

The Redstone Rocket

VOL. VI; NO. 11

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

JULY 10, 1957



HANS G. PAUL

Technical Paper Wins Hans Paul \$500 Cash Award

Hans G. Paul, a noted scientist at the Army Ballistic Missile Agency, has won a \$500 cash award for a technical paper he presented two weeks ago at the United States Military Academy.

Mr. Paul's paper, dealing with the missile re-entry heating problem, was presented at the Army Science Symposium, a classified conference where Army scientists offer their work for technical criticism.

Franklin L. Orth, deputy assistant Secretary of the Army, called the paper "a particularly outstanding contribution to scientific knowledge." Mr. Paul's presentation was one of five given by ABMA personnel.

Mr. Paul is chief of the engineering analysis section in ABMA's Structures and Mechanics Laboratory.

He holds mechanical engineering degrees from the Munich and Hannover institutes of technology in Germany. He was a development engineer at the German Rocket Research Center, Peenemuende, from 1942 to 1945. He has been associated with the U. S. Army missile development program since 1945, first at Ft. Bliss, Texas, and since 1950 at this installation.

Only GM Reserve Unit in Ordnance Trains at OGMS

The Army Ordnance Corps' only Reserve guided missile unit is here for two weeks training at the U. S. Army Ordnance Guided Missile School.

The 448th Ordnance Company (Guided Missile Direct Support) (Nike) of Winston-Salem, North Carolina, arrived Sunday and is undergoing its first on-site missile training since the unit was activated a year and a half ago. Last summer the unit engaged in two weeks training at Fort Bragg, North Carolina.

Unique, in that it is the only unit of its type anywhere in the world, the unit has a present strength of 21 enlisted men and five officers, headed by Captain James D. Hill, the Company Commander. The unit has a full strength far in excess of its present level, and is currently undergoing an expansion program.

Nearly all members of the 448th are employed by the Western Electric Company, of Winston-Salem. Western Electric manufactures the Nike missile.

The unit, which is also the first Reserve organization ever to undergo training here at OGMS, is receiving detailed instruction and on-the-job training on all aspects of the Nike-Ajax and Nike-Hercules missiles. Both are anti-aircraft guided missiles capable of tracking and destroying nearly any present day aircraft.

Instruction is being carried out by members of the School's Officer Training Division for the first half of the two week period; on-the-job training will come next week when the 448th will (See ONLY UNIT on Page 2)

\$9-Million in New Buildings Start; Jobs Under Way Total \$24-Million

1,500 EMPLOYED ON CONSTRUCTION

Over \$9,000,000 in new construction contracts have been awarded for this installation in the past two weeks.

These new projects bring to \$24,415,162 the value of construction now underway on the post, a Corps of Engineers spokesman said today. The work is being done for all three of the major organizations which make up this Army rocket and guided missile center: Redstone Arsenal, the Army Ballistic Missile Agency and the Ordnance Guided Missile School.

Some 1,500 persons are employed in this construction work, in addition to the 14,500 who work permanently at the installation.

The biggest of the new projects is the construction of five buildings for the School, which contract was awarded recently to Blount Brothers Construction Co. of Montgomery. The three classroom and lab buildings and two shop buildings will be erected off Patton Road, north of OGMS headquarters. The five units will cost nearly \$4,000,000, and are to be completed in June, 1958.

J. A. Jones Co. of Atlanta is preparing the sites and utilities for the five on a contract amounting to \$727,851.

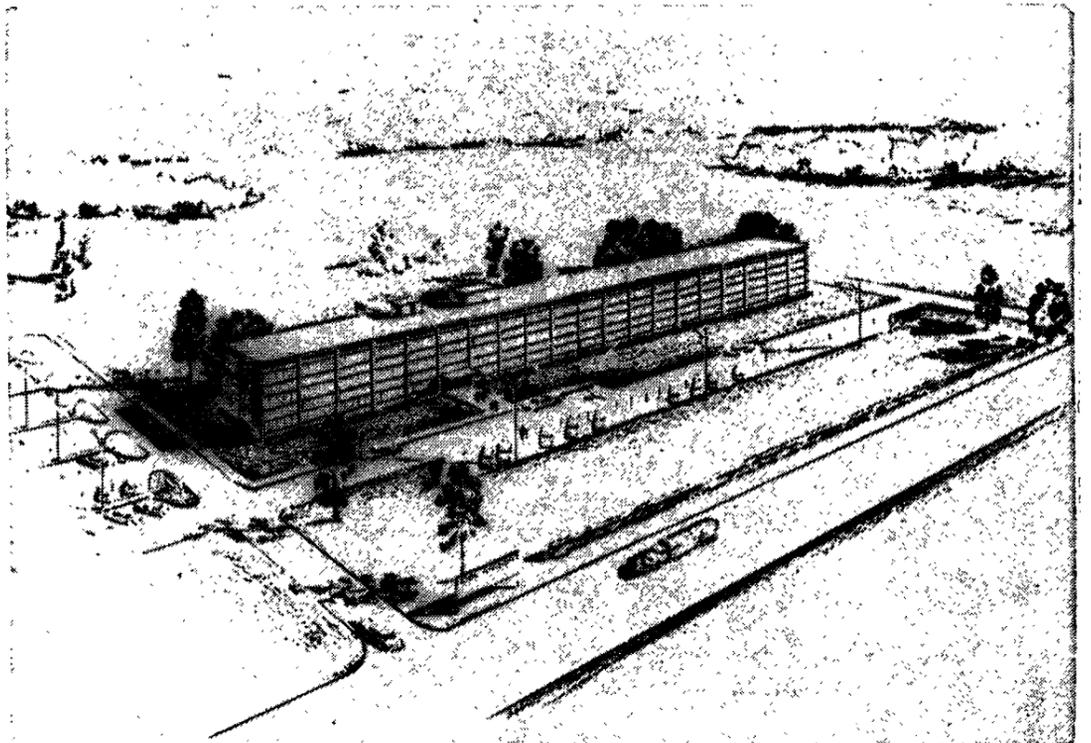
Also in the School area, Early Service Co. of Birmingham is relocating and adding to the steam line network, on a \$287,000 contract.

A \$1,300,000 contract was let last week for the construction of a missile surface treatment facility at ABMA. Also held by Blount Brothers, this project is to be finished in July, 1958. It is located west of building 495-B.

The other new, major projects are for Redstone Arsenal and are located south of Martin Road near the Martin-Dodd intersection.

Batson-Cook Co. of West Point, Ga., was awarded a \$1,617,701 contract for building an acceptance test and qualification structure, which will join Building 499 on the west and south sides. This building is scheduled to be completed in late August, 1958.

Just east of that project will (See \$9-MILLION on Page 2)



NEW ENGINEERING MISSION SUPPORT BUILDING — This is an architect's drawing of the proposed Redstone Arsenal engineering mission support building, construction of which will start this month. The structure will be on the south side of Martin Road, east of Building 499. More than \$9 million in new construction contracts have been let for this installation in recent days, bringing to more than \$24 million the value of projects now in progress.

Arsenal Losing Seven Colonels in Summer

Redstone Arsenal is losing three colonels and four lieutenant colonels during the summer to overseas posts and to schools in the United States.

Col. Eugene J. Sweeney will attend a 10-month term of the National War College at Fort Leslie J. McNair, Washington, D. C., reporting there about August 19. He has served as chief of the Plans Coordination office at Red-

stone. Col. Miles B. Chatfield will leave for an assignment in Germany, probably the latter part of August. He has served as director, Ordnance Missile Laboratories, and chief of the Research and Development Division here.

