

Arsenal-Wide

Spot News

Dial 112

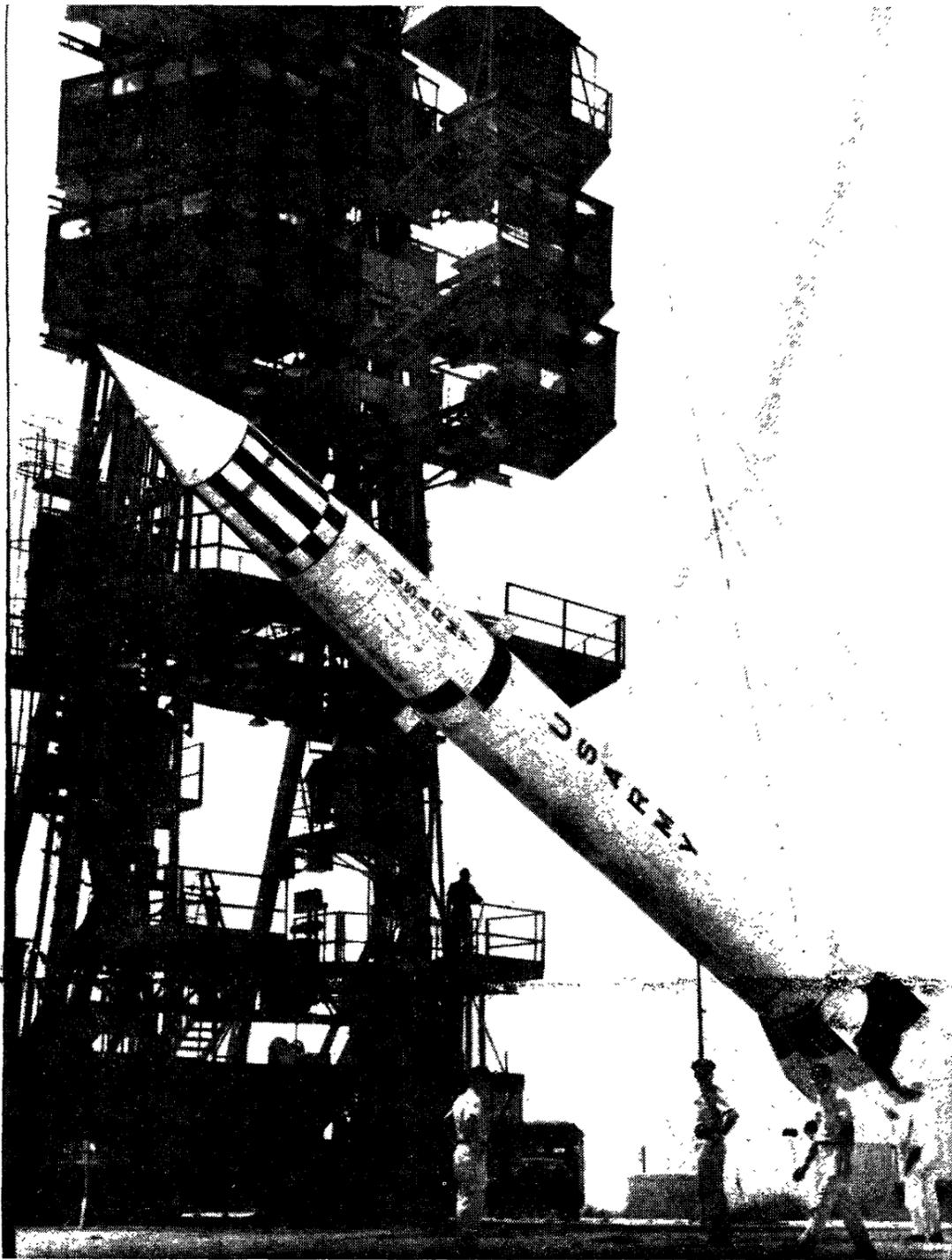
The Redstone Rocket

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VOL. XIII; NO. 18

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

SEPTEMBER 9, 1964



BACK TO STAY—Redstone missile is hoisted into place at Cape Kennedy. The retired veteran was the first Army missile on the Cape since the last Pershing was fired in April 1963 and it's back to stay. It will occupy the place of honor in a permanent public display being set up on the Cape by the Air Force Eastern Test Range. The missile now stands on Pad 5/6 where Redstone R&D rounds were fired. That's the same site where the Army used a Redstone booster to orbit the Free World's first scientific earth satellite. Day after the missile arrived, it rode out the blast of Hurricane Cleo with a soldier's disdain for the elements. Redstone Commodity Office, S&M Directorate, Army Missile Support Command and the Atlantic Missile Range Army Field Office all had a hand in arranging the display. The missile, less internal components, was made available under the Defense Materiel Utilization Program. (U. S. Air Force Photo)

Physicist Talks About Nuclear Work

A research physicist from the Army Missile Command presented a paper Friday, at the International Conference on Nuclear Magnetic Resonance and Relaxation in Solids at Leuven, Belgium.

Dr. Alferd C. Daniel of the Physical Science Laboratory of the Directorate of Research and Development discussed basic and applied research he is doing at Redstone Arsenal to establish the mechanisms of energy transfer within the solid state.

After the four-day conference at Leuven, Dr. Daniel will go to Nottingham, England, to attend the International Conference on Magnetism at the University of Nottingham.

Before returning to Redstone Arsenal on Sept. 18, Dr. Daniel will visit the University of London and the College of France at Saclay.

Dr. Daniel did undergraduate (See PHYSICIST on Page 3)

We Have Information!

Is your office expecting visitors who will want to know what goes on at the center of the Army's missile and rocket programs?

Or, are you or a member of your staff going on temporary duty where you will be asked about the Army Missile Command, Nike-X Project Office or Army Ordnance Guided Missile School?

The Information Office of the Missile Command has just come out with a handy-dandy pocket size information kit that contains all this information, and more.

Designed to be easily carried in a coat pocket or brief case, the kit includes individual fact sheets covering the major Army elements on Redstone; figures on Army payroll, budget and facilities on the Arsenal; history of the missile center; short and readable sketches about the four Missile Command Directorates and the Project Offices; a listing of Army missile "firsts"; and biographies of the general officers and major commanders of Army elements at the Arsenal.

These information packets are easily adaptable for use at large conferences, small meetings or for individual visitors. They are particularly valuable for Command personnel who tell the Army's missile story wherever their travels take them.

Offices having need for information kits may get them from the Information Office, Room A-134, Building 5250.

Two-Week Seminar Is Scheduled Here Sept. 14-25

CONARC Patch Comes To Redstone

There will be a slight but noticeable change in the uniforms worn around the Army Ordnance Guided Missile School this fall and winter.

