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New Bus Routes Begin Operating On Monday

Some Finish Before Drive Is Started

Although the 1965 Joint Fund Drive will not officially open until next Monday, the voluntary campaign is off and running in several organizations and two of the smaller units have reported successful conclusions to their efforts.

The honor of being the first organization to report 100 per cent participation in both sections of the drive belongs to the SAM-D Commodity Office. Just a few hours behind in the matter of reporting was the 55th Army Band.

"It took just one short session," commented Don Graham, vice-chairman for the six-man Commodity office. "I distributed the envelopes and together we discussed the various agencies included in the drive. Within a few minutes everyone in the office was turning in his sealed envelopes."

Always an early bird in drives of this kind, the band members fell just short of being No. 1 again. The 26 members of the Band are included in the Troop Command with 2nd Lt. James Baker as the vice-chairman.

Elsewhere on the Arsenal the preliminary groundwork has been laid for another successful campaign. (See SOME FINISH on Page 2)

New Uses For Lasers Are Sought

The U. S. Army is wide open for new ideas with lasers for battlefield application, Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command told an industry audience in Los Angeles last week.

The general cited as a promising approach a concept in which a forward observer would illuminate an enemy tank with a light beam from a laser and a missile would be directed to the target by homing on light reflected from the tank.

Gen. Zierdt was one of several Army speakers in this first of a series of regional briefings sponsored by the National Security Industrial Association to better acquaint business, industry and labor with long range needs of the Defense Department.

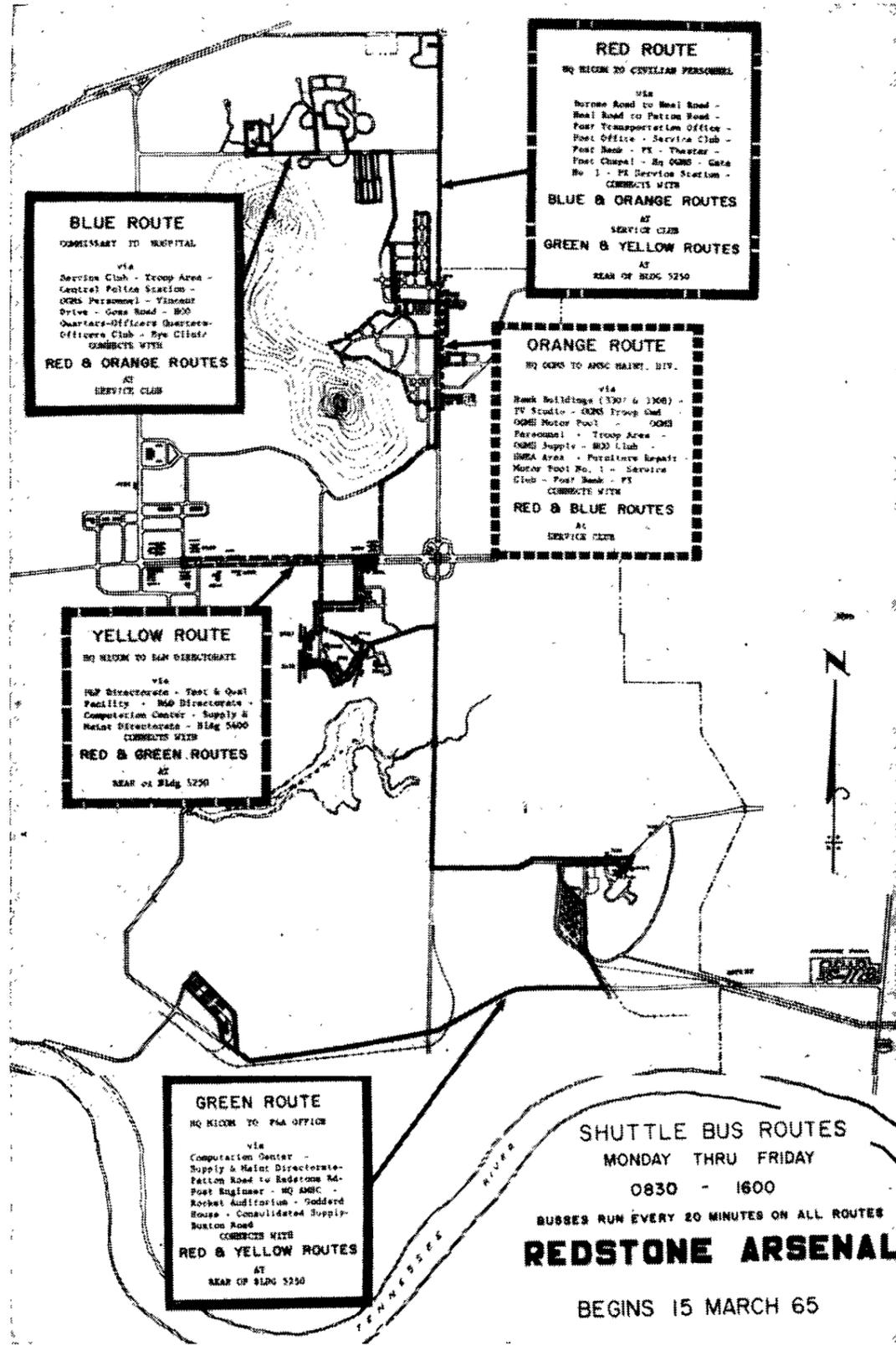
Among the "needs" cited by Gen. Zierdt were:

- New means of target acquisition and improved packaging of data processing equipment for mobile forward area air defense guided missile systems.

- Cheaper ways of delivering conventional high explosive warhead on targets beyond the range of conventional artillery.

- Simplified, lower cost missile inertial guidance systems.

Gen. Zierdt encouraged industry to come forth with good ideas. He told his audience that it isn't necessary to have a whole new concept. (See NEW USES on Page 2)



A new bus system will be introduced at Redstone Arsenal Monday, color coded so that passengers can pick the proper route to reach a destination.

The announcement was made by Col. Thomas W. Cooke, Commander of the Army Missile Support Command.

The green route connects with the red and yellow routes; the yellow route connects with the red and green routes; the orange route connects with the red and blue routes; and the red route connects with the green and yellow routes.

The blue route runs from the military housing area to the commissary and hospital, connecting with the red route at the Post Service Club. The red route runs between Army Missile Command Headquarters and Civilian Personnel with stops at the Post Exchange, the bank and other points along Neal and Patton Roads.

The orange route runs through the Troop area and the Ordnance Guided Missile School, as far up the mountain as the NCO Club and toward the East to the Maintenance Division of the Missile Support Command. It connects with the red and blue routes at the Service Club.

The green route is between Missile Command Headquarters and the Finance and Accounting office of the Support Command with stops at the Computation Center, Supply and Maintenance Directorate, Post Engineer and Support Command Headquarters.

The map shows the scheduled stops. The busses are either radio controlled carry-alls or taxis.

Busses will stop for passengers anywhere along a route as long as they are flagged down in a safe stopping area. Routing maps will be posted at all regular bus stops.

The reason for the changed system, according to Lt. Col. Frank M. Creighton, is to conserve manpower and make the most efficient use of equipment on hand. Lt. Col. Creighton is the Assistant for Services in the office of the Assistant for Logistics at the Support Command.

The shuttles will run between 8 a.m. and 4:30 p.m. each working day. Transportation for VIP visitors will still be arranged by the Protocol Office, and official taxis can still be obtained on Saturdays, Sundays and holidays by calling 876-2631 for off-post or on-post destinations. After duty hours on working days the number for off-post transportation is 876-3341 and on-post, 876-2161.

Laboratory To Be Expanded AMC Establishes Market Information Liaison Net

Work is expected to get underway in early spring at the Army Missile Command to provide additional work area for quality testing missile systems equipment and the hundreds of parts which make up each system.

The Army Corps of Engineers will receive bids in its Mobile District Office on Mar. 17 to make alterations to parts of Building 4500 where the Production Test Facilities of the Procurement and Production Directorate's Engineering and Quality Assurance Division are located.

Missile system equipment and parts bought by the Army Missile Command are subjected to a variety of functional tests in the Production Test Facilities. Among these are material analysis, electrical, electronic, electro-mechanical, metrology, environmental, and hydraulic and pneumatic. Tests in support of the commodity and process. (See LABORATORY on Page 2)

A far-reaching new program to provide industry with Market Information on the Army's future procurement needs was announced last week by Gen. Frank S. Besson, Jr., Commander of the Army Materiel Command.

Designed to broaden industry competition for the Army's procurement dollar and thus reduce acquisition costs, a pilot test of the program was started this week at nine Army/Industry Materiel Information Liaison Offices throughout the country including the Army Missile Command at Redstone Arsenal. The pilot test will be under the direction of Brig. Gen. R. C. Conroy, AMC's Deputy Commanding General for Western Operations, Fort Mason, San Francisco, Calif.

Gen. Besson's announcement was made to an industry audience assembled in Los Angeles under the

auspices of the Defense Department and the National Security Industrial Association to provide advance information of defense requirements during upcoming years. Conferees were told that the Army is trying to find out whether or not this type of future Marketing Information will assist in making management decisions to bid on more kinds of Army materiel.

The program is built around an Advanced Planning Procurement Information (APPI) form which will be prepared on each end item to be procured by the expenditure of PEMA (Procurement Equipment and Missiles, Army) funds in the annual budget.

APPI data will include pertinent historical facts about the end item, current fiscal year procurement action and the Army's planned (See LIAISON on Page 2)

Bloodmobile Appeal Is Based On Irish Ancestor

An appeal to those of Gaelic and Celtic ancestry to make special contribution to the Red Cross Bloodmobile on St. Patrick's Day was issued this week by Col. William J. Macpherson, commandant of the Army Ordnance Guided Missile School.

The Bloodmobile will be at the School on Wednesday, Mar. 17, he noted. Special arrangements are being made for OGMS personnel, including students, to make their donations immediately after lunch, with compensatory time off during the afternoon.

The 3rd Enlisted Training Company and the 13th Explosive Ordnance Detachment of the School Troop Command were commended for their high participation in blood donations during February. The OGMS quota was exceeded by 28 pints.

The March quota will again be about 60 pints.

The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket only through the Information Office, Army Missile Command, Redstone Arsenal, Ala., Bldg. 5250, Room A-136, Extension 876-1400 or 876-1500.

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

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

Rocket Ruminations

He that is thy friend indeed,
He will help thee in thy need.
—Richard Barnfield



DR. FINN J. LARSEN

Larsen To Be IEEE Speaker

Dr. Finn J. Larsen, vice president and general manager of the Systems and Research Division of Honeywell, will address the monthly meeting of the Huntsville Section of the Institute of Electrical and Electronics Engineers.

Dr. Larsen's topic will be "The Significance of Systems." The meeting will be held Wednesday at the Redstone Officers' Open Mess at 6:00 p.m.

Dr. Larsen was born on Nov. 16, 1915 in Bergen, Norway and his family moved to the United States when he was six years old. He spent his boyhood on a farm in Southwestern Minnesota. He received a Bachelor of Education degree from Mankato (Minn.) State Teachers College in 1939, a masters degree in physics from Drake University in 1941, and a doctor of philosophy degree in physics from Iowa State College in 1948.

