

The Redstone Rocket

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VOL. IX; NO. 31

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

DECEMBER 7, 1960



DINNER SPEAKER—Richard S. Morse, Army Director of Research and Development, addressed a group of more than 200 top-level missile industry representatives Thursday at Redstone Arsenal. The dinner at which he spoke was in connection with an Army-Industry symposium being conducted by the Army Ordnance Missile Command at Redstone and the Tennessee Valley Chapter of the Association of the U. S. Army. The meeting ends at noon tomorrow.

R AND D CHIEF SAYS—

Zeus Deployment Would Be Sound Investment

He Believes This Would Have Impact On Enemy Planning

The director of the Army's research and development program said Thursday night that he believes "a production program on the minimum scale that would permit an early deployment of a Nike Zeus would be a sound investment" for America.

Richard S. Morse, speaking to more than 200 top-level missile industry representatives at Redstone Arsenal, added that an early decision to produce and deploy, even on a limited scale, the Army's anti-missile missile system "would have a significant impact on enemy planning."

The industry management representatives are attending a two-day symposium sponsored by the Tennessee Valley Chapter of the Association of the U. S. Army and the Army Ordnance Missile Command at Redstone Arsenal. The Missile Command, headed by Maj. Gen. August Schomburg, is responsible for 19 Army missile and rocket systems, including the Nike Zeus.

Zeus, currently being tested at the White Sands Missile Range in New Mexico, is the only anti-missile missile system currently under active development by the United States. The missile was fired today in the first test of its guidance system. Officials stated that the missile responded successfully to control commands sent to it during its trajectory.

The need for an active defense against intercontinental ballistic missiles—such as that which Zeus is designed to provide—was one of three points discussed by Morse. He also commented briefly on the role of the Army in space and the Army's increasing need for battlefield air mobility.

The R&D Director stated that "Nike Zeus itself represents the country's principal anti-ICBM program and certainly the only

Further Research To Be Done on Hawk by Raytheon

The U. S. Army today announced award of a contract for \$2,250,000 covering further research and development work on its HAWK missile system.

The Boston Ordnance District disclosed that a letter contract with the Raytheon Company prime contractor for the Hawk work will be performed at Raytheon's Bedford, Mass., plant.

HAWK is a surface-to-air missile designed to defend against enemy air attack at very low altitudes. It is equipped with a homing device guidance system, and carries a lethal conventional warhead.

Technical supervision of the solid-propellant HAWK is maintained by the Army Rocket and Guided Missile Agency.

one that presently has any possibility of operation in the next decade."

According to Morse, it is conceivable that "in the not too distant future one or more unfriendly governments may acquire a few IRBM's or ICBM's against which even the present Zeus concept would offer a degree of real defense."

Moore pointed out also that any Zeus production program "would be sufficiently flexible to permit design changes over the long period of time between production and final deployment." This would allow full application of changing technology to the ultimate systems, he added.

Switching to the Army's role in space, Morse said "space is and must continue to be, a useful tool of the national and free world defense effort."

"As far as the Army is concerned, we intend to continue aggressively our efforts to utilize (See AUSA on Page 2)

Top Recruiters Receive Awards At 'Pershing-Zeus Boy Scout Roundup'

The 1960 "Pershing-Zeus Boy Scout Roundup" ended Saturday with the awarding of prizes to the top recruiters.

Maj. Gen. August Schomburg, Commanding General of the Army Ordnance Missile Command and chairman of the Roundup, presented the awards during ceremonies this morning at Redstone Arsenal.

The top award, a transistor radio, was given to William Gill, 14-year-old son of Mrs. Genice Gill of 3609 Blue Spring Road, Huntsville. William, who participated in the National Scout Jamboree in Colorado Springs last Summer, is a sophomore in Council High School. He is a First Class Scout in Troop 102.

Winners of camper tents and sleeping bags as top recruiters in each of the scout districts and divisions were as follows:

Jackson District - Terry Smart, age 13, Route 3, Scottdale. First Class Scout, Troop 19. Madison District - Tommy Branum, age 14, Paint Rock. Star Scout, Troop 68. Arrowhead District - Jerry Spears, age 12, 2109 Spring Avenue, Decatur.

Second Class Scout, Troop 236. Cotaco District - Jimmy Hand, age 13, Route 1, Vinemont. First Class.

Scout, Troop 227. Muscle Shoals District - Carlin Landham, age 9, 2114 Arlington Boulevard.

Florence. Wolf Rank, Cub Pack 14, Monte Sano Division - Billy Cooper, age 16, 1103 N. Houston St., Scottdale. First Class Scout.



GRAND PRIZE WINNER—William Gill, Boy Scouter who was leading recruiter in 1960, is shown receiving a transistor radio from Gen. Schomburg.

Troop 122. Joe Wheeler Division - Bertran Minnis, age 10, Wilson Avenue, Decatur.

Wolf Rank, Cub Pack 182. Muscle Shoals Division - Albert Reynolds, age 8, 902 Irvine Street, Florence. Bobcat Rank, Cub Pack 113.

All scouts who recruited at least one boy for scouting during the period September 1 through November 26 were invited to attend the missile and rocket display at Redstone this morning. Almost 2000 scouts and scout leaders were in attendance for the awards ceremonies.

Robert L. Haskins, Scout Executive for the Tennessee Valley Council, said this was the largest turnout ever for Roundup activities.

Each troop which completed all requirements was presented a banner for display on their troop flag. In addition, they received a written certificate signed by Gen. Schomburg.

ACT SAFELY

"Go Light on Throttle" Safety men say.

This is reiteration of the message received from Lt. Gen. J. H. Hinrichs, Chief of Ordnance in which he wishes all personnel under his command, both civilian and military, to observe safe practices and make the coming holiday season one without a single fatality.

Contracts Increase In Fiscal Year 1961

WASHINGTON, D. C. — Contract awards for procurement of Army weapons, ammunition, tanks, combat vehicles and other material are running ahead of Fiscal Year 1960 during the first four months of Fiscal Year 1961.

Since July 1, the Ordnance Corps has awarded contracts totalling \$554,662,548 through October 31, compared to \$349,410,327 in the same four months period a year ago.

About 61 per cent of current Ordnance contracting will buy so-called "conventional" material—new rifles, machine guns, tanks, armored personnel carriers, ammunition and other items.

Approximately 39 percent of the money is being invested in rockets and guided missiles.

Largest single contract awarded so far in the current fiscal year was the \$199,000,000 grant to Western Electric Company of New York City, prime system contractor for the NIKE ZEUS anti-missile missile system.

Pershing Contract Is Extended by Ordnance District

A \$20,248,000 extension of the Pershing contract with the Martin Company of Orlando, prime contractor for the Pershing ballistic missile system, was announced last week.

The award provides for the continuation of engineering services and development of long lead-time equipment for the Pershing system.

Today's action extends the existing contract through Dec. 31, 1960.

The Pershing system is being developed by Martin-Orlando under the technical supervision of the Army Ballistic Missile Agency.

The missile firing test program has been underway at Cape Canaveral since last February. The two-stage solid propellant Pershing is being designed as a replacement for the Redstone ballistic missile.

The extension was administered by the Birmingham Ordnance District.

New Bloodmobile Coordinator Named

Maj. G. L. Grace, Troop Commander, has been named coordinator for the Red Cross Bloodmobile program at Redstone Arsenal.

He replaces Maj. Jesse A. Garner, former coordinator who retired from the Army on October 30.

Maj. Grace has announced that his first active participation in the program is a goal of 1000 pints of blood from Arsenal donors.

The Bloodmobile visits today and is set up in the Post gymnasium.

Maj. Grace joined the troops here in September, following an assignment in Turkey.

Nike Zeus Guidance Is Tested

Firings in First Tests Made at White Sands Range

WHITE SANDS MISSILE RANGE, N. M. — The Army's Nike Zeus anti-missile missile was successfully guided during a firing on Dec. 1.

This is the first time in the firing test program that the missile's guidance system was tested. Control commands were sent to the missile as it raced through the sky and it responded to them successfully to perform a planned dive in the trajectory.

An improved technique for separating the missile's first stage from the second operated completely satisfactorily. This is the first time that such a technique has been successfully employed in a missile of this type.

Col. John G. Zierdt, commander of the Army Rocket and Guided Missile Agency, said one of the objectives was to demonstrate the feasibility of the missile's advanced aerodynamic design to overcome the tremendous pressure and structural forces resulting from its extremely high speed.

Thursday's event was another successful launching of the Nike Zeus missile in its stiletto-shaped configuration.

The wingless Zeus missile design is engineered to meet the (See NIKE ZEUS on Page 3)

ARGMA Official To Address National Academy of Sciences

William P. Lloyd, director of the Army Rocket and Guided Missile Agency's Test and Evaluation Laboratory, will address the national Academy of Sciences in Washington on Dec. 19.

He will discuss the missile test system capabilities of ARGMA's Research and Development Directorate placing emphasis on a preflight structure which, when completed, will house the most comprehensive set of environ-



WILLIAM P. LLOYD

mental facilities for treatment of hazardous items within the Ordnance Corps.

NASA has invited more than a hundred members of their National Research Council to attend the presentation of the ARGMA official. Mr. Lloyd will be assisted in his presentation by George C. Travers Jr., the deputy chief of the T&E lab.

Prior to his present position, Mr. Lloyd served in a manager- (See LLOYD on Page 2)

The Redstone Rocket

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Editorial—

Credit's Easy To Get And Often Too Easy

This is an ideal time of year to do some hard, unwishful thinking about money.

How much do you plan to spend in the months ahead. Will you have it to spend? If not, where will you get it? How will you get it?

Maybe you'll rent it. Rent money? Well that's what you do when you buy things on time or get money from a bank or a loan company. So the question to ask yourself is the same you ask when looking for an apartment or a house—Can I afford the rent?

The thing about credit today—a nice but often not-so-nice thing—is that for the average man, in or out of the service, it's so remarkably easy to get. People are so darned eager to extend it. They make it so easy.

Is there anything basically wrong with credit? Certainly not. Our national economy is based on it. Without credit the American family would not now enjoy the highest living standard on earth. Moreover, credit is trust and it is a good feeling to know business and banking people trust you; so good that it's a real pleasure to avail yourself of credit.

But too often there comes a time of reckoning. Because of credit, a man is in debt and somehow he can't get out of it. In trying to, he just finds himself in deeper. That's when he regrets the delicious ease with which he obtained credit and wishes he'd calculated better on his ability to repay.

December's rolled around and it's the heavy-spending month—the best time for a man to sit down with his personal or family budget and figure out not how much credit he can get but how much he can afford. Otherwise, he may be building to a time when he needs it the most and it isn't forthcoming.

(AFPS)

AUSA

(Continued From Page 1)

space in order to perform more effectively our military missions on the surface of the earth, both now and in the years to come," Morse said.

He described the use of communications and instrumented satellites as good practical applications of space. The Advent communications satellite, now under Army direction, was pictured by Morse as a method which might

LLOYD

(Continued From Page 1)

ial capacity with the ARGMA, Ordnance Missile Laboratories Division.

A native of Creek Stand, Ala., Lloyd graduated from Auburn University where he majored in Mechanical Engineering and belonged to the Pi Kappa Alpha social fraternity.

He is married to the former Miss Lillian Collins of Guntersville. The Lloyd's have three children, and reside at 1806 Shades Crest Rd. NW, Huntsville.

Travers, a Captain in the Army Reserve, is a native of Maine and received his degree in Engineering at Northeastern University, Boston, Mass., and Lehigh University, Bethlehem, Pa.

He is married to the former Miss Anne Pitts of Anniston, Ala. They reside at 2105 LaSalle Rd., N. W., Huntsville.

eventually become a means of increasing channels of communications and achieving world-wide television.

During the first day of the symposium, the industry representatives heard briefings on the Army's missile programs. Purpose of the meeting is to provide firsthand information to missile contractors which will allow even closer cooperation between them and the Army.

