

The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

APRIL 5, 1961



POLICY BOARD CHAIRMAN VISITS—John Slezak, Chairman of the Dept. of Defense Reserve Forces Policy Board, poses with Brig. Gen. Richard M. Hurst (right), Commander of the Army Ballistic Missile Agency and Maj. Kenneth J. Steen during a recent visit to Army Ordnance Missile Command facilities at Redstone Arsenal, Ala. Gen. Hurst and Maj. Steen briefed Mr. Slezak on ABMA's Pershing ballistic missile, mounted here on its fully tracked prime mover. A Chicagoan, Mr. Slezak is civilian aide to the Secretary of the Army from Illinois and a member of the Army Ordnance Advisory Committee on Research and Development.

14 Missile Contracts Total Over \$109 Million

Turkish Air Force Commander Visits For Orientation

The commanding general of the Turkish Air Force was scheduled to visit Redstone Arsenal on April 3 and 4. Army Ordnance Missile Command headquarters announced.

Lt. Gen. Infan. Tansel, accompanied by the Turkish chief of the Air Materiel Command, Training, Operations, and Intelligence, was scheduled to arrive at Redstone Army Airport late Monday morning. The group received an orientation and briefing of various AOMC activities, and left early the next day.

Members of the delegation include Brig. Gen. Adnan Alpan, Commander of the Air Materiel Command; Col. Feyzi Arsin, Training; Col. Fahri Baran, Operations; and Col. Sabri Sonmez, Intelligence.

Col. Robert D. Montagne is the representative of the Chief of Staff of the U. S. Air Force, sponsor of the trip.

Contractor Sites Reach From Atlantic To Pacific Coasts

The Department of the Army last week announced awards of fourteen Army missile contracts totaling \$109,107,906.

The contracts are for work on the Nike Hercules, Hawk, Mauler, Pershing, Sergeant, and La-Crosse missile systems and the XM78-3 Target Missile, all under the management jurisdiction of the Army Ordnance Missile Command at Redstone Arsenal, Alabama.

Prime contractors receiving awards include the Western Electric Company, the Raytheon Company, Convair Corporation, The Martin Company, Sperry Rand Corporation and Nortronics Division of Northrup Corporation.

Work contracted for the Hawk Missile System totalled \$68,901,971.59. The Raytheon Company of Waltham, Massachusetts received five contracts. Largest single award was for ground support in the amount of \$28,043,954. Second largest of the Raytheon contracts was for Hawk missiles in the amount of \$19,955,166.

(See 14 MISSILE on Page 2)

Congressman Visitor Today

Rep. Phil Weaver Receives Briefing

Rep. Phil Weaver (R.-Neb.), will visit Redstone Arsenal today for a briefing and orientation.

He will be accompanied by Kelley Campbell, a professional staff member of the House Committee on Appropriations. Rep. Weaver is a member of the House Defense Appropriations Sub-Committee.

He was elected to Congress in November, 1954, and reelected to the 85th and 86th Congresses.

The son of a late ex-governor of his state, Arthur Weaver, Rep. Weaver is also the grandson of a late ex-Congressman, A. J. Weaver.

He earned the Army's Bronze Star Medal with Oak Leaf Cluster and the Combat-Infantryman's Badge in European duty during World War II, emerging from the service as a captain.

Married to the former Jane Burner, of Sabetha, Kan., he is the father of five sons.

Lt. Col. James E. Campbell is the visit escort officer, for the Department of the Army Legislative Liaison.



CAPT. G. R. POOL

New Officer Finds Exchange Policies Are Changed By DA

Capt. Grady R. Pool, a native of Jasper, Ga., recently became the Army-Air Force Exchange Officer at Redstone Arsenal.

The captain announced that since he arrived at the installation new policies governing the Exchange Service have been initiated which will effect all personnel authorized to use this service.

Under the new policy, inventories will be reduced. The move

will keep the Welfare and Recreation Funds at the same level which was set before the Overseas Exchange profits were sharply curtailed without increasing prices.

Capt. Pool said the slow move (See EXCHANGE on Page 2)



SEVEN REDSTONE Arsenal military personnel were retired last Friday in ceremonies held in front of the Army Ordnance Missile Command headquarters. From left to right are, Lt. Col. Luther W. Roy, ARGMA; Lt. Col. Fred J. Babes, AOMC; Lt. Col. Thomas Koeneman, RSA; Capt. Edgar L. Watts, OGMS; CWO Harvey H. Lareau, ARGMA; M/Sgt. Thomas Duncan, OGMS; and M/Sgt. Clarence Ledford, OGMS. Each had more than twenty years service. Major General August Schomburg, Commanding General of AOMC, made the presentation of retirement certificates.

Arsenal's Railroad Is One of World's Slowest

Redstone Arsenal, home of the U. S. Army's rockets and guided missiles, is also the home of one of the slowest railroads in the United States.

Redstone Railroad services all elements of the U. S. Army Ordnance Missile Command located at Redstone where Army missilemen measure missile speed in terms of multiples of the speed of sound.

At a place where conversation includes words like "supersonic hypersonic, orbital speed or Mach 10," The Redstone Railroad is limited to 25 miles an hour—10 miles an hour on curves. It even stops for autos.

The small railroad sometimes plays a direct role in the missile business. Only recently, a missile was tied on a flat car for impact tests conducted on the arsenal.

Army wanted to know if the missile would stand handling, such as could be expected in railroad

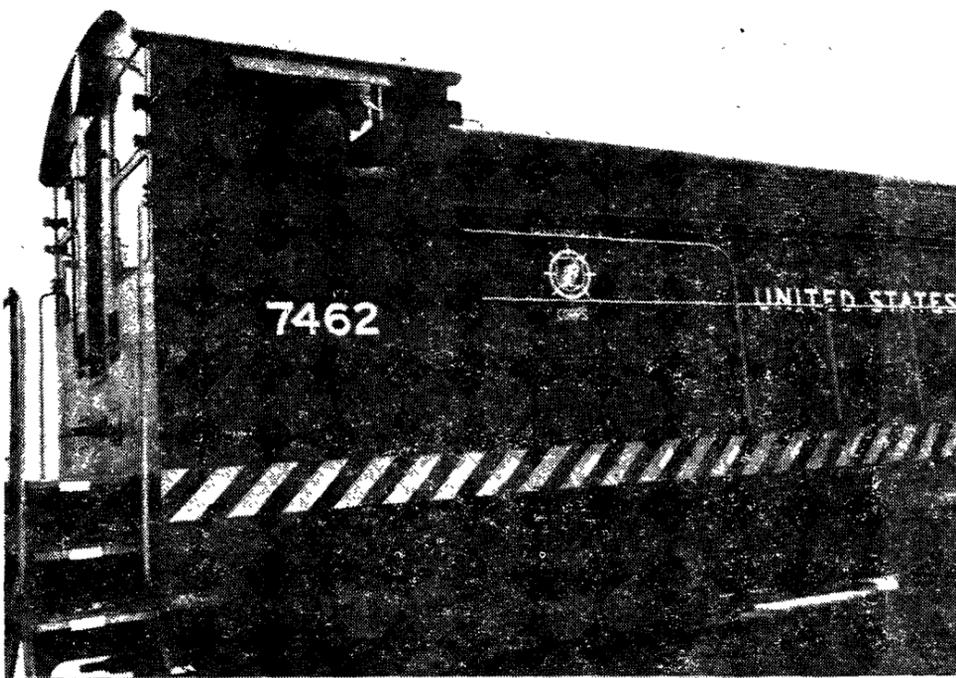
movements. The engineers banged loaded coal cars against the flat car at three, six, nine and then 12 miles per hour. The men proved the missile could stand the test.

Routine hauling duties caused the trains to log more than 50,000 miles last year. They hauled 330,000 tons of cargo.

It took a lot of twisting and turning—there's only 82 miles of track. Trains on this track come to a stop at paved crossings and wait for cars to pass. That's a heap of waiting at Redstone Arsenal, which has 33,000 automobiles registered.

The Army began operating the railroad in 1942. It's only tank car was built in 1911 and is still in good shape. Only 29 employees keep the entire railroad operating two shifts a day.

The engineers, conductors and brakemen all have more than 15 years service. The trains do not (See RAILROAD on Page 3)



ARMY ENGINEER—M. D. Williams, a Diesel mechanic-engineer on the U. S. Army railroad at Redstone Arsenal, eases his engine and cars past others parked on a sidetrack at Redstone Arsenal. The railroad operates on 82 miles of track and trains have a maximum speed of 25 miles per hour. Trains stop for cars at paved crossings.

The Redstone Rocket

The Redstone Rocket is a privately owned newspaper published every Wednesday at no expense to the Government by Jack W. Hoffhaus, Hartselle, Alabama, with exclusive regard for the reader interests of personnel at Redstone Arsenal, Alabama, in accordance with an agreement between the publisher and the Public Information Office, Army Ordnance Missile Command, Redstone Arsenal, Alabama.

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14 Missile

(Continued From Page 1)

Another was for engineering services on the Hawk system in the amount of \$4,558,872. Work on these contracts is to be performed in Raytheon plants at Waltham, Andover and Dighton, Mass.; Oxnard, Calif., and Bristol, Tenn. Raytheon also is to provide radar sets for the Hawk under a \$1,474,996 contract. Work will be performed at Andover, Burlington and Waltham, Mass. Work under a Raytheon contract, in the amount of \$2,861,939, for field service documentation concerning the Hawk, will be done at Andover.