Col. Merlin L. Deguire, Industrial Division chief, now on leave in Florida, will sail from San Francisco the latter part of July for duty in Korea.

Lt. Col. Oliver M. Hirsch, executive officer, will enroll in a two-year industrial management course of instruction at Chicago University, starting about August 15.

Lt. Col. O. Hiram Cowart, post surgeon and commanding officer of the U. S. Army Hospital, will report for duty August 7 at Fort Polk, La.

Lt. Col. Wells H. Gibbs, Redstone's Research and Development Division liaison officer at Jet Propulsion Laboratories, Pasadena, Calif., will enroll in the Air War College at Maxwell Air Force Base the last of August for nine months.

Lt. Col. Albert M. Ruemmele reported July 1 for the Army Language School at the Presidio of Monterey, Calif. He was assistant for services in the office of the Deputy Post Commander at Redstone.

Col. Sweeney, a West Point graduate, served in the European and Mediterranean Theaters during World War II. Among his post-war assignments have been tours of duty with the Joint Chiefs of Staff, Chrysler Corporation, the Central Intelligence Agency, and advisor to the Kingdom of Saudi Arabia.

Among his awards are the Legion of Merit and the Order of the British Empire.

Col. Chatfield is a graduate of the United States Military Academy and has a masters degree in engineering from Massachusetts Institute of Technology.

He served in the Philippines and (See LOSING 7 on Page 3)

Gen. Toftoy Returning This Week

Major General H. N. Toftoy, Commanding General of Redstone Arsenal, is expected to return to full-time duty late this week.

He recently underwent a series of operations at the Walter Reed U. S. Army Hospital in Washington, D. C., and at the U. S. Army Hospital here.

"General Toftoy has recovered completely from his illness and will resume his duties with renewed strength and energy," the post surgeon, Lt. Col. O. H. Cowart, said.

General Toftoy is tentatively scheduled to make a short trip to Barcelona, Spain, in October, it was also announced today. He has been invited by the American Rocket Society to address the International Astronautical Federation at an annual meeting.

ABMA Labs Accrue 5-Million Manhours Without Accident

Seven laboratories of the Army Ballistic Missile Agency have accrued nearly five million manhours of work without a single disabling injury.

Representatives of the labs were presented certificates recognizing their achievement Tuesday by Maj. Gen. J. B. Medaris, Agency commander. The certificates were awarded by the Chief of Ordnance, Washington.

Safety records attained were: Structures and Mechanics Lab, 1,068,850 manhours; Guidance and Control Lab, 1,178,922; Launching and Handling Lab, 360,052; Systems Analysis and Reliability Lab, 328,415; Technical Materials and Equipment Branch, 407,373; Fabrication Lab, 1,417,327; and Computation Lab, 293,727.

All of the laboratories are segments of the Development Operations Division, headed by Dr. Wernher von Braun.



NEW SUN HELMET — The new type headgear, optional this summer at the Arsenal, is given a try above by OGMS personnel. Pvt. Frank Costanzo, left, wearing the conventional overseas cap, watches while Marilyn Milner, an employe in the military personnel section of the School, adjusts a helmet on Pvt. Al Contento.

The Redstone Rocket

The Redstone Rocket is a privately owned newspaper published every Wednesday by Jack W. Hoffhaus, Hartselle, Alabama, with exclusive regard for the reader interests of personnel at Army Ballistic Missile Agency, Redstone Arsenal and Ordnance Guided Missile School in accordance with an agreement between the publisher and the Public Information Office, Redstone Arsenal, Huntsville, Alabama.

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\$9-MILLION

(Continued From Page 1)

be located an engineering mission support building, which has been awarded to Daniel Construction Co. of Birmingham on a \$1,206,910 bid. It is to be ready in July, 1958.

The one remaining new project is for a minor addition to Building 405A at ABMA. Costing \$72,000, this work is being done by Pearce and Gresham of Decatur. A resume of older projects follows:

Three static testing service buildings, costing \$600,000, are virtually complete and at least partially occupied. This job, in the Thiokol area of Redstone, was done by Whaley and Co. of Birmingham.

Two hundred and seventy family housing units, being built by Bush Housing Corp. of Norfolk, Va., are 63 per cent completed. All are to be occupied by November, 1957. This work is costing \$8,790,000.

The addition to ABMA's engineering building at the test stand is virtually completed. Cost of this project was \$513,000, and the work was done by Butler and Cobbs of Montgomery.

Also in the ABMA area, an addition to the structural fabrication lab, costing \$1,110,000, is 80 per cent finished, with completion date set late next month. The J. A. Jones Co. is the contractor.

The missile assembly and inspection hangar, west of building 405B at ABMA, will be completed by Blount Brothers in October at a cost of \$2,114,000. The work is 79 per cent accomplished now.

A guided missile test shop, south of ABMA headquarters on Dodd Road, will also be finished in October. It is costing \$1,225,000.

The \$4,280,000 structures and mechanics lab at ABMA is 26 per cent complete now and should be ready for occupancy in August, 1958. Located across the street from Building 487, this lab is actually a four-building complex. It is being constructed by

RELIGIOUS SERVICES

The following religious services are held each Sunday at the Post Chapel, Building T-151, in the old Troop Area. You are invited to attend the services of your faith regularly.

PROTESTANT

10:00 a.m. — Morning Worship.
10:00 a.m. — Sunday Church School for children ages 3 to Senior High.

Holy Communion is served the first Sunday of each month.

CATHOLIC

7:30 a.m. — Confessions.
8:00 a.m. — Sunday Mass and Benediction.

JEWISH

Services are held at Temple B'Nai Shalom, Lincoln and Clinton Streets, Huntsville, at 8:00 p.m. on Friday.

Attend the services of your faith regularly. If you haven't already started, begin this Sunday. A free nursery is conducted

ONLY UNIT

(Continued From Page 1)

engage in the same schedule followed by the 566th Ordnance Detachment, a Nike support unit based at the Unit Training Center here at OGMS.

Post Engineer Office Gives \$452 to Help Stricken Bethel Child

Workers in the Post Engineer Office have contributed \$452 to help pay hospital bills and medical attention being given little Ann Clem, 11-year-old daughter of Mr. and Mrs. Buford Clem, tenant farmers on Rt. 2, Arcmore, in the Bethel Community.

The little girl has been ill for more than a year, and requires three blood transfusions a week.

Her brother, L. B. Clem, is employed at Post Engineers.

"I would like to thank all those who contributed to the fund to help my sister," Mr. Clem said, "especially W. B. Ferguson, who started the drive."

Applicants Asked In 2 Fields Here

Two fields of employment are open here, according to a announcement by the U. S. Civil Service Examiners.

The first, No. 5-35-29(57), calls for typewriter repairer at WB-10 (\$1.92 per hour) and for office appliance repairer at WB-14 (\$2.22 per hour).

The second, No. 5-35-21(57), calls for structural iron workers at WB-16 (\$2.37 per hour). Both examinations are open until further notice. No written test will be required.

J. A. Jones.

The computation lab, south of the Agency headquarters at Martin and Dodd roads, has been about half completed by Blount Brothers. Cost of the project is \$1,463,000.

In the school area, Buildings 682 and 689 are being air conditioned by Incho Mechanical Contractor of Birmingham on a \$185,690 contract. This work is to be completed this week.

Finally, the modification of Building 431, ABMA, will be completed next month by Brown Plumbing and Heating Co., Birmingham, on a \$80,000 contract.