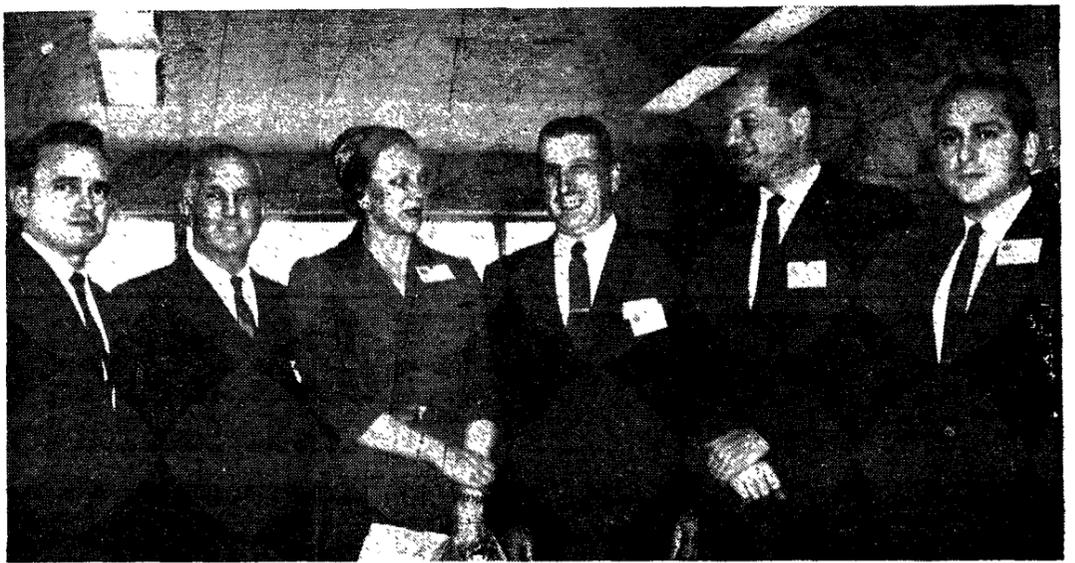
Almost 100 industry contractors were represented at the opening session of the Army-Industry missile symposium sponsored by AUSA and AOMC.

The meeting at Redstone ended Friday.

Purpose of the symposium was to provide American industry with firsthand information on the Army's missile programs. This is the first such meeting to be held for missile contractors.

Maj. Gen. August Schomburg, Commanding General of AOMC, explained that the conference should establish an even closer relationship between the Army and its contractors.

Thursday's speakers were Maj. Gen. John A. Barclay, Deputy Commanding General of AOMC; Brig. Gen. Richard M. Hurst, Commander of the Army Ballistic Missile Agency; Col. John G. Zierdt, Commander of the Army Rocket and Guided Missile Agency; Brig. Gen. David C. Lewis, Office of the Chief of Research and Development, Department of



AUSA CONFEREES—Among some 200 industrial representatives visiting the Army Ordnance Missile Command at Redstone Arsenal last week for an Association of the U. S. Army symposium were (l to r) Thomas B. Cooper, Gen. William M. Morgan, (retired) and Mrs. Olive Ann Beech, all of Beech Aircraft Corporation; Arthur L. Malcarney of Radio Corporation of America; Dr. Fred P. Adler and R. A. Basil of Hughes Aircraft Company. Mrs. Beech, President of Beech Aircraft, is one of the few women in America who heads a large corporation.

the Army; Brig. Gen. J. J. Davis, Office of Assistant Chief of Staff for Intelligence, DA; Maj. Gen. H. W. Johnson, Continental Army Command; and Brig. Gen. C. W. Clark, Office of the Chief of Ordnance.

In the opening speech, Gen. Barclay gave a brief description of the mission and functions of the Missile Command.

He told the group that the Army missile program was almost entirely dependent upon the capabilities and resources of American industry to provide effective weapons systems at the earliest date possible.

Stressing that the Army maintains an "in-house" technical capability at Redstone, he explained this enables Army personnel to assist engineers and scientists of civilian industry.

Gen. Hurst and Col. Zierdt presented a two-part report on current missile programs. Both stated that their agencies provide closer liaison with industrial contractors to insure efficient management of all Army weapons

systems under ABMA or ARGMA jurisdiction.

Both commanders reported on the status of each system for which they are responsible.

Gen. Lewis, Director of Special Weapons in the office of the chief of Army R&D, outlined the methods and procedures of the Army research and development program. He stated that every effort is directed toward early production of missile systems once they have been thoroughly tested. He also said that while formal research and development programs are relatively new in the military services, the cooperation of industry has made the job easier for all concerned.

During the final days of the meeting, Brig. Gen. Lawrence J. Lincoln explained "How Industry Can Better Help the Army." Gen. Schomburg made the final presentation, "AOMC's Role in Future Army Missile Development."

A. A. Demetriou, president of the Tennessee Valley Chapter of AUSA, closed the meeting.

HELP NEEDED

Christmas Charities has sent out an appeal for helpers to help rebuild toys collected by the group.

Headquarters is at Brown Engineer Comany, corner of Meridian and Oakwood. The building is open from 9 a.m. to 9 p.m. on weekdays and from 2-9 p.m. on Sundays.

The building is the last one on the left. Further information may be obtained from Mrs. Lavin Carroll, phone 534-8431.

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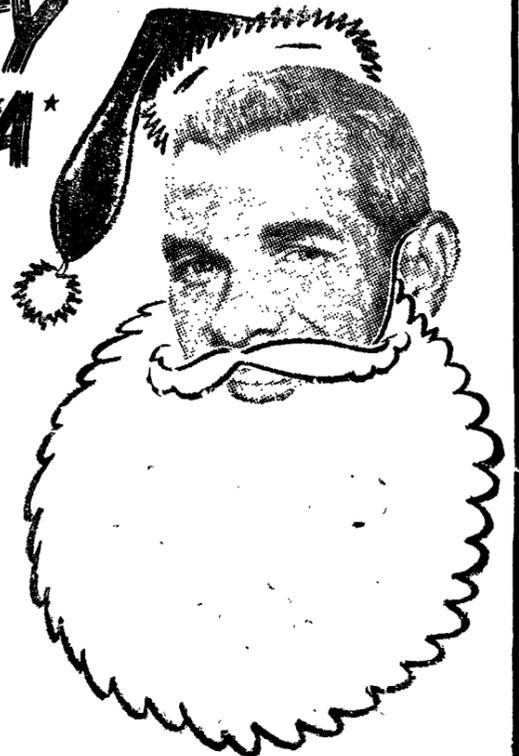
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CITED FOR PERFORMANCE—Capt. James Harris (right), aide-de-camp to the commanding general of the Army Ordnance Missile Command, receives a certificate of achievement from the Army Ordnance Guided Missile School for outstanding job performance during an assignment there in 1958-59. Making the presentation is Maj. Gen. August Schomburg, Commanding General of AOMC. In the center is Mrs. Harris. Capt. Harris was deputy chief of the Nike missile branch and, during his assignment, initiated a new training method utilizing electronic equipment, which reduced training time by 30 per cent in the course of instruction for soldiers who use the missiles.

NIKE ZEUS

(Continued From Page 1)
 exacting requirements for a missile to maneuver and move fast enough to intercept intercontinental ballistic missile warheads traveling at speeds in excess of 15,000 miles an hour.

A complete tactical guidance system was carried in the missile fired today.

The unique Nike Zeus system is being developed by an Army-industry team to counter the threat posed by ICBMs. It incorporates radars of great range and accuracy and electronic computers which will automatically issue commands from the ground, steering the defending Zeus missiles to intercept ICBM warheads outside the earth's atmosphere.

Development of the guidance system to accomplish this is the responsibility of the Western Electric Company, systems prime contractor, under the supervision of the Army Rocket and Guided Missile Agency. Lear, Inc., is sharing in development of the missile guidance package.

The missile was fired Thursday from a near vertical position by a crew composed of personnel from Bell Telephone Laborator-

ies, responsible for overall system research and design, and Douglas Aircraft Company, subcontractor for missile development.

Nike Zeus missiles had previously been fired in test of missile structure and propulsion. A prototype of the underground cell planned as a tactical launcher was tested successfully in an earlier firing.

Facilities are currently being prepared in the South Pacific to test the Nike Zeus system under tactical conditions. Zeus missiles launched and controlled from Kwajalein Island in the Marshalls will be pitted against Atlas ICBM's fired nearly 4,500 miles away at Vandenberg Air Force Base, Calif.

Decatur Civitans Visit OGMS Today

Led by Mayor Murray Dodd, 50 members of the Civitan Club of Decatur are touring the Army Ordnance Guided Missile School today. (Dec. 7)

The visit was arranged by Col. Charles W. Eifler, commandant, and members of the OGMS staff who have recently spoken to the

Santa's Elves Helped By Boy Scout Troop

Boy Scout Troop 308 of Redstone Arsenal did their good turn for the month of November by collecting toys for Christmas Charities.

The toys were turned in to the Fire Station on Jordan Lane where firemen will properly repair and deliver them in their spare time.

The troop members and leaders of the troop on Saturday, Nov. 26th, went from door to door ringing doorbells and asking residents to donate toys to this cause.

Among the adults helping were the following assistant scoutmasters and troop committeemen:

PFC. Robert Jacobson, PFC. Peter Grant, PFC. Bill Whitaker, Capt. C. M. Maxwell, and Sgt. George Rauh, Troop Committee Quartermaster.

Col. Chatham Is New Operating Services Chief at ABMA

Lt. Col. Roy L. Chatham is the new Chief of Operating Services. He succeeds Lt. Col. John G. Stanley, who retired last month.

Col. Chatham hails from Leesburg, Ga., and is the son of Mr. and Mrs. J. H. Chatham of Atlanta. He was graduated from the University of Georgia in 1946, after a break in 1941, to enter the Army.

His first assignment was Camp Claiborne, La. Since then, he has served at Fort Hood, Fort Huachuca, Italy, Fort Knox, U. S. Army Section Greece, Aberdeen Proving Ground, and Purdue University. He received the Bronze Star in 1945 in Italy, and the Commendation Ribbon in September 1958, while serving as Senior Ordnance Advisor, First ROK Army, Korean Military Advisory Group.

Col. Chatham is married to the former Miss Claudia Lee of Leesburg, Ga., and they live at 6118 Whitesburg Drive, Huntsville.

J. W. "Doc" Herring became Deputy Chief of Operating Services, when Col. Chatham moved up to the Chief's job. "Doc" was formerly Executive Assistant to the Chief of Operating Services.

Civitans and other groups in the Tennessee River city.

Mayor R. B. Searcy of Huntsville greeted his Decatur colleague at the outset of the tour through the OGMS Air Defense Missile division.

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No. 626P—4 Dr. Sta. Wag., auto. trans., radio, heater, V8. \$1395.
- 1957 Chevrolet
No. 643AP—4 Dr. Sta. Wag., radio, heater, str. shift, V-8. \$1395.
- 1960 Chevrolet
Your Choice of 2—Corvairs. One std. shift, one Power Glide. Clean. You must see these.
- 1958 Ford
No. 548—4 Dr. Radio, heater, auto. trans., V-8. \$1095.
- 1959 Chevrolet
No. 549P—4 Dr. Impala Hardtop. Auto. trans., V-8, radio and heater. \$1995.