Another Hawk contract went to Aero-Jet General Corporation of Sacramento, Calif., in the amount of \$9,549,082.59 for rocket motors. Work is to be performed in the company's plants at Azusa and Sacramento.

Still more Hawk work went to Food Machinery Chemical Corporation, San Jose, Calif., for loader transporters and ramps amounting to \$2,458,071, work to be performed at San Jose.

For work on another missile

system, a contract went to Western Electric Company for \$19,185,449 for an improved capability item in connection with the Nike Hercules Missile System. Work is to be performed at Western Electric plants at Burlington, Greensboro and Winston Salem, N. C.

Another of the contracts, in the amount of \$5,913,520.91 went to the Convair Corporation, Division of General Dynamics Corporation, Division of General Dynamics Corporation at Pomona, Calif. It was for continuation of Research and Development on the Mauler Missile System.

Two of the contracts went to the Martin Company of Orlando, Fla., totaling \$6,804,912. One, in the amount of \$3,804,912, was for engineering services on the La-Crosse Missile System. The other was for artillery training kits for ground support equipment for the Pershing Missile System in the amount of \$3,000,000.

Sperry Rand Corporation, Sperry Utah Company at Salt Lake City, received contracts for work on the Sergeant Missile System. One, in the amount of \$4,405,849, was for product and production



KEY CLUB MEMBERS VISIT—Col. Thomas W. Cooke (right), Redstone Arsenal Commander, talks to visiting members of the Key Club International who recently toured the installation. They were welcomed by the colonel at the Rocket Auditorium. Approximately 300 of the 400 young men with a "B" scholastic average who held a convention in Huntsville recently were visitors at the Army Ordnance Missile Command and its elements and the Marshall Space Flight Center. Key Clubs are sponsored by Kiwanis International. Left to right are: Johnny Moss, Robin Andrea and Dickie Plant.

65 Contractors Will Meet at ARGMA For Briefing on Saving

A briefing on how to produce equipment in a way that will save taxpayers' money will be the highlight of a meeting to be held by the Army Rocket and Guided Missile Agency.

Under the aegis of the Industrial Operations section of ARGMA, upwards of 65 contractors' representatives will attend, ARGMA officials said.

The Air Defense High Altitude Systems Division of Industrial Operations is sponsoring the meeting. The division chief, Leon F. Chesebro, said the conference will begin at 9 o'clock in the Rocket Auditorium.

Conferees will be asked to submit contract proposals for updating a portion of existing target simulators used in training crews to operate the Nike Ajax system. It is intended to convert the devices for use with the Nike Hercules system, second generation in the Nike family.

After an address of welcome by Col. H. H. Wishart, Chief of Industrial Operations, there will be a presentation of requirements, a review of equipment, a question and answer period, and a discussion.

engineering services. The other, amounting to \$1,591,204, was for work on an arming device.

A single contract went to Nortronics Division of Northrup Corporation, Anaheim, Calif. in the amount of \$2,304,991. It was for launchers for the XM78-3 Target Missile.

Exchange

(Continued From Page 1)

ing items will be replaced with rapid turn-over merchandise or dropped after a review is made of all items to eliminate marginal profit merchandise from stock."

This action may cause a few basic items temporarily "out of stock." Possible shortages will depend on accurate forecasting of customer demands. An additional objective of stock review is to identify basic items and establish accurate stock objectives, particularly in clothing and photo supplies. The captain anticipates some inconvenience to the customers, but promises it will be temporary. And he said the customer may use the Special Order department for anything authorized but not on hand.

Capt. Pool has a bachelor's degree in economics from Colorado College at Colorado Springs and received an MBA degree in

economics from the University of Alabama.

A regular Army officer, a captain spent two years in the Navy before becoming an Army officer in 1951.

He came to the Arsenal from the 7th Logistical Command Korea where he spent one year assigned as Property Disposal Officer.

Capt. Pool is married. The couple has three children, Grace Jr., 10; Wayne G., 7; and Marc J., 5. The family resides at 3 Hughes Drive on post.

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AID FOR AN AIDE—Maj. Gen. John A. Barclay, Deputy Commanding General of the Army Ordnance Missile Command, helps Mrs. Paul Blackburn pin new captains bars on her husband's shoulders. Capt. Blackburn is Gen. Barclay's aide de camp. The promotion ceremony took place in the general's office. A graduate of the University of Cincinnati, Capt. Blackburn is the son of Mrs. Leona Kendall of 6136 Johnson Road, Cincinnati. He and his wife Jean live at Redstone Arsenal, Ala.

COURT OF HONOR

Scout Troop 234 of Redstone Arsenal held its semi-annual Court of Honor on Tuesday, Mar. 28 to give recognition to certain Scouts for their advancement in Scouting activities.

Bert Niemeyer, Madison District Representative awarded a new charter for the year and lectured on the subject "Scouting and Citizenship."

Lt. Col. Raymond Hansotte showed a series of color slides on outdoor life at Camp Westmoreland.

Michael Cox was awarded a certificate naming him as Outstanding Scout of Troop 234.



LT. COL. FULLER

Maj. Fuller Promoted To Lieut. Colonel

Vandenberg AFB, Calif. — Maj. Richard Fuller, USA, resident project engineer and liaison officer between Army Rocket and Guided Missile Agency (ARGMA) and USAF elements at Vandenberg AFB, was promoted this week to the rank of lieutenant colonel.

The silver leaves were present-

ed to Col. Fuller by Col. Robert F. Zackmann (Special Assistant to Director of Plans) 1st Missile Division at a brief ceremony on March 22.

Col. Fuller was assigned to Vandenberg AFB October 27, 1960 for liaison with both 1st Missile Division and 6565th Test Wing in connection with the launching of ICBMs as target for Army Nike-Zeus anti-missile missiles based on Kwajalein Island in the Central Pacific.

Col. Fuller was in on the beginning of missilery, having begun this duty in 1949 at the Army's Guided Missile Staff Officers Course at Fort Bliss, Texas. After Graduation he was assigned to the 1st Guided Missile Group at Fort Bliss and White Sands, N.M. working on V-1 and V-2 guided missiles.

After service in Korea he returned to the 1st Guided Missile Group at Fort Bliss as its S-3 (Operations, Plans and Training Officer). Next to the Continental Army Command Headquarters at Fort Monroe, Vir. and then attached to the Bell Telephone Company laboratory at Whippany, New Jersey where he worked on the development of Hercules and Nike-Zeus anti-missile missile.

Railroad

(Continued From Page 1)
have firemen and cabooses are noticeably absent. James R. Foote, maintenance shop foreman and a Civil Servant 25 years, has more service than any other employee. His shop can repair any part of the locomotive or the government-owned railroad cars.

That includes five locomotives—all Diesel electric—from 65 to 120 tons, 36 boxcars, 23 coal hoppers, the single tank car, two flat cars and a motor car for railway maintenance crews. The switch-type engines are radio equipped and controlled by a dispatcher.

The railroad work here is, in effect, a colossal switching operation. Commercial railroads bring shipments to two classification yards. Distribution of the materials is made to the various departments by the Redstone railroad. It also hauls coal from barges on the river.

The railroad has a remarkable safety record despite the hauling

of hazardous cargo. It has hauled poison gas, 500 pound bombs, smoke pots, an assortment of chemicals and missile-related items.

It has only hauled one passenger, however, and he never came back for a second ride.

A. L. Kent, Sr., assistant to the Post Transportation Officer, recalls the Redstone Railroad pulled some empty boxcars left by a commercial train to a warehouse on the security-wrapped government installation.

When one of the cars was opened, a frightened hobo, complete with a bundle of clothing tied on the end of a broom stick, peered out in blinking amazement.

"He was scared to death," Kent recalls. "He told us he had been asleep and wanted to know where he was. We told him."

The Redstone Railroad's only passenger was turned over to the Military police, but not before the sympathetic Army train crewmen chipped in a small donation.

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Social News



BRIDGE AND BRUNCH — Among the participants of the Bridge and Brunch sponsored recently by the Redstone Arsenal Officers Wives Club were the four players above: (left to right): Mrs. William Henry, Mrs. Henry Gotzian, Mrs. Hermann Rabinowitz, president of the club; and Mrs. E. J. Kloos. The event was held at the Squirrel Hill Officers Club with 26 tables in competition at party bridge, duplicate bridge, and canasta.

RETIRED OFFICERS PROPOSE CHAPTER OF ASSOCIATION

Retired officers from all military branches of service are forming a local chapter of the Retired Officers Association. A meeting is scheduled Apr. 12 at the Squirrel Hill Officers Club at 6 p.m. to approve a charter and bylaws and to elect officers. Interested officers, retired from active service, may contact F. W. Aldenderfer at JE 6-7237 for information concerning the proposed Huntsville Area Chapter of the Retired Officers Association. Individuals who desire being charter members will need to be present at the Apr. 12 meeting.