Dr. Larsen served as an officer in the Navy from 1943 to 1946. He then taught physics at Iowa State College until 1948 when he joined Minneapolis-Honeywell as a research physicist. In 1951 he became director of ordnance engineering. In 1954 he became director of research and in 1959 was elected vice president of research. Dr. Larsen was sworn in as Assistant Secretary of the Army for Research and Development in 1959 and returned to Minneapolis-Honeywell in 1961.

For reservations or further information, call Bill Hefner, Tel-852-2369.

LABORATORY

(Continued From Page 1)
ject manager's production engineering programs also are performed here.

An addition to the building will be used as a vibration test area. Test equipment will be mounted on a vibration isolation foundation of reinforced concrete and steel so that vibrations will not be experienced in other areas of the building.

The Hydraulic and Pneumatic Laboratory will be enclosed and made dust-free because of the exacting nature of some tests conducted there. An area of controlled atmosphere will be provided for certain physical tests, which will enhance the accuracy of such testing as well as reduce the degree of routine maintenance.

The contract has been set aside for award to a small business concern in the interest of assuring

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—REACTION TIME—Distance car travels between time driver sees danger and starts to apply brakes. (¾ of a second for average driver in an emergency.)

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Science And Humanity

Twice each year Redstone personnel join forces with our fellow-citizens the country-over in support of various non-profit organizations whose sole purpose is to make life a little more meaningful for those to whom daily existence is a ceaseless struggle against adversity of one kind or another.

In the fall the United Givers Fund makes an appeal for voluntary contributions on behalf of the less fortunate in our own communities and in the spring the Joint Fund Drive seeks donations with which to combat crippling diseases on the one hand and to lend a helping hand to those who live under oppression in foreign lands on the other.

The 1965 Joint Fund drive will get underway at the Arsenal next Monday and will continue through a five-week period ending Apr. 16. During this period you will be contacted by a fellow worker who will ask you if you wish to make a contribution to the National Health Agencies and to the Joint Crusade. He will explain to you the aims and the purposes of the eight agencies included in the National Health campaign, and the four agencies that make up the Joint Crusade.

He will also tell you that you are under no obligation whatsoever to make a contribution and that there is no arbitrary donation suggested as a reasonable contribution. Rather he will explain how your contribution last year helped further research into the causes of cancer, how it helped to build a house for a Korean refugee family, how it enabled another heart patient to undergo a delicate operation, and how it purchased a CARE package for a needy family in embattled Vietnam.

As responsible Americans, all of us desire to see that our fellow man has a better chance for a fuller life. Each of the agencies for which an appeal is being made, is dedicated to improving some phase in the living standards around the world. Individually they perform a humanitarian service for all mankind, and together they represent a most potent weapon in combatting those who would enslave the free peoples of the world.

Your personal support of the National Health Agencies and the Joint Crusade will do much to combat the poverty, hopelessness and fear which haunts many of our fellow man.

SOME FINISH

(Continued From Page 1)
paign in support of the eight National Health agencies and the four Joint crusade agencies.

The drive will officially kick off next Monday and continue over a five-week period, ending April 16. All contributions to the drive will be made through sealed envelopes.

Donations will be strictly voluntary and there will be no goal or fair share established. The envelopes will be accumulated here and forwarded to the state headquarters for the drives where they will be opened and accounted for.

LIAISON

(Continued From Page 1)
procurements through the following six years. Included also will be statistics pertaining to quantities, monthly production rates and anticipated methods of procurement.

The APPI will be released to current bidders and sources cleared to receive it by the procuring agency's Army/Industry Materiel Information Liaison Office (AIMILO); Concurrently, the APPI will be synopsisized for public media in order to advertise its availability to all industries. Those interested may obtain identical APPI at any one of the nine AIMILO's established for this purpose by presenting proof of security clearance required; or, lacking proof, by initiating actions that will enable them to receive APPI in the future.

For test purposes, AIMILO's have been established at the following U. S. Army Materiel Command organizational elements: USA Electronics Command, Fort Monmouth, N.J.; USA Missile Command, Huntsville, Ala.; USA Weapons Command, Rock Island, Ill.; USA Munitions Command,

such firms a fair share of Government business.

NEW USES

(Continued From Page 1)
cept in hand before knocking on the Army's door, because the Army is in the market for thoughts as well as things.

"Big systems," the general said, "seldom if ever result from a single idea. I think it more likely that a collection of ideas will eventually give us a solution and we seek new ideas where we can find them."

He described the desirability of having a weapon with both nuclear and non-nuclear capability.

"We cannot afford a multitude of special purpose weapons that tie up men, materiel and money for the sole purpose of firing a nuclear shot. It is perfectly conceivable that we could haul such a system around the battlefield for the entire war and never use it. If we must have a nuclear shot, we'll need it right now, but in the meantime, we'd like to get some work out of the missile—so we ask for dual capability," the general said.

Another need for multipurpose missiles is for those that can be used for more than a single type target.

The General pointed out that the advantages of a multipurpose system are so great that it may be worthwhile to accept a slightly reduced capability in one area in order to have such a missile. Although multipurpose missiles may cost more money to get, he said, the real cost in men, materiel, training, logistics and so forth could be much less.

Dover, N.J.; USA Tank Automotive Center, Warren, Mich.; USA Mobility Equipment Center, St. Louis, Mo.; USA Aviation Materiel Command, St. Louis, Mo.; USA Los Angeles Procurement District, Pasadena, Calif.; USA San Francisco Procurement District, Oakland, Calif.

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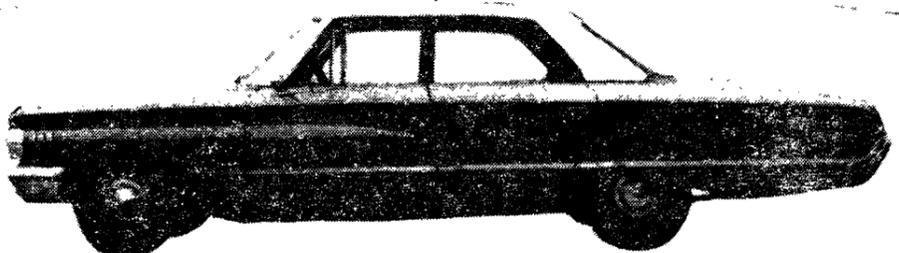
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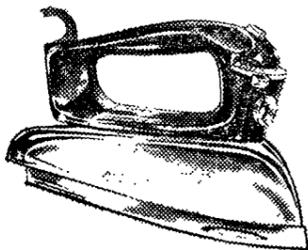
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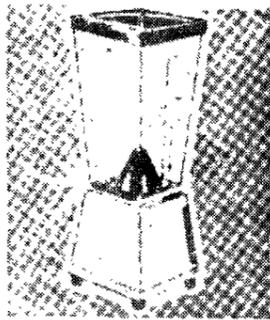


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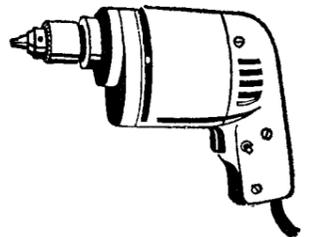
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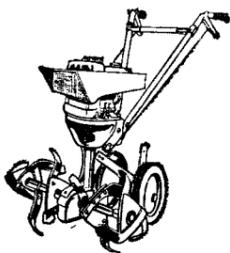
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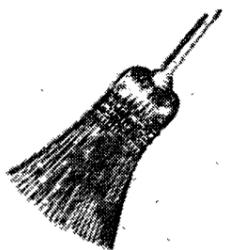


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Army Plans Improvement In Maintenance, Service

The Department of the Army will reorganize active Army combat service activities to provide improved supply, service, and maintenance support in the Corps and Field Army area.

Known as Co-Star II (Combat Service to the Army), the reorganization will take place from April through December 1965, within existing personnel and financial ceilings and without disturbing current Field Army operations.

Reorganization under Co-Star II is designed to improve the control and quality of combat service support in the Corps and Field Army area to the rear of the divisions. Supply, service and maintenance support operations will be realigned along functional lines and placed under the control of a single agency, the Field Army Support Command (FASCOM).

A FASCOM will consist of a headquarters, support brigades, and separate Army-wide brigades. The support brigades will provide supply and maintenance service except for munition, medical, and missile items. Separate brigades will provide Army-wide services for ammunition supply, medical, transportation, civil affairs, military police, replacement and certain administrative functions. The Command also will have responsibilities for security and damage control in the rear areas.

This system replaces current procedures in which supply and other support units are under the operational control of special staff sections in the Field Army Headquarters. In the reorganization, the ordnance, quartermaster, chemical, transportation, provost marshal, and finance sections in the

Field Army Headquarters will be eliminated, permitting the Field Army commander and his staff to devote more time and attention to training and combat operations.

Seven new and two revised military occupational specialties (MOS) in the field of supply and maintenance will facilitate assignment of the best qualified officers in these newly-created functionalized positions. This will increase career opportunities and provide greater incentive for technical service officers.

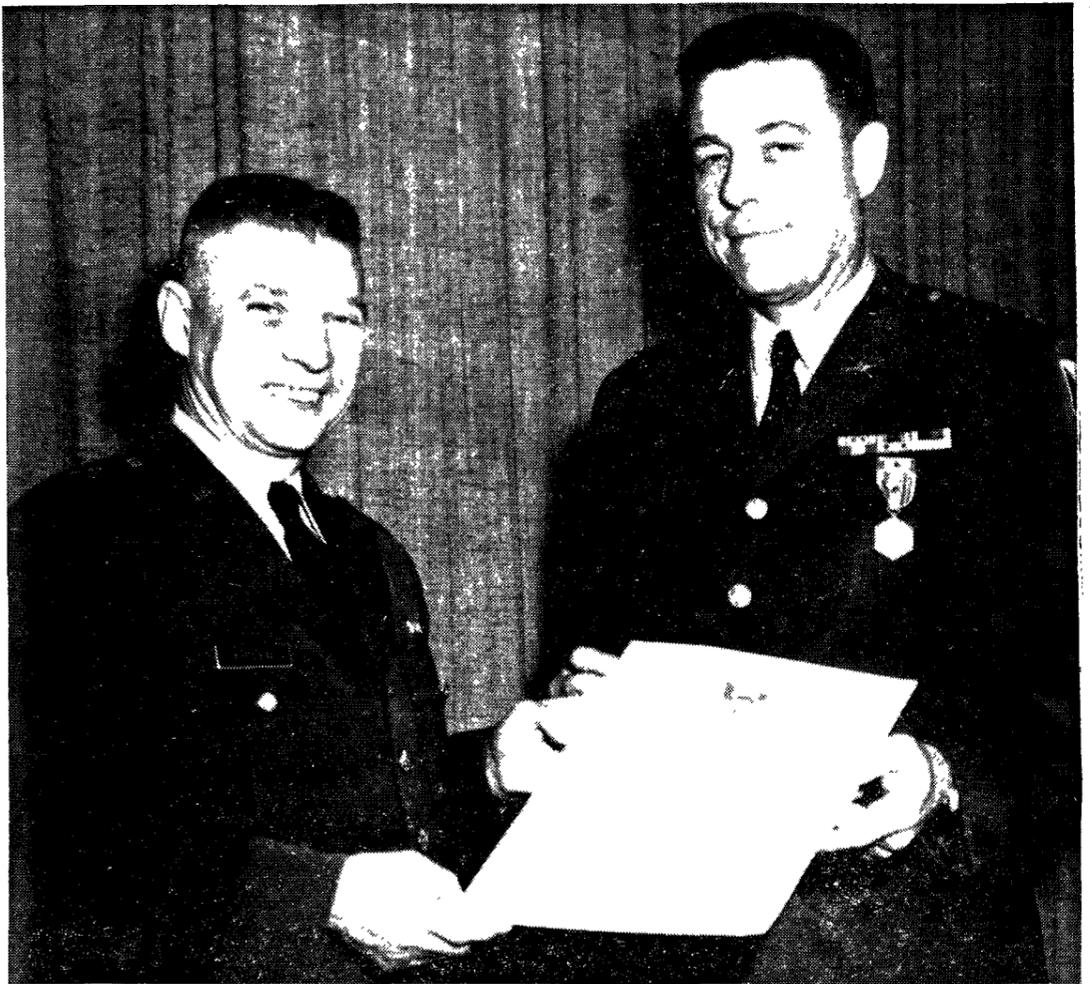
Co-Star II is an extension of other recent changes in the Army structure designed to improve logistic management and support. The technical services were reorganized along functional lines in 1962 and the support activities within combat divisions were reorganized under a single support command.