— "AS IS" MODELS —

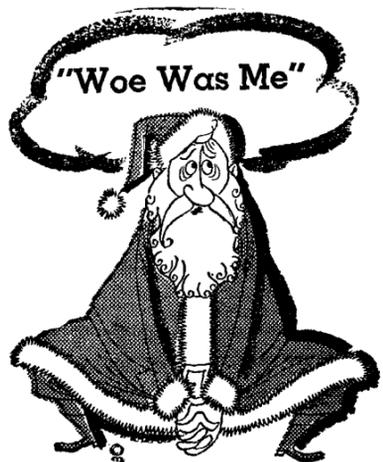
- 1953 Chevrolet
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- 1956 Oldsmobile
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No. 629P—4 Dr., radio, heater. One owner car. \$495.
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- 1953 Oldsmobile
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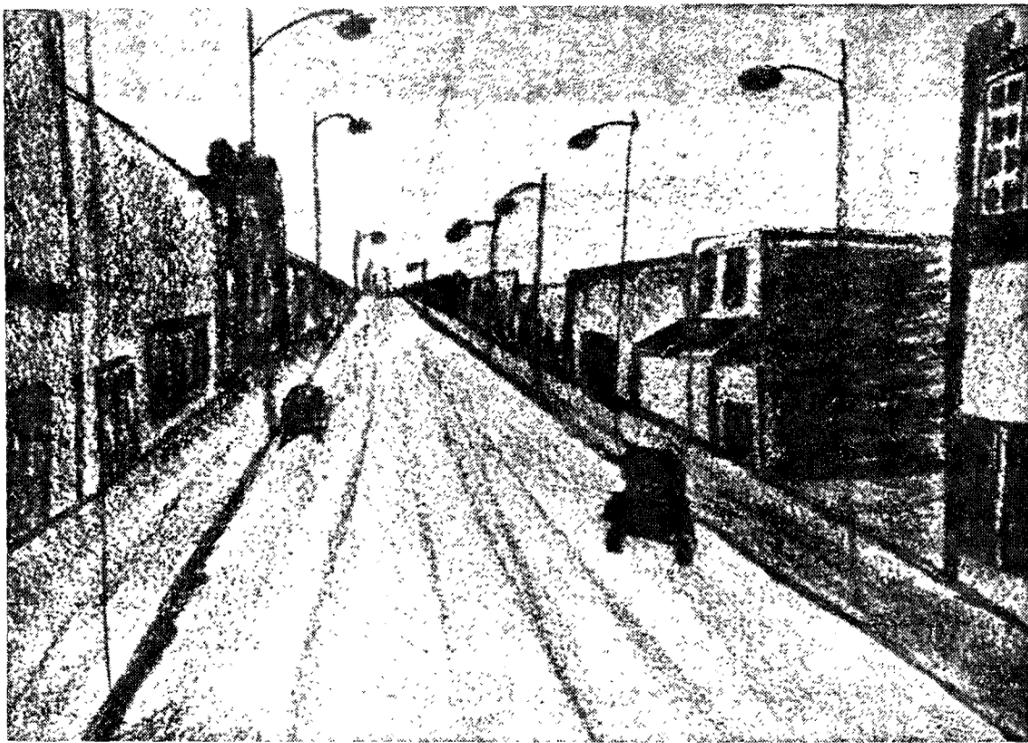


Social News

Wives Club Art Exhibit



The PAGODA is painted in oil by Mrs. B. Moody



MAIN STREET is a charcoal sketch by Harriett Potter

Art Group Exhibits Paintings at Club

The Art Group of the Redstone Arsenal Officers Wives Club held an exhibition in the Redstone Room at the Squirrel Hill Officers Club Friday and Saturday.

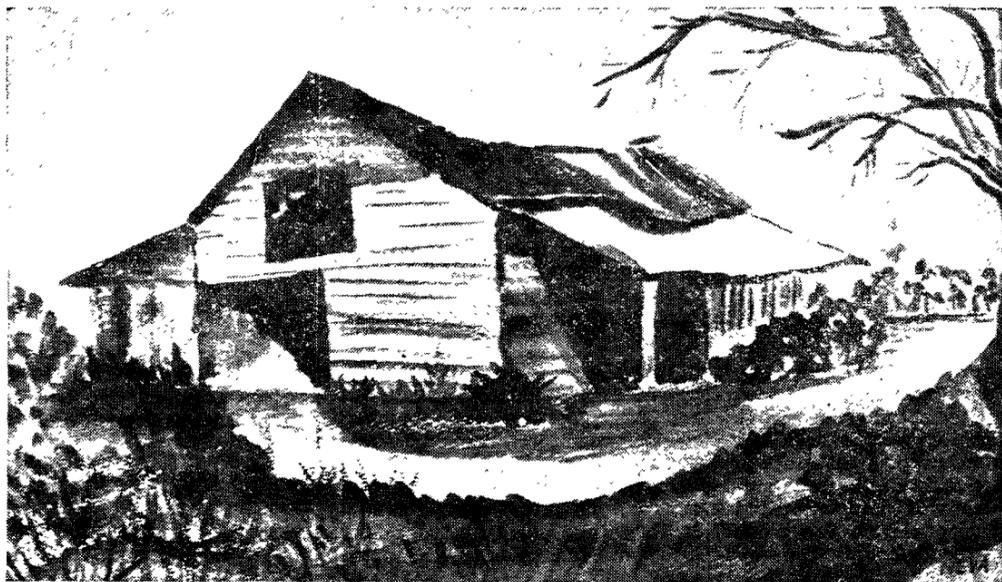
The group studies painting with Dr. John G. Kramer, who teaches philosophy at the University of

Alabama Extension Center in Huntsville and teaches several groups of artists both in Huntsville and in Decatur.

Media used by the artists ranged from pen and ink through charcoal and watercolors to oils.

Schools of expression were as varied ranging from the photographic conventional style to impressionism.

Approximately 20 painters were



"RAM-SHACK-LE" is a water color by Neval Muller

represented in the exhibition which opened with a sherry for members of the Wives Club on Friday afternoon.

Wives Club To Hold Silver Tea Tuesday

The Redstone Arsenal Officers Wives Club will hold the annual silver tea at the Squirrel Hill Officers Club on Dec. 13 between 2 and 4 p.m.

On post, reservations may be made with Mrs. M. W. Schroeder, ext. 877-5641; or Mrs. G. B. Borin, 877-4745.

Off post, reservations may be made with Mrs. F. R. Kirby, JE 9-1117 or Mrs. O. L. Smith, JE 9-7893.

All reservations must be made by noon on Dec. 12. Mrs. Kyle Washbourne, ext. 877-5959, will accept cancellations.

One of the gifts at the annual

Bridge Winners Are Mrs. Homer Finch, CWO Krembs

Bridge winners at the Squirrel Hill Officers Club on Monday night (Nov. 26) were Mrs. Homer Finch and CWO Eugene Krembs.

The party bridge group meets weekly at the club. Last week seven tables were in play.

Taking second place honors were Mrs. James Clift and Col. E. J. Payne. Host and hostesses for the evening were Maj. and Mrs. James Clift.

Club members who wish to play with the group may make reservations with Mrs. John Severeid, ext. 877-4841, by noon on Saturday.

silver tea is one Christmas tree ornament donated by each member.

Two Clubs Will Have Ladies Night at Joint Meeting

"The American Institute of Industrial Engineers and the Institute of Radio Engineers will hold a Joint Ladies' Night Social on Dec. 12. The meeting will be held in Hawk Room at the Redstone Arsenal Officers Club.

A social hour will begin at 6:00 p.m. with dinner at 7:00 p.m. followed by a Stereo-Hi-Fi demonstration and dancing to stereo music.

IRE members who did not receive tickets through the mail may call Lt. Col. James Davitt on the arsenal Ext. 876-4911 and AIIE members may call Capt. Paul Chasteen at Extension 876-4622.

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MRS. EDWARD POWELL models evening wear in NCO Auxiliary Fashion Show.

NCO WIVES CLUB FASHION SHOW

A fall fashion revue was held at the NCO Club recently with approximately 200 people attending.

Town & Country Shoppe furnished the fashions, and Charm Beauty Salon created the hair styles.

Mrs. Grady Kennedy, president of the Auxiliary narrated the show. Fall fashions in casual wear, suit and street wear, evening and dinner wear were modeled by Mesdames Guy I. Rossi, William Giles, David Byrd, Thomas Ervin, Robert Griswold, Melvin Collins, Harry Bullad, Carl Frankquet, and Edward Powell, all members of the NCO Auxili-

ary. Robbins Music Center donated an organ which was played by Steve Mortimer. Make up for models was supplied by Merle Norman Cosmetics.

Mrs. D. Brady won a certificate from Town & Country, Mrs. Melvin Collins was the winner of the permanent donated by Charm and Mrs. A. M. Davis won a hair style and set from Charm. A complete set of cosmetics was won by Mrs. Paul Barclif.

Hostesses for the evening were Mrs. Willard McCord, Mrs. John Kelly and Mrs. Robert Metcalf who served sandwiches and punch after the showing. Mrs. Sam Minton was in charge of the fashion show and Sgt. Joe Leslie was the photographer for the event.

Wives Golf Group Ends Season With Luncheon

The Golf Group of the Redstone Arsenal Officers Wives Club climaxed the season with a luncheon last Wednesday at the Squirrel Hill Officers Club after competition on the golf course.

The winners with 39-43 were Mrs. C. J. Payne, Mrs. Adonis Creel, and Mrs. F. E. Napper. Second with 51-43 were Mrs. H. E. Fite, Mrs. E. J. Kloos and Mrs. W. F. Kaiser.

Mrs. H. H. Wishart was named chairman for the coming season which begins next Spring; Mrs. W. F. Kaiser, vice chairman and secretary; and Mrs. J. M. Ivy, treasurer. The slate proposed by the nominating committee was unanimously adopted.

Winners of the continuous tournaments in play from Sept. 1 to Nov. 30 were:

Ladder tournament: Mrs. Glenn Crane, first flight; Mrs. E. W. Powell, second flight; Mrs. F. E. Napper, third flight.

Ringer Tournament: Mrs. C. J. Payne, first flight winner; Mrs. Stephen Albee, second; Mrs. H. H. Wishart, third; Mrs. F. E. Napper, Second flight winner; Mrs. J. N. Jean, second; Mrs. S. C. Holmes, third; Mrs. H. M. Murray, third flight winner; Mrs. J. R. Miller, second; Mrs. W. M. Clisson, third.

Most improved: Mrs. T. T. Moxley.

TOASTMASTERS TO HOLD CONTEST

Toastmasters Clubs of the Northeast Alabama Area will hold a Humorous Speech Contest at 7 p.m. Dec. 7 at the Huntsville Country Club.

Representatives from the Guntersville, Huntsville, Mason-Dixon, and Redstone Clubs will speak to a Ladies Night meeting of all the clubs.

Each club has held contests to select its best humorous speaker,

SOJOURNERS WILL INSTALL NEW OFFICERS FRIDAY

The 1961 officers of the Redstone Arsenal Chapter of the National Sojourners, military Masonic order, were installed here on Friday night (Dec. 2) with Brig. Gen. Harry R. Kutz (ret.) of St. Petersburg, Fla., presiding.

Gen. Kutz is the organization's area representative and served as assistant chief of Army Ordnance during World War II. He graduated from West Point in 1911 and has held many high Masonic offices.

Installation ceremonies were held at the Redstone Officers Club following a social hour and buffet dinner.

Gen. Kutz was accompanied here by Mrs. Kutz and Col. Foster W. Merker and Commander Luther W. Cartwright, both retired and of St. Petersburg, who are members of the Sojourners' National Committee of 33.

PARTY BRIDGE WINNERS NAMED

Winners at party bridge sponsored Thursday at the Officers Wives Club by the Redstone Officers Club were Mrs. R. G. Heller, high; Mrs. S. R. Pearson, second, and Mrs. A. C. McDermott, third.

The group had six tables in play during their last meeting this year. They will resume play the first week in January. Mrs. P. W. Simpson, ext. 877-5059 will take reservations for the next meeting.

The group meets on Thursday mornings at the Squirrel Hill Officers Club.

and the December 7th meeting is to select the best humorous speaker of the Northeast Alabama area.



COL. EIFLER . . . Guest Speaker

Col. Eifler Will Address Engineers

Col. Charles W. Eifler is scheduled as the principal speaker at tonight's meeting of the Northeast Alabama Chapter of the Alabama Society of Professional Engineers to be held at the Albert Pick Motel.

The social hour will begin at 6 p.m., dinner is scheduled at 7 p.m. and the meeting will begin at 8 p.m.

Col. Eifler, the guest speaker, is the Commandant of the Ordnance Guided Missile School. His topic will be "Wanted, Engineering Design for Management Processes."

Community Chorus Will Present Bach's 'Oratorio'

The Huntsville Community Chorus will present Johann Sebastian Bach's "Christmas Oratorio" at the First Methodist Church in Huntsville at 8:15 p.m. on Friday evening.

Kenneth C. Turvey is the conductor. Guest soloists will be Mrs. William Myers, soprano; Miss Marylynn Field, alto; Charles Ball, tenor and Charles G. Tedford, bass.

The organist will be William Dennison; pianists, Mrs. Pat Hamm and Max Camp; flutist, David Schneider.

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At the Service Club

At a glance, this coming week looks like it might be one of the most entertaining of the season. Our schedule here at the Service Club is so full of things to do that I don't know where to begin in telling you about them.

First, on Wednesday the 7th, we have an EM COUNCIL MEETING at 1330 hours. I'd like to take a moment, if I may, to thank the EM Council for the fine job they have been doing to help at the Club. We do appreciate it. Wednesday night, Ray Pisani will be giving additional instructions on the fine points of the Tango and Foxtrot at 1930 hours.