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CHAPEL BUS SCHEDULE

Catholic Mass:
Leave Troop Area — 7:25 a.m.
Arrive Chapel, Bldg. T-151 — 8:00 a.m.
Leave Chapel — 8:50 a.m.
Arrive Troop Area — 9:00 a.m.

Protestant Service:
Leave Troop Area, Bldg. 681 — 9:30 a.m.
Arrive Wherry Housing Area — 9:40 a.m.
Leave Wherry Housing Area — 9:45 a.m.
Arrive Chapel, Bldg. T-151 — 9:55 a.m.
Leave Chapel — 11:05 a.m.
Arrive Wherry Housing Area — 11:15 a.m.
Arrive Troop Area — 11:25 a.m.

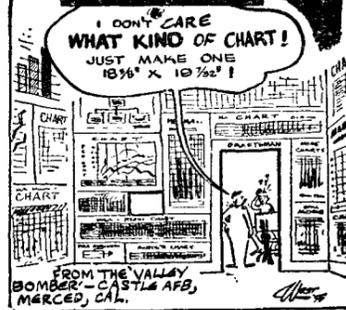
Rhymes of the Times

DON'T DRIVE LIKE A TORTOISE
NOR AS FAST AS A HARE
USE GOOD SENSE
AND DRIVE WITH CARE



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SEEKING BEAUTY TITLE — Here are three of the more than 50 young ladies who are competing for the 1957 "Miss Guntersville Lake" title. They are, left to right, Misses Sally Locklear, Jacqueline Morgan and Lynda Lowery. The contest is being held in conjunction with the Guntersville Jaycees' annual inboard boat races, set for July 20 and 21.

LOSING 7

(Continued From Page 1)

Japan during World War II, and holds the Legion of Merit and Bronze Star. Col. and Mrs. Chatfield have two children.

Col. Hirsch attended the school of engineering at the University of Missouri and the Finlay School of Engineering. A transfer to the Ordnance Corps from

the Infantry, he is a graduate of the Command and General Staff College.

Col. Hirsch was presented the Legion of Merit during the Army's 180th birthday celebration at Redstone in June, 1955. He also holds the Bronze Star and Army Commendation medal. While he was commander of the 67th Ordnance Battalion in Korea his unit twice was cited in meritorious unit commendations and received the Korean presidential unit citation.

Col. Cowart, a Mississippian who was born near Gulfport, studied at Texas University and received his M. D. in 1925 from the University of Pittsburg in Pennsylvania.

He practiced general medicine in Boston, O'la, until 1942,

when he entered the Army for three and a half years. He performed field surgery while following Patton's Third Army from Normandy into Germany.

After the war he returned to his practice in Bristow until re-entering the army in 1955. Col. and Mrs. Cowart have four children.

The need for highly trained people in the Army, with appropriate skills and specialists, arises from the nature and complexities of modern weapons systems.

Toastmasters Meet; Gen. Shinkle, Others Are Guests of Club

Brig. Gen. J. G. Shinkle, deputy commanding general, Redstone Arsenal, was a guest of the Redstone Toastmasters Club last Tuesday evening. A picnic, the first of two scheduled for the summer, was held on Arsenal picnic grounds. Barbecued chicken was served to members, guests and their wives. Other guests were Major and Mrs. John Caryi, Mr. and Mrs. Wayne Shaul and Mr. and Mrs. Toni Demetriou.

Capt. Ruddy Nottrodt served as chairman. Evaluators were Messrs. Bob Cramer, Bill Greene, Webb Mayfield and Bob Smith. Mr. Paul Kelly was topic master. Mr. T. C. Burns was the grammarian. Mr. Steve Dobbs was general evaluator. Mr. Jim Keat was toastmaster for the evening.

Mr. Jack Nelson was voted the best speaker for his presentation of a humorous monologue titled, "Elevator Operator." Other speakers for the evening were Maj. Bob Darnell, Capt. Rudy Nottrodt and Lt. Don Swartwout.

Silver cups were presented to Capt. Rudy Nottrodt and Messrs. Jim Keat and T. C. Burns for having been three time winners

of the best speaker award. Gen. Shinkle, in commenting on the objectives of the Toastmasters Club, made reference to the benefits which any Army officer could derive from participation in its activities.

Rhymes of the Times

DON'T ANNOY FOLKS UNTIL THEY FLOP - HALT YOUR GAB - PEP! HERE THEY BLOW THEIR TOP

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REDSTONE EMPLOYEES ELECTED BY ALABAMA CHEMIST CHAPTER

Two Redstone Arsenal chemists were elected to offices in the Alabama Chapter of the American Institute of Chemists at its last meeting, held in Tuscaloosa recently.

Martin B. Williams, employed in the Materials Lab, Rocket Development Laboratories, was elected secretary. William C. Ingersoll, of Thiokol Chemical Corp., was chosen treasurer.

Dr. Charles E. Feazel of the Southern Research Institute in Birmingham was elected chairman, and Dr. Emmett B. Carmichael of the Medical College of Alabama, was chosen chapter representative to the national Council.

There are only two chapters of the Institute in the South. Besides Alabama, there is a chapter in Louisiana.

Another Arsenal employe, here for the summer, will address the dinner meeting of the Alabama Chapter of the AIC in Birmingham August 9. He is Dr. Paul B. Tarrant, professor of chemistry at the University of Florida, and one of the country's leading fluorine chemists. Dr. Tarrant is a special chemical consultant in high energy propellant research at Redstone. His topic at the Birmingham meeting will be "Progress in Fluorine Chemistry."

Reservations for the dinner can be made by calling Martin Williams, Redstone Arsenal, extension 3795.

At the meeting in Tuscaloosa Mr. Williams reported on the Institute's annual meeting held re-

cently in Akron.

The Alabama Chapter will give emphasis during the next year to increasing membership, study the crucial shortage of scientists to make the best use of professional abilities, and promote more pride and comradeship among Alabama chemists and chemical engineers.

Language Problem Adds Zest to Job Of Visitor Bureau

FORT BRAGG, N. C. — If the Department of State has any vacancies for protocol officers, a fertile field for recruits would be the Visitors Bureau here which, since the fall of 1955, has welcomed and looked after the varied needs of more than 350 military and civilian dignitaries from 52 nations.

The news of a forthcoming visitor doesn't send the staff of the bureau into a dither. Instead a representative repairs to the post library for information on the customs, traditions and history of the guest's homeland.

Although flags are available for honoring 71 nations and the guests generally eat American-style food, sometimes, as in the case of a recent Spanish visitor, the problem of the national anthem comes up. No anthem was available. That problem was easily solved when it was learned that Spain uses a hymn instead of a national anthem.

Occasionally the American staff gets shaken up a bit by a culinary problem. A Southeast Asian group came through to watch demonstrations of airborne, guerrilla and artillery training and the members admitted they were hungry for homecooking — from their own home.

So as pop-eyed soldier mess personnel looked on, the visiting general and his high-ranking staff combined rice, beef, pork, cabbage, three kinds of garlic, three kinds of onions and several types of hot sauces into a delectable concoction, and the visitors



DIP — Pretty showgirl Beverly Price, 20, of New York City starts the day right with an early morning dip at Coney Island during a recent heat wave.

Four-Gaited Mule Returns to Army As Cadet Mascot

FORT CARSON, Colo. — The illustrious mule named Trotter, now retired from the Army, probably is going back on semi-active duty, according to the word received here at his last duty station.

He appears to be headed for a really "posh" assignment, that of mascot at the U. S. Military

tucked in their napkins and enjoyed themselves.

One problem the bureau definitely doesn't have is that of communication with the visitors. From a military intelligence unit on the post can be found soldiers fluent in 28 languages.