Vocational Rehabilitation Survey Being Conducted

A special survey to determine what repair and other jobs can be accomplished for the Army Ordnance Guided Missile School by vocational rehabilitation groups in this area is being conducted at the request of Col. William J. Macpherson.

He asked members of his staff and faculty to make a special effort to identify tasks in the missile maintenance area that could be performed by partially disabled persons under the "War on Poverty" program.

Col. Macpherson pointed out that the local Rehabilitation Cen-



RETIREES ARTER 20 YEARS—Retirement ceremonies were held at Redstone Arsenal, last week for Maj. Joe R. Tinney who ended 20 years of military service. The native of Altus, Okla., was serving as Chief of Requirements and Dissemination Division of the Directorate of Missile Intelligence. Officiating at the ceremony was Brig. Gen. Charles W. Eifler, Deputy Commanding General of the Missile Command. Maj. Tinney's father is William S. Tinney of Rt. 1, Snyder, Texas. Mrs. Tinney is the former Betty Lou Brown whose father, L. D. Brown, resides on Rt. 1, Spencer Oklahoma.

ter during the past year has repaired electronic "patch boards" used in soldering classes so that they can be reused by missile students.

He noted that the contract involved only about \$2,000 but pointed out that it enabled a number of handicapped persons to acquire basic skills in one field of electronics repair while also effecting economics in missile maintenance training.

Information gathered will be turned over to Mr. Milton K. Cummings, who heads the local presidential committee for such activity, for coordination with purchasing and procurement officials at Redstone Arsenal.

ACTING COMMANDER

Lt. Gen Harvey H. Fischer was named acting commander of the U.S. Continental Army Command.

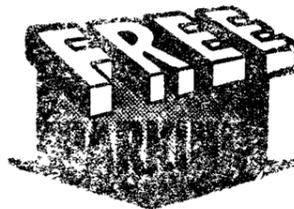
Gen. Fischer's assignment became effective Mar. 1, according to an announcement received here by the U.S. Army Ordnance Guided Missile School, an element of the Continental Army Command.

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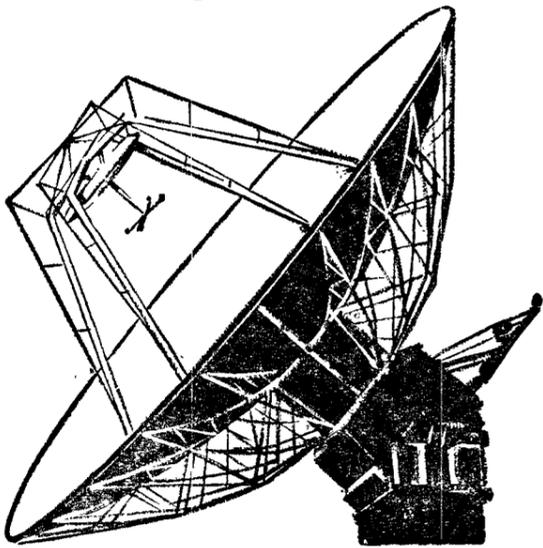
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100	18.46	10.05	14.54	11.81
200	36.92	20.09	21.54	17.42
300	55.09	29.87		

Above payments include principal and interest. Life Insurance is available at group rates on loans above \$100.

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

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

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Colonel Leaves Florida, Goes South For Winter

While winter may sound like a poor time to leave Florida, Col. Melvin D. Clark did move. But his new assignment was for the even warmer winter of Kwajalein Island in the Pacific.

Col. Clark, who was Chief of the Army Missile Command Field Office at the Air Force's Eastern Test Range, Patrick Air Force Base, Fla., is now Commanding Officer of the Kwajalein Test Site for the Nike-X Missile Defense System.

Although he is now roaming a

Dr. Langford To Talk To Engineers

The Institute of Electrical and Electronics Engineers, Engineering Management Group will hear a talk on "Direction of a Basic and Applied Research Program for Aerospace" by Dr. Robert C. Langford.

The meeting will be at Redstone Officers' Open Mess at 8:00 p.m. Tuesday. All those interested in Engineering Management and related fields are invited to attend. For additional information on pre-meeting activities call W. J. Millap 876-3694.

As Director of the Research Center of the General Precision Aerospace Group, Dr. Langford is responsible for direction of basic and applied research into discipline of mathematics, science and engineering for celestial mechanics, space technology, guidance and navigation systems and components.

In his present post, he draws upon 22 years of experience. He was associated with Weston Instruments from 1952 to 1961. There he provided technical guidance to the Applied Research Laboratories' research and development in all aspects of solid-state devices. He also directed the Development Laboratories in their work in electrical and electronic instruments and components for navigational and computer systems. Earlier, as Staff Engineer for the Weston Instrument Division, Enfield, England, he held program management responsibilities on aircraft navigation instruments.

Dr. Langford holds a Ph.D. degree and a B.S. degree in electrical engineering from the University of London. He was a post-graduate lecturer at Newark College of Engineering from 1952 to 1956.

March 7, 1945—U.S. forces captured Remagen Bridge, over the Rhine river. Elements of the 9th Armored Division and the First U.S. Army secured a bridgehead on the east bank, becoming the first invading forces to cross the Rhine since the days of Napoleon.

Welcome Mat

The ROCKET extends a cordial welcome to the following named civilian personnel who have recently started their employment with Army organizations at the Arsenal.

ARMY MISSILE COMMAND Procurement & Production: Julia L. Bass, Bobbi L. Beville, Jan S. Cooper, Jeanne T. Harley, Lillian B. Hook, Ernestine B. Howland, Billie A. Leach, Jimmie R. McAllister, Joyce L. Pettit, Virginia M. Sledge and Evelyn T. Smith.

Supply & Maintenance: Cleopha W. Burgess, James W. Huggins, Jr. and Robert L. Mader.

Others: Virgie G. Fann, and Rachel E. House, Pershing Project Office; Bobbie J. Mashburn and Margaret C. Nagle, Hawk Project Office.

ARMY MISSILE SUPPORT COMMAND

David E. Breeden, Patent Center; Charlotte H. Calbert, Basil M. Lepp and Clifford M. Smith, Finance & Accounting; Jeannette H. Duncan, Adjutant Division; Betty R. Jeffreys, Civilian Personnel; J. T. Shell, Post Quartermaster; and Wilbern E. Williamson, Post Transportation.

ORDNANCE GUIDED MISSILE SCHOOL

Patricia F. Burgreen and Irving G. Wells.

NIKE X PROJECT OFFICE

Joan E. Ham, Reinhart H. Leo and Frances V. Wilson.

different range, the Army remembered Col. Clark's work at the Eastern Test Range, awarding him the Army Commendation Medal for "exceptionally meritorious service." The citation was made in Kwajalein by Col. Robert B. Braid, Deputy Nike-X Project Manager.

A native of Marion, Iowa, Col. Clark began his Army career in 1940 after graduation with a bachelor's degree magna cum laude from Coe College, Cedar Rapids, Iowa. He also holds a master's degree from the University of Rochester, N.Y. Both degrees are in physics. He is also a graduate of the Air War College and the Armed Forces Command and General Staff College.

Col. Clark participated in the campaigns in Northern France, Normandy, and the Rhineland during World War II, and in the Korean campaign.

His other awards include the Bronze Star, the Purple Heart, and Combat Infantryman's Badge.

He is married to the former Madeline Jane Robinson of Battle Creek, Mich. They have three children, David J., Richard M., and Julia Ann. The two boys are attending school in the United States, while Julia Ann lives with her parents in Kwajalein.

Science Fair To Be Friday

Lasers, computers, studies in radiation, numerous studies in the medical sciences, solar furnaces, wind tunnels, and a robot are a few of the 300 home-built projects which students in Junior and Senior High Schools are exhibiting at the Northern Alabama Science Fair on March 12th and 13th at the Madison County Coliseum on West Holmes Avenue in Huntsville.

All student exhibits are open to the public from 5 to 10 p.m. on Friday, Mar. 12th, and from 8 a.m. to 12 noon on Saturday, Mar. 13th. There is no admission charge.

Students are exhibiting from twelve counties in North Alabama. The winning students will receive their awards at an awards ceremony beginning at 3:30 p.m. in the Coliseum on Mar. 12.

The University of Alabama in Huntsville is host to the 1965 Science Fair; Philip Mason is Regional Coordinator, assisted by Colonel Ed R. Billings, (Ret.). Committee Chairmen include Joseph Cantwell, Awards Committee of the Boeing Corporation; James F. Harroun, Judges Committee of I. B.M.; Richard E. Rupert, Local Arrangements Committee of Wyle Laboratories; and Dr. Clyde M. Zeanah, Registration Committee, Associate Professor at the Univer-

Education Center Has Open Door

The Army Education Center which serves the Ordnance Guided Missile School and Redstone Arsenal military personnel expects to place more than 400 men in courses at the University of Alabama Huntsville Campus this year, an increase over last year's figures.

Paul R. Fisher, advisor at the Center attributes the expected increase to the financial assistance program of the Army. The Army pays 75 per cent of the total tuition for undergraduate work and 52 per cent for graduate courses.

"We have been placing about 75 students per quarter at the University. At one time, the government paid only a small amount per semester hour. Under the new assistance program, we expect more applicants to apply for admission to the Center," Fisher said.

On April 19, 1861, President Lincoln proclaimed a blockade of Southern ports. The blockade cut off more than seven-eighths of all Southern shipping.

sity of Alabama in Huntsville. Co-operating with these communities are personnel from Brown Engineering and the Chrysler Corpora-

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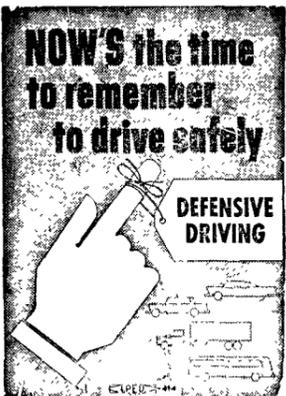
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ages 3 years to adult. Classes for
children and young people, grades
1 thru 12, meet in Chapel Annex,
Bldg. 3151. All military and civil-
ian personnel, and their families
are welcome.

SUNDAY EVENING WORSHIP
—1830 hrs.