Beginning with the changeover to "greens" and other winter uniforms on Oct. 19, military personnel at the school will wear the red, white and blue patch of the Continental Army Command instead of the "Circle A" patch of the Third U. S. Army, according to Col. William J. Macpherson, commandant.

The reason for the change of patches worn on the left shoulder, he said, is to emphasize that the commanding general of the Continental Army is in direct command of all Army schools as well as the six Armies based in the United States. The Third Army patch had been retained after the 1962 reorganization of the Army because OGMS drew administrative and logistical support from Third Army, he added.

A two-week seminar covering the concepts, mechanics and application of value engineering to Army missile systems will start next week at the Army Missile Command.

Running from Sept. 14 through the 25th, the Seminar is another in a series which is providing intensive training for Command personnel. Included in the program will be discussion of management and contractual subjects leading

(Additional Story on Page 3)

to full potential of missile research and development and procurement.

Among those making presentations will be Robert Bidwell of Martin/Orlando; Glen Hart, Aerojet-General; W. A. Heacock, Douglas Aircraft Co.; John R. Morrison, Gries Reproductor Corp.; C. P. Smith, Ling-Temco-Vought; Walter Wiesman, Marshall Space Flight Center; Arthur Harvey, Raymond Weber and W. E. Gibbons of the Missile Command Value Engineering Office.

The seminar is a cooperative effort of the Command's Production and Procurement Directorate and its Civilian Personnel Office. Planning is under Russell Cooper of the Training and Development Division of CPO, and Gibbons of the Value Engineering Office.

Redstone Employees Are Proving Generous To UA

School To Change Hours

New duty hours beginning Oct. 25 have been announced for the Army Ordnance Guided Missile School by Col. William J. Macpherson, commandant.

Since April, all personnel have had summer duty hours from 7 a.m. to 3:30 p.m. at the school. With the changeover, the duty day will be from 7:30 a.m. to 4 p.m.

This schedule will begin and end 30 minutes ahead of the duty day at Missile Command, Macpherson said. The change in hours was made because some people needed to get their children to school, because of the later hour at which it becomes light, and because of the hazards of driving on ice and snow in the winter, he added.

CONARC Deputy CG Due At OGMS

The deputy commanding general of the Continental Army Command, Lt. Gen. Edwin J. Messinger, will fly here Friday from Fort Monroe, Va., for his first official visit to the Army Ordnance Guided Missile School.

Gen. Messinger will be accompanied by Maj. Gen. J. H. Caughey, the CONARC deputy chief of staff for individual training, and Cols. D. Cooper and L. V. Green.

The Missile School is an element of CONARC, which also commands the six armies based in the United States.

Col. William J. Macpherson, commandant, and Missile School staff and faculty members will honor Gen. Messinger at a luncheon at the Officers Open Mess on Friday.

Contributions of about \$300 a day are being made to the University of Alabama's Huntsville Campus Fund by personnel of the Army and Marshall Space Flight Center, it was reported this week.

This average has been sustained since Aug. 27 when the first pledge cards were distributed for the campaign to build a \$750,000 classroom, laboratory and library facility on the Huntsville Campus, University officials said.

"Excellent response" by employees of local industries and agencies was also reported last week.

Employees of the Huntsville Utilities System contributed \$1,500 in an "in-plant" solicitation of the gas, electric and water division headed by Mrs. J. B. Hatch.

Brown Engineering Co. employees added \$3,700 to the University fund. Thus far, the local aerospace firm has accounted for \$36,700 in gifts from the company, its executives and employees.

Wyle Laboratories made a corporate gift of \$10,000 last week, with Mr. Frank S. Wyle, president of the El Segundo, Calif., research firm handing the check to H. Clyde Reeves, the University's vice president for Huntsville Affairs.

In the week ended last Friday (Sept. 4), contributions from all sources amounted to \$35,000, an average of \$5,000 per day, University officials noted.

\$215,000 is still needed to meet the requirement of \$750,000 in local contributions. The University at Tuscaloosa has allocated \$500,000 toward the campaign for a \$1,250,000 building and equipment to house the new undergraduate "degrees at home" program here.

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 876-4161.
 All advertising copy and payments therefor are received by Mrs. Zillah T. Heath, 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

Let your watchword be dispatch, and practice what you preach.
 —Roland Howard

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Information on the Savings Bond tax refund option is given in the instructions accompanying your tax form. Our advice is: read it and heed it. You stand to benefit—and, what's more, so does your community and your country!



PROPULSION ADVISORS—An Army propulsion advisory group representing other Army agencies met with Army Missile Command Directorate of Research and Development officials at Redstone Arsenal last week. They are, from left to right: Leonard Ericksen and Arthur Lo Presti, Picatinny Arsenal; Hower Frazier, Ammunition Procurement and Supply Agency at Joliet Arsenal; Hymam Rosenthal, Frankford Arsenal; and Robert Geene, Ballistics Research Laboratory at Aberdeen Proving Ground. In the foreground is John McDaniel, Technical Director of the Directorate of R&D.

May 7, 1915—British Liner *Lusitania* torpedoed by German submarine with loss of 1,198, including 124 Americans, arousing strong feeling in United States.

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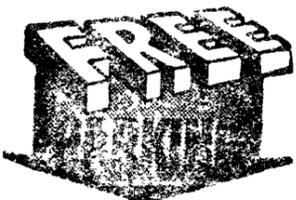
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Sept. 16-17 Value Engineers Will Study One-Day Course, Conduct Panel

Industrial and Value engineers at Redstone will have two days of action next Wednesday and Thursday. On Sept. 16 there will be a one-day course in value engineering to be followed on September 17 with a program by a panel composed of value engineers from industry.

Value Engineering Course

The North Alabama Chapter, American Institute of Industrial Engineers will present a one day course in Value Engineering at Redstone Arsenal. The Program, to be held in the Squirrel Hill Officer's Club on Sept. 16, will feature speakers with a variety of experience in Value Engineering.

The course will provide an opportunity for those working for the Government or involved in performance of Government contracts to learn more of Value Engineering. Brig. Gen. Charles W. Eifler and a representative of Dr. Werner von Braun, Director of Marshall Space Flight Center, will be on hand to welcome the attendees and will speak briefly on Value Engineering as related to the missile and space program.

The course has been planned to teach not only the mechanics of value engineering, but will also give examples of value engineering from various industries.

Among the scheduled speakers are Arthur Harvey, Chief of the Value Engineering Office of the Army Missile Command, Redstone Arsenal; Glen D. Hart, Chief Corporate Value Engineer at Aerojet-General Corporation; Ray Skweres, Corporate Manager of Value Control, Hayes International and R. L. Bidwell, Manager of Value Analysis Administration for the Martin Company.

Reservations for the course are being taken by the Engineering Society Secretarial Service, 2437 Crestwood Drive, S.W., Huntsville, Alabama. The registration fee is \$17.50 if paid in advance or \$20.00 if paid at the course.