Since most of the visitors speak at least one tongue other than their own, a man can usually be found who speaks a third language with which the visitor is familiar, if no interpreter is able to speak the guest's native language.

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Academy at West Point, N. Y. Trotter and more than 300 mule brethren were retired from the Army here last December when mules and the military parted company permanently. About 160 were sold to private bidders, and the others went to such federal agencies as the U. S. Forest Service and National Park Service.

Trotter was sold to the Pikes Peak Rodeo Association of Colorado Springs. So was Hambone, famous white jumper and valedictorian of mule graduates.

Upon receiving word from Carson that West Point was looking for a mascot replacement, rodeo authorities voted to donate Trotter to the academy.

Kenneth Brookhart, association director, said the mule will be released from his Colorado obligations in the fall at the end of the rodeo season if the academy still wants him.

West Point decided on Trotter rather than 20-year-old Hambone because he's eleven years younger, and presumably better able to stand the excitement of appearances at football games.

Trotter's unique qualifications for the honor are as formidable

as those of the more famed Hambone. At the retirement ceremonies for the Army's last mule he was cited as "the single one out of thousands who is master of four gaits—the walk, trot, gallop and pace."

By the end of 1956, more than 850 students from 25 educational institutions throughout the country were employed at Army installations under the five-year co-operative training program for students in engineering and science.

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1956 FORD — Stock No. 9210. Fairlane, 2 door, beautiful red & black, radio, heater, white sidewall tires — \$1,795

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The former Mayor of Bettendorf, Iowa, who played professional baseball for a while before getting into civic life, is now a production specialist at the Army Ballistic Missile Agency.

He is T. Lowell Niswander of 606 East Holmes St., Huntsville.

He served four years as an Alderman in Bettendorf, and became Mayor in 1952, completing a two-year term. One of his proudest accomplishments was the construction of a \$100,000 community center, dedicated to youth.

When the city was endangered by flood in 1952, as the Mississippi River went on a rampage, Mayor Niswander organized crews which threw up supplementary dikes. He was praised for the work, forestalling heavy property damage, by the U. S. Army Corps of Engineers.

Niswander was born in Lima, Ohio. After completing schools there he attended Northwestern University in Chicago, then began his baseball career in the Mississippi Valley League. He pitched for the Rock Island, Ill., club. Later he moved up to the Toledo Mud Hens of the American Association. Casey Stengel, who manages the New York Yankees, was the Toledo port.

An injury cut Niswander's baseball career short. He went to

work for International Harvester Co. in Rock Island and learned industrial production work by J. I. Case Co., who produces self-propelled farm machinery, as well as by International Harvester. Before coming to the Missile Agency he was associated with American Bosch Arma Corp., at Columbus, Miss.

During his 6-year political experience, Niswander was supported by the Citizens Progressive Party which he described as a reform movement. Bettendorf was experiencing a growth situation, "somewhat like Huntsville but on a smaller scale," he explained, and there was critical need for city planning.

"I had the honor on two occasions of sitting on the same platform with President Eisenhower," Niswander commented.

A son, Wally, is a student in Miami University. Another son, Wayne, is a student in Clearwater Fla., High School.

Niswander is a part of the Missile Agency's Control Office staff.



T. LOWELL NISWANDER

'Guinea Pig' Jump General Sets Goal For Utah's Guard

FORT CAMPBELL, Ky. — "Somebody hit me on the shoulder and yelled, 'Go!' and I suddenly found myself out in the slip

stream, a thousand feet above the drop zone." This remark by Major General Maxwell E. Rich, Adjutant General of the State of Utah, presaged a new development in the training of the State's National Guardsmen.

The first Guard general to receive basic airborne training from the 101st Airborne Division had two reasons for spending his annual tour of active duty training here. He wanted to see the pentomic division, and he felt that if the "old man" (he's 43) could complete airborne training the men of his units would have an example to follow.

"I'm sort of a guinea pig for advanced National Guard training," General Rich explains. "Since the old man got through, we now plan to offer top students in our Officer Candidate School the chance to take this training. 'We'll put them on active duty for three weeks with the 'Screaming Eagle' school. Those who complete the course — and it's a rugged one — will bring back to the Utah National Guard the alert spirit and toughness that marks

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Aschaffenburg, Germany — Motor pool personnel of Company M, 87th Infantry Regiment, are very proud of a jeep they keep in top running shape.

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Rhymes of the Times

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Redstone Pistol Club Organized; Four-Match Tourney Set July 14

BY R. W. EKIS

The local Buffalo Bills recently pulled their shootin' irons out of hiding and organized an NRA affiliated club known as the Redstone Arsenal Pistol Club. The organization of this club is a culmination of many hours of diligent labor by some of the more dedicated Huntsville pistol shooters in conjunction with the outstanding cooperation of the Arsenal Post Engineers.

Sunday, July 14, will be the big day for the Redstone club. At 1:00 p.m. the range will be officially opened and the first NRA-approved tournament will be fired. Shooters from Birmingham, Nashville, and Florence will compete against local club members for match prizes. Four matches will be fired as follows: The first match will be a 22 caliber National Match Course; the second, 22 caliber Timed Fire; the third a Center Fire National Match Course (30 caliber or larger); and the fourth match a 45 caliber National Match Course.

For the benefit of those who are not familiar with the pistol shooter's terms, a National Match Course is a three-stage match fired as follows: The first stage, slow fire, is 10 rounds fired in 10 minutes at a range of 50 yards; the second stage, timed fire, is 10 rounds fired in 40 seconds at a range of 25 yards; the third stage, rapid fire (generally called RAGGED fire) is 10 rounds fired in 20 seconds at a range of 25 yards. The individual slow, timed, or rapid fire matches are one stage only and consist of 20 rounds fired at the same rates and ran-

ges specified for the similar National Match Course stages.

The club membership is growing so rapidly that only instantaneous figures can be quoted. However, as of this writing they stand at 39 men, both civilian and military, and one woman. Sure women shoot!

Not all of the club members are polished shooters; therefore, the experienced members are conducting training courses covering everything from range safety to trigger squeeze. So, if you are not a member of the club, but would like to learn to master the ol' hip cannon, come out and join us on Sunday afternoons. In fact, there isn't a better time to start than next Sunday, the 14th. You will see some of Alabama and Tennessee's best pistol shots in action.

Additional information may be obtained by contacting the Club Secretary, R. W. Ekis.

FINAL SOFTBALL STANDINGS ROUND 1 8 July 57

Team	W	L
Det "B" ABMA	11	1
USAOA Off (Franken.)	10	2
Hq & Hq Det OGMS	9	3
1st ETD	7	5
2nd ETD	7	5
630th Ord	7	5
Det "A" ABMA	5	7
USAOA Off (Prewett)	5	7
Hq & Hq Det USAOA	1	2
Hq & Hq Det USAOA	5	7
162nd Ord	4	8
OGMS Off	4	8
32nd Ord	2	10
Det "A" USAOA	1	11

COMPANY SOFTBALL SCHEDULE

10 July - 16 July

10 JULY—
1800 hrs — Field 1 — 32nd Ord vs. Det "A" ABMA.
Field 2 — 2nd ETD vs. Det. "A" USAOA.

1930 hrs — Field 1 — 630th Ord vs. Hq & Hq Det USAOA.
Field 2 — OGMS Off vs. 1st ETD.