Hear this! Hear this!!—All-Army Entertainment Contest Winners—"ROLLING ALONG of 1960" will perform at the Post Theater on Dec. 8. See them at 1830 or 2030 hours. All military personnel and their dependents over 14 years of age are cordially invited. DON'T MISS THIS GREAT SHOW.

The SHUTTER CLUB will meet before the show at 1800 hours to organize snapshot sessions and get off to a new start.

We will have a CHESS CONTEST Friday, December 9th at 2000 hours. On Friday and Saturday night, the Show Production Group will hold rehearsals from 1330 hours to 2200 hours.

Our BIRMINGHAM TOUR will leave the Service Club at 1430 hours on Saturday Dec. 10. This tour will include a visit to lovely Vulcan Park, a trip up inside

the huge Vulcan Statue, and a Buffet Supper at the YMCA, sponsored by the USO Club in Birmingham. There will, no doubt, be dancing after the supper, so this should be an enjoyable tour from any viewpoint.

Coffee and donuts will be served from the kitchen on Sunday morning at 0930 hours. I really enjoy Sunday morning coffee sessions. Some are so bright and some so bleary-eyed. At 1330 on Sunday afternoon, there will be a pinochle contest and at 1900 hours Sunday night, we will have a record dance. So drop by and enjoy yourself.

Monday night, the 12th, the 55th U. S. Army Band will present a concert at the Service Club at 2000 hours. This program is a must for all music lovers, and as most of us are music lovers, we don't have our regular Monday night Bingo games on this particular night.

The Show Production Group will present two, one-act plays on Tuesday night the 13th "Hello Out There" and "Maker of Dreams", at 2000 hours. I urge you all to be in the audience. If any of you saw "Witness For The Prosecution," you know that you can expect some excellent acting from this group. The Bridge Club will meet at 1930 hours in the small lounge.

HISTORY: On Saturday night, Nov. 26, a happy group gathered here at the Club to eat spaghetti. For all of you appreciate gour-

Accountants to Meet At Rocket Auditorium

The Federal Government Accountants Association will meet at the Rocket Auditorium at 7:30 p.m. tomorrow night, according to an announcement by Jack L. Edgar, president.

Moderator will be T. Jack Gary of Richmond, Va., an outstanding authority on finance and accounting, according to Edgar.

Gary received a bachelor's degree at the University of Richmond and is a certified public accountant. Among the positions he has held are: Accounting Officer for the National Housing Agency; Deputy Comptroller of the Public Housing Administration; Accounting Advisor to the Command-

ants, that delicious spaghetti was prepared by Betty Hayes, with the able assistance of Tom George, Jim Lynch and Tom Koch.

The winners of one of our recent pinochle contests were George W. Reese, 249th Ord. Det., and Joseph Beeman, Hq. & Hq., OGMS. Taking into consideration all of the excellent pinochle players at Redstone, that must have taken skill. Congratulations!

On Sunday night, Nov. 27, we had a record dance that really shook the walls. The Birmingham girls were here, and quite a few of the Huntsville Junior Hostesses came out for the dance.

Keep your eyes on this column because we have some holiday parties coming up that you won't want to miss. These include a semi-formal dance, a "Trim-the-Tree" party, and many others. Bye for now, until next week.

ant of the U. S. Coast Guard; and Associate Director of Accounting Systems Division of General Accounting Office and others.

His subject will be "How May Cost Accounting be Used as a Tool of Management?"

The panel will include: James G. Thomas, Rohm and Haas; William L. Vernon, Brown Engineering; L. G. Jackson, Chrysler; William Pate, Thiokol Corp; Earl R. Ford, Jr., R. & D. ARGMA; Edwin Pearce, ABMA; Marvin T. Moring, Redstone; Francis T. Porges, AOMC.

Arrangements have been made

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with the security guards to allow individuals without arsenal badges to attend the meeting. Visitors should enter through Gate 3.

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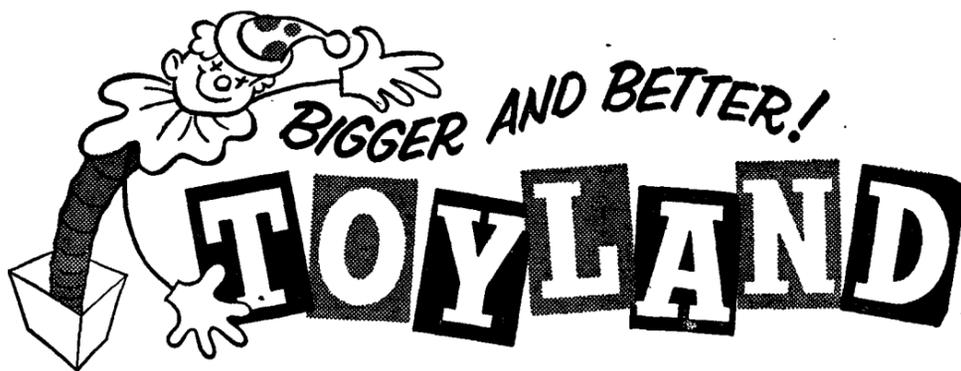
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Rowe Named Chief Of ARGMA Office

Delman E. Rowe, a native of Owensboro, Kentucky, has been appointed Chief of the Advanced Components and Techniques Laboratory at the Army Rocket and Guided Missile Agency.

The announcement of the electronic expert's appointment was made last week by Col. Raymond W. Burkett, Chief of ARGMA Research and Development Operations.

Whittier College awarded the new Chief a B. A. degree in 1942. He majored in physics and mathematics. Prior to 1940, Rowe had over ten years' experience in radio and electronic equipment design and production.

During World War II, he instructed at a Signal Corps school at the Presidio, San Francisco.

After several years on the staff of the Radiation Laboratory at the Massachusetts Institute of Technology, he served with the National Bureau of Standards, the Naval Aviation Ordnance Test Station in Virginia, and the Naval

EXAMS LISTED CIVIL SERVICE

The U. S. Board of Civil Service Examiners recently issued announcements of four unassembled examinations for the following:

Announcement No. 5-35-9(60): Tabulation project planner, GS-9 (\$6435 per annum); and tabulation project planner supervisor GS-11 (\$7560 p.a.).

Announcement No. 5-35-10(60): Intelligence research specialist, GS-9, GS-11, GS-13 (salaries ranging from \$6433 to \$12,210 p.a.).

Announcement No. 5-35-12 (60):

Ordnance Laboratory at Corona, Calif. He served as Chief of the Engineering Division of the Fuze Department of this unit. He comes to Redstone from this post.

A veteran of work on early missile projects, such as Pelican and Bat, Rowe has had experience in guided missile design, instrumentation, and testing. He holds several patents for special radio frequency switches and attenuators. He is a senior member of the Institute of Radio Engineers.

Mrs. Rowe and a son, aged 13, will join him in Huntsville shortly. A daughter is a freshman at Stanford University.



OPENING DAY—The Army's first Value Analysis-Engineering seminar for missile systems opened Nov. 29 at Redstone Arsenal. The meeting was sponsored by the Army Ballistic Missile Agency and the Martin Company of Orlando, Fla. In attendance at the opening session were (left to right), Col. Oliver M. Hirsch, Director of ABMA's Industrial Operations; George T. Willey, vice president and general manager of Martin-Orlando; Brig. Gen. Richard M. Hurst, ABMA Commander; and Arthur E. Harvey, Jr., chief of ABMA's Value Analysis Office. Gen. Hurst proposed a 25 percent reduction in missile costs during his presentation, which opened the two-day meeting.

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Announcement No. 5-35-13 (60): Mess attendant, W-2 (\$1.62 p.h.).

The first three have a closing date of "further notice" and the fourth closes today.

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COL. McCLOSKEY OPENS 1960-61 BASKETBALL SEASON AT ARSENAL

Col. McCloskey Opens 1960-61 ... Col. Owen T. McCloskey, Redstone Arsenal Post Commander, officially opened the 1960-61 RSA basketball season Monday night when he presented the game ball to the captains of Hq USAG and Co A OGMS and the officials in ceremonies prior to the feature game.

Hq. USAG, 1959-60 Basketball Champions, and Co. A OGMS, 1959-60 Runner-ups collided in the season's opening contest. The second game featured Hq. OGMS and ABMA.

At this time there are twelve teams in the RSA Unit Level Basketball League. These teams will play eleven games to determine the RSA Post League Champion and Runner-up teams.

After the regular season the "Little Dixie Classic", a double elimination tournament, will be featured as an added attraction.

A championship and runner-up trophy, as well as a MVP award, will be awarded for this 'Classic.'

The Third Army Tournament Team from Redstone Arsenal will consist of an All-Star squad picked by the basketball coaches and officials.

Last year Redstone Arsenal All-Stars placed fourth in Third Army competition at Ft. Benning.

Awards Presented At Football Banquet

The football awards banquet held in honor of the 1960 Redstone Arsenal Football Championship Hq. USAG team and the 1960 OGMS All-Star team, winners of the "Turkey Bowl Classic" Trophy, was held at the NCO Club, Nov. 28.

Master of ceremonies was Maj. Oscar E. Hufnagel, Special Services Officer, who introduced guest speaker, former All-American, Fred Sington.

Col. Owen T. McCloskey presented: The RSA Football Championship Trophy to Hq. USAG coach, SP/4 Michael Cassidy;

The Runner-up Trophy to Hq. OGMS coach, 1st Lt. Joel Thomas.

Outstanding Back Trophy to PFC Leroy McElhinny, Hq. OG-

SCHOOL TROOPS COMMAND BOWLING LEAGUE

Standings as of Nov. 22

	Won	Lost
Co. A, Team 1	31	17
Signal Det	30	18
Co. B, Team 1	23	25
1st ETC	23	25
Co. B, Team 2	22	26
Hq. Co.	22	26
Co. A, Team 2	22	26
2nd ETC	19	29

200 Games:
Schlett, 216.
Heath, 215.
Rhodes, 214.
Mountz, 208.
Kirby, 203.
Ditz, 201.

SCHOOL TROOPS COMMAND BOWLING LEAGUE

Standings As of Nov. 29

	Won	Lost
Signal Det	34	18
Co. A, Team 1	32	20
1st ETC	27	25
Co. B, Team 1	26	26
Co. A, Team 2	25	27
Co. "B" Team 2	22	30
Hq. Co.	22	30
2nd ETC	20	32

600 Series
Fites 603.
200 Games:
Jones, D. 244.
Fites, 202, 201, 200.

Here's today's safety tip: Never jam on your car brakes on ice or snow-covered roads. Instead, pump the brakes slowly. The best way to drive on slippery pavement is slow enough so that you won't have to come to a sudden stop.

MS;

Outstanding Lineman Sp/4 Michael Cassidy, Hq. USAG; and the RSA 'Little All-American' Certificates.

Captain Richard C. O'Brien, Hq USAG Commander, distributed the individual awards to the Championship USAG Team members.

The final award of the evening for "Coach of the Year" which was received by Lt. Joel Thomas, Hq OGMS coach, from 1st Lt. Edward O. Buckbee, Sports Officer.



SPECIAL ANNOUNCEMENT—SP4 James B. Stark and Pvt. August Kaluzny place a special announcement of the "Rolling Along of 1960" show which will play tomorrow night at the Post Theater. The show features winners of last year's all-Army talent contest. SP4 Kaluzny designed and painted the sign; both men are members of the Special Services staff.

ALL-ARMY SHOW PLAYS HERE TOMORROW NIGHT

The U. S. Army' entertainment spectacular, "Rolling Along of 1960", will perform at Redstone Arsenal's Post Theater for two shows, 1830 hours and 2030 hours tomorrow.

"Rolling Along of 1960" is made up of 24 male performers who were declared Grand Finalists in the recent 1960 All-Army Entertainment Contest.

Maj. O. E. Hufnagel, Special Services Officer, was quoted as saying, "Being Redstone Arsenal's major entertainment event of 1960, Special Services Division takes great pride in bringing this highly accepted Soldier Soldier to the populace of Redstone.

"Rolling Along of 1960" demonstrates the successfulness of a Soldier Show, given proper support and top flight entertainment acts. This show is a free 90 minute performance.