THURSDAY — Choir Practice
at 1930 hrs. at the Post Chapel.
Chapel Nursery is open during
Choir Practice. Anyone interested
in singing in the Choir, contact
Mrs. Landrum, 877-5430.

REDSTONE PARK CHAPEL
BLDG. 9600

SUNDAY — 0945 hrs. — SUN-
DAY SCHOOL.

1100 hrs — MORNING WOR-
SHIP SERVICE

1800 hrs — YOUTH FELLOW-
SHIP for all young people, age 9
or grade 4 and up. (Chapel Nur-
ery open during the Service).

JEWISH SERVICES

CONSERVATIVE JEWISH Ser-
vices are held at Etz Chayim Syna-
gogue, 2501 Whitesburg, SE,
Huntsville, each Fri., at 2000 hrs.
and each Sat., at 9 a.m. Chil-
dren's Sunday School on Sun., at
10:45. For further information,
call Fred Glusman at 536-6621.

REFORM JEWISH Services are
held at Temple B'Nai Sholom each
Fri., at 2000 hrs, at the corner
of Lincoln & Clinton Streets, SE,
Huntsville. For further informa-
tion, call Rabbi Stein at 534-4771.

CATHOLIC

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

TUESDAY — Catechism classes
from 1830-1950 hrs, in Chapel An-
nex, Bldg. 3151. Novena Services
—1930 hrs. Confessions — 2000
hrs. Choir Practice — 2000 hrs

DAILY MASS — Tuesday thru
Saturday — 1100 hrs.

BAPTISMS — by appointment
only.

SATURDAY — Confessions —
1800-1930 hrs.

GREEK ORTHODOX SERVICES

GREEK ORTHODOX Services
are held on the second Sat. of
the month at the Post Chapel,
Bldg. 3714, from 0930 to 1030 hrs.

MONDAY — Choir Practice —
1930 hrs, Post Chapel, Bldg. 3714.

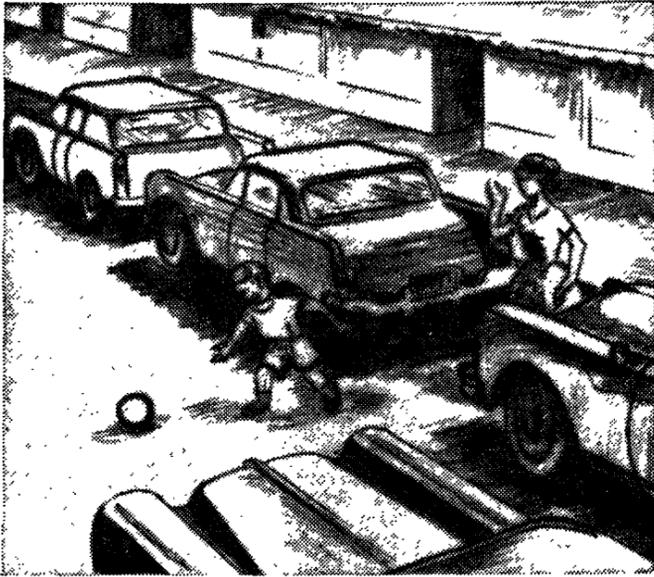
For further information con-
cerning Greek Orthodox Services,
contact Mr. Jacovides, 876-5272.

CHRISTIAN SCIENCE SERVICES
Sunday - 1100 hrs

CHRISTIAN SCIENCE Services
are held each Sun., at 1100 hrs.,
and each Wed., at 2000 hrs., at S.
White & Wells Avenue, Hunts-
ville. For further information or
transportation, call Christian
Science Armed Services Minister
collect, 776-2791. (Post Chaplain)

Wednesday Services are held at
2000 hrs, at S. White & Weels
Avenue, Huntsville. For further
information or transportation, call
Christian Science Armed Services
Minister, collect 776-2791.

The Civil War raged for almost
four years, until General Robert
E. Lee surrendered his Confed-
erate Army at Appomattox Court
House, April 9, 1865.



DRIVING CLOSE to a line of parked cars at 25 mph is dangerous.
If a little boy runs out from between them you may not see him
until he is within 15 feet of your bumper, where you would hit
him if you couldn't stop in time. But a car moving 25 mph
takes 63.5 feet to stop, and this is 48.5 feet more than you have.
With oncoming traffic you can't dodge left—because of parked
cars you can't dodge right. Slow down and keep as far left
as you can without interfering with traffic.

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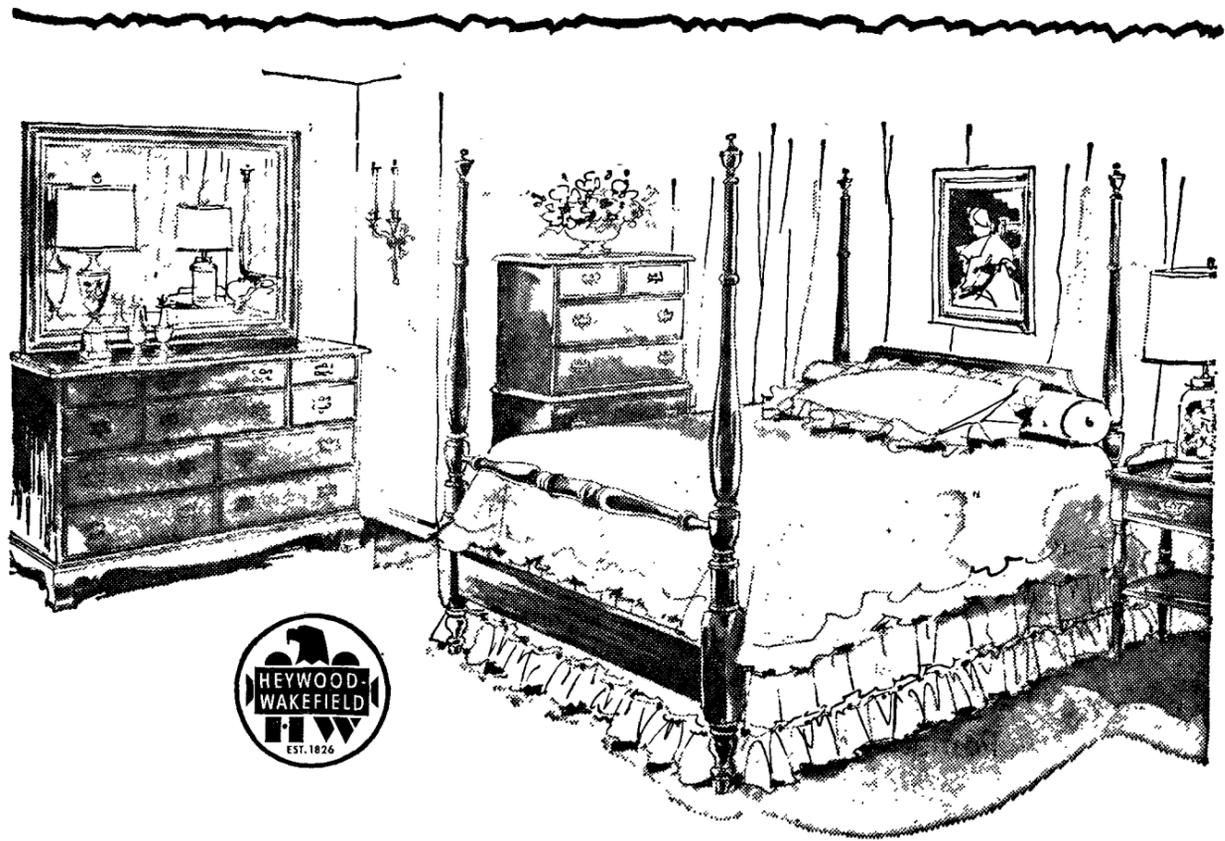
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BILLY PAYNE, MSFC

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Church Musicians Will Be Honored

The church musician, be he choir master or organist or both, is often neglected for his dedicated service. The Huntsville Chapter of American Guild of Organists (AGO) will honor these musicians with a Festival Service at the First Methodist Church on Sunday, March 14 at 3:00 p.m.

Several organ selections will be played before and after the service on the 42 Frank Schantz organ by William Dennison, Head of the Music Department, Athens College, and by Robert Ives, organist for the Huntsville Community Chorus. Participating in the services will be local musicians, the Huntsville Community Chorus and several local clergy. The congregation will sing several hymns and the Community Chorus will sing three anthems: "Hallelujah" from "The Mount of Olives" by Beethoven, "In the Year That King Uzziah Died" by David McK. Williams, and "Say Ye to the Righteous" from "The Peaceful Kingdom" by Randall Thompson.

The public is invited to participate in the celebration.

MRS. MULLINS WINS AT BRIDGE

Mrs. Lella Mullins won at bridge Thursday, playing with the Bridge Group sponsored by the Redstone Arsenal Officers Wives Club at the Officers Open Mess.

Second competitor was Mrs. Merle Ashley with Mrs. C. G. John-



AT RED CROSS COFFEE—Gray Ladies from the Madison County Chapter of the American Red Cross honored Mrs. Robert C. Hunt (second from left), director, Office of Volunteers, Southeastern Area, and Miss Helen Turner, (far right) executive assistant director, Mar. 2 in the ballroom of the Redstone Officers Open Mess. Left to right are Mrs. Burton Stroupe, Chairman of Madison Coun-

ty Volunteers; Mrs. Hunt, Mrs. John G. Zierdt, wife of the Missile Command's Commanding General; Mrs. R. W. Mundy, Chairman of Redstone Volunteers; and Miss Turner. Approximately 300 Gray Ladies, Aides and other Red Cross Volunteers attended the event which was part of a two-day orientation on the Madison County Chapter activities.

Schorsten, Mrs. Tyson Are Monday Bridge Winners At Open Mess

At Monday night bridge competition last week E. S. Schorsten and Mrs. John S. Tyson were winners for the men and women respec-

son in third place.

Low score was made by Mrs. George Allen.

Mrs. A. J. Matthews handles reservations for the Thursday morning play.

tively during play at the Redstone Officers Open Mess.

Runnerup among the ten tables were O. W. Wilson and Mrs. George Dunlap.

Reservations to play with the group are made with Mrs. R. U. Scott, 772-3273.

Sodality Debates

The Catholic Women's Sodality held a debate following 9 a.m. Mass Friday.

After Mass they congregated in the Post Chapel Social room for a short business meeting.

Mrs. Donald Diehl and Mrs. Stanley Fragge debated the pro side and Mrs. Gerald Birch and Mrs. Henry Asselin the con side of the question, "Should the Military Tithe."

Chaplain William Condon announced the Sodality Scholarship competition is open.

He also talked about religious vocations in the home, and observation of March as the month of vocations.

NIP CLIP MISUSE

A survey conducted by the company publication of Lloyd's Bank of England as to the fate of 100,000 paper clips showed:

14,163 were twisted or broken during telephone calls.

17,200 were used in makeshift bra or suspender hooks.

5,434 became toothpicks.

5,308 were used as fingernail cleaners.

19,143 served as chips in card games.

3,196 were used as pipe cleaners. Thousands were dropped on the floor to be swept away.

Only 20,000 of the 100,000 were used to clip papers together.