11 JULY—
1800 hrs — Field 1 — Det "A" ABMA vs. USAOA Off (Prewett).
Field 2 — Hq & Hq Det USAOA vs 32nd Ord.

1930 hrs — Field 1 — Det "A" USAOA vs. USAOA Off (Frankenstein).
Field 2 — Det "B" ABMA vs. 1st ETD.

12 JULY—
1800 hrs — Field 1 — OGMS Off vs. Det "A" ABMA.

Field 2 — USAOA Off (Frankenstein) vs. Hq & Hq Det OGMS.
1930 hrs — Field 1 — 32nd Ord vs. Det. "A" USAOA.
Field 2 — Det "B" ABMA vs. 630th Ord.

15 JULY—
1800 hrs — Field 1 — 1st ETD vs. Det "A" ABMA.

Field 2 — 2nd ETD vs 32nd Ord.

1930 hrs — Field 1 — Det "A" USAOA vs. Det "B" ABMA.

Field 2 — Hq & Hq Det USAOA vs. USAOA Off (Prewett)

16 JULY—
1800 hrs — Field 1 — Det "A" ABMA vs. 32nd Ord.

Field 2 — Det "A" USAOA vs. 1st ETD.
1930 hrs — Field 1 — USAOA Off (Prewett) vs. USAOA Off (Frankenstein).
Field 2 — 630th Ord vs. 32nd Ord.

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Service Club Schedule

Crafts Shop Operating Hours
Tuesday thru Friday 1730-2200
Saturday and Holidays 0800-1630
Sunday and Monday -- Closed

Swimming Pool Operating Hours
Monday thru Saturday 1000-2000
Sunday 1200-2000

Even days of the month are reserved for officers, their dependents, and guests. Odd days of the month are reserved for enlisted men, their dependents and guests.

SOFTBALL STANDINGS ROUND 2 8 July 57

Team	W	L
Det "B" ABMA	4	0
USAOA Off (Franken.)	4	0
2nd ETD	3	1
USAOA Off (Prewett)	3	1
Hq & Hq Det OGMS	1	3
630th Ord	1	3
32nd Ord	1	3
1st ETD	1	4
OGMS Off	0	1
Det "A" ABMA	0	1
Det "A" ABMA	0	1
Det "A" USAOA	0	2

ROCKETS HOST PALM BEACH

The Redstone Rockets baseball team will play host to Palm Beach Air Force Base on Wednesday and Thursday, July 10 and 11 at Linton Field. Game time for both events will be 7 p.m.

ARCHERY, GOLF RANGES OPENED

Special Services calls the grand opening of the new Archery Range and Golf Driving Range a "grand success." The ranges were officially opened at 5 p.m. on July 3, with Maj. Gen. J. B. Medaris driving the first golf ball.

Some indication of the success — nearly 100 dozen golf balls were driven during the first hour of operation. Participation at both ranges has been excellent. Special Services invites both beginners and "professionals" to visit these new facilities, which are located in the rear of Building 691.

Tot Delivery Is Stork-Medic Battle

ASCHEFFENBURG, Germany—A one-time "delivery boy" in the Air Force, Specialist Third Class John S. Bowden of (109 Weston Ave.) Kendallville, Ind., is back in the same old business of helping deliver babies, but for the Army this time.

The veteran Air Force hospital attendant who assisted at the birth of more than 1500 babies in four years, including a set of twins in the back of a moving ambulance, is now assigned to the Ninth Medical Dispensary here and is back in "parctice."

In a matter of days — and night — recently he helped deliver three children in Army ambulances that didn't quite make it to the hospital. "My reward comes," says Bowden, "when I hear the little fellow (or girl) start breathing and then sound off like a first sergeant."

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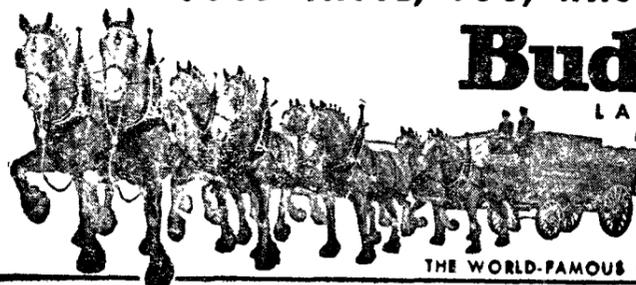
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At The Service Club

Tonight being Wednesday, we want all of you chess people to come on over to the club and participate. Let's make a party out of it and really enjoy the evening. Time for "Chess Nite" is 1900 hours. Of course, if you can't be here at 1900 hours, just drop in at any time.

Thursday night, in fact every Thursday night this month, will be "Bridge Party Nite". You see, we have to separate some of these games because we have too many players to all play on the same night. This too, will start at 1900.

Friday at 2030 hours, we'll have a pool tournament. We'll just close the door and let you hit at each other all you want. The last remaining man will be considered the winner. Of course, the way some hit those balls, there may not be a last remaining man.

Saturday will be leisure day—just come and sit and relax. Sunday morning will find the usual coffee call at 0900 and a Dessert Hour at 1500. Bingo will be played Monday night at 2000 hours—Missilemen will practice Tuesday night at 1900 hours and that takes us to next week.

We would like to remind every one that we are having a dance July 19 beginning at 2100 and lasting until 2400. Hostesses from Birmingham will be here for the evening.

Also, we are planning on having a swimming party and weiner roast Saturday, July 27 at 1500 at the Post Swimming Pool. Be sure to sign up at the Service Club no later than July 25.

We would like to extend a special invitation to you new EM who are coming on post, to visit the Service Club and find out just what we have to offer you and what goes on in the way of entertainment.

Ya'll come,
Marty

Wantads Are Money Savers

MOVIE SCHEDULE

Wednesday, 10 July 1957, "Backlash" starring Richard Widmark and Donna Reed (Family) Time 1900.

Thursday, 11 July 1957, "Night Passage" starring James Stewart, Audie Murphy and Dan Duryea (Mature) Time 1830 and 2030.

Friday, 12 July 1957, "Lure of the Swamp" starring Marshall Thompson and Willard Parker (Mature) Time 1900.

Saturday, 13 July 1957, "The Land Unknown" starring Jock Mahoney (Family) Time 1900.

Sunday, 14 July 1957, "Fire Down Below" starring Rita Hayworth, Robert Mitchum and Jack Lemmon (Mature) Time 1830 and 2030.

Monday, 15 July 1957, Closed.

Tuesday, 16 July 1957, "The Monte Carlo Story" starring Marlene Dietrich, Vittorio De Sica and Arthur O'Connell (Family) Time 1900.

TEENAGE CLUB PICKS OFFICERS

The Teenage Club at Redstone Arsenal recently held an election and an installation dinner for the new officers.

Mike Killough was handed the gavel of president by Diane Parker, out-going president.

Other new officers include Fran Mullane, vice president; Susie Jean, secretary; Lucy Elliott, treasurer; Doug Stevens, representative for the 13-14-years old; Jeanne Nickerson, the 15-16-years group; and Bill Pierce, representing the 17-18-year-old. Sergeant-of-arms is Susan Lahlum, and Caryl Ewalt is the publicity chairman.

Bus Schedules To Swimming Pool Are Announced

Bus service from military housing areas on the Arsenal to the post swimming pool is being provided five days a week during the summer and early fall.

The service is from officer housing areas on even days of the month, and from enlisted personnel housing areas on odd days of the month.

On even days one bus leaves the MCA housing area at 10 a. m., and 2 and 6 p. m., and stops by Weeden Manor 15 minutes after each departure on its way to the pool. Return trips leave the pool at 1:30, 5:30, and 8 p. m.