Mrs. Homer Finch, Mr. Winford Patton Win at Party Bridge

Five tables of bridge competition turned out Monday night, March 27 for the meeting of the Bridge Group at the Squirrel Hill Officers Club. Winners for the women were Mrs. Homer Finch, high and Mrs. John Mann, second. Winners for the men were Mr. Winford Patton, high and Lt. Col. John Severeid, second. Reservations to play with the group may be made with Mrs. Severeid by noon on Saturday.

Robert Lowery Tells Florence Students Budget Problems

Mr. Robert C. Lowery, Chief of Budget Division of Army Ordnance Missile Command, Redstone Arsenal spoke to students of Florence State College Thursday evening. The address was presented in response to a request made by college officials of a Speakers Bureau recently established by the local chapter of the Federal Government Accountants Association, of which Lowery is a member. Mr. Lowery's subject was "Is There a Profit Motive in Government." He pointed out that large industrial organizations operating with a profit motive have many areas of inefficiency, lost effort, duplication, and just plain "boners," the cost of which are passed to the customer in the form of higher prices.

In comparing the difference between Industrial and Federal Government Management, he brought out a point of timely interest to the general public by stating. "Although the government is not organized for the purpose of making a profit, it operates with the same principles as are present in the profit motive. The government exists to serve the citizens of the country, not to sell a product for profit. However, the fact that the job affects taxes, forces those in the government service to follow the same good business principles that are followed in industry where there is a profit motive. He concluded his speech with, "The government is no less efficient, considering the job it has to do, than the average industrial concern. It does not operate to make a profit, but it does operate under the same recognized good management principles as industry.

More and more emphasis is being placed on the importance of better planning and scheduling, better management systems, better accounting practices and most important, analysis and evaluation of how well plans are keeping on schedule, what the costs are in relation to what is being accomplished and how improvements can be made in the future."

Mr. Lowery was accompanied on his visit to Florence College by Mr. Jack L. Edgar, President of the Huntsville Chapter of the Federal Government Accountants Association.

Red Cross Volunteers Have Coffee At Chapel

Red Cross Volunteers at Redstone Arsenal held a coffee at the Post Chapel Social Room on March 27. Among the 26 volunteers attending were Mrs. August Schomburg, Honorary Chairman of Volunteers, Clarence Wells, Chapter Executive of the Huntsville-Madison County Red Cross Chapter, Mrs. Wells, Richard Spencer, Chairman of the County chapter, and Mrs. C. W. Nestor. Clifford T. Harmon, Arsenal Field Director, outlined the County Chapter policy for awarding service bars. Mr. Wells lauded the blood donors on post for arising to a recent emergency for a special blood type. Mrs. Nestor was presented a carnation corsage by Mrs. J. H. Davitt, Arsenal Volunteer Chairman, as a farewell gift from the Arsenal Gray Ladies. Mrs. Nestor resigned her position as Chairman of Volunteers in the County to be UGF Information head. Refreshments followed the meeting.

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USMA FOUNDERS DAY DINNER—Principal speaker at the Founders Day Dinner commemorating the 159th Anniversary of the U. S. Military Academy last week was Mr. John Slezak (standing), chairman of the Defense Reserve Forces Policy Board. At the head table with Mr. Slezak are (left to right), Maj. Gen. John A. Barclay, Maj. Gen. August Schomburg, Maj. Oliver D. Street, III, and Maj. Gen. R. L. Spragins. Approximately 65 USAM graduates and Mr. Slezak participated in the celebration at the Squirrel Hill Officers Club. The theme of the principal address was "Seven Principles of International Leadership."

MRS. GARCIA WINS AT PARTY BRIDGE

The Golf Group of the Redstone Arsenal Officers Wives Club had four tables in play at the Squirrel Hill Officers Club last Thursday. Mrs. O. Garcia won top score with Mrs. S.J. Dobbs second and Mrs. A. C. McDermott third. The Group will hold "Party Day" April 20 at the club. Reservations to play with the

EASTER BASKETS

The Hospital Recreation Committee of the Arsenal Gray Ladies under the chairmanship of M. C. E. Harrison, prepared Easter baskets for hospital patients Easter morning. The tradition colored hen's eggs and candies were presented with breakfast trays. group may be made with M. A. V. Garrabrant, 877-4758 or M. R. R. Javins, 877-4031.

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INTERNATIONAL HOUSE STUDENTS from Jacksonville State College, representing 14 countries, entertained and were guests at the Rocket Service Club recently. Native dances, songs and musical numbers were a part of the entertainment the guests provided. This is the second year International House students, sponsored by the Rotarians, have visited Redstone Arsenal.

At the Service Club

Spring is "busting" out all over, morale on the Post is rising with the outside temperature. It's a nice feeling to know that winter is officially over and the heavy winter uniforms can be put away for the season. So if you're feeling light and free in your summer form or civilian clothes, drop the Service Club for relaxation and dancing, as dancing seems to head the schedule for this week.

Later in the evening at 1930 hours, the Dance Classes for jitterbug will begin, followed by the Tango and Samba classes at 2030 hours.

Thursday night, the 6th, The Shutter Club will meet at 1900 hours. At 2000 hours The Storybook Costume Dance will begin. Come dressed as your favorite fictional character, be it Dick Tracy, Captain Hook, Linus, or Snoopy. The Charlie Lyle Orchestra will furnish the music. This is a repeat performance for the Lyle Orchestra because we had so many requests to feature them for another dance.

Name That Tune heads the program on Friday night the 7th, so brush up on your music and

The EM Council will meet on Wednesday, the 5th, at 1330 hours.

ENGINEER GROUP MEET APRIL 14

The next meeting of the North-east Alabama Chapter of the Alabama Society of Professional Engineers will be held Friday April 14 at the Albert Pick Motel. Social hour will be 6 to 7 p.m., dinner at 7 and speaker at 8.

The speaker will be Robert D. Jordan, Chief Engineer of the State Highway Department. He will speak on the Interstate and State Highway Programs and the use of consulting engineers by the State of Alabama.

Jordan was born in Crenshaw County, Ala. He graduated from Auburn University in 1918 with a B. S. degree in Civil Engineering and received in 1947 the professional degree of Civil Engineering.

He was also elected to membership in Tau Beta Pi and Phi Kappa Phi. He was appointed Chief Engineer of the State Highway Department in 1959. He is a Registered Professional Engineer and holds membership in the American Society of Civil Engineers.

An opportunity will be afforded for additional nominations to chapter office at this meeting. Reservations may be made with Jack Furman JE 9-0797 or John M. Caudle 876-1411 no later than Monday April 10. All interested engineers are invited to attend.

come by at 2000 hours.

Saturday evening at 2000 hours there will be a Checker Contest for all of you checkerboard fiends who have been requesting one.

Sunday morning at 0930 hours, Hot Coffee and donuts will be served from the kitchen. At 1330 hours Sunday afternoon a Pinochle Contest will be in progress and following the contest, our weekly record dance will begin at 1900 hours under the theme of "Sock Hop."

The weekly evening of games will be held at 2015 hours on Monday night in the main lounge.

The Bridge Club will meet in the small lounge Tuesday night April 11th.

HISTORY

The Post-Wide Shuffleboard Tournament was won by SP/4 James Stark, Hq & Hq, USAG.

A buffet supper of ham and turkey and an evening's entertainment by the students from Jacksonville College were enjoyed by a large crowd on the 24th of March. This was International Night, co-sponsored by the Huntsville Rotary Club and the Service Club.

The students, representing every continent, danced and sang their native songs. Especially lovely was the Japanese Dance, "Sakula, Sakula," and the liveliest was the Finnish Dance, "Schottis." Our thanks to both the Rotary Club and the International House of Jacksonville!

That's all I have for this week, but do keep in touch, and you might keep in mind the Post-Wide Table Tennis Tournament on the 20th and 21st.

Margaret

Maj. Fragge Joins AOMC Security

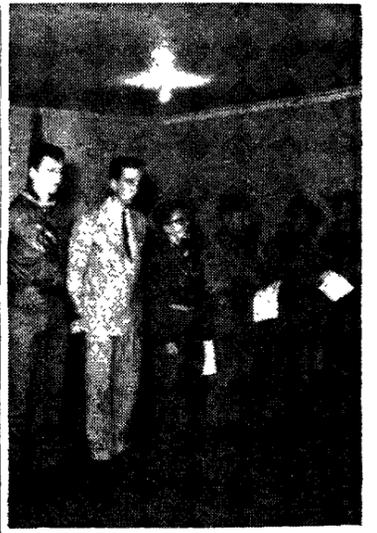
Maj. Stanley L. Fragge, a native of Asheville, N.C. has been assigned to the headquarters of the Army Ordnance Missile Command as Deputy Chief of the Security Office.

Reporting to Redstone on Feb. 28th, Major Fragge comes from an assignment as counter espionage chief in the headquarters of the 513th Military Intelligence Group in Frankfurt, Germany.

Entering the Army in September 1942, he served in numerous military installations in the U. S., and at such duty stations elsewhere as Eniwetok Atoll in the Pacific, and in the European Theater of Operations.

The possessor of both a baccalaureate and graduate degree in philosophy, he was graduated from Belmont Abbey Junior College, Belmont, N. C. in 1930, and from the Catholic University of America in Washington, with an A. B. in 1932. In 1933 he received an M. A. degree from the same institution.