Admission will be restricted to

ARMY ENGINEERS LET CONTRACTS FOR CHANGES

Col. R. W. Love, U. S. Army District Engineer at Mobile, Alabama, announced today the award of two contracts for the modification of the mezzanine building (Bldg. No. 4500) and for the construction of a fire and rescue station at Redstone Arsenal, Alabama.

An award in the amount of \$75,000 was made to the G & R Construction Company of Columbus, Miss., for the modification of mezzanine of an office building. This modification will provide additional space for the Army Rocket and Guided Missile Agency.

The Mississippi firm will install windows, partitions, acoustical tile ceilings, asphalt tile floors, and wall and ceiling insulation;

military personnel, dependents over 14 years of age, and guests.

the alteration of the existing ceramic tile floor and plastering; the provision of utilities, including air conditioning; and interior painting.

Construction will begin the middle of December and will be completed in June 1961. The Corps of Engineers sent advance notices soliciting bids on this work to 723 contractors and material suppliers, furnished plans and specifications on request to 13 prime contractors and 19 sub-contractors and material suppliers, and received 5 bids from prime contractors.

A second award for construction at Redstone was awarded to the Greenhut Construction Company of Pensacola, Florida, in the amount of \$63,458.60 for the construction of a fire and rescue station. Greenhut will construct a masonry two-stall building on a concrete floor slab, with concrete roof deck on steel bar joists. The building will include heating and plumbing system and electrical work.

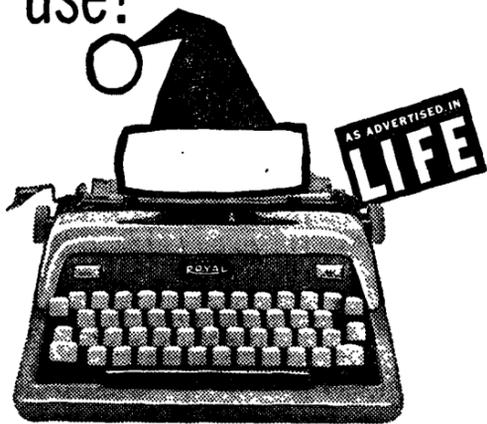
The job will include exterior utilities and paving. Construction will begin early in December and will be completed ready for use in late August 1961. The Corps of Engineers sent advance notices soliciting bids on this work to 966 contractors and material suppliers, furnished plans and specifications on request to nine prime contractors and 25 subcontractors and material suppliers, and received 3 bids from prime contractors.

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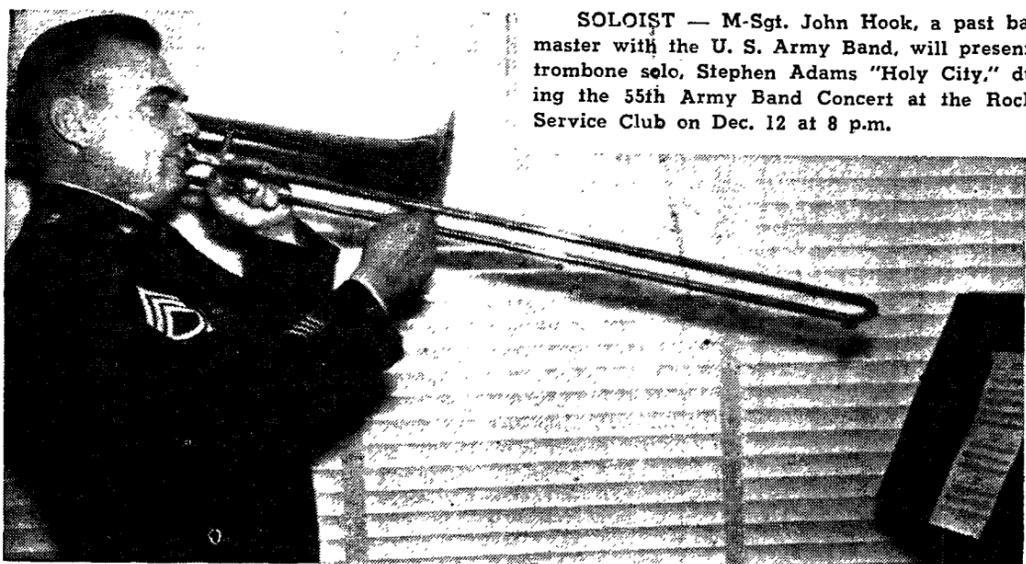
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SOLOIST — M-Sgt. John Hook, a past band master with the U. S. Army Band, will present a trombone solo, Stephen Adams "Holy City," during the 55th Army Band Concert at the Rocket Service Club on Dec. 12 at 8 p.m.

Movie Schedule

Wednesday, Dec. 7, "Many Rivers to Cross" (Family) starring Robert Taylor and Eleanor Parker. Time 1800 and 2030 hours.

Thursday, Dec. 8, No Movie. All-Army Entertainment Show "ROLLING ALONG OF 1960." Time 1830 and 2030 hours. **DON'T MISS THIS SPECIAL ATTRACTION LIVE ON OUR STAGE. FREE!**

Friday, Dec. 9, "I Aim at the Stars" (Family) starring Curt Jurgens and Victoria Shaw. Time 1800 and 2030 hours.

Saturday, Dec. 10, SPECIAL MATINEE "Rock-A-Bye Baby" (Family) starring Jerry Lewis and Marilyn Maxwell. Time 1000 hours.

Saturday, Dec. 10, "Journey to the Center of the Earth" (Family) starring Pat Boone and Arlene Dahl. Time 1800 and 2030 hours.

Sunday-Monday, Dec. 11-12, "A Breath of Scandal" (Mature-Young People) starring Sophia

Loren and John Gavin. Time Sunday 1400, 1800, and 2030 hours. Time Monday 1800 and 2030 hours.

Tuesday, Dec. 13, "Hit the Deck" (Family) starring Debbie Reynolds and Tony Martin. Time 1800 and 2030 hours.

This safety tip may save your life: The best way to correct a skidding automobile is to turn the front wheels in the direction the rear of the car is skidding. Never, slam on the brakes.

Operati'n Searchlight Ends December 31

The Army's suggestion campaign called "Operation Searchlight" will close 31 December.

In order to provide a Capstone to this campaign, the Secretary of the Army has announced that special awards will be established

at all levels for the most beneficial Searchlight suggestion submitted by civilian and military personnel during the 1 January - 31 December 1960 period.

In addition to awards which will be made by the Secretary of the Army and the Chief of Ordnance, each installation commander will recognize the individuals submitting the three best suggestions within his command. In view of the normal lag in adoptions, awards will not be granted until after 31 March 1961. This will allow time to process all suggestions submitted through 31 December 1961.

Thus, any suggestion (military and civilian) submitted during Calendar Year 1960 and adopted by 31 March 1961 will be considered.

The Incentive Awards Committee urges all employees to participate in this program and submit their suggestions to improve operations. Remember, to be eligible for consideration for the special searchlight awards, your suggestion must reach the Incentive Awards Office no later than 31 Dec.

Safety tip for use today: In extremely cold weather, slow down as you reach the crest of a hill. There may be ice on the road on the reverse side.

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SAFETY SPEAKER TALKS to Rohm & Haas employees. Mr. J. W. Beyer, representative of the Ordnance Field Safety Office, Charlestown, Ind., is shown addressing one of the employee groups of the Redstone Arsenal Research Division of Rohm & Haas Company.

ROHM AND HAAS EMPLOYEES HEAR SAFETY LECTURE

The teaming up of the Army and private industry was exemplified at the Redstone Arsenal Research Division of Rohm &



RUDOLPH NAMED GENERAL COUNSEL

Edward M. Rudolph, a graduate of the University of Alabama and a member of the American Bar Association, has been appointed General Counsel of the Army Rocket and Guided Missile Agency by Col. John G. Zierdt, Agency Commander.

Aspects of Safety."

Beyer is one of the instructors in the School for Ordnance Safety at Charlestown, Ind., and teaches many subjects, including the one he stressed at Rohm & Haas.

The speaker stressed the fact that safety is an individual responsibility, and illustrated his talk by placing the blame for most accidents on the "Four Imps" which he displayed to the groups.

These four Imps were: IMPatience, IMPulsiveness, IMProvision, and IMPunity.

He showed the operation of the imps by describing accidents that occurred at a mythical Ordnance installation - Jagged Hole Arsenal - where the contractor was the "Foamin' Hops Co."

The speaker was introduced by Allen R. Deschere, general manager of the local Division.

ency Commander.

The appointment became effective on Nov. 30 when he replaced Robert E. Gunter. Gunter had been serving as interim chief since last June.

Rudolph began his civil service career in the office of the Judge Advocate General, Department of the Army, in Washington in 1951 after practicing law in Albertville, Ala.

He came to Redstone in 1956 as a Special Counsel and is licensed to practice before the U. S. Supreme Court, the Supreme Court of Alabama and the U. S. Court of Military Appeals.

A native of New York, he is a former Marine Corps enlisted man with service on Guadalcanal

A hint to the safety-wise: Be able to see traffic Dangers. On snowy mornings when your windows are covered with ice, snow and frost . . . Clean them off before you start.



E. M. RUDOLPH

during World War II.

The Rudolphs and their three children reside at 503 E. Alabama Ave., Albertville.

Haas Company.

For two days last week a representative of the Ordnance Field Safety Office, Jack W. Beyer, talked to the Rohm & Haas employees on the "Psychological

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January 2 — Winter Quarter 1960-61 — March 21

MONDAY - WEDNESDAY 5:50-7:55	Sem. Hrs. Cr.	TUESDAY - THURSDAY 5:50-7:55	Sem. Hrs. Cr.
Accounting 3, Accounting Analysis	3	Accounting 1, Principles of Accounting	3
Art 7a, 7b, Design and Orientation (Mon. 6-10)	1½	Accounting 100, Advanced Accounting	Cert. Cr.
Biology 2, Animal Biology (Lab. Fri. 6-10)	4	CE 119, Industrial Structures	3
Chemistry 1, General Chemistry (Lab. Fri. 6-10)	4	Economics 12, Principles of Economics, Part 2	3
Drawing 5, Fundamentals of Mechanical Drawing (Lectures only)	2	EE 52, Fundamentals of Electrical Engineering II (Problem session Fri. 6-9)	3
Drawing 11, Engineering Drawing (Lectures only)	2	English 2, English Composition	3
EE 95, Electrical Circuits (24 lab. hrs. substitutes for 8 lecture hrs.)	3	English 45, English Classics	3
EE 158, Transmission Lines, Communication & Power (5:30-7:30)	3	English 152, Studies in the English Novel	3
English 03, Fundamentals of English	NC	French 1, Elementary French	3
English 1, English Composition	3	German 3, Intermediate German	3
English 41, English Composition for Engineers	3	History 48, History of England since 1660	3
English 65, Shakespeare	3	IE 106, Operations Research	3
History 2, History of Western Civilization	3	Mathematics 9, College Algebra	3
IE 54, Engineering Organization	3	Mathematics 49a, Calculus & Analytical Geometry	3
Marketing 1, Industries and Commerce	3	Mathematics 51, Calculus	3
Mathematics 02, Plane Geometry	NC	ME 131, Kinematics of Machinery (5:15-8:00)	4
Mathematics 15, Trigonometry	3	MH 155, Mechanical Vibrations (5:30-7:30)	3
Mathematics 25, Analytical Geometry & Calculus	3	MH 161, Advanced Mechanics of Material, I	3
Mathematics 76, Solid Analytical Geometry	3	Physics 5c, Technical Physics (Mechanics) (Lab. Mon. 5-8 or Fri. 6-9)	3
ME 136, Thermodynamics II	3	Physics 72, Intermediate Mechanics (Problem period required)	4
MH 55, Statics	3	Russian 2, Elementary Russian	3
Philosophy 6, Ethics	3		
Sociology 7, Rural Sociology	3	TUESDAY - THURSDAY 7:55-10:00	
Speech 2, Elementary Public Speaking	3	Astronomy 4a, Solar and Stellar Astronomy	2
		EE 54, Electric Circuits I	3
MONDAY - WEDNESDAY 7:55-10:00		English 1, English Composition	3
Accounting 2, Principles of Accounting	3	English 123, The History of the English Language	3
Business Law 51, Introduction to Business Law	3	Finance 51, Money and Banking	3
Citizenship (Wed. only)	NC	German 2, Elementary German	3
Economics 11, Principles of Economics, Part 1	3	History 22, The United States since 1865	3
English 2, English Composition	3	IE 103, Industrial Hygiene and Safety	2
English 6, Literature	3	Mathematics 15, Trigonometry	3
English 51, Fiction Writing (extra sessions required)	4	Mathematics 25, Analytical Geometry & Calculus	3
English 71, Poetry and Prose of the Enlightenment	3	Mathematics 49b, Calculus & Analytical Geometry	2
IE 56, Engineering Statistics and Industrial Applications	3	Mathematics 98, Introduction to the Theory of Differential Equations	3
Mathematics 01, Elementary Algebra	NC	MTE 97, Principles of Foundry Operations	3
Mathematics 9, College Algebra	3	Physics 6c, Technical Physics (Heat, Light & Sound) (Lab. Wed 5-8 or Fri. 6:30-9:30.)	3
Mathematics 11, Introductory College Math	3	Physics 73, Introduction to Nuclear Physics	3
MH 64, Mechanics of Materials	4	Psychology 3, General Psychology	3
Physics 7c, Technical Physics (Electricity & Magnetism) (Lab. Thurs. 5-8 or Fri. 7-10)	4	Sociology 9, Population and Society	3
Political Science 3, Functions of American Government	3		
Psychology 7, Psychology of Adjustment	3		

GRADUATE EDUCATION COURSES
Education 311, Principles of Guidance—3 hours credit
Education 233, Public School Organization and Administration—3 hours credit
These classes will meet on Monday evenings from 6:00 to 9:00 p.m. Classes will begin Jan. 30 and end May 25. Applicants for these classes must be admitted to the graduate school of the University prior to attending classes. Information concerning graduate admission requirements is available at the Center offices.