COLONEL'S DAUGHTER CAPPED—Miss Nancy Nielson, daughter of Lt. Col. and Mrs. C. D. Nielson, recently received her nurse's cap in ceremonies at the Druid City Hospital School of Nursing in Tuscaloosa. Miss Nielson is the secretary-treasurer of her class. Her cap is being fitted by the Director of the School of Nursing at the hospital. Lt. Col. Nielson is Nike-X Project Executive Officer.



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Business And Professional Women Honored

Business women and professionals across the United States are coping with a week more full than usual because this is National Business and Professional Women's Week.

Four State officers for the BPW are employed at the Army Missile Command: Dolly Flowers, the State president; Mildred Kubilis, monitor for the Pratt scholarship fund; Grace Bailes, treasurer for the fund; and Louise Julich heads the "Youth Power" program.

Dolly and Mildred work together as management analysts in the Data Systems Office of Management Science; Grace is a status clerk in the Directorate of Supply and Maintenance; and Louise is an executive secretary to the Commanding General of Land Combat Systems.

Dolly is a member of the Huntsville BPW Club; Mildred and Grace belong to the Athens Club; and Louise is a member in Decatur. The Huntsville club was the sponsor for the Athens Club in 1958.

Members of the organization are dedicated to community service and for the first time an Alabama member will receive the coveted "Top Hat" award for outstanding service as a Birmingham City Council member. She is Miss Nina Miglionico who won the recognition for her contribution for an equal pay law and her work as a family relations counsellor. The award will be presented in Birmingham Friday.

In Huntsville activities are scheduled almost every day. Tuesday night the principal speaker at the banquet was Rozelle O'Donnel, president of Toastmistress International.

The clubs in the area are being honored at a Coffee tomorrow night at Dunnivant's Mall, and all of the clubs plan to attend a church service in a body during National Business and Professional Women's week.

Taxpayers in line for 1964 Federal income tax refunds have opportunity to get their refund dollars in U.S. Savings Bonds. Make your refund grow — take it in bonds.



DOLLY FLOWERS
State President



MILDRED KUBILIS
Monitor, Pratt Scholarship



LOUISE JULICH
Head of Youth Power Program



GRACE BAILES
Treasurer, Pratt Scholarship Fund

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ANOTHER LOCATION SOON AT MEMORIAL PLAZA
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At The Service Club

By BETTY HAYES

How did you enjoy our two big shows last week? This week we have a real treat for you—The Ink Spots will appear on Tuesday, March 16, for a floor show and dance. I will give you the details later.

Tonight at 8 p.m. a pinochle contest will be held. I know that there are many pinochle players around because several games are going on Saturday and Sunday afternoons. Bring your favorite partner tonight and try for the prizes.

Even though the bridge classes are expanding each week, we still have room for anyone who would like to learn to play on Thursday evening at 7:30 p.m.

Attention shuffleboard players! You have a chance to enter a contest on Friday evening at 8 p.m.

Coffee time is scheduled for Saturday at 3:30 p.m.

On Saturday evening at 8 p.m. you have a chance to identify the popular vocalists of today and yesterday when we play identify the vocalist. A Grand Prize will be given to the man who identifies the mystery vocalist.

Wake up to a hot cup of coffee and donuts on Sunday morning at 9 a.m.

Sunday evening a bridge party will be held at 8 p.m. A prize will be given for the highest score.

Join us for an evening of games on Monday at 8 p.m.

On Tuesday evening the Ink Spots will appear at the Service Club for a floor show and dance from 8 p.m. till 12 a.m. Come out and dance with your favorite Hostess or date to the music of this fabulous group.

Winners of the contests for last month were: Frank Vaughn, first place, and Gerald Griffin, second place, for the pool contest; Howard Wiltsie and Gale Kimsey were the pinochle champions.

See you at the Service Club.

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Engineers To Meet Tuesday

North Alabama Section of the American Institute of Chemical Engineers will meet at the Pavilion Inn in Decatur Tuesday.

The guest speaker will be John M. Bolton, assistant director of the Technical Staff of the Alabama Water Improvement Commission, Montgomery, Alabama. His subject will be "Water Pollution" and he

will present a short film on "The Miracle of Alabama Waters."

Bolton was born in Albany, Ga., in 1925. He served in the U.S. Navy for two years. He received his B.S. degree in Civil Engineering from the University of Alabama and his M.S. degree in Civil Engineering from Purdue University. He is a registered Professional Engineer and past Director of the Board of Control of the Water Pollution Control Federation. He was the 1964 recipient of the Arthur Sidney Bedell award presented by the Water Pollution Control Federation for "Outstanding Personal Service to Member Association." He is presently employed by the Alabama Water Improvement Commission, where he has been for seventeen years.

Reservations must be made by noon Monday, with J. L. Murphy, Jr. of Thiokol Corporation, 876-9292.

Spending habits of U.S. consumers are becoming more alike. Although differences in consumer spending are still evident between rural, rural non-farm and urban families and between family age groups, the trend toward more similar spending patterns.

State Troopers estimate it takes 30 seconds to fasten a seat belt. Is your life worth the time?

Panic Buttons...

OF COURSE YOU BOYS MAY SLEEP OVER... AS LONG AS IT'S OKAY WITH YOUR MOTHERS.



IT WAS SWELL OF YOUR MOM, LETTING US STAY OVER TONIGHT!

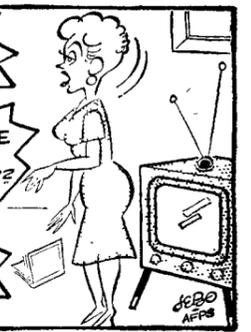


CAN I HAVE A DRINK OF WATER?

CAN I HAVE A DRINK OF WATER?

CAN I HAVE A DRINK OF WATER?

LATER...



Guerrilla Tactics Taught At School

By the time a unit is activated at the Ordnance Guided Missile School, its members are battle-hardened veterans of guerrilla warfare—wars they won't soon forget.

The School's Directorate of Unit Training has put together a mock guerrilla war plan that gives missile units a chance to apply their tactical training against a band of unseen enemies. The odds, however, are on the guerrilla's side.

While unit members are armed only with M-1 rifles and blank cartridges, the hit-and-run attackers can draw from an arsenal of tear gas and baseball grenades, star clusters which light an entire area, atomic and artillery simulators and dozens of booby traps.

A guerilla band is usually an eight-man detail of permanent party "threats" such as company clerks, typists and personnel spe-

cialists—yet it takes five unit members to put one guerrilla out of action. Guerrilla ambushes are frequent and field problem referees are not above giving the aggressors a little aid.

The battlefield is usually a section of rugged mountainous terrain of Redstone Arsenal where the Missile School steadily turns out teams of maintenance technicians whose job it is to keep weapons in

constant readiness at bases that almost girdle the globe from Viet Nam to the Berlin Wall and down to Israel. To date, almost 150 units from 18 nations have taken part in the mock battles here.

Before a unit is certified for active duty with tactical forces, it must take its equipment into the battlefield and subject itself to day and night surprise attacks by an unseen enemy.

Post Library

NORMA E. SHORT
Librarian

NON-FICTION

Army Times, Great American Cavalrymen.
Brion, Marcel, Paris in Color.
Cox, Joseph A., The Recluse of Herald Square.
Crouch, Ralph, Mathematics for Elementary Teachers.
Davis, Roy Eugene, Secrets of Inner Power.
Farago, Ladislav, Patton: Ordeal and Triumph.
Frost, Jane Carpenter, Your Future in Dental Assisting.
Giniger, Kenneth Seeman, A Treasury of Golden Memories.
International Lesson Annual, International Sunday-School Lessons.
Kagan, Henry Enoch, Six Who Changed the World.
Kahn, Robert I., The Ten Commandments for Today.
Kriegel, Leonard, The Long Walk Home.
Miller, Ed Mack, Men of the Con-trail Country.
Nelms, Henning, Thinking With a Pencil.
Sachs, Maurice, Witches' Sabbath.
Salabert, Miguel de, Interior Exile.
Shulman, Irving, Harlow.
Smith, Frank Ellis, Congressman From Mississippi.
Tazieff, Haroun, When the Earth Trembles.
Throckmorton, Peter, The Lost Ships.
United National Educational, 700 Science Experiments for Everyone.
Viaux, Jacqueline, French Furniture.
Wise, David, The Invisible Government.
Wylie, Max, The Gift of Janice.

FICTION

Amis, Kingsley, Spectrum III.
Black, Gavin, The Eyes Around Me.
Chaber, M. E., Six Who Ran.
Cozzens, James Gould, Children and Others.
Dowdell, Dorothy, Roses for Gail.
Egan, Lesley, My name is Death.
Epstein, Seymour, Leah.
Hancock, Frances, Just Sally.
Jenkins, Geoffrey, The River of Diamonds.
Kennedy, Margaret, Not in the Loeser, Katinka, Tomorrow will be Monday.
Calendar.
Masters, John, Trial at Monomoy.
Oliver, Symmes Chadwick, Mists of Dawn.
Procter, Maurice, Two Men in Twenty.
Puget, Rene, The Long Haul.
Ryder, Sabin, Three on the Road.
Scherman, Katharine, The Long White Night.
Upshaw, Helen, The Return of Jennifer.
Vidal, Gore, Julian.
Wagner, Geoffrey, The Lake Lovers.
Wodehouse, Pelham, Biffen's Millions.

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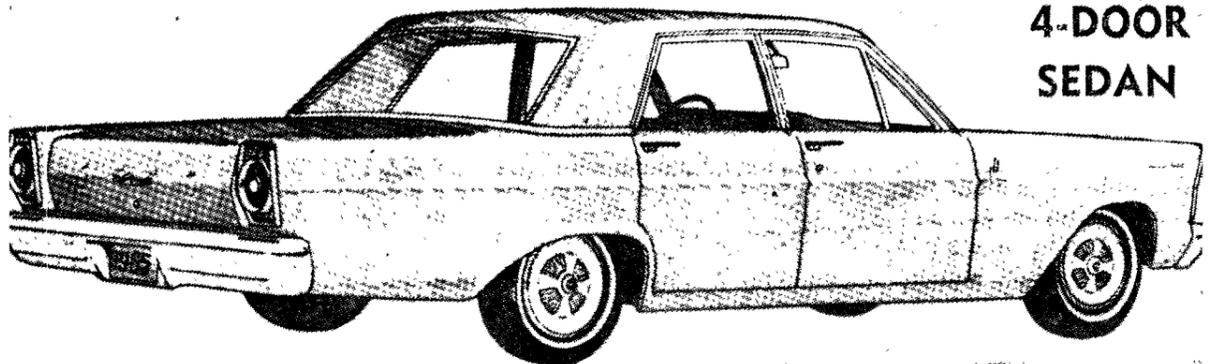
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Awards and Decorations

Award of the Good Conduct Medal has been made to the following named military personnel in recognition of their exemplary behavior, efficiency, and fidelity for the period indicated.

Good Conduct Medal Clasp (fourth award), **SGT Raymond M. La Mere**, 55th Army Band.

Good Conduct Medal Clasp (second award), **SFC Cyrus L. Downey**, Medical Detachment, U.S. Army Hospital, and **SP5 Ray D. Ikner**, **SP4 Robert F. Poff** and **SP5 Tommy J. Terry**, all with Hq & Hq Det., AMSC.