Married to the former Elizabeth Dunn, he is a member of the Knights of Columbus chapter in



INVESTITURE OF JUNIOR LEADERS — Junior Scout Leaders take oath of office at a recent meeting. Left to right they are: Bob Sims, Bernard Ferry, Ken Birkenstein, Willard Johnson, Michael Cox and Jon Maliskey.

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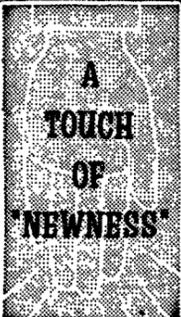
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GROWTH CHARTS on school children at Madison Pike and Westlawn are now kept by the Gray Ladies First Aid staff from the Arsenal, giving the teachers a chance to devote their time to classwork. Above, Mrs. J. H. Davitt, Red Cross Volunteer Chairman at the Arsenal who helped spearhead the program of staffing school first aid rooms, checks the weight of Danny Justin, son of S/Sgt. and Mrs. Joseph Justin.



AS A GRAY LADY a mother sometimes finds it's her daughter on sick call at school. Mrs. William Kiser checks the throat of daughter, Ann, at Madison Pike School. Mrs. Kiser helped initiate the school first aid program.

Arsenal Gray Ladies Are First to Staff School First Aid Rooms in Area

The public has grown accustomed to "firsts" at Redstone Arsenal.

These firsts have been in missiles, rockets and space.

Now, the Arsenal Gray Ladies and Red Cross volunteers are the first group in the Southeastern Region administered by the American Red Cross to staff first aid

rooms in elementary schools.

The schools are the Madison Pike and Westlawn Schools in Huntsville.

The chairman for volunteers at the Arsenal is Mrs. J. H. Davitt, a vivacious mother with four youngsters in local schools. Her husband, Lt. Col. Davitt, is a member of the Ordnance Missile

Command Signal Corps staff.

The Gray Ladies chairman, Mrs. William M. Kiser, has two children in the local school. Her husband, Maj. Kiser, is AOMC Protocol Officer.

When the Redstone Arsenal Gray Ladies undertook the staffing of the first aid rooms, Mrs. Kiser and her committee helped recruit other mothers from the P-TA at the Westlawn school; Mrs. Davitt recruited at Madison Pike.

A program was established to give Gray Lady training to new volunteers and to add a Red Cross First Aid training course to the skills of the existing Gray Lady group on post to qualify the members for this duty.

The service is available to any school without a regular nurse or doctor on the staff.

The initial First Aid Course was taught by Mrs. Henry D. Mitman, wife of a major on the staff of the Army Rocket and Guided Missile Agency's Research and Development Operations. Subsequent courses have been taught

by others.

When the Gray Ladies undertook the training program, Col. Harry C. McClain, Redstone Arsenal Post Surgeon, encouraged members of his staff to help establish the program. Among the participants were Capt. Joel K. Eakins, post pediatrician; Dr. Bartley E. Bess, Jr., Industrial Health Clinic Psychologist; and Capt. Paul R. Moffett, Jr., chief

of the Medical Service.

Emphasis was placed on first aid—not medical treatment. Mrs. W. S. Bice, a registered nurse and wife of a captain in the Army Ballistic Missile Agency Pershing program, undertook instruction in clinical procedures, care of thermometers and disposal of waste and other phases of first aid which the class might encounter. She also lectured on handling class reactions in case of such disturbances as epileptic seizures.

Following 22 hours of classroom training and ten hours of probationary training in a clinic or in a school, the Gray Ladies were ready to go to work. Training schedules had been arranged to accommodate the greatest number of recruits and were carried on both in the daytime and at night.

(Continued on Page 7)

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SOARING TEMPERATURE means quiet probably at home or a school child. Above, Mrs. Henry D. Mitman takes the temperature of Bonnie Davitt whose mother is Red Cross Volunteer chairman at Redstone Arsenal. Mrs. Mitman taught the first group of school volunteers Red Cross first aid techniques.

Gray Ladies

Continued From Page 6)
 Now that the Arsenal Gray Ladies have spaceheaded the program in this area, future training will be handled through the Madison County-Huntsville Chapter of Red Cross.
 The principal at the Madison School, Louie Morris, said the program cut down absenteeism and helps his teachers decrease full time to class work.
 In addition to work in the schools, the Redstone Arsenal Gray Ladies and Red Cross aides work at the Station Hospital and Post Dispensary.
 Every two months approximate-

ly 55 of them are on hand for the visits of the Red Cross Bloodmobile which operates out of Birmingham, Ala., the center of the regional blood program. An average visit entails processing between 800-900 individual donors during a six-hour day.

At these sessions, there are also volunteers from among the registered nurses who are wives of military personnel assigned here.

The nurses supplement the regular Red Cross Bloodmobile staff.

Then there's the leader of the posse who says to the boss thief: "I have noose for you."

Communication Control Center Is Now Operating

Washington (AFPS) — The National Defense Communications Control Center was dedicated here recently by the chief of the newly established Defense Communications Agency, Rear Adm. William D. Irvin.

The new center is the first step in the agency's responsibility to monitor and control the worldwide long-haul, non-tactical communications systems of the Army, Navy and Air Force.

The Defense Department said complete information about communications traffic and system status throughout the world is fed into the new center where it is processed and acted upon.

To provide this instantaneous information for decision-making personnel a unique display system was developed which can easily be expanded to meet future growth or to meet developments in the field.

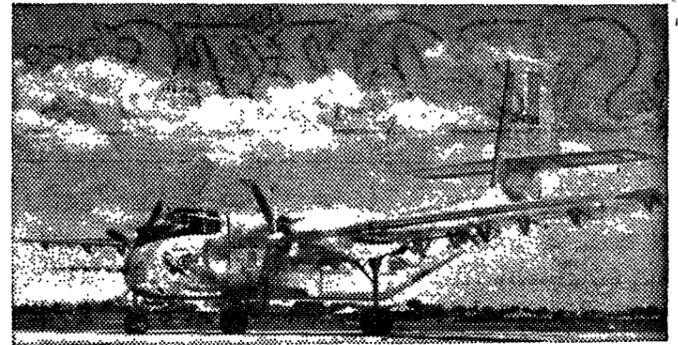
The display system occupies an area of more than 400 square feet. One display panel, 8 feet high and 15 feet long, is an edge-lit map of the entire world.

It shows the changing status of the major trunks and stations of the system. Included are an 8 x 8 foot traffic status readout and three command network panels.

Some idea of the system's size is evident from the more than 17,000 illumination sources in the displays. The solid state, high speed switching display complex requires about 4,000 transistors, more than one million connections and some 50 miles of wire.

On Sept. 29, 1960, the Defense Communications Agency selected Philco Corp., as the prime contractor to set up the new center.

The Defense Department said that normally such a program would take more than a year to complete. In less than 22 weeks,



The U.S. Army's AC-1 CARIBOU Transport Aircraft

however, Philco designed, developed, manufactured and installed the complex equipment which makes up the center.



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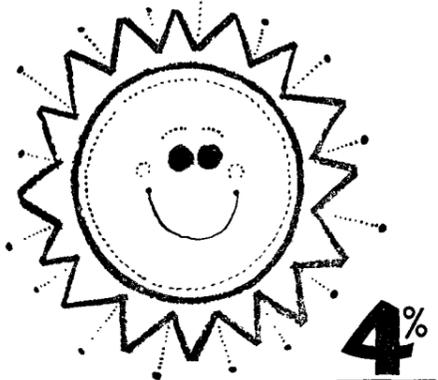
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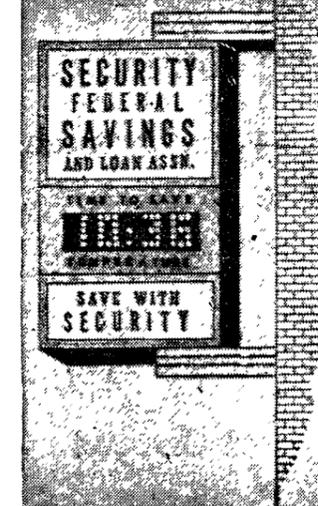
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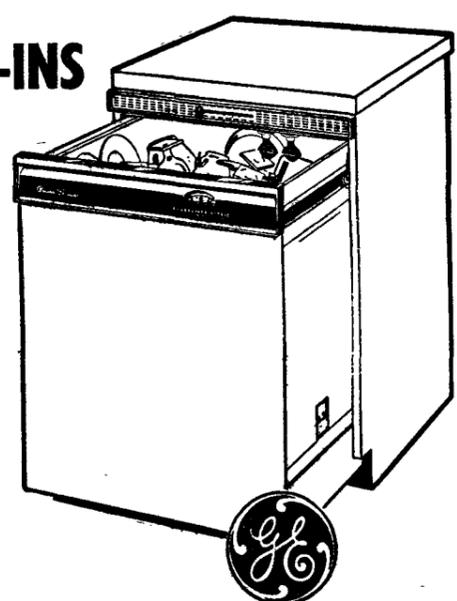
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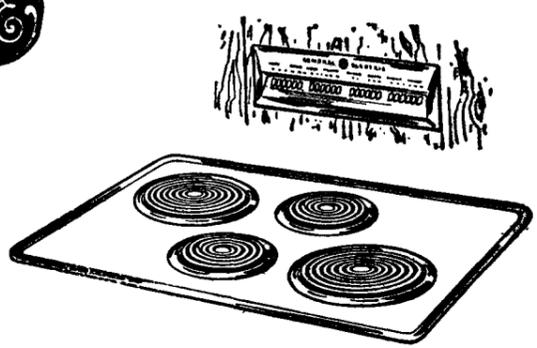
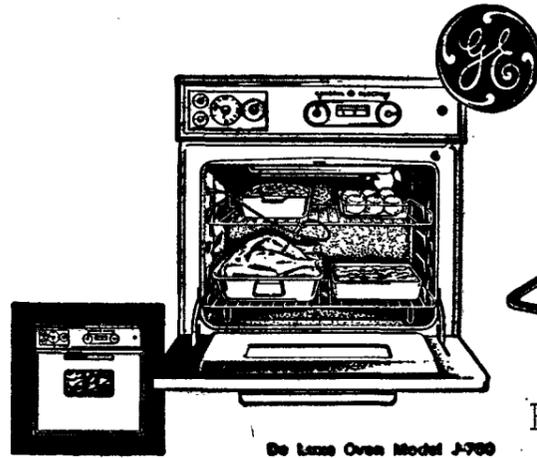
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SPORTS