Dr. Fain Guthrie
Dr. George Howard

MISSILE SCHOOL CITES PROGRESS IN EIGHT YEARS

The Army Ordnance Guided Missile School here now compares in size of student body and faculty and value of buildings and equipment with leading universities across the nation.

Now observing its eighth anniversary, the Missile School uses almost 100 buildings and facilities valued at \$65,000,000. Its staff and faculty of 600 train 5,000 men per year from all branches of the U. S. armed forces and 12 Allied nations. A total of 22,000 students have been graduated since December of 1952.

These statistics are made pub-

lic during the anniversary month by Col. Charles W. Eifler, commandant of the Army's only school devoted entirely to missile training. It is an element of the Ordnance Training Command.

The curriculum now includes 61 resident courses covering eight missile systems: Nike-Ajax, Nike-Hercules, Corporal, Redstone, La-Crosse, Hawk, Jupiter and the new Pershing. Soon to be added are courses in the Sergeant, improved Hercules and the Nike-Zeus "anti-missile missile."

Col. Eifler said the school in its eight years has amassed a number of notable "firsts."

One is the preparation of textbooks, lectures and training aids or subjects which had not been taught formally until the Missile

School was established.

Another is the development of advanced techniques for the use of closed circuit television and group communications equipment in technical training. As a result of these innovations, the Missile School now regularly transmits televised courses of instruction to such Army training centers as the U. S. Military Academy, the Quartermaster School and the Armor School, avoiding costly duplication of faculty and facilities.

The school also possesses the free world's first missile library, a unique collection of some 50,000 books and treatises on all aspects of missiles and rockets.

Additionally, the Missile School trains and activates numbered missile maintenance and support

Births at Post Hospital

David Karl Polson, 8 lbs., 1/2 oz., Nov. 24, son of SP4 and Mrs. Karl H. Polson.

Denise Louise Crochet, 7 lbs., 1/2 oz., Nov. 25, daughter of Capt. and Mrs. Elby J. Crochet.

Cynthia Diane White, 6 lbs., 15 1/2 ozs., Nov. 26, daughter of SP5 and Mrs. Melton R. White.

Cheryl Jean O'Rear, 6 lbs., 11 ozs., Nov. 27, daughter of A/1c and Mrs. Bobby G. O'Rear.

Lisa Ann Stewart, 7 lbs., 14 1/2 ozs., Nov. 27, daughter of SP4 and Mrs. Phillip A. Stewart.

Mark Joseph Caffrey, 7 lbs. 1/4 ozs., son of CWO Joseph G. Caffrey.

Charles Ransom Hasty Jr., 6 lbs., 8 ozs., Nov. 30, son of 1st Lt. and Mrs. Charles R. Hasty.

units that are assigned to combat forces throughout the free world.

Col. Eifler said the Missile School has been visited this year by inspection teams from more than 100 civilian universities and military schools interested in adapting some of the ultra-modern training techniques developed here.

"So Long as man possesses the determination to be free, there will be a need for the Infantryman."

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SPORTSMAN. 17 jewels. Shock-resistant. Unbreakable mainspring. Sweep-second hand and a luminous dial. **\$19.95**

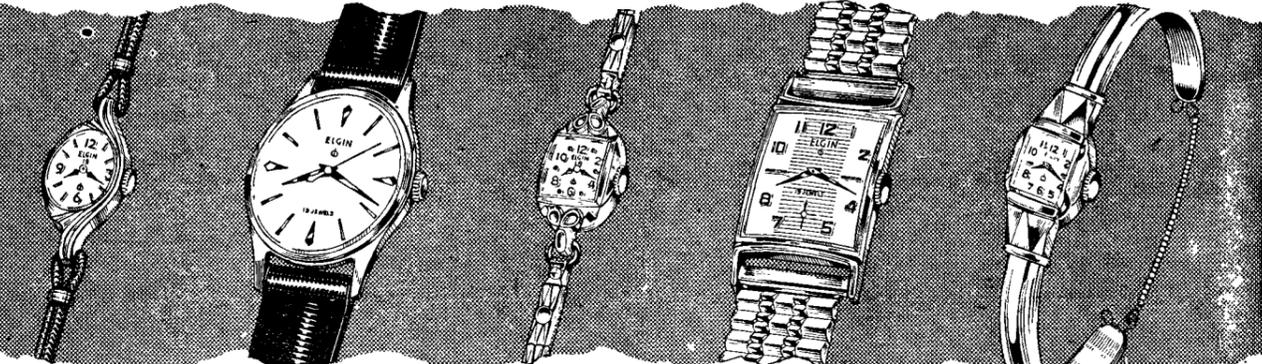
STARLITE. Dainty, feminine and dependable. 17 jewels. Shock-resistant. It has an unbreakable mainspring. **\$19.95**

SPORTSMAN. Truly handsome styling. 17-jewel movement. Unbreakable mainspring. Sweep-second hand, luminous dial. **\$24.95**

STARLITE. A gift to enjoy! 17-jewel movement. Lovely and dependable. Shock-resistant with an unbreakable mainspring. **\$29.95**

SPORTSMAN. Handsome and rugged. A perfect gift. 17 jewels. Shock-resistant. Unbreakable mainspring. **\$29.95**

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Col. R. W. Van Wert To Direct Field Service Operations

Col. Robert W. Van Wert has been appointed Director of Field Service Operations of the Army Rocket and Guided Missile Agency, it was announced by Col. John G. Zierdt, Agency Commander.

Col. Van Wert, a veteran of 19 years military service, including action in the South Pacific with the First Cavalry Division during World War II, assumed his new position after a tour of duty at the Erie Ordnance Depot where he served as Director of Supply Operations.

A native of Kenil, N. J., he enlisted in the Army in 1941 and was selected for Ordnance OCS after rising to the rank of Sergeant. Upon graduation he was commissioned a second lieutenant of Ordnance.



COL. VAN WERT

His varied career includes assignments in Germany in the Office of the USAREUR Ordnance Chief and in Turkey where he served as a member of the Military Assistance Advisory Group.

55TH ARMY BAND WILL PRESENT YULE CONCERT

The 55th Army Band will present a Christmas concert at the Rocket Service Club at 8 p.m. on Dec. 12 with three featured soloists.

The Holy City by Stephen Adams will be presented by M/Sgt. John Hook, past bandmaster with the U. S. Army Band, on the trombone.

SP4. Paul J. Carollo, who studied at the U. S. Naval School of Music, will play Cantique de Noel by A. Adams. Carollo's instrument is the cornet.

E. P. Tosti's Preghiera will be played by Sgt. Oscar L. Howard on the baritone horn. Sgt. Howard, who has been playing with Army bands for the past 19 years, is anticipating retirement next June.

The full band will present the following:

Christmas Fantasy, Clifford P. Lilly; La Feria Suite, P. Lacome; The Whistler and His Dog, Arthur

Pryor. From 1954 to 1957, Col. Van Wert held a key assignment in the Office of the Chief of Ordnance, Department of the Army, in Washington.

As Director of Field Service Operations he will be responsible for managing ARGMA's far-flung supply and maintenance support activities for rockets and guided missiles. This includes several operational systems in the hands of troops deployed both in the U. S. and overseas.

He directs an organization of 1,200 military and civilian personnel representing many specialized skills and professional fields, some of them located at sites throughout the country where guided missile equipment is in use.

Col. and Mrs. Van Wert, their twin daughters, Nancy and Roberta, 10, and son Robert Jr., 6, reside on Restone Arsenal at 56 Bomford Drive.



RECEIVES ARMY COMMENDATION — Chaplain (Maj.) James H. Goewey (in bed) receives the Army Commendation Medal while recovering from a heart attack at the U. S. Army Hospital recently. Chaplain Goewey, was stricken on the eve of his retirement. Col. Owen T. McCloskey, Redstone Arsenal Commander (left) presented the medal in the presence of Mrs. Goewey and Col. Harry C. McClain, Post Surgeon.

"FOUR COINS" VISIT

The "Four Coins", famous quartet of radio, television, and motion pictures, toured Redstone Arsenal

Sleigh Ride, Leroy Anderson; and Winter Wonderland, Dick Smith.

recently. "The Four Coins" hail from Pittsburgh, Penn., and are known for golden record titled "Shanghaia."

Accompanying the quartet were manager, John Mathias, quart business manager, Z. Politis, N. SA, and Mr. C. Apostolakis—A MC.

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How much do you need?

Every day HFC makes thousands of loans to help people accomplish the things mentioned above—and for many other reasons. See sample payment table for amount you need. Choose from a wide variety of loan amounts and repayment plans. Then, for helpful service, phone or visit our office today.

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Cash You Get ↓	MONTHLY PAYMENT PLANS		
	30 months	24 months	12 months
\$500	\$20.31	\$24.73	\$46.81
700	28.17	34.30	64.92
1000	40.05	48.76	92.30
1500	59.80	72.80	137.80
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2 Door "6", very low mileage, one owner.

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Country Sedan, one owner, auto. trans., radio, heater, nice and clean.

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2 door, one owner, local car, trade in on new Rambler. Low mileage, fully equipped.

1955 Ford Station Wagon ----- \$575.00

1958 Plymouth Station Wagon \$1475.00
(Custom Sub), 21,000 actual miles, one owner, push-button drive, radio & heater, just like new.

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1955 Mercury
4 door, radio and heater, automatic trans., tutone green.

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1954 Olds '88'
4 door, power steering and power brakes. Runs good.

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LITTLE THEATER

To Present Emperor's New Clothes Saturday

The Huntsville Little Theatre is rehearsing for its annual children's play, this year "The Emperor's New Clothes" scheduled Saturday and Sunday, Dec. 10 and 11 at the Huntsville high school auditorium.

Curtain times are 10 a.m. and p.m. on Saturday and 2:30 p.m. on Sunday afternoon. A special benefit performance for the Harris Home, in Huntsville will be given Monday evening, Dec. 12 at Cavalry Hill School.

"The Emperor's New Clothes" is a comedy in three acts about an Emperor who cares for nothing but clothes. The minister of the robes plays on this weakness to rob the royal weavers and persecute the Empress. Two rolicking rogues, Zan & Zar, con-

vince the Emperor that they can weave a stuff which cannot be seen by anyone unfit for the position he holds. Everyone is afraid to confess that he cannot see the new clothes the Emperor orders. The situations which result enable the rogues to save the Empress and the weavers and expose the villainy of the minister, Han.

The Emperor proudly walks in procession clad in nothing but a straight little shirt to show his people the glory of his new clothes. The Emperor and Empress will be Gerald Cortwright and Pat McKnight, respectively.