Men on the Program

The Redstone Chapter of the Society of American Value Engineers

will meet Sept. 17 at the Squirrel Hill Officers' Club with a panel of industry members participating in the program.

A social hour will start at 6 p.m. with dinner at 7 o'clock and the program at 8 o'clock.

Making up the panel will be the following:

Ray Skweres has been associated with the aircraft industry since 1940. In 1951 he joined Hayes International as Supervisor in the Liaison Engineering Department. In 1954 he became Project Supervisor in the Technical Publication Department. In 1957 he initiated an Engineering Reliability & Value Control Program in the Stress Department. In 1963 he was appointed Corporate Manager of Value Control, and is responsible for the Value Control Program throughout all of the divisions of the Hayes International Corporation.

John R. Morrison, Jr., joined Gries Reproducer Corporation in 1961 and presently serves as Technical Liaison between Gries and their nationwide network of sales representatives.

Mr. Morrison was educated at the Peddie School Stevens Institute of Technology and many Air Force Technical Schools. He is a member of the Instrument Society of America and SAVE. He is active in committee work and has been invited to speak at many Value Engineering Seminars conducted by the military.

Glen D. Hart is Chief Corporate Value Engineer at Aerojet-General

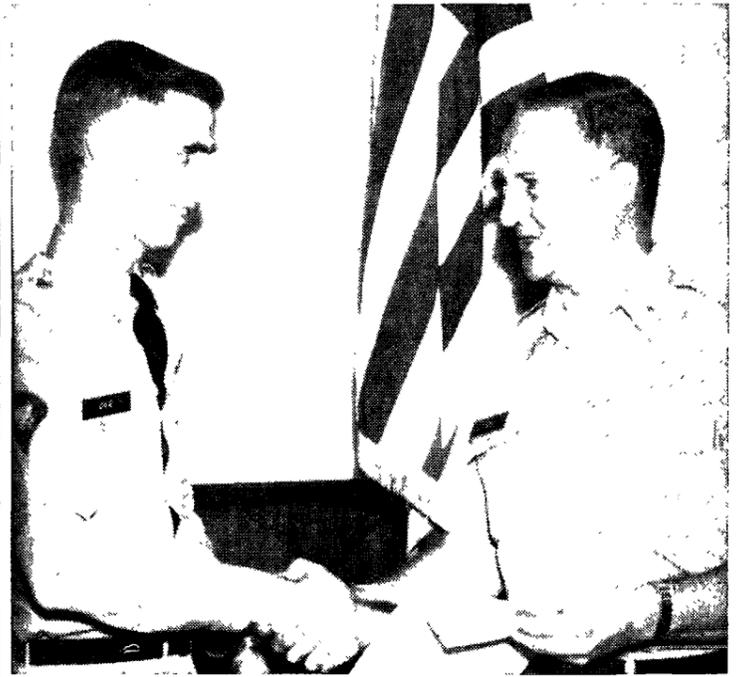
Corporation, Glendale, Calif. Prior

to this position, Mr. Hart was a national consultant in Value Engineering and conducted programs in 25 major companies including Curtiss Wright, Bell Helicopter, Motorola, Bell Aerospace, and U. S. Electrical Motors.

Earlier he was with General Electric for twelve years, during the last four of which he conducted Value Engineering Programs under Mr. Larry Miles, "father of Value Engineering." Mr. Hart is a graduate of Virginia Poly Institute.

Robert L. Bidwell is Manager of Value Analysis Administration of Martin Company. Mr. Bidwell began his Army career in 1936 as a Private and rose to the rank of Lt. Colonel. Joining Martin shortly after his retirement from active service, he assumed management of the company's Value Analysis Program which has contributed to more than \$18 million in operating cost reductions during the past year. Martin as a leading exponent of Value Analysis action, has attracted nation-wide interest in its program.

Clarence P. Smith joined Chance Vought in 1942 as a draftsman and



SOLDIER OF THE MONTH—SP/4 Lamar E. Cox is congratulated by Col. Thomas W. Cooke, AMSC Commander, upon his selection as Post Soldier of the Month. Specialist Cox works as a Military Policeman in the 291st Military Police Company. Specialist Cox entered the service in 1961 and completed training at Ft. Gordon, Ga. Other assignments have been in Ft. Wainwright, Alaska, and Ft. Sam Houston, Texas. He is from Raymond, Miss., where he attended Hinds Junior College. He and his wife reside at 218 Walker Ave., Huntsville.

later transferred to the Liaison Section of Engineering. He serves as Production Engineer on a number of design programs leading to full responsibility for Producibility and Low Cost design. In 1956 he became Supervisor of the Production Design Unit of



Value Engineering. At present, he is Senior Specialist—Value Engineering. Mr. Smith conducts V. E. Training courses at LTV and is a member of the Board of Directors SAVE.

The meeting will be open to members of the Society and also to non-members, according to Arthur E. Harvey, Jr., Chapter President.

Reservations may be made with Bob Russell, 876-8449, or Aubrey Smith, 876-3953.



Skweres



Bidwell



Morrison

PHYSICIST

(Continued From Page 1)

and graduate work in electrical engineering at the Georgia Institute of Technology, and received the MS degree in 1957. He received the PhD degree in physics from the University of Alabama in June 1964.

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SERVICE WITH A SMILE IS HIS MOTTO

From days of horsecars and electric trolleys to multihorsepower buses, the drivers continue to recognize their regulars and look forward to an exchange of greetings—if it is only a grunt.