German Air Force Schedules Return Match at Auburn

The German Air Force soccer team at the Ordnance Guided Missile School is preparing for a busy weekend April 8-9 with a return match against the Auburn University Soccer Club Saturday and a meeting with Gov. John Patterson in Montgomery Sunday.

The entire contingent of more than 100 German officers and airmen will accompany their team to Auburn for the return game with the Tigers scheduled to begin at 2 p.m. Saturday on the Freshman Football field.

The Missile School Team defeated Auburn here on Mar. 25 by a score of 5-3.

The students will be billeted at Maxwell Air Force Base in Montgomery and on Sunday, Apr. 9, are to tour historic spots in the Capital City under the guidance of the Montgomery Rotary Club. They are also to be greeted by Gov. Patterson by a Coffee at the Executive mansion.

VOLLEYBALL LEAGUE STANDINGS

Team	Won	Lost
HQ OGMS	9	1
291st MP Co.	7	1
866th Air Force	8	3
UTC	8	3
HQ USAG	8	4
Co. A, OGMS No. 1	6	4
Co. A, OGMS No. 2	4	6
3rd ETC	5	7
DET A ARGMA	0	14
DET B ABMA	0	14

Meadow Hills Team Loses to Redstone's All-Star Bowlersk

Redstone's All-Star Bowling team beat Meadow Hills, Huntsville City Champs, 2834 to 2493 Mar. 25.

High individual series was scored by Redstone's PFC. Robert Schlett with a 614; Pvt. Daniel Slak scored second high with a 604. Meadow Hills high man, Beasley, rolled a 550 series.

The best game of the evening was 245 rolled by PFC. Schlett and Pvt. Slak again was second with a 222 game. Beasley's 202 was high for Meadow Hills.

The Redstone team is slated to compete in the Third Army Tournament at Ft. Rucker Apr. 17-21. The team includes: Maj. Carroll Thompson, S/Sgt. Albert Chervanik, SP5 John Simchak, PFC. Schlett and Pvt. Slak.

HOLE-IN-ONE

SP5 Jerry Lucas of the Post Adjutant Office made a hole-in-one on No. 6 hole at the Athens Country Club Sunday morning.

Lucas, playing with SP5 Jack D. Williams of the Sports Office, Redstone Special Services, made the 185 yard drive on a Par 3 hole.

A twosome playing in front of Lucas and Williams, Mr. W. Van Gilbert and Paul Gish of Athens, witnessed the hole-in-one which is the eighth scored at Athens in the six and one-half years the course has been operated.



RADIO CONTROLLED EASTER BUNNY—One little girl plus an empty Easter egg basket equals a major crisis for the little girl. But the crisis was solved when Capt. Darrel D. Kasson, complete with helmet radio, stepped in. Capt. Kasson, Operations Officer in Redstone Arsenal's Provost Marshal's office, spotted the empty-handed hunter among the more than 500 children participating in Redstone's annual egg roll last week. The inevitable tears were held back when Capt. Kasson gave her a brightly-colored egg he had tactfully borrowed from a sharper-eyed participant.



SUGGESTION CONTESTANT: PFC. Woodrow J. Wilson received an award in the Post Military Suggestion contest with a safety suggestion. He is a Hawk mechanical repairman with the 515th Ord. Det. at OGMS who entered the Army in June, 1960.

Softball, Baseball Teams Warming Up

Unit level teams have responded to the "Call of the Diamond" and are warming up for baseball and softball within company areas.

The first softball game scheduled May 8 precedes the baseball season opening on May 30.

Clinics for officials are sponsored by Special Services for both

sports and will begin at the Rocket Service Club at 3:30 Apr. 10 for softball; May 1 for baseball, same place and time.

be obtained from the Special Services Sports Office, Bldg. 3643, phone 876-2943.

Information on the clinics may

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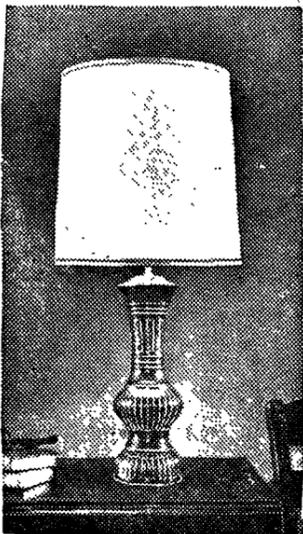
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TOGETHERNESS—Miss Peggy McGriff, secretary to Gerhard Reisig of the ABMA Research Lab, was selected "Miss Welder" at a recent meeting of the Greater Huntsville Section of the Alabama Welding Society. Miss McGriff took the honors at a charter meeting of the group, which now has some 65 members. She has been employed as a secretary for three years and attended Decatur public schools.

Gen. Eddleman Speaks on Military Research

Washington (AFPS) — The Army's Vice Chief of Staff is willing to bet you aren't aware of the part military research plays in your daily life.

Specifically he will wager that when you put on your shoes this morning you didn't know how important Research Development was to the little routine.

In a speech prepared for delivery before an Army-Industry Seminar in New Orleans, Gen.

discussions on indebtedness, contracts, loans, personal finances, purchasing on time, solvency and "confession of judgement."

One article will deal exclusively with legal assistance available to members of the Armed Forces no matter where they may be stationed.

The material for the series came from posts, camps, stations, bases—and even ships—all over the world. A great deal of background and information was furnished by the Army, Navy and Air Force legal assistance officials at department level.

Other material was furnished by the Better Business Bureau, bar associations and credit unions.

At one point the series points out that "no one is born with the built-in ability to manage money well. But you can learn."

"It takes skill," the series states "to make an income, no matter what size, cover expenses."

In another chapter a well-known bankruptcy referee takes a swipe at those who over-extend their credit.

A new generation of young people are coming along, he said, with a "built-in appetite for luxuries" who not only buy necessary household appliances, but television sets, autos, house trailers and "above all, motor boats."

An effort is made to present the 10-chapter series in easy-to-understand language. As far as practical, legal terminology is kept to a minimum.

Clyde D. Eddleman, the Army's second in command, said:

"... One of the oldest and most far reaching contributions of the Quartermaster Corps to civilian life was the popularization of left and right shoes.

"Prior to the Civil War," he said, "Most Americans wore shoes which would fit either foot.

"After necessary research, the QM Corps began procuring the so-called 'Crooked Shoes' for Union Troops, and through this action achieved their public acceptance."

Gen. Eddleman also pointed to other military developments which have had civilian application.

They ranged from nuclear power to insecticides and rodenticides, and also included printed circuit techniques and silicon transistors replacing complex wiring and vacuum tubes.

Foreman (to applicant of light physique): "Do you think you are fit for really hard labor?"

Applicant: "Well, some of the best judges in the country thought so."

* * *

He: "I'm glad I'm not a Frenchman."

She: "Why?"

He: "I can't speak French."

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Credit Buying Series Explains Pros, Cons

Ney York (AFPS) — Service newspaper readers around the world will be offered a probing look at the pitfalls and blessings, of modern-day credit buying in a series of articles pre-

pared by Armed Forces Press Service. The series will be distributed to ship, post and station papers toward the end of March.

Coordinated with the three military departments, the series seeks to enlighten servicemen and their dependents on the major hazards associated with buying "on time."

