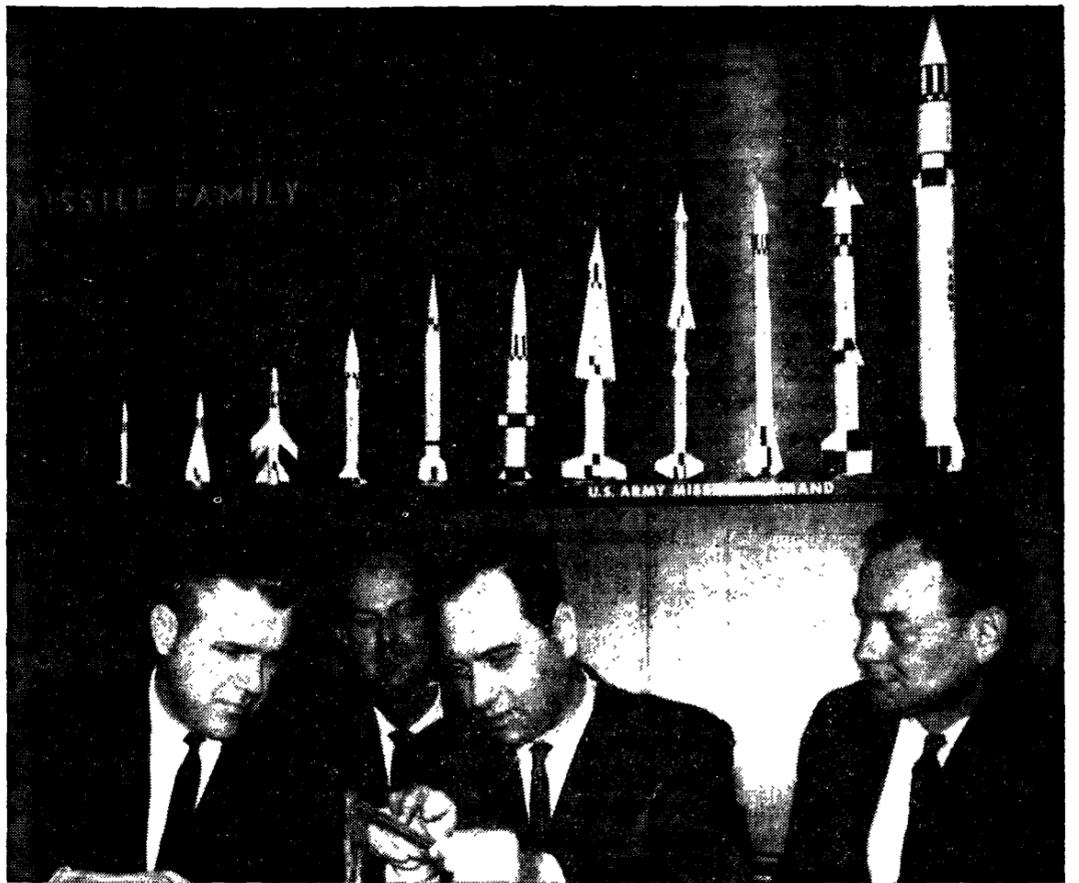
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LASER TALK—The Army Missile Command's laser research has been in the news this past week. Here Dr. Theodore Maiman, one of the earliest pioneers in laser research, discusses the device with members of the Missile Command's Directorate of Research and Development. Dr. Maiman is holding a small laser rod. From left are William Davis, Chief of Special Projects; John McDaniel, Technical Director, Dr. Maiman and Col. Daniel Shepherd, Director of Research and Development. Dr. Maiman is with the Korad Corporation, Santa Monica, Calif.

LASER

(Continued From Page 1)

Several hundred tests have been completed. Many of the tumors are literally destroyed when exposed to a sudden burst of infrared laser radiation which is fired in time intervals measured in thousandths of a second by the Army laser.

Maj. Gen. John G. Zierdt, Commanding General of the Missile Command, said of the cooperative effort:

"The Army spends its research and development money to improve its ability to fight. All of us earnestly hope, however, that some of the discoveries this money underwrites will produce benefits in other forms for the taxpayers who pick up the bills. This type of research is one that all of us in the Missile Command are proud to assist in any way we can."