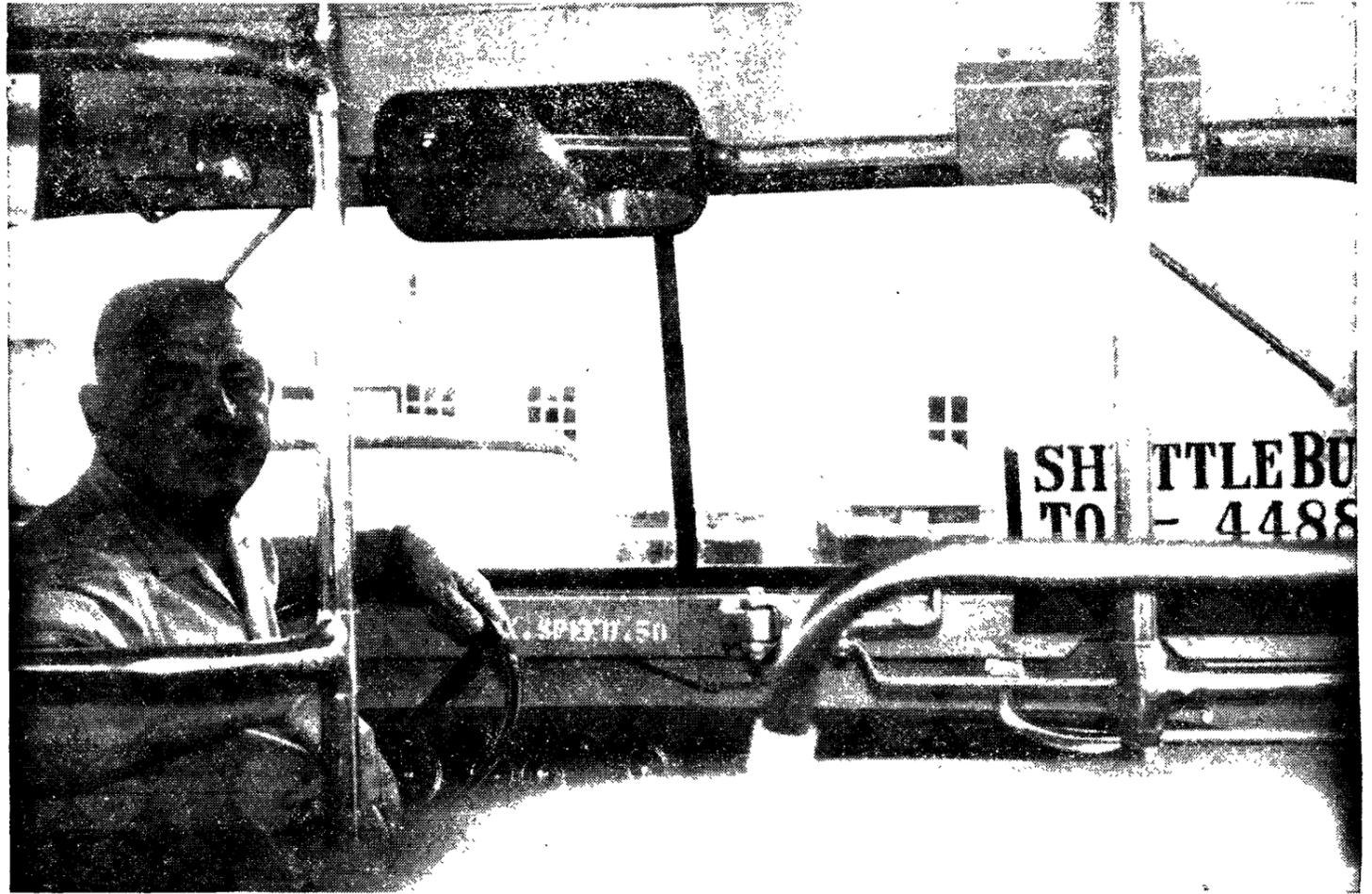
Charles Frazier, driver of one of the Army's four shuttlebuses at Redstone Arsenal, finds the people he transports pleasant and friendly, but even a Scrooge would have a hard time snorting in the face of Frazier's philosophical outlook which includes giving the most help without breaking the rules.

The bus drivers in the Transportation Division of the Army Missile Support Command are as rigidly bound to timing and routes as any old trolleyman on his tracks, but despite the rigidity of the pattern, Frazier says, "We try especially hard to help new employees find their way to whatever destination Personnel has directed them. The post is big and bewildering to anyone not acquainted with the scattered pattern of the buildings. We can't leave the route but we help all we can."

Frazier has been driving 160 miles a day on the Arsenal for the past eight years. In a year he clocks, 42,000 miles between headquarters of the Army Missile Support Command and the Air Defense Systems headquarters building which became the most famous building on post when the Army Ballistic Missile Agency had its headquarters there. It's still familiar to many contractors because the Director of Production and Procurement also has headquarters there.

Beyond this boundary is Marshall Space Flight Center territory and the MSFC transportation net takes over.

The Army buses run fifteen minutes apart. If a regular misses his usual driver, he takes the bus behind or ahead. Frazier says the regulars ride often enough to get acquainted and he looks forward to seeing them because they are



CHARLES FRAZIER—Arsenal bus driver, is a figurative "window" through whom many visitors get a first view and impression of

Redstone Arsenal. He enjoys doing what he can to make the viewpoint good and helpful.

"really nice people."

Off his Army job, Frazier raises Black Angus cattle on a 20-acre farm near Hartselle. He hopes to acquire more land and cattle and he has no desire to raise row crops in the traditional cotton and corn belt.

Frazier prefers hunting upland birds to crouching in a duck blind, but he is hampered by an old wound acquired in World War II.

so he usually goes fishing instead. Frazier's first experience with Army transportation was in the War. He was an antiaircraft gunner, but he also drove trucks to transport prisoners.

He is proud of the record he and fellow drivers have chalked up at Redstone. There hasn't been a casualty more serious than a run in a girls stocking since he has been on the job.

He is also pleased with his work because he likes the men with whom he associates and said it is extremely pleasant working under Herman Whitt, the supervisor in the Motor Pool where he "draws" his bus and Wendell Terry, who directs the on and off post government vehicles.

The Frazier's two children, Brenda, 22, and Charles R. 20, are no

longer at home. Brenda works for an eastern railroad as a registered nurse. Charles is studying electronics in Birmingham and when he finishes plans to join the Air Force. Their father's chest puffs a little when he considers their in-

dependence and accomplishment, because with his help they have helped themselves toward solid citizenship.

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\$50	\$ 9.23	\$ 5.02		
75	13.34	7.53	\$ 5.45	
100	18.46	10.05	7.27	\$ 5.90
200	36.92	20.09	14.54	11.81
300	55.09	29.87	21.54	17.42

Cash You Get	MONTHLY PAYMENT PLANS		
	12 Months	24 Months	36 Months
\$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

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Facts About The Nike-X Anti-Missile Missile

SERVICE: U. S. Army

PROJECT RESPONSIBILITY: Nike-X Project Office, U. S. Army Materiel Command, Redstone Arsenal, Alabama

CHARACTERISTICS:

Interceptor Missiles

NIKE ZEUS

SPRINT

Type—Surface-to-air	Surface-to-air
Speed—Supersonic	Supersonic (high acceleration)
Propulsion—Three stage, solid fuel	Two stage, solid fuel
Guidance—Ground command via radar	Ground command via radar
Warhead—Nuclear	Nuclear
Length—48-foot with booster	(Not releasable)
Status—Late development	Development
Thrust (boost)—Over 450,000 lbs (1st stage)	(Not releasable)

Ground Equipment

Radars—Phased array (Multi-function Array Radar; Missile Site Radar)
Data processing—High speed digital computers
Control systems—Automatic electronic
Launchers—Underground cells

SYSTEM DESCRIPTION:

The Nike-X anti-missile missile system is being developed as a highly advanced defense against ICBMs and shorter range ballistic missiles such as those launched from submarines.

It is the only missile system of this type under development in the Free World. The Department of Defense has accorded the Nike-X development program the highest priority.