Included in the series will be

THE MODERN JAZZ QUARTET Will Appear in Concert — April 9

AT THE UNIVERSITY OF THE SOUTH, Sewanee, Tennessee

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TIME: 3:30 P. M. — PLACE: JUHAN GYMNASIUM
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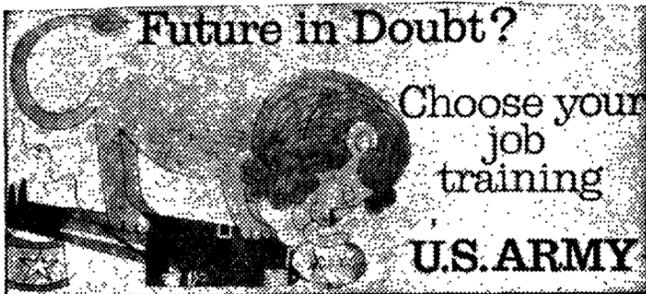
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CLOSE LOOK AT NIKE ZEUS was obtained by Gen. George Decker, Army Chief of Staff, (left) an Adm. Arleigh Burke, Chief of Naval Operations, during a tour of Zeus test facilities last week at White Sands Missile Range. Lt. Gen. John Hinrichs, Chief of Ordnance, (right) accompanied Gen. Decker and Adm. Burke. Walking between Adm. Burke and Gen. Decker is Louis H. Kellogg, Director of WSMR Operations for the Bell Telephone Laboratories. Nike Zeus acquisition radar receiver structure is partially visible in background.



ducted a total of five times at Sperry Utah facilities. A class of Artillerymen began in February. Other classes begin in April, May, and July.

Purpose of the three-month course is to train instructors and maintenance personnel for agencies which will later conduct classes for soldiers assigned to Sergeant units.

Representatives of the Ordnance Guided Missile School: the Army Artillery and Guided Missile School at Fort Sill, Okla.; White Sands Missile Range, N.M.; the Army Ballistic Missile Agency, and other installations will attend the classes. Approximately 150 persons will be trained in the program.

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First Sergeant Missile System Class Graduates

The first class of Army personnel to complete a three-month course of instruction in the Sergeant ballistic missile system received their diplomas recently in graduation ceremonies conducted

at Sperry Utah Company, Division of Sperry Rand Corp. Brig. Gen. Richard M. Hurst, Commander of the Army Ballistic Missile Agency, and Myron D. Lockwood, Vice President, Sperry Gyroscope Co., presented the diplomas to the 25 students, all members of the Army Ordnance Corps, who constituted this first class.



PFC JOHN H. KEELING
 Graduates with top honors from first Sergeant missile system class at Sperry Utah Company.

Also in attendance at the graduation ceremony were Maj. R. W. Brunson, Senior ABMA Representative at Sperry Utah and Maj. G. J. Harris, Commanding Officer, Salt Lake City Branch Office, U. S. Army Ordnance District, Los Angeles.

Sperry Utah is prime production contractor for the surface-to-surface, artillery missile system under the technical direction of ABMA, an element of the Army Ordnance Missile Command. The U. S. Army Ordnance District, Los Angeles, administers the contract.

Receiving a special award from Gen. Hurst as the outstanding student of this first class was PFC John H. Keeling, from the Ordnance Guided Missile School at Huntsville, Alabama.

The Sergeant course, prepared and conducted by Sperry field training engineers, will be con-

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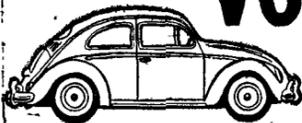
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H. M. S. PINAFORE IS JOINTLY PRODUCED BY LITTLE THEATER, COMMUNITY CHORUS, ORCHESTRA

More than 125 people in Huntsville have been working for the last three months to stage HMS Pinafore, as it is the annual joint project of The Huntsville Little Theatre, Huntsville Community Chorus and The Huntsville Civic Orchestra.

This comic operetta by Gilbert and Sullivan will be presented on Friday, Saturday, and Sunday, April 7, 8, and 9 at Lee Junior High in Huntsville. Curtain time for Friday and Saturday will be 8:15 and on Sunday there will be a matinee at 2:30.

Jakey Wood from The Little Theatre group will be the general director, and will direct the staging. Kenneth Turvey, director of the Community Chorus will be the orchestra conductor choral director with Bill Dennison as assistant to him and also as pianist in the orchestra.

Producer is Joanne Millican and Assistants to the Director are

George Parker and Joan Karr. Stage Managers are Jimmy Likos and Marilyn Milner. The following chairmen heads are from The Little Theatre: Technical Director, Robert Hubbard;

Choreographer, Barbara Ruff; Costumes, Ellen Harris; Hand Properties, Ruth Sachs; Publicity, Bill and Robbie Hallisey; Lights, Al Recht; Hair Stylist, Ann La Pointe; Make-Up, Dorothea Fryman; Scenic Art Work, Tom Melton;

Set Design, Tom Melton and Jim Burns; House Manager, Nancy Nilsson and Assistant House Manager, Peggy Willingham.

Having principle roles in HMS Pinafore are Lou Ezell Quinn as Josephine; James R. Cooper as Ralph; Charles G. Tedford as Sir Joseph Porter; Sam Fred Gross as Captain Corcoran;

Mary Claire Sefton as Buttercup; Wilber G. Bemis, Jr., as Dick Deadeye; Ruth Sachs as

Four Contracts Are Awarded for Work On Hawk, Sergeant

The Department of the Army March 30 announced the award of four contracts covering work to be performed on the Hawk and Sergeant missile systems and one target missile.

The Sperry Utah Company, Salt Lake City, Utah, received \$833,000 for production of warhead components, missile containers and shop maintenance sets for the Sergeant ballistic missile. Sperry is prime contractor for the Sergeant under the technical supervision of the Army Ballistic Missile Agency at Redstone Arsenal.

The Freuhauf Trailer Company of Los Angeles received \$1,075,913 for production of the basic enclosure and trailer frames for the Sergeant system.

Nortronics, a division of the Northrup Corporation, was awarded \$1,977,527.50 for production of Hawk missile wing assemblies.

Cousin Hebe; Hugh C. Collison as Boatwain's Mate and Clark DeJonge as the Carpenter's Mate.

Tickets for HMS Pinafore are \$1.50 for adults and \$1.00 for students or enlisted personnel and are on sale at The Book Shop, Busann's Shoe Store, and The Huntsville Public Library. Tickets also may be purchased from members of the three organizations. The Huntsville Times is sponsoring the performance.

This is the third annual joint project for the Little Theatre, Community Chorus and Civic Orchestra. The other two being Trial by Jury and The Mikado — both by Gilbert and Sullivan.

Represented in this production are civilian employees from ARGMA, ABMA, NASA, Thiokol Chemical Corp., Rohm & Haas, Chrysler Corp., and service men from Redstone Arsenal.



Nuys, California. Target missiles are used by the Army in testing air defense missiles.

The contracts are administered by the Los Angeles Ordnance District.

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Work will be performed at Nortronics plant in Anaheim, California. The Army Rocket and Guided Missile Agency is technical supervisor for the Hawk.

Radioplane Division of Northrup received \$2,898,961 for production of RP-76-3 target missiles. Work will be done in Van

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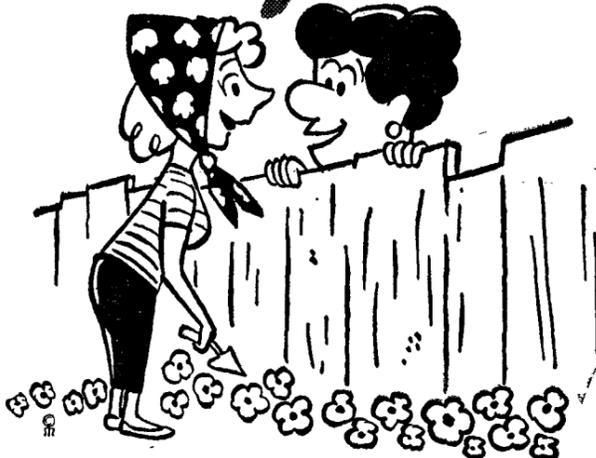


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| <p>2. TOE TIPS SCUFFED-If the toes of your shoes are scuffed off we can put on toe tips that blend in with the soles which will protect the upper leather from additional abuse. Price 75c</p> | <p>5. BOWS TEARING HOSE - If your clip-on bows or the stapled on kind are hurting your feet or tearing your hose we can sew them on or re-staple them properly to give you proper foot comfort. Cost nominal.</p> | <p>9. SHOES TOO BIG-If your shoes slip up and down on your heels or if they are too big elsewhere we can install an invisible filler that will make them fit you perfectly. Cost only \$50c</p> | <p>13. FULL SOLES - Many ladies shoes are best repaired by replacing the entire sole such as on some wedge types, or flat sole shoes. This gives completely new shoe appearance with old shoe comfort. Available in rubber, leather or crepe. Price \$2.75 to \$3.50</p> | <p>17. HEELS-We can replace any type heel on any type shoe. We have leather, rubber, nylon, neolite, crepe, and composition. Prices 75c to \$1.00</p> |
| <p>3. BROKEN HEELS - If you have broken heels or would like your old style heels replaced with modern Cinderella heels we can replace them for you and you will have a variety of styles to choose from including the new "stacked" heel. These heels may be covered with leather to match your shoes or dyed to match. In either case our painstaking finishing touches will assure you of complete satisfaction and an undetectable job. Prices start at only \$3.50.</p> | <p>6. FEET HURT-If your shoes are too tight for you or if they are rubbing your feet in only one spot or two we can stretch them for you without damaging the shoe in any way and give you foot comfort you never dreamed of. Cost 50c</p> | <p>10. HEELS SCUFFED - If your leather covered heels have become scuffed or torn we can replace the covers in the material of your choice. Price \$2.50</p> | <p>14. GOLF SHOES-We can make any repairs necessary on your golf shoes, or we can make golf shoes out of your most comfortable oxfords which will assure you of hours of pleasurable golfing. Price \$5.50 to \$6.50</p> | <p>18. HEEL LINERS-If the lining inside the heels are worn or coming loose let us replace the leather and insert a new heel pad. Will save many pairs of socks. Price 75c</p> |
| | <p>7. STEEL TAPS-If you have steel taps on your shoes and they are cutting your floors or making too much noise we can remove them and replace them with a durable nylon top lift that flatters the shoe. Cost \$1.00</p> | <p>11. SCRATCHED PLASTIC HEELS-If the finish on your plastic heels has become scratched or marred we can refinish them to look like new. Only 75c</p> | <p>15. HALF SOLES-We can put half soles on your child's shoes that will outlast the original ones. Price \$1.50 to \$2.25 Available in rubber, leather, or crepe.</p> | <p>19. STRAPS-If the straps on your child's shoes are broken or worn, we can replace them with the correct size and assure comfort for the wearer. Price 35c each</p> |
| | | | <p>20. BUCKLES - We can replace the loose or detached bow or buckle in most cases while you wait. Cost Nominal.</p> | |