The royal weavers will be Florence Goodrich and Ruth Sachs. A fourth grader from Randolph School, Jean Goodrich, is the little child. The balance of the cast includes Joe Richter, Maj. George Parker, Edith Nilsson, Roy Achter, Dick Puckett, Rondia Widner, France Samples, Ann Minor, Anne Spencer, Steve Johnston, Jeri Jackson, Florence Clark and Jim Justice.

Peggy Willingham is directing the play. Assistant director is Ginger Sayers. Bob Bigbee made the set model which was constructed in full scale by Charley Smith under the direction of Robert Hubbard, technical direct-

senal Boy Scout activities as a member of the Troop Committee. Col. Nelson is also an associate member of Sigma Xi, a scientific fraternity; a member of the Association of the U. S. Army, and of Theta Chi, a fraternity at the University of Wisconsin. His residence is at 428 Hughes Dr., Redstone Arsenal.

Children to Have Christmas Party

The annual Christmas party for the military dependent children ages from infant to nine sponsored by the Joint Activities Council will be held on Post Dec. 21.

The schedule and location of the party for the children will be announced next week by the Special Projects Committee of the Council.

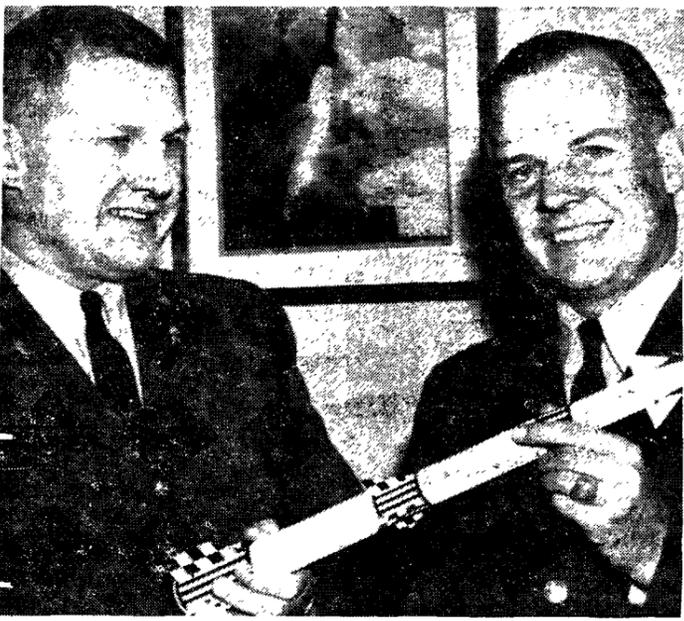
Santa will be the main attraction.

On Dec. 22, children from 10-12 will attend a movie party of their own at the Post Theater.

Lt. Col James W. Spellman is chairman of the Special Projects Committee. Other committee members are: Maj. O. E. Hufnagel, Maj. G. M. Parker, SFC. L. L. Belcher, M/Sgt. R. C. Walker, Mrs. E. F. Smith, Mrs. H. J. Fullerton, and Mrs. J. E. Aber.

A safety tip to remember: Skid chains have never prevented that first skid when the chains were left in the trunk.

Tickets are: \$1.00 for adults and 50 cents for students. Season tickets or tickets for this play will both be available at the box office.



IN A CEREMONY symbolic of the transfer of a key position in the Nike Zeus anti-missile missile system development team, Lt. Col. Claude C. Young, left, departing Chief, Anti-Missile Missile and Space Defense Office, Research and Development Operations, ARGMA hands a model of the Nike Zeus to Lt. Col. William Nelson, shortly to be designated Acting Chief of the AMN&SD Office. Lt. Col. Young will be assigned duty in Korea early in 1961.

Col. Nelson Succeeds Col. Young on Zeus

A key position of the Army-Industry team developing the Nike Zeus anti-missile missile system changed hands Monday, Dec. 5. Lt. Col. Claude C. Young, chief, Anti-Missile Missile and Space Defense Office, Army Research and Development Operations, ARGMA succeeded by Lt. Col. William Nelson.

The office is a part of ARGMA's Research and Development Operations staff. Col. John G. Cortright, ARGMA commander, announced the change, naming Col. Nelson acting chief of the office. The departing chief, who will return to Korea for duty in 1961, is a graduate of Kansas State University, at Manhattan, and the University of Pennsylvania's graduate school, which awarded him a MS in electrical engineering in 1951. He received a commission in R.O.T.C. at Kansas State in 1951.

He came to Redstone Arsenal in July 1958. For the previous five years, he was a member of the Staff, Operations, as staff action officer in the Surface-to-Surface Missile Division of the Requirements Directorate. He was associated with the Air Defense Board at Ft. Worth, Tex., for four years. Col. Young is married to the

former Ruby Campbell. He is the son of Mrs. A. L. Long, Wilmington, Calif. The couple are the parents of a son, Clay, 16. They reside at 2410 Glen St., S. W., Huntsville.

The successor to Col. Young was promoted to his present rank on Nov. 27. Formerly executive officer in the Ordnance Office, Headquarters, 8th Army, Japan, Col. Nelson is a graduate of the U. S. Military Academy, finishing a three-year course in 1944. He previously had attended the University of Wisconsin, majoring in chemical engineering. In 1950, Rensselaer Polytechnic Institute awarded him an MS degree in electrical engineering.

He served at Aberdeen Proving Ground, Md., from 1951 to 1954, and attended the Command and General Staff Course at Ft. Leavenworth, Kan., receiving a diploma in 1955. Prior to the recent re-assignment, he was Chief of the Plans Branch of the AMN&SD Office.

The son of Mr. and Mrs. Walter J. Nelson, Milwaukee, Wis., he is married to the former Ruth Rode. Lt. Col. Nelson has four children: William J., Jr., 15; James R., 13; Nancy J., 9; and David R., 1.

He is active in Redstone Ar-

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HOUSE FOR SALE by owner— Equity \$1650, 3 bedrooms, 1½ baths, separate dining or family room, attached garage, FHA. 2912 Bayless Dr., S.W. JE 4-7840. 1tp

FOR SALE — 1952 Studebaker truck ½ ton pickup, equipped with overloaded springs, overdrive, new side boards, new tires, average condition. \$195.00 cash only, Phone Ext. 534-5528. 1tc

FOR SALE — 1960 Ford Fairlane '500', 2 door, radio, heater, call Singleton, ext. 876-6289 or JE 9-6718 or see at 3907 Hawthorne S. W. 1tc

FOR SALE — 3 bedroom house, brick veneer, fireplace, 2 ceramic tile baths. See this house before you buy. See or call Jesse Black at night at Arab, Juniper 6-3055. 12-21c

FOR SALE — 1953 Plymouth, radio, heater, excellent shape, \$245.00. Call JE 6-5620. 1tc

FOR SALE — 1959 Volkswagen, excellent condition, clean, leather seats, w.w. tires, windshield washers, outside mirror, \$1450.00. E. L. Poole, ext. 876-6632. 1tc

FOR SALE — 1960 40" Westinghouse range, like new, \$150.00. Also Hotpoint refrigerator, \$45. Call JE 9-4184. 1tc

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FOR SALE — 1954 Hudson, str. shift and a 1951 Chevrolet, str. shift, both for \$100.00 or \$60.00 each. Phone 534-5528. 1tc

FOR SALE — 1957 MG, white, black top, R&H, \$1125.00. J. W. Haney, Jr., JE 6-5581, ext. 313 or Albertville 1520-W. 1tc

FOR SALE — 40 acres land, 5-room house, hot-cold water, built-in cabinets, closets. Barn and outbuildings, new fences started. 3½ miles east of Hartselle. WILLIAM B. WALLACE, phone SP 3-9753, RFD 3, Hartselle. 1tp

FOR SALE — 32X8, one bedroom Schult Mobile Home. Excellent condition. Make me a cash offer. Phone 534-5285 or RSA ext. 876-4677. 1tp

FOR SALE — Nearly new Sear's All-State scooter. A-1 condition. Price reasonable. Call RSA 877-4048 after five. 1tp

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FOR RENT OR SALE — 42', 1955 Housetrailer, fully equipped with hide-a-bed, washer, etc., parked on private lot, can be bought on monthly terms at a very low price, ask for Mr. Parker at JE 6-6857 or JE 9-6152. tfc.

41-ACRES FOR SALE — On Highway 36 mile and a half east of Lacey's Spring postoffice. Has 1450-foot frontage on highway. Fine farm or ideal to subdivide for building lots. Sell with the money. S. S. FRANCIS, RFD 4, Hartselle, Ala., phone SPruce 3-7652. tfc

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TIMBERLAND — 240 acres located 5 miles east of Falkville. Entire tract has an excellent growth of young pine and hardwood. Has not been cut over since 1952. Priced \$10,000.

22 ACRES located at Eva, Ala., 3 bedroom home, modern, large barn, two fishing ponds, on black top highway. Priced \$7,000. SAFEWAY REAL ESTATE AGENCY, E. G. WILLIAMSON, District Manager, Cullman, Ala. P. O. Box 41, call day or night RRepublic 4-6294. 12-7p

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(Continued on Page 15)

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Nice 2 bedroom home, living room, kitchen and dining combination. Natural gas heat. Only \$300 down plus closing. Price \$10,050.00.
SOUTH HUNTSVILLE
2318 Gallitan St. Lovely 2 bedroom, living room, dining and den. Near Fifth Ave. and Huntsville High School. Minimum F.H.A. down payment. \$15,000.00.
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1100 Fairway Drive. Nice three bedroom and den home with attached garage. Cyclone fenced in yard. Walking distance of school. Only \$14,500.00.
We also have homes in all sections of town which can be bought on no down payment on GI and Minimum FHA. Call for an appointment today.
RENT FREE
Noland Blvd. 3 BR brick with 2 full baths. Large kitchen and dining area. Can be purchased on GI loan for nothing down, no closing cost. Only \$16,700.00.
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Bluebird Ave.—Nice 3 bedroom brick house. Living & dining combination. Large storage room. Forced air heat. Only \$200. closing to some lucky GI. Minimum down on FHA.
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4207 Cloverdale Dr.—Cute 3 bedroom home near schools, churches and shopping. Purchase for \$400 down plus closing. Only \$12,000.
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Wantads

(Continued From Page 14)

DR SALE — Willys Jeep Station Wagon, 6 cylinder motor with overdrive. Newly overhauled motor. Newly painted. Call JE 9-7511. tfc

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HOUSE TRAILERS WANTED — We will pay you MORE CASH for all sizes and makes. Call us first. Phone 534-2761. tfc

LAKEWOOD — 3 and 4 bedroom brick homes under construction, city sewer, electric heat, attached garage, hardwood floors, 100% G.I. loans or max. 809. Some with full basement, split levels. Phone JE 6-1554 or nights JE 6-1659. tfc

EQUITY FOR SALE — 1959 De Ville House Trailer with television and Antenna installed. Ready for occupancy. See to appreciate evenings and weekends. 4509 Triana Lot 10. 12-7p

FOR SALE BY OWNER on Monte Sano, 3 BR house, Corner lot, \$13'00 equity, payments \$76.00, rugs, drapery TV antenna. Call JE 9-3655. tfc

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until closing on one of our fine brick homes, but, in addition you will also

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EFFICIENCY APTS. Downtown Huntsville, 1 block from restaurant, theaters, and business district, furnished \$98.50 per mo. Phone JE 6-1554, nights JE 6-1659. tfc

FOR SALE — American Flyer trains, 3 locos, 6 pass., 20 freight cars, 4 elec. and 4 man-op. switches. Much track and accessories. Perm mtd on 4'x8' plywood w/det. legs. See it operating. BRIGHT, Ext. 876-4507. 1tp

FOR SALE — "Like new" 4 speaker Stereo record player. Symphonic portable with separate speaker unit. Brown genuine leather case. 4 speed changer. Automatic shut-off. Call Dudley Reese, 876-0914. After five JE 9-8677. 1tp

FOR RENT—Furnished apt. Living room, bedroom, bath and kitchen. 2 blocks from Business district of Arab. Call Mrs. Irene Hyatt, JUniper 6-5175. 1tp

FOR SALE — Forty acre Mountain Estate. Looking for a mountain? Looking for a view? Looking for a babbling brook and a natural playground for children? See this spacious home built for country living. Call Decatur EL 3-7688. 1tp