The system is designed to operate under a variety of attack situations including those involving multiple ICBMs and ICBM penetration aids such as decoys and counter-measures. It will be capable of engaging a number of targets simultaneously.

Bell Telephone Laboratories is responsible for the Nike-X system design and development. The Western Electric Company is prime contractor. The missile subcontractors are: The Martin Co., Orlando, Fla., for Sprint; and Douglas Aircraft Co., for Zeus.

More than 15,000 firms throughout the United States are involved in the development program as contractors, subcontractors and vendors. A large number of government agencies are also contributing to the development program.

The Nike-X system is unique among Army missile systems from a standpoint of design as well as function. It will be the first Army system to use phased array radars instead of conventional radars. And in terms of acceleration, the Sprint will have the highest acceleration of any Army guided missile ever developed. The Sprint will have a flight time measured in seconds.

The Nike-X system will consist of:

A control center—this will be the nerve center of the Nike-X operations. At it will be located the **multi-function array radar**, the system's high speed digital computers and a major part of the complex electrical and electronic equipment necessary to complete an engagement.

A launching site—here the interceptor missiles themselves will be housed in underground cells from which they will be fired. Also located at the launching site will be a **missile site radar**. This radar provides a guidance link with interceptor missiles while en route to their targets. Several launching sites may be associated with one control center.

Both the **multi-function array radar (MAR)** and the **missile site radar (MSR)** are phased array radars.

Unlike conventional radars with moving antennas, the phased array radars have relatively few moving parts. Scanning is accomplished by electronic switching which directs — or "bends" — the radar beams at their source. Because of the speed at which this electronic switching can be carried out, the radar can virtually "look in every direction at once."

During operation the MAR will perform the functions of at least three conventional radars. It will (1) perform initial detection and tracking of a target, called **ACQUISITION**, (2) investigate targets to determine which are valid warheads and which, if any, are decoys, called **DISCRIMINATION**, and (3) provide precise tracking information on the target, called **TARGET TRACKING**.

DISCRIMINATION involves sorting valid warheads from decoys such as radar reflective materials,

warhead.

One of the two interceptor missiles, the Zeus has a long range capability. It can engage and destroy a target outside the earth's sensible atmosphere. The high acceleration Sprint will be used for shorter range intercepts. With its high speed digital computers and extremely fast Sprint missile, the Nike-X system will be capable of "killing" a target within seconds.

In the case of a multiple ICBM attack, or attack involving decoys, the system will be capable of engaging a number of targets simultaneously.

Nike-X is the fourth generation Nike missile system. Its roots stretch back to 1945 when work was started on the Nike-Ajax which became the nation's first air defense missile system.

Development of the Nike-X system as such began in January, 1963. However, Nike-X evolved directly from the Nike Zeus anti-missile missile system which had been in development since 1957. Nike-X will represent a number of "state-of-the-art" improvements to the Zeus system.

During its development program

the Nike Zeus system achieved a number of test ICBM intercepts involving special target vehicles launched by Atlas and Titan I ICBMs. The intercepts were made by the Nike Zeus system at Kwajalein Island in the mid-Pacific.

Nike-X components are being tested at several locations throughout the United States. Outside the continental limits of the country, tests are being carried on at Kwajalein Island in the Pacific and Ascension Island in the Atlantic.

Live firing tests are conducted at White Sands Missile Range and Kwajalein Island.

The first test version of the MAR is located at White Sands Missile Range and a later version is scheduled for Kwajalein. Intercept trials, similar to those conducted with the Nike Zeus system will be held at Kwajalein Island.

The Zeus missile is the only missile in the Free World to successfully intercept a target vehicle flown at true ICBM range, speed, and trajectories. The first intercept of this nature occurred on

July 19, 1962.

Like the earlier Nike systems, the Nike-X will use command guidance. Thus, the interceptor missile is steered toward its target while in flight by "command" signals generated by ground based computers. First conceived 20 years ago for the Army's Nike Ajax air defense system, it has been constantly improved by the Army-Western Electric-Bell Telephone Laboratories team. Among the improvements made for its use in anti-missile defense are: use of MASERS (microwave amplification by stimulated emission of radiation) to facilitate target resolution; computers that can perform more than 200,000 arithmetic calculations per second; and higher powered and more accurate radars.

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Exhibits Are Ready For The Fair Or Anywhere

Like all good troopers during the fall fair season, the exhibit folks at the Army Missile Support Command are busily getting ready to put the show on the road.

Their displays and exhibits will tell the Army's story of missiles and rockets to thousands and thousands of people throughout the Southeast.

John Russell, who is on the Technical Staff, Assistant for Communications, disclaims any personal credit for the accomplishments of his people. However, he is the man who pulls together all the planning and construction that goes into preparing the material and assuring that it is on site on time.

A big man, with 17 years of government service, Russell talks freely and easily about the Army's exhibits. Although he has been with the Assistant for Communications only about a year and a half, he did the same type of work when he was at the Redstone Depot. He can answer questions about exhibits "off of the top of his head" as fast as they are asked.

Russell has become an expert at making something out of almost nothing. Whenever he hears of some equipment that is excess, he looks it over and frequently accepts it for the Lab.

"We cannibalize many odd exhibits and obsolete missile systems to build new displays," he said. "Besides," he added, "much of the material we get has historical value as it is the last that was made for particular missiles and rockets."

The Salvage Yard of the Property Disposal Division at Redstone is a fertile field for an experienced exhibit man like Russell. What may look like a pile of junk to

others glistens with valuable gadgets when Russell sees it.

He has contacts with contractors and other Army agencies who let him know when they have something he might use.

So from bits and pieces gathered far and wide, finished and sparkling exhibits emerge under Russell's aegis.

Only a few men are permanently assigned to the Demonstration Lab, Material Division, under the supervision of Hubert A. Callo-way. They are John L. Leak, Leo Meeks, Jimmy Edwards, Lindsey Brooks, and Pete Steadham. Most of their time is occupied accompanying exhibits on the road. Russell says they've found it pays dividends to have experienced people with the Lab's displays because they understand how to erect and care for them.

The rest of the people who work in the Exhibits Section are borrowed as needed from other Army elements at Redstone. During this busy season there are O. L. Bobo from Consolidated Supply, Kenneth Hodges of Maintenance Support Division, and from Post Transportation are James H. Lanier, James Houston and Dan Lennox.

Every major section of the Missile Command contributes people and money as appropriate. When the Directorates have requirements for exhibits, both for public viewing and classified presentations, their people pitch in to help design and build them.

Military personnel to assist in building exhibits and to travel with them sometimes come from the Ordnance Guided Missile School as all Redstone exhibits are frequently combined.

Col. Sam J. Clark, the Assistant for Communications at the Support Command, is Russell's boss. Col. Clark just recently took over the position formerly occupied by Lt. Col. Earl D. Hicks.