Device Designed Here

The device being used in the tests was designed and developed in the Applied Physics Branch of the Army Missile Command Electromagnetics Laboratory by a team headed by William B. McKnight, branch chief. The device uses as the laser element a glass containing a percentage of neodymium, a rare earth element. The glass was developed for the Army Missile Command under contract by the American Optical Company of Southbridge, Mass. William A. Davis of the Command's Directorate of Research and Development, directed the contract. James R. Dearman of McKnight's staff is the project engineer for the experiments carried out with the laser and the support furnished to Dr. Minton's experiments.

Dr. Minton says the experiments to date indicate an apparent relationship between tumor size and the laser energy dosage required to kill the cancer. He considers lasers excellent energy sources which might be used to destroy many tumor implants rapidly without destroying surrounding tissues.

A graduate of Ohio State University, Dr. Minton is a commissioned officer in the United States Public Health Service. Alfred S. Ketcham, M. D., Chief, Surgery Branch, National Cancer Institute, has been associated with this experimental work with lasers.

Army-Industry Combine

Dr. Minton has also worked with industry laser specialists at Lear Siegler, Ann Arbor, Mich.; Raytheon, Boston, Mass., and Maser Optics also of Boston, in addition to the civilian experts of the Army Missile Command.

The Army researchers have been conducting simultaneous investigations in the performance of their laser, a device with unique

energy output capabilities that fitted Dr. Minton's requirements.

A laser emits light in a very narrow and coherent beam. The coherent property of the laser light—its waves are almost identical in length and frequency—allows it to be focused to tremendous energy intensities.

Army researchers are testing

their device at the Arnold Engineering Development Center, Arnold Air Force Base, near Tullahoma, Tenn., utilizing electrical power sources already installed there for other government research programs. Army use of these facilities for laser research is the first known adaption of this type power source for laser work.

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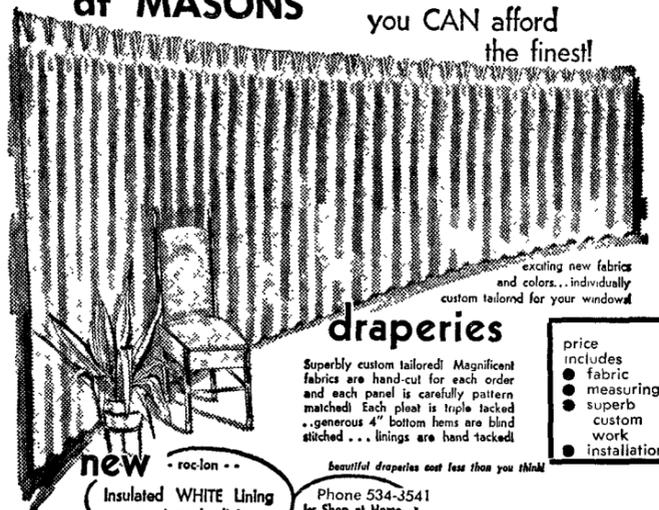
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MARCH 25, 1964

**Arsenal-Wide
Spot News
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Army's Laser Stars In Cancer Experiments

AOA Inaugurates New Meeting Time

A local professional organization has come up with a twist in its meeting schedule that is an attempt to give the men concerned with Huntsville's missile and space programs more time to spend with their families.

The Tennessee Valley Post of the American Ordnance Association has switched its meeting times from evening dinner sessions to one hour business lunches, according to A. A. Demetriou, post president.

The new look in professional society meetings will be inaugurated at noon on Apr. 1 when the post membership gathers at the Redstone Arsenal Officers Club. Brig. Gen. Charles W. Eifler, the Army Missile Command's Deputy Commanding General for Land Combat Systems, is the scheduled speaker.

Demetriou said the post's executive committee decided to try the noontime meeting as an experiment after a survey revealed that

(See AOA on Page 3)

Powerful infrared laser rays have successfully killed malignant tumors (cancer) in mice during experiments currently being conducted with U. S. Army lasers.