Good Conduct Medal (first award): **SP4 Don G. Jacobs**, 55th Army Band; **SP5 Charles F. Shupe**, Air Defense Fire Distribution System Office; **SP4 Jerry Moore**, U.S. Army Missile Command; and **SP5 Joseph F. Browning**, **SGT William J. Dalton**, **SGT Frederick R. Davis**,

SP4 David M. Farrell, **SP4 Gilbert E. Harrington**, **SP4 Kenneth R. Mills**, **SP5 Cyril D. Parks**, **SP4 John M. Saunders**, **SP4 Richard G. Shore**, **E6 James E. Stinson**, all of whom are assigned to Hq & Hq Detachment, U.S. Army Missile Support Command.

ACCIDENTS ARE EXPENSIVE

A drive to cut injury frequency by 30 per cent by 1970 has been instituted by the Department of Defense and all other Federal departments and agencies.

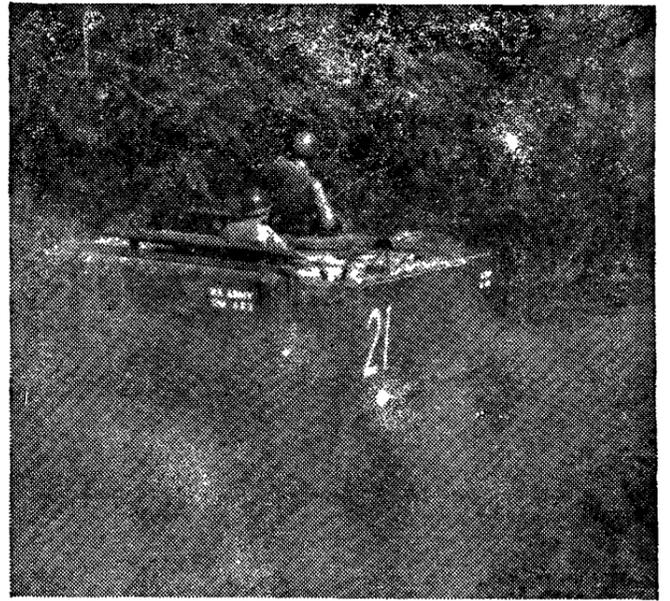
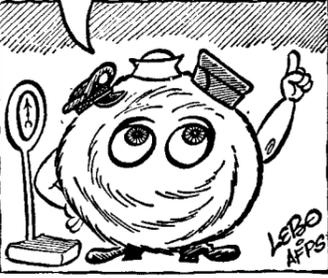
As a first step in starting the campaign, President Lyndon B. Johnson has launched Mission Safety-70. Attainment of the 30 per cent reduction goal would prevent about 45,000 injuries and save almost \$250 million in direct and indirect costs.

"No one can relax in the pursuit of safety," the President said. "I am issuing a Safety Policy for the Federal Government as the Nation's largest employer. This policy will guide Government Admin-

istrator's in the discharge of their responsibilities and in this attainment of the objectives I have set forth."

FOOF'S SPOOFS

AN OVERWEIGHT PERSON WHO IS HUNGRY AS A HORSE SHOULD LEARN TO SAY "NAY!"



A U. S. ARMY M-113 Armored Personnel Carrier of the 33rd Trans. Bn., 25th Inf. Div., fires its .50 cal. machine gun in support of the 1st Battle Group, 27th Infantry's "Operation Billy's Bang." FMC Corp. produces Army's M-113.

Sometimes Little Things Are The Ones That Count

Sometimes they are shadowed by bigger figures, but the little things count, too, especially when added into the Army Missile Command's efforts at Cost Reduction.

One of these small, but important savings came recently through the Directorate of Research and Development. A continuing review of use of telephone instruments within the Directorate found a number of phones which were no longer required. These were returned to the U. S. Army Missile Support Command which provides all communication support for tenants of Redstone Arsenal.

These instruments were then put into use for other requirements, avoiding a \$636 cost to the Support Command for new instruments.

Lt. Col. S. W. Josephson is Director of R&D. Col. Thomas W. Cooke is Commander, Missile Support Command.

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ROTC PROGRAM TO BE EXPANDED

The Army Ordnance Guided Missile School and Missile Command is cooperating with the IV and the XII Corps in Birmingham and Atlanta in encouraging Southeastern high school and colleges to participate in the expanded Reserve Officers Training Corps program.

The goal is to tell Southern educators and high school and college students about scholarships and cash grants that can be obtained under a new U. S. law, according to Col. William J. Macpherson, commandant.

The program began Friday when students from Shades Mountain near Birmingham visited the U.S. Army Ordnance Guided Missile School to start a program in which the expanded role of ROTC is being emphasized here to educators from seven Southern States.

More students from Cahaba High School of Birmingham and a group of university-level faculty members are scheduled to visit the Missile School next week. In coming weeks, the School will host senior ROTC students from Florence State College, Mississippi State University at Starksville; University of Mississippi at Oxford and Clemson College.

The law provides for an expansion of the ROTC program in both college and high school divisions. Already participating are 247 colleges and 254 high school units. The latter will be expanded at the rate of 200 units per year.

Col. Macpherson pointed out that only three cities in Alabama have high schools with ROTC programs: Birmingham, Montgomery, and Opelika. No such units exist in the entire northern part of the state, he added, and it is hoped the program of visits by educators will stimulate the organization of junior and senior units in the area.

The group will hear explanations of the expanded ROTC program and will tour facilities at the Missile School, the Army Missile Command and the Marshall Space Flight Center.

Administration of ROTC and reserve units falls under the command of an Army Corps in each section of the United States.

Col. Macpherson said that a high degree of interest has been shown in expansion of the program in north Alabama and noted that the new program could assist many to help pay for their higher education because of increased payments to students of advanced standing.

The program also includes scholarships for highly qualified students that cover all expenses plus a monthly salary for their entire four years in college.

Under the new law as many as 200 additional high schools can be authorized in the next fiscal year for the junior program. Minimum enrollment of 100 able-bodied male students is required. Payments to advanced standing students will be raised from \$40 to \$50 per month for their last two years in college.

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UNIVERSITY OF ALABAMA IN HUNTSVILLE

ANNOUNCES THE OPENING OF SPRING QUARTER

MARCH 22, 1965

Four-year undergraduate program leading to the bachelor's degree in Arts and Sciences with majors in English, history, mathematics and physics are available in Huntsville to first year students. An undergraduate curriculum in engineering is being determined and will be announced soon. Upper level undergraduate courses are being provided as facilities and availability of faculty permit.

Undergraduate classes will be taught in the following subjects:

ACCOUNTING—Principles of Accounting, Accounting Analysis, Income Tax Procedure

AERONAUTICAL ENGINEERING—Meteorology

BIOLOGY—General Biology (Plant)

BUSINESS LAW—Introduction to Business Law

BUSINESS STATISTICS—Introduction to Business Statistics

CHEMISTRY—Introductory Chemistry, General & Analytical Chemistry

EARTH SCIENCE—Fundamentals of Earth Science

ECONOMICS—Principles of Economics

ELECTRICAL ENGINEERING—Electric Circuits, Fields & Transmission Lines

ENGINEERING DRAWING—Engineering Drawing, Descriptive Geometry

ENGLISH—Fundamentals of English, English Composition, English Literature, American Literature, English Composition for Engineers, Materials of Composition, The American Novel, Technical English

EDUCATIONAL PSYCHOLOGY—Educational Psychology

FINANCE—Money and Banking

FRENCH—Elementary French, Intermediate French.

GENERAL ENGINEERING STUDIES—Nature and Properties of Materials

GERMAN—Elementary German, Intermediate German

HUMANITIES—Government in Contemporary Society

HISTORY—History of Western Civilization, The United States to 1865, Introduction to Latin American History, Social and Cultural History of the United States Since 1865, The New South

INDUSTRIAL ENGINEERING—Manufacturing Processes, Engineering Statistics

MATHEMATICS—High School Algebra, Plane Geometry, College Algebra, Introductory College Mathematics, Analytic Trigonometry, Analytic Geometry and Calculus, Calculus and Analytic Geometry, Calculus, Applied Differential Equations, Solid Analytic Geometry, Introduction to Real Analysis, Introduction to Theory of Differential Equations.

MECHANICAL ENGINEERING—Thermodynamics, Heat Transfer

ENGINEERING MECHANICS—Statics, Mechanics of Materials, Fluid Mechanics

PHILOSOPHY—Problems of Philosophy, Introduction to Logic, Ethics

PHYSICS—Technical Physics, Electronics, Methods of Theoretical Physics, Mechanics

POLITICAL SCIENCE—Functions of American Government, International Politics

PSYCHOLOGY—Introduction to Psychology, General Psychology, Psychology of Adjustment, Abnormal Psychology

SPEECH—Elementary Public Speaking

Graduate classes leading toward advanced degrees will be taught in the fields of engineering, mathematics, physics, chemistry, and public administration. Masters degrees may be completed in Huntsville in mathematics, physics, mechanical engineering, electrical engineering, engineering mechanics and industrial engineering.

Courses of a non-credit nature of interest to special groups of persons will be provided from time to time. Such courses are dependent on the indicated need of the groups and on the availability of instructional capability. Courses tentatively listed for the spring quarter are Art Painting Workshop, Calculus Review, Digital Computer Fundamentals III, General Engineering Review, and Investments II.

Persons who have not previously attended the University of Alabama and who wish to enroll for the Spring Quarter must complete applications well in advance of registration which will begin on March 22. Only those students who have been admitted by the Office of Admissions and Records of the University of Alabama may be registered for classes. Persons who have previously been admitted to the University of Alabama but who have not attended classes at the University of Alabama in recent quarters are advised to check their admission status before attempting to register on March 22.

For further information concerning these courses and concerning applications, contact the University Offices in Morton Hall at 4701 University Avenue, NW Telephone 837-4700. Registration for the Spring Quarter will be on March 22 and 23 from 1 p.m. to 4:30 p.m. and 5:00 p.m. First classes will meet March 24, 1965. Late registration, March 25-April 3. Late registration fee, \$5 00

WORK STUDY AND STUDENT LOAN PROGRAMS—Opportunities are now available at the Huntsville Campus for students to participate in the Work-Study Program provided by the Economic Opportunity Act and the National Defense Student Loan Program provided by the National Defense Education Act. In the Work-Study Program students who qualify may register in any of the educational programs of the Huntsville Campus and at the same time earn a large part of their education expenses from employment by the University or a number of cooperating community agencies. The National Defense Student Loan program provides loans for present or prospective students needing financial assistance. Persons interested in the Work-Study Program or the Student Loan Program should consult the Center Director at the Huntsville Campus

CLASSES ARE OFFERED MORNING, AFTERNOON AND EVENING.