Russell says the requests for exhibits are constantly on the increase and have been mounting higher every year for the past seven or eight. There are at least a third more this year than last.

About 70 displays have gone out of the state and there have been 40 to 50 requests for local exhibits this year plus recurring projects such as state fairs and classified presentations.

Once an exhibit is built, it is

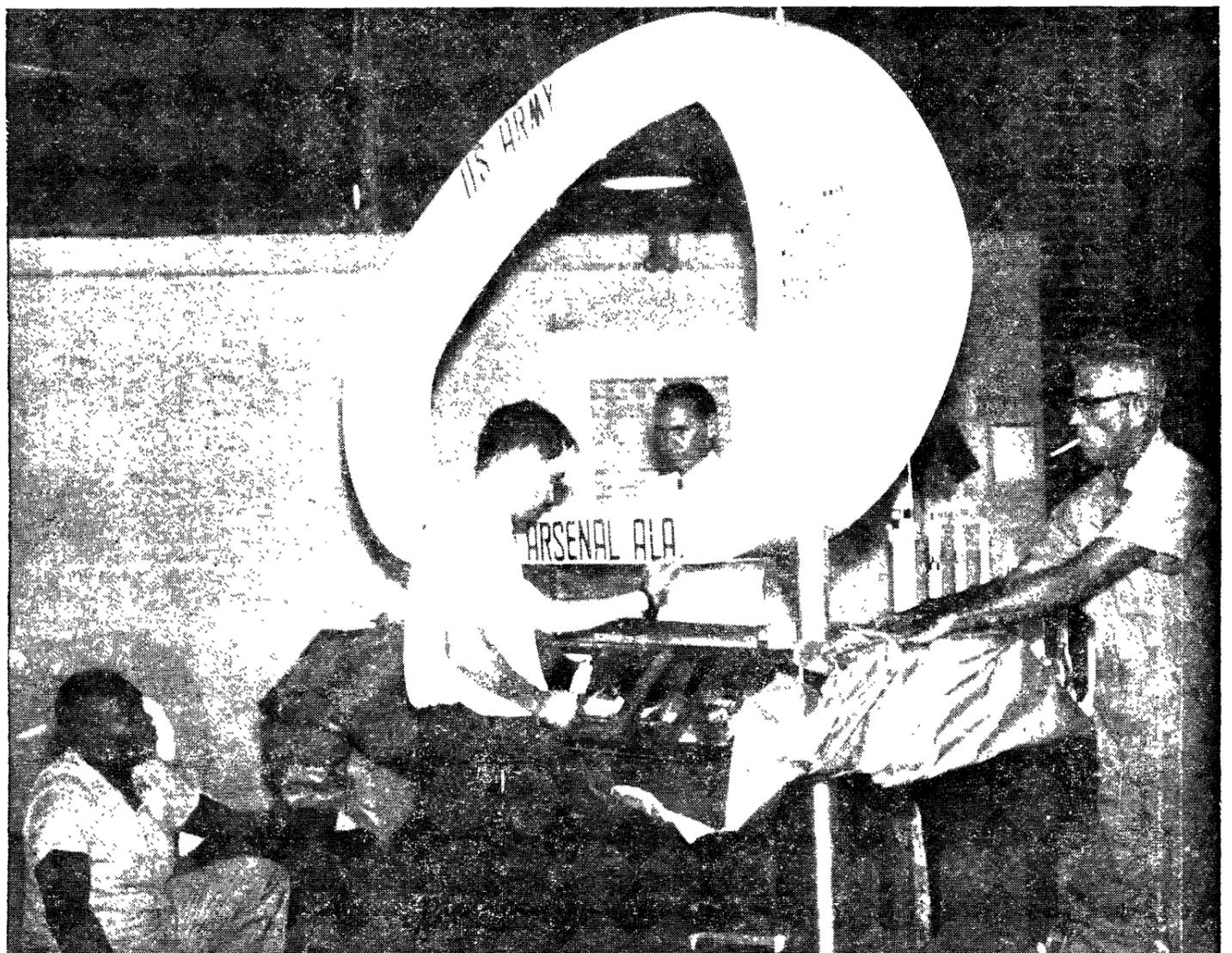
stored and carefully maintained to be loaned for other events, or is stripped and parts stored for use in building new ones.

The usual procedure on exhibits is for the requestor to foot the

transportation and handling bills. Because the personnel at the Demonstration Lab are recognized throughout the country as experts, frequent calls come in for advice (See EXHIBITS on page 7)



LET'S GET THIS STARTED—John Russell, right, member of the Technical Staff of the Army Missile Support Command Assistant for Communications, goes over a new set of plans at the Demonstration Lab with O. L. Bobo, one of his right hand men. Most of the men working in the Lab are borrowed from other arsenal elements for specific assignments. Bobo is from Consolidated Supply. Exhibits are born and reared in the Lab for displays all over the country to tell the Army's missile and rocket story.



WRAPPING IT UP TO GO—One of the exhibits built at the Army Missile Support Command, Demonstration Lab, and headed for a special briefing, is carefully wrapped for delivery. The missile models in the background will be placed in the center of the oval when the display is set up at its destination. The men preparing

the exhibit for transfer from the Lab, are, left to right, James Houston, Post Transportation, William Higgins and Don Davis, technical illustrators from the Research and Development Directorate, and James Lanier, Post Transportation.

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Creative Writing Offered At U of A

A course in creative writing will be offered at the Huntsville Campus of the University of Alabama during the Fall quarter beginning Sept. 21.

The class will be taught by James L. Daniels of the Resources Management Office at Marshall Space Flight Center.

Daniels received his A.B. degrees in English and creative writing from the University of Alabama. When he was at the University, he was a student of Dr. Hudson Strode. Daniels has taught creative writing at the University Centers in Selma, Montgomery, and Huntsville.

Since the class enrollment will be limited, all interested students should call Daniels at 881-4152 after 4:30 p.m. to discuss their writing background, course requirements, and permission to enroll in the course. He will also be available on registration days at the Huntsville Campus—Sept. 21 and 22—from 5:00 p.m. to 7:00 p.m. for further aid to students.

All prospective students for creative writing must be admitted to the University of Alabama before they can attend the writing classes. Applicants seeking admission to the University should complete the necessary forms in the Office of Students Records at the Huntsville Campus—immediately.

13th Does It Again

The 13th Explosive Ordnance Detachment of the Ordnance Guided Missile School here will receive a Red Cross Award Plaque this week for its 100 per cent participation in the August Bloodmobile drive.

The Ordnance detachment also made a 100 per cent participation showing during July's blood drive.