Dr. John Peter Minton, a surgical investigator of the National Cancer Institute, National Institutes of Health, has confirmed that certain tumors can be destroyed in laboratory animals by pulses of infrared laser radiation. However, he considers it premature to make any correlation between his experiments and the potential treatment of cancer in humans until further study has been accomplished.

Working with engineers of the U. S. Army Missile Command who are engaged in laser research, Dr. Minton has been experimenting for several months.

MRS. LBJ VISITS

Mrs. Lyndon B. Johnson was scheduled to arrive at the Redstone Arsenal airstrip yesterday morning to spend the day at the Marshall Space Flight Center.

Because of the deadline of *The Rocket* it was impossible to cover this event in this week's edition.

Maj. Gen. and Mrs. John G. Zierdt were invited to be in the official greeting party to represent the Army at Redstone and *The Rocket* plans coverage of the First Lady's visit next week.

Dr. Minton's experiments have been aimed at evaluating laser energy as a possible surgical tool in the treatment of cancer. He says his results to date have established that "certain tumors can be destroyed" by the energy emitted by certain types of lasers.

The experiments have involved two uniformly fatal tumor strains, the Cloudman S91 Melanoma and the Lewis T241 Sarcoma, which are transplanted in pure bred mice.

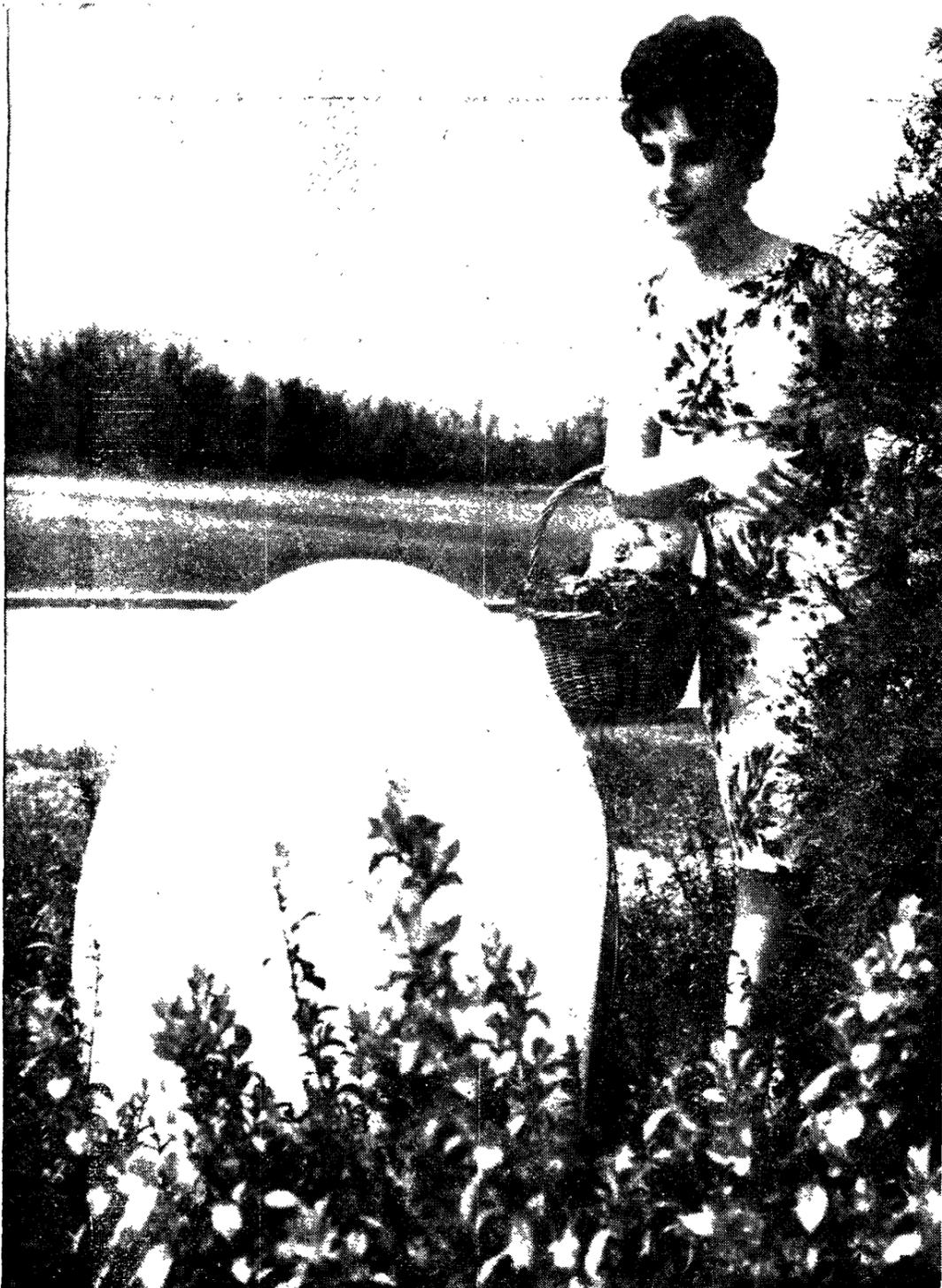
The principles of laboratory animal care as promulgated by the National Society for Medical Research were observed in the Army tests.