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| <p>22. HALF SOLES LEATHER -- We take pride in half soling the invisible way. We use the best grade leather and use special care in stitching and finishing your shoes making sure the shape and size is retained. Let us half sole your next pair of shoes and get old shoe comfort with new shoe quality, and appearance. Price \$2.50</p> | <p>26. FULL SOLES-An almost new shoe is the result when full soles are put on your shoes. Every care is taken to display our workmanship. Full soles are available in Leather, Rubber, Neolite, and Neoprene. Prices Leather and Rubber without heels \$4.25 Neolite without heels \$4.50 Neoprene without heels \$4.50</p> | <p>29. LEATHER HEELS - We use only the best grade leather heels to give long wear. Leather top lift replacement \$1.20 Whole Leather heels \$1.50</p> | <p>33. FABRIC SHOES DYED - We dye fabric shoes 300 different shades \$1.50</p> | <p>38. ALLIGATOR AND LIZARD We can clean and re-glaze alligator and lizard shoes and handbags that will bring out the natural beauty of the skin. Cost \$1.00 up</p> |
| <p>23. HALF SOLES RUBBER: An EXCELLENT job can be done on your shoes using a rubber sole which will give you many months of service. Price \$2.50</p> | <p>27. RUBBER HEELS - Regular rubber heels in Cats Paw, Bilt-rite, or Goodyear \$1.20 Premium grade "Neolite" by Goodyear \$1.50 Premium grade "Nylon" by Bilt-rite \$1.50 Crepe heels in black, brown, red, or white \$1.20</p> | <p>30. INSOLES-We have available for you high grade leather insoles that we can fit to your shoes that will add much comfort to walking. Price \$1.00</p> <p>We also have in stock Dr. Scholl's foam rubber insoles that will keep your feet cool and comfortable. Price 69c</p> | <p>34. RE-DYE FABRIC SHOES - Fabric shoes that have previously been dyed in most cases can be cleaned and dyed the same or another color. Cost \$2.00</p> | <p>39. SUEDE SHOES - We can clean and re-suede any color suede shoe. Cost \$1.00</p> |
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Gen. Hurst Says: Today's Know-How Isn't Enough For Future Wins

An Army missile expert said today that victory on the battlefields of tomorrow depends on research done today.

Brig. Gen. Richard M. Hurst, Commander of the Army Ballistic Missile Agency said that victory in a conflict at some future date could not be founded on today's technology.

Instead, he told the Government and Industrial Research and Development Conference, it would demand weapons "based on new knowledge yet unmined on the endless frontiers of science."

Gen. Hurst noted that the "national budget for Fiscal Year 1961 includes more money for defense than the entire sum devoted to that purpose from the first shot of the Revolutionary War until 1940."

As reasons for this outlay of money, he listed the growth of our country to a position of

world leadership, the size and nature of threats to our security, and the amazing acceleration of science and technology.

"The growth of knowledge has rendered the lone researcher, operating on a try-and-try again method, unable to cope with problems that require the skills of highly trained mathematicians, physicists, chemists, and other scientists," he said. "Research has become a matter of teamwork."

For this teamwork, Gen. Hurst explained, the Armed Forces go to industry and the universities for assistance in basic research. Needs of the services are made known to interested organizations through the National Inventors Council, the Army Ordnance Corps' Qualitative Development Requirements Information program, the Army Research Office, and the Inter-service Data Exchange Program.

Gen. Hurst's agency is presently directing the development of the Pershing, a solid propellant, two-stage, inertially guided ballistic missile, scheduled to replace the now-famous Redstone. Others under ABMA's supervision include the Sergeant, the Corporal, the Honest John and the Little John.

Gen. Hurst described the various ways in which proposals are submitted by industry to the Army and the other services, as well as explaining how a missile system comes into being.

He also said the benefits of research and development during the past 20 years have not been confined to any one field. As examples, he cited increases in speed of travel, advances in medicines and methods of treatment of disease, instant nation-wide communications, as well as innovations in military science.



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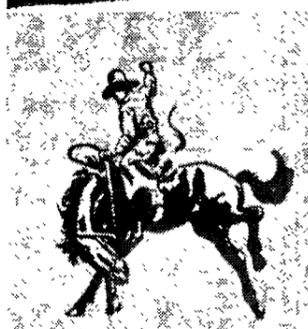
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FOR SALE — New 3 bedroom houses with den, 2 full baths. completely furnished, includes 3 bedroom suites, living room suite, dinette, built in oven and surface unit, refrigerator, dish washer, central air conditioning city sewage, G. I., \$150.00 pays all; FHA minimum plus \$150 closing, prices start at \$12,900.00 payments as low as \$85.50 including taxes and insurance. across from Albert Pick Motel. on Highway 72 east. Call JE 9-8491. tfc

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

FOR MOM — Soft water gets laundry cleaner, keeps clothes new looking longer, dishes drain dry and are sparkling clean without wiping. Call the Culligan Man, JE 9-3941. 1tc

FOR SALE — 6 ft. General Electric refrigerator, large freezer compartment, excellent condition. Can be seen at 2705 Thornton Circle, phone JE 9-7334 after 6 p.m. 1tc

FURNITURE REPAIRING AND REFINISHING — We specialize in antique and custom made to order furniture. Call or see George Weller, at Ray's Furniture Exchange, 4850 Governors Drive. Phone JE 9-4272. tfc

FOR SALE — Victor House Trailer, 46'x8', 2 bedroom, air condition, full price, \$1995.00. Call JE 9-0446 or 534-2761. tfc

RIVER LOTS—Nice wooded lots in Madison County. See Saturday or Sunday afternoon, or call BR 3-4481, New Hope at night. Terms. Turn at sign on 431 at New Hope. 4-5p

CUSTOM PHOTO FINISHING— Black and white fine grain 35/mm and 120/620 Developing —proof sheets or jumbo type prints and enlargements. Write Cedric Heath, P. O. Box 551, Huntsville, Ala. 4-5p

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Sherwood Park

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Madison County History To Be Taught at Center

A non-credit course on the History of Madison County to 1860 will begin Sunday afternoon, April 9 at 3:00 p.m. at the new University Center building.

Included in the eight sessions of this Sunday afternoon course will be lectures on "Pre-Historic Times in the Tennessee Valley," "Early Beginnings in the Bend of the Tennessee," "Pioneer Life in Madison County," "The Formative Period in Madison County,"

FOR SALE: 1959, 14-foot Glasspar runabout with 35 hp electric-starting Johnson motor, trailer, complete skiing equipment, and many accessories. Call 876-4381 or Guntersville JU 2-5418. 1tp

Southeast Section

3 bedroom all brick, new 1 and ½ baths, kitchen and family room combination. 100% G. I. Loan. Buy now and select all colors.

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Parkway City

Huntsville as the Capital of Alabama." From Log Cabin to White Columns in Madison County," "People, Parties and Politics in Madison County," and "Madison County on the Eve of War Between the States."

Persons interested in taking this course may make application for the series at the registrar's office at the University Center.

The group will meet once a week for eight weeks on Sunday afternoons from 3:00 until 5:00. The cost of the course will be ten dollars.

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LILY FLAGG
New 3 bedroom, 2 bath brick home on lot 150'x150'. This is Kingsberry's "COLBERT" Model Home with year-round air conditioning, and all built-ins. Double carport. Price \$20,300 with \$2,500 down FHA.
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100% VA
2008 FULTON DRIVE—Some lucky veteran can own this new three bedroom and den home for only \$200 closing cost. Has such features as built in range, oven and hood. Large lot with big tree on back of lot. Better hurry to see this one.

Equity Buys
VOGEL DRIVE—You may purchase an actual equity of \$2250 for only \$1000, in this three bedroom brick home on large lot with apple trees. Better hurry on this one. 2112 GRIFFITH DRIVE—Only \$650, gets you a deed to this lovely three bedroom home with carport. Payments \$88.25 per month.