HEADS OFFICER TRAINING

Major Arthur Q. Woodard has been named new chief of the officer training section in the Department of Individual Training at the Army Ordnance Guided Missile School. He replaced Major Thomas B. Christiansen Jr. who has been assigned to a unit in West Germany. Major Woodard was chief of the training management branch of Academic Operations in DIT before taking the new position.

July 31, 1942 — Transportation Corps, one of the six tech services whose materiel functions were taken over by AMC, established.

EXHIBITS

(Continued From Page 6)

and instructions on building and moving them to various locations.

There's a traveling show on the road now that will be gone seven weeks with stops in Hiwassee, Decatur, Blue Ridge and Elberton, Ga., and in Cookeville and Chattanooga, Tenn. This one is supporting Army Recruiting for Third Army.

In past years the Army at Redstone Arsenal has made its major fall exhibit effort at the Alabama State Fair in Birmingham. It's Oct. 5-10. This year three other regional fairs have been added to the circuit—The Gulf State Fair at Mobile, Oct. 19-24, the Southeastern Fair in Atlanta, Oct. 1-10, and the Midsouth Fair in Memphis, Sept. 23 to Oct. 3. This additional exhibiting will really keep Russell and his men humping for the next two or three months.

"We're here to help," is the word and spirit of the Demonstration Lab.

COL. GUY BECOMES PROJECT MANAGER

Col. David R. Guy has been named Project Manager for the random access, discrete address system (RADAS) by Gen. F. S. Besson, Jr., Commanding General, U. S. Army Materiel Command.

This new communication technique is being studied for use in the modern Army. Its objective is to provide direct subscriber-to-subscriber non-switched radio service accessible on a random basis. Such a system will provide increased flexibility to combat communications.

A native of Springfield, Mass., Col. Guy is a 1940 graduate of the U. S. Military Academy. During World War II he served in Greenland, the China-Burma-India theater of operations, and later in Japan.

Since that time his assignments have included: Office, Chief Signal Officer, Pentagon; White Sands Missile Range, Las Cruces, N. M.; Signal Officer, Allied Land Forces, Southeastern Europe, Izmir, Turkey; Office, Deputy Chief of Staff for Logistics, Pentagon; Commanding Officer, Joint Communications Agency, Fort Ritchie, Md.; J-6 U. N. Command, U. S. Forces, Korea, and Weapons Systems Evaluation Group, Department of Defense, Pentagon.

A recipient of the Bronze Star, Col. Guy is a graduate of the Armed Forces Staff College and the Industrial College of the Armed Forces. He received his masters degree in electrical engineering from the University of Illinois in 1948.

In his new assignment Col. Guy will report to Gen. Besson through the Commanding General, U. S. Army Electronics Command, Fort Monmouth.



A SHOW GOES ON THE ROAD—Leo Meeks and SPC/4 Oscar Hopson load a TV nose cone exhibit from the Army Missile Support Command Demonstration Lab for a seven week tour through Georgia and Tennessee. This exhibit is supporting the Army recruiting program in the Third Army area. Men from the Lab usually accompany the displays on the road to insure proper care in handling and authoritative use of the material. Army exhibits are one of the prime devices for telling the missile and rocket story to thousands of people.



THE CENTERPIECE—One of the sections of a new exhibit being prepared at the Army Missile Support Command Demonstration Lab for the Fall fair season is lifted into its framework by some of the men who helped build it. They are, left to right, PFCs Evan Given and James Johnson of the Ordnance Guided Missile School, PFC Carlton Thomas of the Troop Command, O. L. Bobo, Consolidated Supply, and Dan Lennox, Post Transportation. The finished product will revolve and have missile models around the base.

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SOCIAL ^{and} CLUB EVENTS

Test Designer Will Address IEEE Sept. 9

Sept. 9 the Institute of Electrical and Electronic Engineers local chapter will hear Hugh P. Kelly, Head Ground Station Design Department of the Bell Telephone Laboratories, at the Squirrel Hill Officers Club.

The meeting will begin with a social hour at six, followed by dinner and the speaker. Bill Hefner, 876-2745 is taking reservations.

Kelly will tell about "Global Communications Including Telstar."

A graduate from Virginia Polytechnic Institute with a master's degree from the same school, Kel-

MRS. GRANGER CWO CRAWFORD WIN AT BRIDGE

Monday night bridge at the Squirrel Hill Officers Club drew seven tables of players last week.

Winners among the women were Mrs. R. H. Granger, first and Mrs. A. M. Cobban, second. For the men CWO J. N. Crawford was first and Lt. Col. Johann Hellmers was second.

Mrs. Crawford is handling reservations to play with the group. Her phone number is 877-5763.

ly began working in communications at Chesapeake and Potomac Telephone Company and transferred to the Bell Laboratories in 1943. Much of his experience has been in design and development of test equipment.

Industrial Engin'rs Schedule Meeting

The North Alabama Chapter of the American Institute of Industrial Engineers will meet in the Dogwood room of the Russell Erskin Hotel on Monday.

Jack F. Jericho, Executive Director of AIEE, will address the Chapter. He will explain the inter-workings of the national organization and also tell how he has applied Industrial Engineering techniques within his office.

Before coming with AIEE National, Jericho spent almost seventeen years with United Air Lines in many top administrative Industrial Engineering positions. Prior to this he served four years as Plant IE for the Graver Tank and Manufacturing Company in East Chicago.

The forthcoming Value Engineering Course will be discussed and final touches applied at this meeting. Social hour is at 6, dinner at 7 and the speaker at 8.



SELLING TICKETS IS FUN—Mrs. Fenton Angell gets a "sales pitch" about why she should have a good time and help the active Army wives support the fellowship assistance program for the Army Distaff Foundation at the same time. The tickets are to a Harvest Ball Sept. 26. The ticket seller is Capt. Jack Farrington who is also in charge of the entertainment for the ball. The event is being sponsored by the Redstone Arsenal Officers Wives Club.

Engineers Schedule Meet Student Receives Band

The Northeast Alabama Chapter of the Alabama Society of Professional Engineers will hold their monthly meeting on Thursday, Sept. 10, at the Huntsville Industrial Center Cafeteria. A social hour will commence at 6:00 p.m. and dinner at 7:00 p.m.

Guest speaker will be Richard S. Woodruff, Senior Engineer, with the Alabama Power Company at Birmingham. Woodruff will speak to the Professional Engineers on the subject "Alabama's Investor-Financed Power Plant Expansion Program." His talk will be illustrated with pictures and charts depicting the various developments,

Miss Sandra L. Gould, daughter of Sgt. Maj. and Mrs. H. D. Keever, recently was awarded the black band at the University of Alabama School of Nursing. The band signifies that she is a senior student. Miss Gould was graduated from Butler High School in Huntsville in 1962. While at Butler she was named homecoming queen and Miss Butler High School. Keever is sergeant-major for the Army Ordnance Guided Missile School.

and explaining unusual features of some of the projects.