Another bus leaves the Headquarters Circle area at 10 a. m. and 2 and 6 p. m. on even days of the month, and stops by Buildings 811 and 812 fifteen minutes after each departure on the way to the pool. Departure times from the pool are 1:30, 5:30, and 8 p. m.

On odd days of the month a bus leaves Redstone Park at 10 a. m. and 2 and 6 p. m. and stops by Buildings T-140 and T-144 twenty minutes after each departure time on its way to the pool. Return trips are made from the pool at 1:30, 5:30, and 8 p. m.

Soldier's Pleasure Is to Teach Boys Safe Seamanship

EDGEWOOD, Md. — A soldier at the Army Chemical Center here should have joined the Navy, but the Army's glad he didn't, and so are hundreds of boys from California to Italy.

Wherever his Army duty takes him, Chief Warrant Officer Marvin R. Hancock of (410 Pacific Ave.) Paso Robles, Calif., forms a Sea Scout group among the sons of military personnel.

That means a boat, a common enough item in communities near Fort MacArthur, Calif., Naples, Italy, and at this Chesapeake Bay installation, where the boys are the proud crew of a former Army "J" boat. Boats of a type that might logically be christened 'Sea Horse' are not especially indigenuous to Stuttgart, Germany, but there is the nearby Neckar River to justify any nautical term and activity in the eyes of Sea Scouts. Hancock, an old Boy Scout and

Sea Scout of the highest respective awards of Eagle and Quartermaster, likes to see boys use their spare time in a healthy, wholesome and educational way. If they learn nothing else from him, they know the "Nautical Rules of the Road," stressed because they teach "responsibility, courtesy and safety."

In Naples, Hancock, a soldier since 1941, reaped the inevitable harvest. His son joined the U. S. Navy.

Rhymes of the Times

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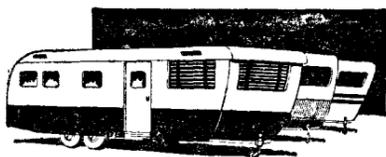
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FROM COSTUMES TO MISSILES — PFC Bob Schulenberg, a former Hollywood costume designer (center) takes a few words of advice from buddies Bob Douglas (left) and Tom Flynn, as he puts finishing touches to a guided missile training aid. The trio is part of a drafting and illustrating team in the Training Aids Branch of the Ordnance Guided Missile School.

The Subjects Are Quite Different, But This GI Is Still Designing

What does a Hollywood costume designer do when he enters the Army? Design uniforms? Not quite. The Army seems pretty well satisfied with its new Army Green.

This former designer is still

designing, but now it's training Guided Missile School. aids for the U. S. Army Ordnance. Twenty-three year old Pfc Bob

Schulenberg, who had an eye for the boss's daughter, but is now engaged to a pretty descendent of a former Vice President, designed costumes for Eleanor Parker and Sarah Shane for "The King and Four Queens", a western starring Clark Gable.

Before he entered the service, Schulenberg was employed by Western Costumes (a stone's throw from Paramount Studios), which designs and supplies most of Hollywood's movie wardrobe.

After being employed by Western for only a month, he was assigned the task of creating several costumes for the Universal International picture.

Armed with the information, or lack of information, that the costumes were for one "nice" and one "flippant" girl in the West of 1860, Schulenberg began research which took him through the UCLA Reference Library, old copies of Harper's Monthly, Civil War chronicals, and reference books like Modes and Manners of the Nineteenth Century.

All was going well, until U. I. moved the picture's date twenty years ahead to 1880 by which time women's fashions had changed considerably. Schulenberg was ready to turn in his drawing board. Fortunately, for "The King and Four Queens", he didn't.

Working closely with Albert Nichols, president of Western Costumes, Schulenberg couldn't help but meet Nichols' daughter. After a few chance meetings Schulenberg found he wanted to eliminate the chance factor.

It's only fair to Schulenberg to admit that he got the position at the firm before he dated the boss's daughter.

Schulenberg is now engaged to Jane Breckinridge of Los Angel-

es, a direct descendent of John Cabill Breckinridge, a Vice President (1857-1861), a presidential candidate who ran against Lincoln (1860), and a successful Confederate general.

Schulenberg has always been interested in art and music. At the age of eight (he had begun piano lessons a few years before) he won a two year scholarship to the Otis Art Institute.

Schulenberg's artistic ability was cultivated at the University of California where he studied art in general and painting in particular, receiving a BA in painting.

Though art is his forte, music turned out to be no less of an accomplishment. He studied piano for some eighteen years and was one of three California state finalists in a competitive recital sponsored by the National Federation of Music Clubs.

Schulenberg graduated from Fresno High School and UCLA. He is a member of the Lambda Chi Alpha fraternity.

Here in Huntsville, he is an active member of the Huntsville Little Theater, and is directing "To Be Continued", a William Marchant play to be put on Wednesday, July 17, and Friday and Saturday, July 19 and 20 in the Hotel Russel Erskine Ballroom.

Schulenberg entered the Army May 7, 1956 and took basic training at Fort Lewis, Wash. He was transferred here in July 1956 where he joined a team of draftsmen and illustrators to design training aids and make easier the student's task of understanding guided missiles.

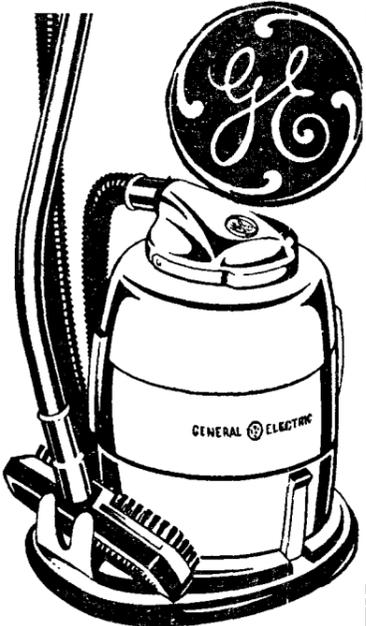
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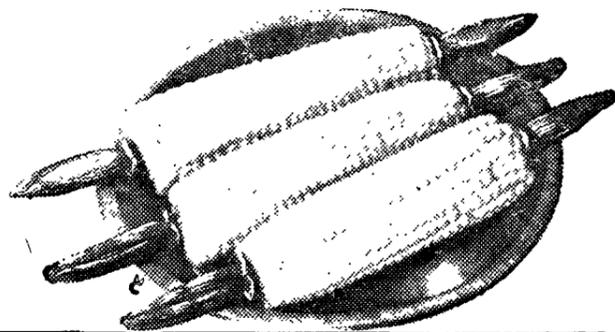
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8 RSA Officers Get RA Offers

1,000 Are Named By Mr. Brucker

The selection of approximately 1,000 officers nominated for appointment in the Regular Army under the provisions of Public Law 737, 84th Congress, was announced last week by Secretary of the Army Wilber M. Brucker.

Eight officers from Redstone Arsenal were among this first group appointed by the President. The list will be transmitted to the Senate for approval.

The Redstone officers are listed below, followed by the Regular Army grade and branch for which appointed:

Maj. Henry R. Del Mar, captain, Transportation Corps; 1st Lt. Bruce Kennedy, 2nd Lt., Artillery; 1st Lt. Carl H. Konkle, 2nd Lt., Ordnance; 1st Lt. Tommy G. Lindsey, 1st Lt., Ordnance; 1st Lt. Joseph W. Lloyd, 2nd Lt., Ordnance; 1st Lt. Orin H. Lowe, 1st Lt., Signal Corps; 1st Lt. George M. Pugh, 2nd Lt., Ordnance; 1st Lt. Donald C. Swartwout, 2nd Lt., Ordnance.