Using laser radiation, he has successfully killed the cancer in

(See LASER on Page 2)



LASER HARDWARE—Three Army Missile Command engineers here examining laboratory laser equipment have aided a surgical investigator for the National Cancer Institute in evaluating laser energy as a possible surgical tool in the treatment of cancer. His experiments with mice have indicated that certain tumors can be destroyed by laser radiation. Members of the Command's Directorate of Research and Development who have participated in development of the Army laser used in the experiments are: (left to right) William Davis, Jr., Chief of Special Programs; William B. McKnight, Chief of Applied Physics Branch; and James R. Dearman, an engineer in the Applied Physics Branch.



LOOK WHAT I FOUND!—It's a bit early for hunting Easter eggs — even prizes like the one here. But what is more appropriate than a beautiful Spring day—and a lovely girl. Getting the jump on Easter egg "hunters" is Mrs. Dudley Edwards who works in the Honest John/Little John/Redstone Commodity Office of the U.S. Army Missile Command.

Sunrise Service Scheduled Easter Morning At Arsenal

The traditional community sunrise service at Redstone Arsenal will be held again this year at 6 a.m. Easter Sunday.

Arrangements have been made to seat 1,500 persons at the outdoor event. Site for the service is an area directly in the rear of the Post Chapel on Patton Road. Arsenal gates will be open to vehicle traffic and military policemen will assist in parking. The service is open to the public.

An annual event sponsored by the Huntsville Ministers Association and the Redstone Arsenal Post Chaplain, the service is non-denominational.

Rev. Donald Bailey, pastor of the First Presbyterian Church will preach the sermon, "The Witness of the Empty Tomb." Assisting in the service will be Capt. Donald White, Salvation Army, Huntsville; Rev. H. P. Snodgrass, pastor of the First Baptist Church; Rev. R. A. Vanlandingham, pastor of the Lakewood Methodist Church; and Chaplain (Lt. Col.) Donald F. Carter, post chaplain.

The choir of the First Baptist Church under the direction of Eugene Brasher will offer musical selections. Col. Jesse L. Fishback and Lt. Col. Howard E. Ammerman are in charge of the usher team for the sunrise service.

Musical accompaniment will be provided by the 55th U. S. Army Band, under the direction of Warrant Officer Robert E. Edmonds, Director.

The service began 19 years ago and has been an annual Easter event since that time. The number of worshippers has grown each year. Three large crosses were permanently placed on the site

(See SUNRISE on Page 3)



MAJ. GEN. R. J. BUTCHERS

Provost Marshal General To Visit

Maj. Gen. Ralph J. Butchers, Provost Marshal General for the Department of the Army, began a two-day inspection tour Tuesday of facilities at Redstone Arsenal.

Gen. Butchers' itinerary includes a tour of the newly completed Francis J. McMorrow Missile Laboratories of the U. S. Army Missile Command where he will be briefed on security procedures.

In addition, he will visit the 291st Military Police Company, the Central Police Station and the Provost Marshal's Office where he will be briefed on new accomp-

(See PROVOST on Page 3)