Redeye Undergoes Service Test, First Phase Success

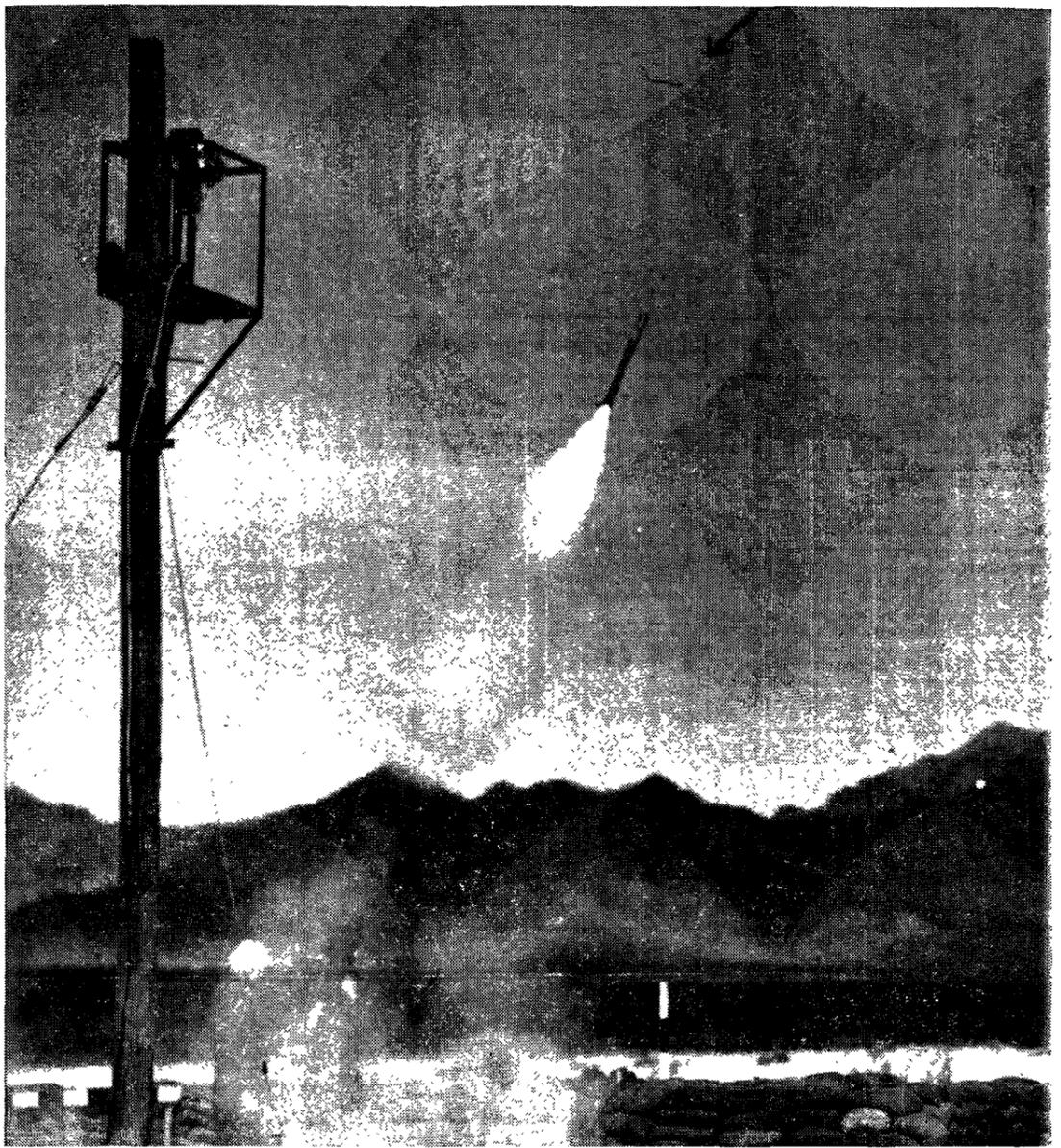
ABERDEEN PROVING GROUND MD.—The U. S. Army Test and Evaluation Command's Air Defense Board at Ft. Bliss, Texas has successfully completed the first phase of the preliminary service test program on the Redeye Air Defense Missile.

Phase one demonstrated the capability of Army and Marine Corps gunners to effectively use the Redeye weapon in a series of firings against medium speed drone target aircraft.

The next test series will test the gunners' skill against larger and faster aerial targets. Continued

test programs will also be conducted under simulated combat conditions in the arctic, tropic and desert environments using typical ground combat soldiers and marines as gunners.

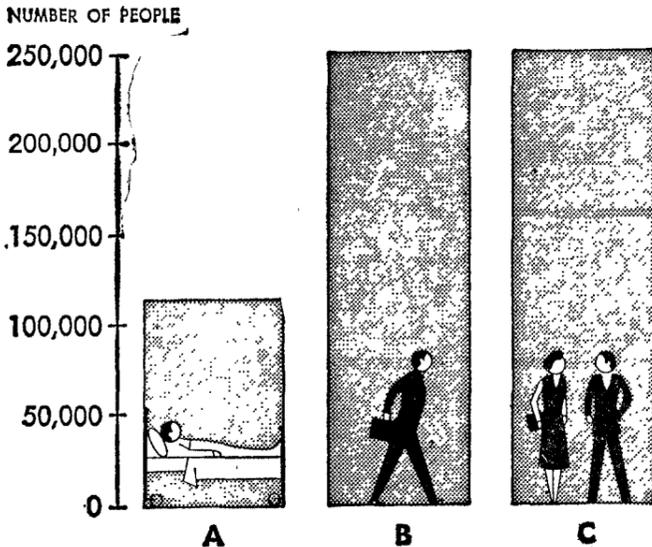
Reportedly the smallest air defense missile system in the world, the man transportable Redeye was especially designed for the Army and Marine Corps for forward area defense against low flying aircraft. The missile, approximately four feet long, is guided by a heat seeker which detects and "homes" in on infrared energy generated by the engines of the target.



READY-AIM-FIRE—Enveloped in a cloud of smoke, SP5 John W. Manning launches a small supersonic Redeye Air Defense Missile to score a bull's-eye on medium speed drone target. SP5 Manning is one of the Army and Marine Corps gunners participating in the preliminary service test of the Redeye by the U. S. Army Air Defense Board at Ft. Bliss, Texas.

TB: the Problem that Won't Go Away

610,000 Americans still have active tuberculosis or are classified as "high risk" individuals.



- A.** 110,000 are known to have active tuberculosis.
- B.** 250,000 are recently recovered TB patients, many of whom are subject to relapse.
- C.** 250,000 are known to have had contact with new active TB cases recently reported.

610,000 persons, all told, are now in the TB picture—either as actively ill patients or in the "high risk" category. Christmas Seal funds help provide the hope and the means of achieving ultimate control and eradication of tuberculosis in the U. S.

Source: Report of the U. S. Surgeon General's Task Force on TB Control in the United States.

Redeye is managed by the U.S. Army Missile Command. Colonel A. W. Reed is project manager.

Fletcher Named Honor Graduate

Darrell Fletcher has been named an honor graduate of the Defense Inventory Management Course of the U. S. Army Logistics Management Center at Ft. Lee, Va.

Fletcher, an inventory management specialist at the Army Missile Command, was one of the top graduates in a class of 34. In recognition of his high scholastic achievement, Fletcher was presented a special diploma.

Col. Lloyd E. Hirschhorn, director of the Nonresident Instruction Department of the Quartermaster School at Fort Lee, and president of the Fort Lee Chapter of the Defense Supply Association, was the graduation address speaker. He also assisted in the awarding of diplomas.

The Defense Inventory Management Course is one of nine defense (joint) courses in the Center's curriculum of 17. The Army Logistics Management Center is a field activity of the Army Materiel Command, Washington, D. C., and is the only Department of the Army agency devoted to postgraduate level training of military and civilian logistics managers.

Col. Felix J. Gerace is the Center Commandant.

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1962 Olds 88 4-dr.	1695.00
1961 Olds 88 Wagon w/ac	1595.00
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Page 14 The Redstone Rocket — March 10, 1965

1. For Rent

FURNISHED APT. for couple, 2 rooms and bath, \$70.00 month including utilities, air-conditioning. Near Arsenal. Madison, Ala. Call 772-3384. 1tp

ROOMS FOR RENT—Single and double for men with good habits, completely and newly decorated, economically priced. Central Y.M.C.A. Dial 534-6452. tfc

FOR RENT—TV's portables, UHF-VHF, by day, week or month. 1964-65 models. Ph. 536-9761 Central TV and Stereo Co., corner Governor's Drive and Parkway. Open 8 a.m. to 9 p.m. daily. Phone 534-8689. tfc

FURNISHED—1 or 2 bedroom apartments on dead-end street away from noise, yet very convenient to Gates 1, 8 and 9. Call 536-0775. tfc

2. Cars For Sale

FOR SALE—1964 International Scout Station Wagon has approximately 17,000 miles, two gas tanks, two radios, two gun racks, cushion rear seats, boat hitch, four wheel lock drive, in real good shape will sell for approximately \$1,000.00 below list price when new. Call Cornelius Real Estate Company, Guntersville, 582-3027 or 582-5313. 3-24-C

FOR SALE—1960 Pontiac, 4 door, radio, and heater, whitewall tires. Better than average condition. Phone 732-4315, or 232-4864. 3-10c

3. Miscellaneous

TOP NOTCH DANCE INSTRUCTOR WANTED Part time. 2 years teaching experience required. If qualified call for interview. Arthur Murray Studio, 536-9624. 3-31c

GOING INTO INSURANCE?—If you are considering entering the Life Insurance Business, you owe it to yourself and your family to check what the John Hancock can offer you. Write or call Mr. Martin at 534-4655 — 2109 West Clinton Building. E.O.W. tfc

2 Yamaha 80CC Trail bikes, one is the Omaha Trail, blue book value \$350., our price now \$260. The other a 1964 80CC Trail Master, blue book value \$364., now \$295. We have 3 used scooters, prices \$195, \$175, \$150, all in good running condition, 1964 Yamaha street model, step through frame with 3 speed automatic clutch, electric starter, \$195., has new guarantee. HUNTSVILLE CYCLE, 636 Meridian St., phone 539-9181. 3-10c

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GWENN'S HEALTH SALON, No. 13 Traylor Island—Massage, Steam Bath, Reducing. Open 10 a.m. to 6 p.m. Experienced masseuses. For appointment, phone 534-9651. tfc

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4. Mobile Homes

FOR SALE—Wolverine House Trailer. 46' x 10'. \$300 equity, take up payments of \$58.40. Call 828-3358. 1tp

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5. Houses, Lots - Sale

FOR SALE OR TRADE—New 3-bedroom brick, 1½ baths, large built-in kitchen and den. In Hartselle Closed-in garage and utility room. On 100X275-ft. wooded lot, Hampton St., Hampson Subdivision, Hwy 36 West. \$15,450, FHA Phone Hartselle 773-6313, day; 773-7113, night. 1-t-c

FOR SALE—Beautiful three bedroom BV home built in oven, central heat, double carport, beautiful wooded lot. Will trade for equity in smaller house. Call Cornelius Real Estate Co., 582-3027 or 582-5313. ttc

3-BEDROOM BRICK for sale or trade. In Hartselle, cedamic bath, large living and dining room combination Built-in kitchen, carport and storage. At 110 Prospect Drive, West, one block to new elementary school. \$13,950. with \$450 down, FHA. Phone 773-6313, day; 773-7113, night. 1-t-c

FOR SALE—Nice three bedroom, one bath, garage, on one acre of land at Grassy, Alabama, has city water and gas. Up to thirty years, closing cost will not exceed \$30.00 plus fire insurance. Call Guntersville, Cornelius Real Estate Company, 582-3027 or 582-5313. 3-24-C

FOR SALE—Nice two (2) bedroom home in good location in Arac, Alabama. Will sell at no down payment. Just pay closing cost Call Cornelius Real Estate Co., 582-3027 or 582-5313. ttc

BEAUTIFUL WOODED—20 acre tract located on Mooresmill Road just north of city limits \$10,000.00 Call Bob Pritchett or Gil Moody 539-7456 or after 7 p.m. 881-5708. 1-f-c