This is the first increment of selected applicants to be integrated under a program to increase the number of Regular Army officers, and consists primarily of first and second lieutenants fully qualified for appointment.

It is by no means the final selection for any grade or branch, the announcement stated. A second increment containing a majority of the balance of qualified and selected applicants is expected to be announced about the middle of January, 1958.

Non-appearance of an applic-

ant's name on this first list does not necessarily mean failure of selection, the announcement continued. Inquiries concerning status of applications are to be discouraged since they only serve to delay processing and selection.

Selections were made by the Regular Army Augmentation Board, headed by Maj. Gen. J. W. Harmony. Recognizing that many young officers are at the point of decision on whether or not to make the Army a career, the Augmentation Board directed its attention first to the applications of such officers.

Selections are based on professional ability, civilian and military education, and military experience.

The Army officer corps now totals 103,000, or whom about 28,000 are Regular Army officers.

THE STAMP CORNER

BY J. H. MULDER

The 4c U. S. Flag stamp was issued on July 4th in spite of the objections of well meaning individuals who protested that it would be a desecration of the flag.

The next stamp to be issued is the 6c airmail stamp to commemorate the 50th anniversary of the Air Force. This stamp is scheduled for issue on 1 August. The first-day-of-issue ceremonies will be held in Washington, D. C.

There is no further news at this time of the fate of the bill to increase postal rates now up for enactment in Congress. As of July 1st we have seen an increase in the rates for money orders, certified mail, special handling, and special delivery.

POW Commander Cherishes Sketch With Dire History

FORT GORDON, Ga. — A former prisoner-of-war of United Nations forces in Korea may now be dead because in 1950 he sketched the worn but determined of an American soldier and titled it "Face in Victory."

At least that is the conjecture that often crosses the mind of the owner of the drawing, Lieutenant Colonel Charles H. Sullivan, now chief of the Academic Evaluation Department at the Provost Marshal General's School here, but once commander of a POW camp in Korea.

"Cooperation with the enemy" might be the crime they'd tag him with.

Realizing that creativeness in the midst of uncertainty keeps morale up and unrest down, Colonel Sullivan became interested when he noticed a prisoner sketching on a grubby scrap of paper.

The compound commanders told him that this was not unusual. The prisoners made brushes from ropes and the fibres of rice sacks. They concocted dyes by grinding out the chlorophyll from grass, and scraping old tin cans for reddish brown paint. Other browns came from steeped tree bark and ground earth. Oil from the sardines they were served provided oil bases.

Colonel Sullivan hit on the idea of a camp art contest, with coveted American cigarettes as prizes. He supplied the paper, later

managed to get some water color sets from Japan. The contests were popular with the prisoners, many of whom had acquired their skills from missionaries. The "Face in Victory" artist took many prizes.

Colonel Sullivan left Korea early in 1952. He never heard what happened to the "artists." Were they killed when riots later broke out in the camps? To

Communist fanatics, participation in contests might be considered "illegal cooperation."

Especially if you viewed an American soldier as a "Joe-and-Willie" type and labeled the face "victorious".

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WILLIAM P. MURPHY

ABMA Staff Adds Patent Attorney

William P. Murphy, a patent agent formerly employed at the Springfield, Mass., Armory of the Ordnance Corps, has been appointed to the same position in the Legal Office, Army Ballistic Missile Agency.

Mr. Murphy is a native of Troy, N. Y., where his father, John J. Murphy, retired, and his brother, John, Jr., an attorney, now reside. He attended Rensselaer Polytechnic Institute and Siena College, majoring in mechanical engineering. He received a Bachelor of Science degree in physical sciences from Siena. Later he received his law degree at the Al-

R&DD-OML to Honor Colonels Raber And Chatfield

The Research and Development Division of the Ordnance Missile Laboratories is sponsoring an informal dance July 19 to honor Col. and Mrs. Miles B. Chatfield and Col. and Mrs. Thomas J. Raber.

The dance will be at the Elks Club and will begin at 8 p.m. It is a farewell from the OML staff to the Chatfields and the Rabers. Col. Chatfield has received orders for a European assignment and Col. Raber has received an alert that orders are pending.

Berlin Robbins' orchestra will furnish the music. Admission will be \$1.50 per person.

Tickets may be purchased from Maj. Stanley Skeiber, Mr. Jay Fryman or Mr. Paschal Redding in Bldg. 715, from Mr. Mike Foster in Bldg. A-120 and Mr. Harold McMillan in Bldg. A-156.

Personnel Group To Hear Barclay

Brig. Gen. J. A. Barclay, deputy commander, Army Ballistic Missile Agency, will be the guest speaker at the July 15 meeting of the Huntsville Chapter, Society of Personnel Administrators.

The dinner meeting will be held in the Elks Club at 6:30 p.m.

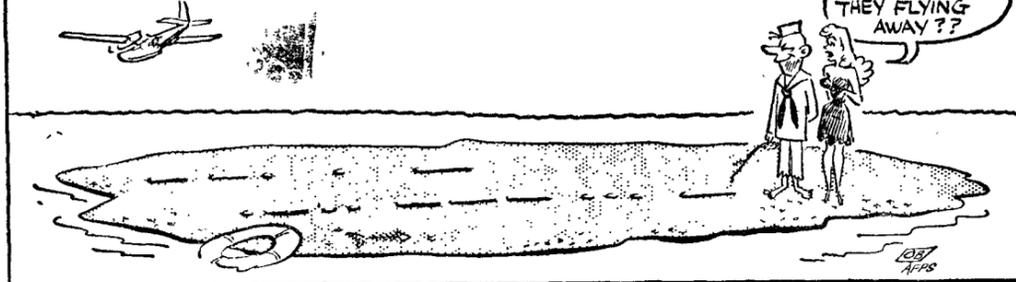
The newly organized chapter has elected Robert F. Mello, the Missile Agency's personnel chief, as president. Jack Higgs was elected vice-president; Ellis A. Woody, secretary and Joe W. Davis, treasurer.

On the agenda for the meeting are discussions of the constitution

and by-laws, committees, work shops and programming.

There can be no single answer to defense problems. No one weapon or family of weapons is endowed with any miraculous powers enabling it to serve all purposes.

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FOR SALE — 35-ft. house trailer, 1957 Nashua, like new. See Tuesday through Friday at Fleming Meadows sub-division or phone JE 4-4946 and ask for Hunt. ttc

80 ACRES LAND for sale in Center Grove community, east Morgan County, just 25 miles from arsenal. On good road, mail route, school bus, electricity, and telephone. Worth the money. S. S. FRANCIS, Route 4, Hartselle, Ala., phone 7652. 1tp

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24 Choice Waterfront Lots

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Herb Walker

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Japanese Farmers Put Fertile Hope In Army 'Rooters'

ZAMA, Japan—Two U. S. Army 'rooters' on six-month loan to the Japanese Government, are giving farmers in the extensive volcanic hardpan areas new hope for future productivity and profit.

Rooters are used by Army Engineers for difficult deep-spading jobs preparatory to evacuating and earth-moving work. The Japanese farmers and officials who observed a recent demonstration in Kagoshima Prefecture saw the three 2 1/2-foot teeth of the rooter dig deep into the cement-hard "kora" soil whose cultivation has been baffling the Japanese for generations.

Kora lies 8 to 10 inches below the surface. It was formed some 1200 years ago when volcanic ash covered about 61,264 square miles with dust particles, which packed into a surface so hard that water does not penetrate.