Phone To See Anytime
Hunter & Mitchell
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EASTER SUNRISE SERVICE—More than 1,000 worshippers attended the "Easter Sunrise Service" held in front of the Redstone Arsenal Post Chapel with the Rev. Harrison McMains (above) of the First Christian Church in Huntsville delivering the sermon. Three crosses were erected in the field behind the chapel. The speakers stand contained the U. S. Flag, the Church Flag, a cross of Easter lilies with lilies in pots outlining the edges of the platform. Participants in the service included the Huntsville High school chorus, the 55th Army Bafid, ministers from Huntsville and the Arsenal.

Births at Post Hospital

Barbara Joy Barth, 5 lbs., 14 ozs., Mar. 23, daughter of SP4 and Mrs. Jimmie D. Barth.
 Shawn Michael Howard, 7 lbs., 3/4 ozs., Mar. 25, son of Pvt-2 and Mrs. Roger A. Howard.
 Linda Christina Wray, 4 lbs., 10 3/4 ozs., Mar. 26, daughter of Pfc and Mrs. Lancaster S. Wray.
 Cathryn Givan, 7 lbs., Mar. 26, daughter of Pfc. and Mrs. Larry E. Givan.
 John George Muhlhauser, Jr., 8 lbs., 3/4 ozs., Mar. 27, son of SP5 and Mrs. John G. Muhlhauser.
 Charles Lee Harman, 5 lbs., 11 1/2 ozs., Mar. 27, son of SP4 and Mrs. David E. Harman.

TOOL ENGINEERS MEET

The American Society of Tool and Manufacturing Engineers will meet at Michael's Restaurant tomorrow night at 6:30 p.m. for steak dinner, a movie and a technical session.
 Two speakers, both Californians, will represent the Forming and Fabrication Division of the Huford Company and the Precision Roll Products, covering the subject of Stretch Forming versus Roll Forming.
 David Paul IV, 7 lbs., 2 1/4 ozs., Mar. 28, son of 1st Lt. and Mrs. David Paul III.
 Charles Edward Alther Jr., 8 lbs., Mar. 28, son of SP4 and Mrs. Charles E. Alther.

JOIN AMERICA'S UP-TO-THE-MINUTE MEN



YOUR NATIONAL GUARD

Army Engineers Test Versatile Crawler

Ft. Belvoir, Va., (AFPS)—The Army Engineer Research and Development Laboratories are testing a multi-purpose crawler tractor that can be dropped from the air and is amphibious.
 Designed to meet modern warfare's demands for ultra-flexibility, it is called the universal engineer tractor (UET). It has the capabilities of a scraper, grader, cargo carrier, dump truck and a high speed prime mover.
 Although light enough to meet airborne requirements, UET is able to perform the work of heavy earthmoving equipment by means of a unique self-loading ballast bowl or compartment.
 The front-loading bowl can be filled with dirt, or other available ballast, thereby doubling the airborne weight of the vehicle. This provides a maximum drawbar pull of 17 1/2 tons which is equivalent to that of a conventional tractor and twice the UET's empty weight.
 The tractor is powered by a 250 hp., V-8 liquid cooled, gasoline engine located in the rear of

the vehicle. Controls are also located in the rear to give the operator an unobstructed forward view of the bowl during the scraper-loading operations.

speed of four miles an hour.

Another unique feature is a hydro-pneumatic suspension system controlled by the operator. In a solid or unsprung state, the suspension system permits the machine to perform earthmoving and other such functions, but in a sprung state the tractor can run smoothly on and off the highway at convoy speeds.

The crawler tracks will propel it across rivers and lakes at a

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- 1955 Ford Coupe \$27.00 per mo.
- 1953 Olds \$27.00 per mo.
- 1954 Chevrolet \$27.00 per mo.
- 1955 Plymouth \$27.00 per mo.
- 1956 Ford \$27.00 per mo.
- 1955 Ford \$34.84 per mo.
- 1956 Ford \$34.84 per mo.
- 1956 Ford 2-dr. \$34.84 per mo.
- 1956 Ford 4-dr. \$34.84 per mo.
- 1956 Buick \$38.90 per mo.

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Shell Collecting Is Hobby At Zeus Site on Kwajalein

Shell-collecting is more than a hobby for military and civilian personnel readying a test complex for the U. S. Army's Nike Zeus anti-missile missile system on Kwajalein Island, one of the many Pacific Missile Range facilities in the Pacific.

Talk about "shells" on Kwajalein however, is apt to concern the high-explosive variety fired by battleships, mortars, and field artillery. Reference to "bombs" carry the same meaning as they do elsewhere.

Destruction by the ton rained on the island and the waters that surround the horseshoe-shaped land mass during a fiercely-contested battle between U. S. forces and the Japanese occupants of the island during World War II. Great quantities of unexploded ordnance remained after the seven-day action.

Much of it lay intact and undiscovered until the Army began construction of its Nike Zeus test facility on the island under the supervision of the Army Engineers, Honolulu District.

Kwajalein will be the site for final tests of the complete Nike Zeus system. Nike Zeus missiles fired and controlled from Kwajalein will intercept Atlas intercontinental ballistic missiles fired westward over the Pacific from California.

Extensive site work on the island was required. Submarine communication cables that will be required in the tests are now being laid in the ocean around the island.

"Shell" collecting, incident to these operations, is carried on by a four-man Explosive Ordnance Disposal team commanded by Lt. (JG) John C. Culbertson USN of San Diego, Calif., one of the Navy units cooperating in the inter-service work required to prepare testing of this Army anti-missile system against Air Force target ICBMs on the Navy's Pacific Missile Range.

Ordnance disposed of on Kwajalein between August 1958 when the cleanup operation began and the end of 1960 included:

500 lb. bombs (U.S.)	3
100 lb. bombs (U.S.)	5
Type 99 bombs (Japanese)	2
350 lb depth bombs (U.S.)	2
16 inch projectile (U.S.)	6
14 inch projectiles (U.S.)	18
8 inch projectiles (U.S.)	2
6 inch projectiles (U.S.)	4
5 inch projectiles (U.S.)	200

4.7 inch projectiles (Japanese)	152
3 inch projectiles (U.S.)	4
120mm projectiles (Japanese)	1
3.75 inch rockets (U.S.)	17
2:25 inch rockets (U.S.)	10
90mm mortars (Japanese)	2
81mm mortars (Japanese)	17
75mm projectiles (U.S.)	228
70mm mortars	6
60mm mortars (U. S.)	27
51mm mortars (Japanese)	51
47mm mortars (Japanese)	504
37mm projectile	1
20mm rounds (U.S.)	100
30-50 cal. rounds (U.S.)	84,389
Hand grenades (Japanese)	5
Hand grenades (U.S.)	179
Incendiary hand grenades (U. S.)	61
Smoke hand grenades (U.S.)	371
CN hand grenades (U.S.)	524
Jet engine starters (U.S.)	74

JATO Units (U.S.)	2
Assorted Projectile fuzes (Japanese & US)	357

The shell-collecting continues. The ordnance materiel is a common sight on the island to Army and industrial representatives now installing Nike Zeus equipment in preparation for the forthcoming tests.

Several Army Rocket and Guided Missile Agency officers, representatives of the Army's technical supervisor of Nike Zeus development, have their families on the island. Family living quarters are also occupied by Navy Pacific Missile Range personnel, Honolulu District Army Engineer people, and Nike Zeus civilian contractors.

These latter include representatives of Western Electric Co., the system prime contractor; Bell

Movie Schedule

Wednesday, April 5, "The Pharaoh's Woman" (M) starring Linda Cristal and John Drew Barrymore. Time 1800 and 2030 hours.

Thursday-Friday, April 6-7, "Cimarron" (F) starring Glenn Ford and Maria Schell. Time 1800 and 2030 hours. INCREASED AD-

Telephone Laboratories, whose men are responsible for system design and development; Douglas Aircraft Co., the missile builder; and the Transportation Co. of Texas, which provides logistic support for Kwajalein.

The clearing of Kwajalein harbor, and the island proper was begun in 1949 by the Navy, but the requirements of the Nike Zeus project have greatly speeded the schedule.

As construction proceeded, increasing amounts of ordnance were turned up. The EOD team immediately bustled in and made the area safe.

"Shell" collecting, Kwajalein style, is left strictly to Lt. Culbertson and his disposal experts.

Mrs. Crane Captains Winning Golf Team

The Golf Group of the Redstone Arsenal Officers Wives Club played Wednesday, March 29, at the Special Services Golf Course at Redstone Arsenal in "dogfight" competition.

Approximately 28 members were on the course.

Captain of the winning team was Mrs. Glenn Crane. The team included Mrs. E. W. Powell, Mrs. H. E. Fite and Mrs. J. R. Miller.

MISSION: 40c.

Saturday, April 8, "Days of Thrills and Laughter" (F) starring Laurel and Hardy and Charlie Chaplain. Time 1800 and 2030 hours. SPECIAL MATINEE: 1000.

Sunday-Monday, April 9-10, "The Fiercest Heart" (M-YP) starring Juliet Prowse and Stuart Whitman. Time Sunday 1400, 1800 and 2030 hours. Time Monday 1800 and 2030 hours.

Tuesday, April 11, "Sayonara" (M) starring Marlon Brando and Red Buttons. Time 1800 and 2030 hours.

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PRIZE GAMS — Movie star Angie Dickinson during a visit to New York shows two reasons why she recently won the Golden Calf Award for the "prettiest legs in Hollywood."