FOR SALE — 1958 Olds. 88, Holiday Coupe, 2-tone paint, radio, heater, auto. trans., power brakes and steering, Deluxe interior, new tires with whitewall, 43,000 miles and clean. For quick sale by owner. (\$1,450.00). Phone Ext. 876-1481 or JE 6-0662. 1tp

FOR SALE — Piano, Baldwin "Acrosonic" with matching bench. Two years old, Cherry, French Provincial with ten year warranty. Phone Ars. Ext. 877-2043 or 877-4778. 1tp

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SKIDD COMBO available for dinner or dance music, electric organ, bass, guitar and trumpet, Phone JE 9-2306. 1tc

FOR RENT — Furnished duplex, 3 rooms and bath, lights and water furnished, \$88.00 per mo. Skyview Drive. Phone JE 4-9287. 1tc

GIRLS' 20" BICYCLE — Like new, blue with white sidewall tires. Rear book rack, night light, German built. First \$20 bill takes. Call JE 6-7653. 1tp

MOBILE HOME FOR SALE — 1961 Argus Gold Seal 50'x10', 1 bedroom, custom interior, 2 mo. old, low equity, low payments, owner transferred, must take out housing. Will sacrifice. Call JE 9-8944 after 5 p.m. 1tp

FOR SALE — Target pistol set, .22 cal. auto.; .38 cal. pistol; 45 cal. auto., gun box with 30x40 mm. scope, 800 rounds of .45 cal. ammo, 650 rounds .38 cal. ammo. Sell as a set \$285.00. or will sell individually. Phone 876-7578 or Decatur EL 3-0860. 1tp

FOR SALE — 1955 Plymouth, 4-door, str. six, radio, heater. good tires, new brakes, original owner, very clean, \$475.00. Pho. 876-7373 or JE 6-7334 after 5 p.m. 1tc

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1960 CADILLAC CPE. DeVille with 9,000 actual miles, spare tire never on ground, full power and air condition \$4890.00.

1959 CADILLAC "62" CPE. Full power, real low mileage. A perfect car. Only \$3590.00.

1959 OLDS "88" Dynamic 4, dr. hardtop has full power. 13,000 actual miles. \$2490.00 full price.

1957 CHEVROLET 4 dr. hardtop, has power steering, V-8, auto. A local car. First come first served. No money down. \$1090.00 full price.

1955 CHEVROLET 4 dr. Bel Air V8. Auto. A local Redstone Arsenal car. Perfect in every respect. Nothing down, \$45.47 per mo.

1953 PONTIAC Cat. hardtop, power steering, Hydramatic transmission. Practically new white tires, a clean '53 model second car. \$6.00 down, \$17.42 per mo.

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SPECIAL DEAL ON NEW AND USED TRAILERS

1955 NEW MOON 41'x8' wide, fully equipped, full price \$1890.00. \$300.00 down to arsenal employee. Real small monthly payments and ready to live in.

1957 SCHULT 36'x8' 2 bedroom, extremely clean, completely equipped with air condition. Full price \$2075.00. \$75.00 cash down, real small mo. payments.

1 LEFT — BRAND NEW MAGNOLIA 2 bedroom, bath and ½. 45'x10'. Wholesale \$4100.00.

OPEN NIGHTS AND SUNDAYS BY APPOINTMENT — My Home Phone 534-3238

ROYAL MOTOR CO. INC.,

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Phone JE 4-4932



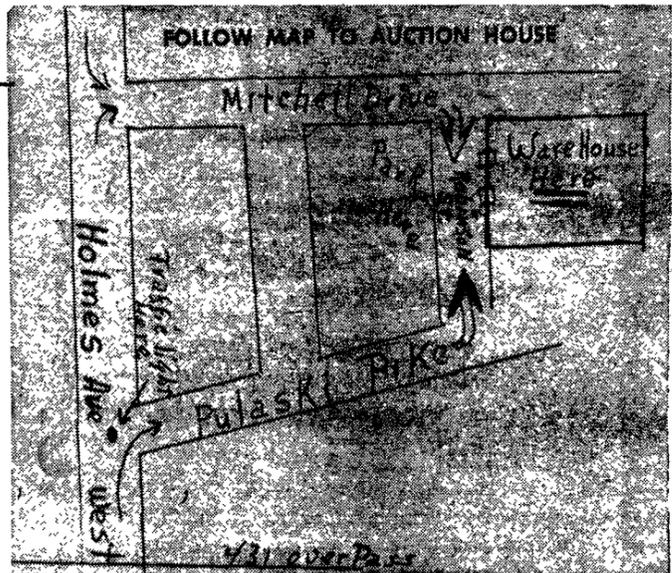
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Timber Harvested Here Last Year Enough To Build 167 Two-Bedroom Homes

Timbermen Harvest 1 Million Board Feet

More than one million board feet of sawtimber — enough to build 167 average two-bedroom homes — was harvested from Redstone Arsenal during the last fiscal year in a program aimed at both use and conservation of the installation's natural resources.

Netting the U.S. Treasury more than \$23,000, the timber harvest was part of a woodland management plan developed by the Land Management Section of the Arsenal's Post Engineer.

James Weldon, chief of the section, explains that all contracts for timber harvest are handled through the Mobile District of the U. S. Army Corps of Engineers according to standard bid procedures.

"Money received goes into a general fund of the U. S. Treasury and contractors use their own crews and equipment to cut and remove timber," he points out.

The Arsenal's 10,000 acres of woodland, roughly one fourth of the entire area of the installation, is divided into ten sections. Under a 10-year cutting cycle, one section is cut each year.

"Cutting is done on a selective basis," Weldon emphasizes. "Only mature trees and trees not expected to last for 10 years are marked for harvest."

Cruising and marking of the timber is done for the Post Engineer by a forester for the Corps of Engineers on a reimbursable basis. Available wood includes gum, oak, cedar, pine and black locust sawtimber and posts.

Contractors during the last fiscal year included Pearson Lumber Company, Tuscaloosa; Giles and Kendall Furniture Company, Maysville; and Baker Manufacturing Company, Hartselle.

Currently in progress is the harvesting of approximately 600,000 board feet of cedar by Brown Cedar Company of Greensboro, N. C.

"The woodland management plan, which started in 1958, is beginning to get into full swing," Weldon relates, looking forward to increased harvests during coming years. Prior to fiscal year 1960, 346,000 board feet of sawtimber and 270 cords of pulpwood has been harvested under the program netting \$12,603.

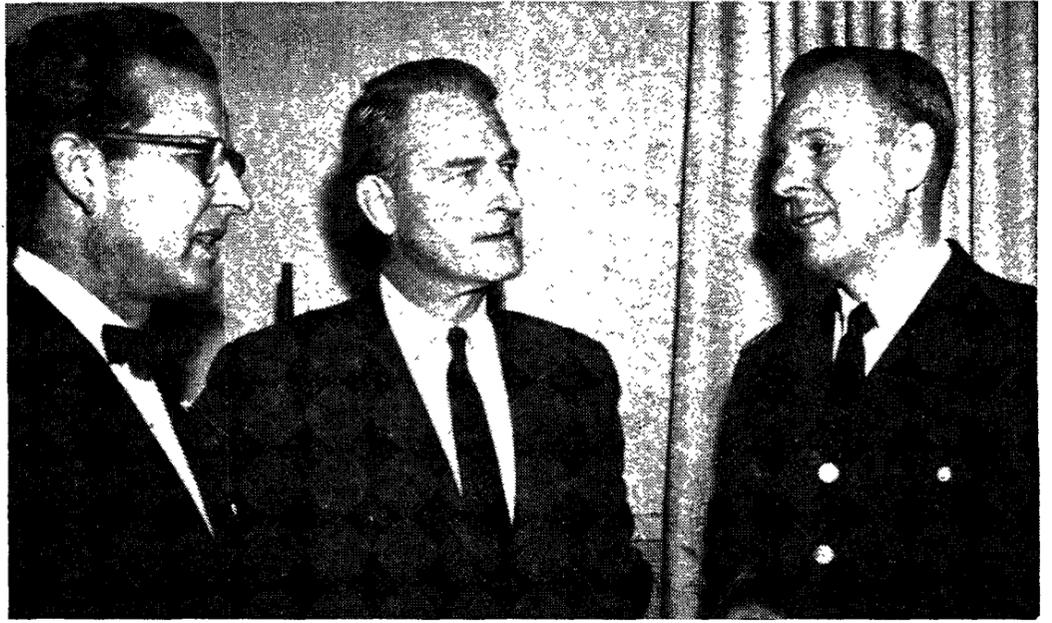
In addition to controlled harvesting, the woodland management plan includes provisions for pest and disease control, fire control, reforestation, and wild-life conservation.

Pest and disease control meas-

ures are the responsibility of the Post Engineer. Fire control is carried out by the Arsenal's fire marshal in conjunction with the State of Alabama's Forestry Division.

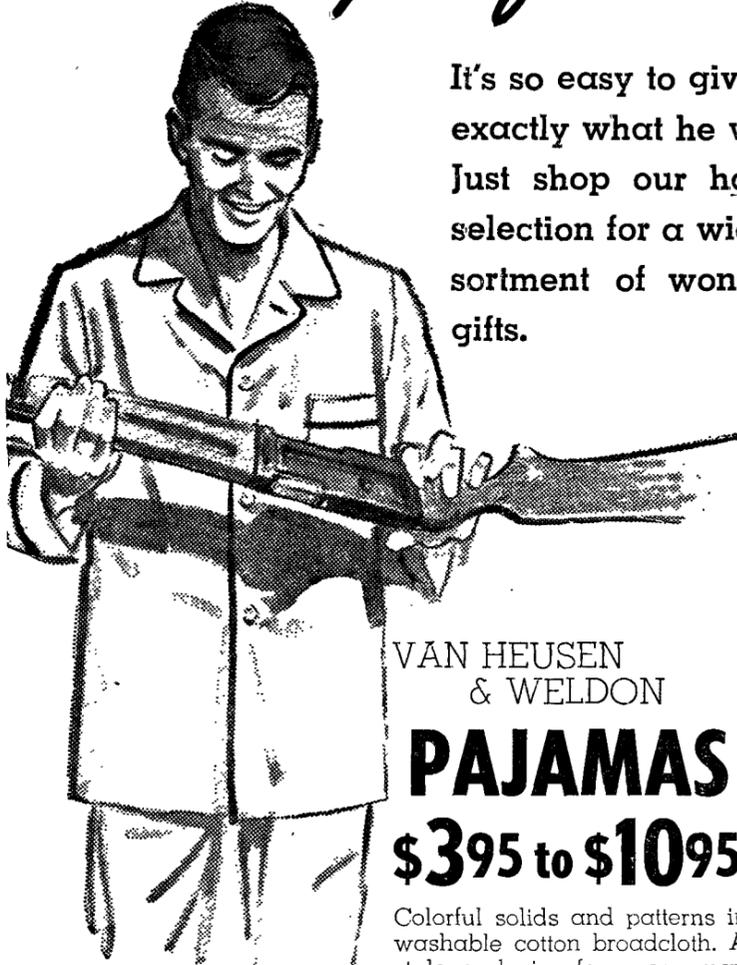
"The State fire station on nearby Monte Sano keeps a lookout over the Arsenal's woodlands," Weldon explains. "If there is a woodland fire on the Arsenal, the State has agreed to send assistance. In case of a woodland fire near the Arsenal, the Arsenal fire department, in turn, will aid the State."

Reforestation, or the planting of trees, is carried out under Post Engineer direction. Approximately 150,000 pine seedlings have been planted on the Arsenal during the last three years.



AT AUSA MEETING—Richard S. Morse (center), Army Director of Research and Development, addressed a meeting of more than 200 top-level missile industry representatives at Redstone Arsenal Thursday. Representing the organizations which sponsored the meeting were Maj. Gen. August Schomburg, Commanding General of the Army Ordnance Missile Command, and A. A. Demetriou, president of the Tennessee Valley Chapter of the Association of the U. S. Army. The two-day meeting ended at noon Friday.

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HAPPY HATTER — She's an Illinois farm girl, but the Miami Beach sun sends Sarah Brockett into a Spanish hat dance that makes a neat study in black and white. Some sombreros, si?