BIRDS FOR SALE — Chuckar Partridges and Bob Whites, 3 days to 6 weeks old. Floyd's Wild Game Ranch, 420 Elkton St., Athens, Ala. 7-14-c

FOR SALE — 1956 DeSoto hardtop, with radio, heater, in excellent condition. Will take clean 1951 or 1952 Chevrolet in trade. Phone Redstone extension 2737 or see at Paradise Trailer Park, lot 408. 1tc

FOR RENT — Large front bedroom, private entrance, private bath, gentleman only, 1203 McCullough St. 1tc

FOR SALE — 1955, 43-ft. Spartan Imperial Mansion house trailer, 2 bedroom, complete with 10x36 ft. aluminum awning. For information and further details contact EARL HOFFER, Redstone extension 3065 or JE 6-7372. 1tc

Soldierly Tanker Aspires to Record

MAINZ, Germany — Most men in the Second Armored Division's Combat Command B are pleased when they are good enough to be selected as Honor Guard soldier just once.

Specialist Third Class Charles Grayheart of Hindman, Ky., has been thus pleased not once, but 37 times.

The soldierly tank driver set one record by making the honor 21 consecutive times.

That string was broken when an injured hand prevented him from carrying his rifle. Now he's made it ten in a row and hopes to beat his first long run.

Grayheart's secret for success lies in keeping his equipment in tip-top shape at all times. He claims he can compete for—and win—the Honor Guard post on 15-minutes notice.

He started his perfectionist career early. During the armor basic training course at Fort Knox, Ky., the tank for which he was chosen a crewman was selected as best in the battalion in May 1955. Since then he's signed up for six more years in the Army.

For many years farmers in the area have broken up the kora with pick-axes. As it takes a day's hard labor to remove about 36 square feet by this method only one per cent of the affected area in Kagoshima had been cleared. The rooter, demonstrated by Master Sergeant Lawrence E. Wilson of (2819 N. Ruckle) Indianapolis, Ind., and the 94th Engineer Field Maintenance Company, accomplished the same work in seconds.

After the demonstration, Japanese Government officials expressed interest in the purchase of tractor-pulled rooters. Kora is widespread in Japan, where only 15 per cent of the land area is under cultivation.

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FULLY AUTOMATIC CONTROL SEEN FOR MANNED SPACE ROCKET SHIPS

DENVER, Colo. — Fully automatic propulsion, guidance and control systems will be required for manned space rockets, an Army engineer told the Aero Medical Association's 28th annual meeting here recently.

K. K. Dannenberg, chief of the technical liaison group at the Army Ballistic Missile Agency, spoke at a "Space Travel Symposium." The Agency is developing the Jupiter Intermediate Range Ballistic Missile.

"The spaceship pilot," Dannenberg explained, "will not have time to control the ship at the extreme velocity at which it travels. He will be under great physical and mental stress and would therefore be handicapped. Personal reaction time is too long to obtain the necessary speed of response accurately."

A rocket engineer for more than 20 years, Dannenberg declared the rapid progress in long range military missiles has opened the door to extra-atmospheric flight and permits man to venture into space "right now." He said conventional, chemically fueled rockets can do the job.

By the early 1960's, he predicted, "we should be able to accelerate several thousand pounds in velocity which would permit orbit in any desired altitude."

Dannenberg suggested the exosphere, which begins 120 miles above the earth and extends 500 or 600 miles higher, is the logical area for satellite operations. Here the atmosphere is so thin that it offers little resistance to rockets, and a minimum amount of propulsive energy would be required.

Rocket engines would be swiveled for flight control and mounted to permit roll control also. Lightweight engines may be used because of the high ratio between combustion chamber pressures and the ambient condition of zero pressure.

Greater reliability will be necessary in engine performance, the Army engineer declared. Troubles usually appear in smaller, newly developed or adopted components. He said these cause more difficulty than the more complicated systems such as turbopumps, combustion chambers and injectors.

"It will be the mission of American industry," Dannenberg asserted, "to overcome these difficulties by better and more efficient inspection and by improved methods of production and product evaluation."

A logistics and supply organization as big as that required for a military campaign will be needed for manned satellite operations. Among the requirements Dannenberg listed are airports and launching fields; construction, assembly and checkout hangars; elec-

tricity, water, maintenance and supply items and housing.

"A city will grow out of these needs like White Sands, N. M., Proving Ground," he predicted.

A site in the Pacific Ocean would be preferable, he explained, for safety reasons and to permit recovery of "booster" and "ferry" rockets. The latter will carry supplies to the satellite ship. He also recommended a location on or near the Equator since the earth's

rotation will assist the launching and reduce the size of the space ship.

Dannenberg saw the need for nuclear power at the launching site to furnish energy for manufacturing propellants from air, and water. He mentioned nitric acid and hydrazine as one combination or liquid oxygen and hydrazine.

"This use of nuclear energy would be more practical than attempting to employ it as a power source within the rocket," he remarked. "Today's designs of solar and nuclear power generators are very heavy and therefore inefficient in a flight vehicle."

High specific impulse has en-

couraged the use of high energy propellants for experimental, unmanned rockets but Dannenberg pointed out that specific impulse is not the only criterion. He said high density permits the same amount of heat energy in a smaller propellant and tank package. Thus, he pointed out, prompted Dr. Wernher von Braun, development operations chief at the Missile Agency, to recommend nitric acid and hydrazine as a desirable fuel for satellite rockets.

The first United Nations cemetery was dedicated in Pusan, Korea, six years ago.

CARTOON of the week



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Made in two attractive patterns — Indian design or contrasting plaids with floral border. Size 70x80, each blanket neatly hemmed on the ends, fine quality 100% cotton. A handy item for many uses the year around — camping trips, youngsters' room and many others. Predominating colors of Blue, Red, Green, or Salmon.

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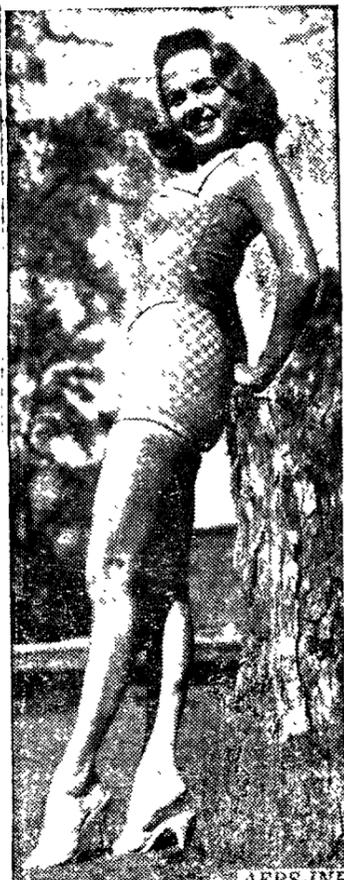
\$11.95 It's "Sizaset" Springfield's exclusive process — your positive protection against shrinkage. Bound with a 7 inch nylon binding to match luscious new pastel colors of pink, light blue, yellow, white, spice, and seafoam green. Each blanket vitafilm wrapped and in a white gift box.

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A blend of Rayon and Orlon, which has been treated to prevent moth-damage. Luxurious full 3 3/4 lb. weight. Each blanket bound with a 7 inch new exclusive "Duraloom" binding, the lustrous fabric that outwears ordinary bindings two or three to one. Individually boxed.

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SEDATE — Film actress Terry Moore, whose brief bikini outfits created quite a stir in past years, models a more conservative swimsuit in Los Angeles. A few extra inches of cloth don't seem to detract from Terry's eye-appeal.

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