FOR SALE—26 acres of land at edge of Grant, Alabama, has city water, footage 528 feet, on paved road, partly wooded, would make approximately more than sixty (60) building sites, will sacrifice for \$7,000.00. Call Guntersville, Cornelius Real Estate Co., 582-3027 or 582-5313. 3-24-c

80 ACRES—Located 10 miles east of Hartselle, Ala., ½ mile west of Mount View Baptist Church. Good 3 bedroom dwelling with all modern conveniences, large barn, 40 acres in row crops, 10 acres in pasture. Price \$15,500. Pay owner equity and assume mortgage. Monthly payments \$57.00. A. L. Aldridge, owner. E. G. Williamson Real Estate Broker, Cullman, Ala. Phone 734-6294. ttc

FOR SALE—Home at 9629 Todd Mill Road. Close to new Weatherly School and Y. M. C. A. 3 bedrooms, 2 baths, nice living room, with wall to wall carpeting. Panelled family room and kitchen with all built-ins, 2 car insulated garage, heat pump, air conditioning. Draperies and curtains, large fully landscaped lot at South end of Jones Valley, \$23,500. full price. \$3800. equity. Phone 881-5671. ttc

FOR SALE—Nice three bedroom home with one bath, in one of best sections of Guntersville. Carport and storage, full unfinished basement garage under carport. Beautiful view of lake 5¼% loan up to thirty years no down payment approximately \$30.00 closing cost and fire insurance. Call Guntersville, 582-3027 or 582-5313 Cornelius Real Estate Company. 3-24-c

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BUY FOR LESS THAN RENT—
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Many Nations Represented

The Army Ordnance Guided Friday. Yet the class of 25 missile school graduates one of its smallest classes in some time last. The group heard a keynote address by Capt. Charles H. Lounderson, chief of the Pershing Division's Artillery Department at the school.

Panic Buttons...



Honor diplomas were presented to M/Sgt. Ormas Sahin of Turkey, M/Sgt. Jean-Claude Belis of France, Sp/5 Clifton A. Ross and PFC Terry T. Barnes of the United States.

Other countries represented at the ceremony include Belgium, Italy and Norway.

Reduce Your Risk of Heart Attack

<input type="checkbox"/> reduce if overweight	<input type="checkbox"/> decrease saturated fats
	
<input type="checkbox"/> stop smoking cigarettes	<input type="checkbox"/> control high blood pressure
	
<input type="checkbox"/> exercise regularly	<input type="checkbox"/> shun needless tensions
	

YOUR HEART ASSOCIATION recommends the above-listed precautions to reduce your risk of becoming a victim of heart attack. Dieting and control of high blood pressure are to be undertaken only under medical supervision. A seventh suggestion: Support the nationwide fight against heart and blood vessel disease by giving generously to the 1965 Heart Fund, which reaches its high point on the weekend of Heart Sunday, February 21, when more than 1,750,000 volunteers will visit their neighbors to distribute heart-guarding information and to receive Heart Fund contributions.

Selected LISTINGS...

NEAR CHAPMAN SCHOOL
2007 CHAMBERS DRIVE. 3-bedroom, living room, family room, kitchen combination, 2 baths, attached garage, sliding glass doors, fenced yard. Only \$18,225.

2303 DOGWOOD LANE
Nice 3 bedroom home on large lot, 2 ceramic tiled baths, living room, dining room, kitchen, attached garage with large storage room. Can be financed on V.A. with no down payment and \$100.00 closing cost. Only \$18,000.00.

POPLAR DRIVE MERIDIANVILLE, ALA.
This home was built with the large family in mind. 4 good size bedrooms, living room, dining room, paneled den, built-in kitchen with eating area, wood burning fireplace, double car garage and large playroom in basement. One acre lot with trees. Conventional or VA financing.

3901 VOGEL DRIVE
Near Davis Hills School, 3 bedrooms, living room, dining rm. combination built-in kitchen with family room, 2 baths, large lot with trees, purchase G.I. equity for only \$2000.00 and assume payments of \$119.40 including taxes and insurance.

POPLAR DRIVE MERIDIANVILLE
Lovely Brick split-level with 3-bedrooms, sunken living room, dining room, family room, sliding glass doors, patio, situated on 1 acre lot with trees. 100% financing to veteran plus closing. Only \$26,000.00.

ARDMORE HIGHWAY
2 nice brick homes on 1 acre lots. These homes have 3 bedrooms, 1 1/2 ceramic tile baths, built-in kitchen, family room, attached garage and many more extras \$14,500 to \$15,500.

3717 BROADMOR ROAD N.W.
Nice 3-bedroom home (1 paneled for den) large kitchen with dining area, carport, storage room, good size lot purchase for \$550.00 down plus closing cost.

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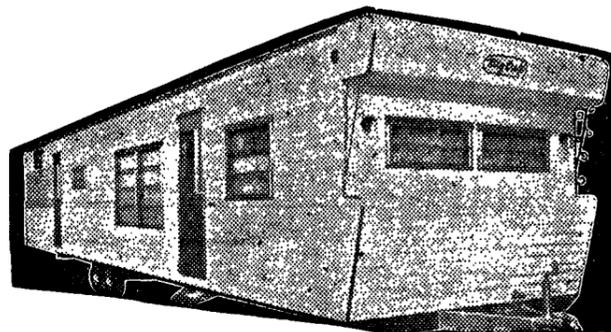
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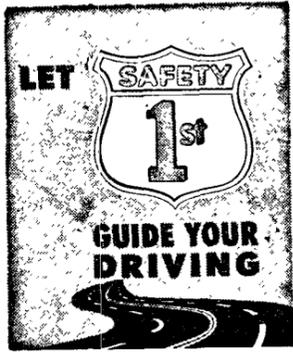
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ment Officer, Dir of P&P; **Joseph P. Sauro**, Tech Manuals Writer-Editor (Msls), and **Howard G. Odell**, Supv Supply Officer, Dir of S&M.

Anyone can start a task; a thoroughbred will finish it.



Col. Glenn Crane Returns

Flashing a broad smile and a cheerful "I'm happy to be back" Col. Glenn Crane is renewing old acquaintances at Redstone Arsenal this week. The veteran missile man, who left here little more than two years ago, has been named special assistant to Brig. Gen. Howard P. Persons, Deputy Commanding General for Air Defense Systems at the Army Missile Command.

Col. Crane has just returned from a tour of duty in the Pacific where he was commanding officer of the Kwajalein Test Site.

With more than 20 years of Army experience, Col. Crane is no stranger to air defense weapons. During his previous four-year assignment at Redstone, he served for a time as Nike-Zeus Project Manager.

Earlier, he was special assistant to Maj. Gen. John Medaris, then Commanding General of the Army Ordnance Missile Command. While in the Army Rocket and Guided Missile Agency, he was deputy commander for ballistic missile de-

fense during this same period. After leaving Redstone, he attended the Industrial College of the Armed Forces in Washington.

More recently, Col. Crane gained valuable experience in air defense systems as commander of the Kwajalein Nike-X Test Site.

Col. Crane is a graduate of the University of Missouri where he obtained a B.S. degree in Electric Engineering. Later, he studied engineering at Shrivenham University in England and then came back to the States getting his Master's degree in Business Administration at George Washington University.

cal Engineering. Later, he studied engineering at Shrivenham University in England and then came back to the States getting his Master's degree in Business Administration at George Washington University.

He is married to the former Mary Jane (Shelly) Shelver of Ortonville, Minn.

Coming Events

- March 16—IEEE.
- March 16—American Institute of Chemical Engineering.
- March 16—Society for Personnel Administration.
- March 18 — University of Alabama Center Plasmadynamics of Objects Moving in Ionized Space. Dr. K. T. Chopra.



OVERSEAS VACANCIES

INTERCHANGE & RECRUITMENT COORDINATION BRANCH

Office of Civilian Personnel
Office of the Deputy Chief of Staff for Personnel

Headquarters Department of the Army
Washington, D.C. 20315

JOB TITLE	GRADE	LOCATION
Accountant—GS-11		K
Architect—GS-11		O
Architectural Engineering Techn—GS-9		O
Auditor, Supv—GS-12		K
Auditor—GS-12		K
Auditor—GS-11		O, K
Auditor—GS-9		O, K
Auto Design Engineer, Supv—GS-12		J
Budget Analyst—GS-9		O
Cartographer—GS-11		MN, BO
Cartographer (Photo)—GS-11		HO, BRAZIL
Cartographer (Photo)—NM-7		CZ
Cartographer (Photo Trans)—NM-11		CZ
Cartographer Techn (Photo)—GS-11		ES
Chinese Translator—GS-7		J
Claims Examiner (L&D), Supv—GS-9		G
Clark Stenographer—GS-4		K
Contract Specialist—GS-11		K
Contract Price Analyst—GS-9		K
Cost Accountant—GS-9		K
Digital Computer Sys Analyst—GS-11		G
Distribution Facilities Spec—GS-12		H
Education Officer (Languages)—GS-12		K
Education Officer—GS-11		K
Education Officer—GS-9		K
Electrical Engineer (Gen)—GS-12		G
Electrical Lineman—WB-11		A
Electronic Engr (Elec-Mag)—GS-12		K
Electronic Engr (Gen), Supv—GS-13		H
Electronic Engr (Wire Comm)—GS-12		K
Electronic Equip Insp Foreman—S-9		K
Electronic Mechanic—M-12		CZ
Electronic Techn (Instrumentation)—GS-11		K
Electronic Techn (Instru), Supv—GS-10		K
Engineering Technician—GS-11		G
Engr Techn (Mech), Supv—GS-11		J
Equipment Spec (Aircraft)—GS-11		A
Equipment Spec (Auto)—GS-12		J
Equipment Spec (Elec)—GS-12		G
Equipment Spec (Elec)—GS-9		K
General Engineer—GS-12		K
General Engr (Bldgs & Gri), Supv—GS-13		K
Geodetic Technician—NM-5		CZ
Housing Project Manager—GS-9		A
Laundry & DC Plant Manager—GS-12		G
Laboratory Plant Supt—NM-8		CZ
Librarian—GS-7		A
Librarian—NM-7		CZ
Librarian (Admin)—GS-9		K
Management Analyst—GS-11		K
Management Analyst, Supv—GS-12		K
Management Techn (Records Admin)—GS-9		O
Mathematician (Computer Programmer)—GS-12		F
Mechanical Engineer—GS-11		O
Medical Off (Gen Practice)—GS-12		O
Meteorologist (Research)—NM-13		CZ
Production Controller—GS-9		K
Public Information Spec—GS-11		K
Public Information Spec—GS-9		O
Recreation Specialist—GS-7		A
Recreation Spec (D&M), Supv—GS-10		K
Safety Officer (Special Weapons)—GS-11		K
Staff Accountant—GS-11		F
Secretary (Steno)—GS-5		F
Storage Management Specialist—GS-11		F
Supply Systems Analyst—GS-11		J
Systems Accountant—GS-9		J
Transportation Operations Off—GS-11		K

KEY TO LOCATION OF POSITIONS

A	Alaska
BO	Bolivia
CZ	Canal Zone
CH	Chile
F	France
G	Germany
H	Hawaii
HO	Honduras
I	Italy
J	Japan
K	Korea
MN	Managua, Nicaragua
O	Okinawa

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