E. M. STIFLE

FILM AND TV SOCIETY EXPECTS SPECIAL GUESTS

The Huntsville Section of the Society of Motion Picture and Television Engineers announces a joint meeting with the Nashville and Atlanta Sections of the Society on Sept. 12, at the Holiday Inn (West).

Ethan M. Stifle, Executive vice-president of the SMPTE and manager, East Coast Division of the Eastman Kodak Company, will present an illustrated program covering his recent tour of the Russian motion picture and television industry. This tour, sponsored by the U. S. State Department, was a reciprocal visit to compliment a similar tour made by three citizens of the USSR in early 1962.

A guided tour of the NASA George C. Marshall Space Flight Center will be conducted by the Public Affairs Office of the MSFC for out of town guests. This tour will include the Space Orientation Center (Space Museum) and the Manufacturing Engineering Laboratory. Transportation from the Holiday Inn West to the Space Orientation Center will be provided to guests. The tour will start at 1:00 p.m. and end at 3:30 p.m., transportation being provided for return to Holiday Inn where the meeting will be held at 4:30 p.m.

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Mrs. Napper Wins Summer Ringer Here

The Summer Ringer tournament sponsored between July 1 and August 31 by the Redstone Arsenal Officers Wives Golf Group was won by Mrs. Frank Napper. Second place in the first flight was a tie between Mrs. Charles Payne and Mrs. E. I. Donley. Mrs. Gene Budd was winner of the second flight with Mrs. R. W. Mundy in second place.

The Golf Group also participated in the Huntsville Country Club Invitational match in which Mrs.

John G. Zierdt was runner up in the sixth flight. Last Wednesday's play on the Arsenal Golf Course was a competition to beat the pro. This year no one was issued an "I Beat Mac" (James McClure) button because he shot a 38 and under scored them all.

Calendar Of Coming Events

ASME: A. C. Wilhelm, Southern Research Institute, Birmingham, "Magnetic Pulse Forming." Sept. 15, Pin Palace. Social hour 6:30, dinner 7:00, meeting 8:00. For information call Mr. Bomberger, 532-1418.

SMPTE: Huntsville / Atlanta / Nashville Sections Joint Meeting Saturday, Sept. 12. Special tour of MSFC facilities for members and guests at 12:30 p.m. Tour registration required prior to Sept. 10 — phone 539-9845 or 877-2583. Technical meeting at 4:30 p.m. at Holiday Inn, West — Mr. E. M. Stifle, Executive Vice-President SMPTE and Manager of East Coast Division of Eastman Kodak Company,

At The Service Club

By Brenda Hanson

On Wednesday the 9th, we have a table tennis contest scheduled. Now is your chance to prove that you are a real table tennis champion. Leon Dubois of 2 ETC has won all table tennis contests held here at the club for the past two months and this should be a challenge to you. He is tremendously skilled in this game.

Recently the fad at the club has been bridge. If you are interested in learning to play, come down to the club. Thursday night at 7 p.m. The Small Lounge and the tables will be reserved for bridge players.

Friday night at 8 p.m. we'll have snack time. So come and join us.

Saturday night we have scheduled a program to test your musical ability. At 8 p.m. "Stop the Music." Betty will play the music and the first to identify the tune wins the prize.

On Sunday, Sept. 13, coffee and donuts are served from the kitchen. Start your day off by coming to the Service Club for a refreshing cup of coffee and fresh donuts. Don't be one of those people who let drudging hours of

boredom hover over your head by not getting in on the activities. Climaxing the day is the dance; "September in the Rain." The versatile Missleaires will furnish the music for the evening.

Sept. 14, is set aside as game night, with two grand prizes. At 8 p.m. come over and take a free shot at the prizes. Who knows, you just might be that fortunate person.

Although, we are almost into the fall season, we have practically two months of fine weather left. Careful consideration and analyza-

tion of due time of season, tells us that skis, boats, swim suits, and life preservers are being stored away for the dreaded oncoming season. Here at the Service Club, we hope you will take advantage of the season and come by to try some of our outdoor games. We have badminton, croquet, deck shuffleboard and many other fresh-air activities.

See you at the Service Club.

Brenda



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Questions, Answers About Dual Compensation

The Civil Service Commission has prepared the following answers to questions received about the principal provisions of the new Dual Compensation Act, which was enacted Aug. 19, 1964.

Q. In general, what would the Dual Compensation Act do?

A. It would codify all the various laws pertaining to dual compensation and dual employment into one statute. It would establish simplified policies on civilian employment of retired military personnel and on the holding of two or more civilian positions.

Employment of Retired Military Personnel

Q. What limitation would be placed on dual compensation under the new law?

A. The limitation provides that a retired regular officer of the uniformed services who holds a Federal or D. C. Government civilian position will receive the full salary of the civilian position plus the first \$2,000 of his military retired pay, plus one-half of any remainder of his retired pay.

Q. Will the retired pay of reserve officers and enlisted men be reduced under the new law?

A. No. Retired reserve officers and all retired enlisted men will continue to be exempt from any dual compensation limitation.

Q. Are any retired regular officers exempt from the dual compensation limitation?

A. Yes. Any regular officer is exempt whose retirement was based on disability resulting from injury or disease received in line of duty as a direct result of armed conflict or disability caused by an instrumentality of war and incurred in the line of duty during a period of war.

Q. What about retired regular officers who are holding Federal or D. C. Government civilian positions on Nov. 30, 1964, the day immediately preceding the effective date of the Dual Compensation Act?

A. They may elect to come under the limitations of the Dual Compensation Act or continue under whatever limitations, if any, that are applicable to them on the day immediately preceding the effective date of the Dual Compensation Act.

Q. Does the dual compensation limitation apply to a retired regular officer who accepts a temporary, part-time, or intermittent appointment?

A. The limitation does not apply for the first 30 days of such an appointment.

Q. Does the Dual Compensation Act place any restriction on the appointment of retired members of the uniformed services?

A. Yes. A retired member of any of the armed forces may be appointed to a civilian position in or under the Department of Defense during the 180 days immediately following the date of his military retirement **only** if:

(1) The Secretary of the mil-

itary department concerned authorizes his appointment and, if the position is in the competitive civil service, the Civil Service Commission approves; **or**

(2) The minimum rates of basic compensation for the position have been increased under section 504 of the Federal Salary Reform Act of 1962; **or**

(3) A state of national emergency exists.

Q. What information is required in connection with the authorization?

A. Any request for such an authorization and approval must be accompanied by a statement which shows that:

(1) Full consideration, in accordance with placement and promotion procedures of the military department concerned, was given to eligible career employees.

(2) If selection is by other than certification from a civil service list of eligibles, the vacancy has been publicized to give all interested candidates a chance to apply.

(3) Qualification requirements for the job have not been written in such a way that the retired member will be given an advantage.

(4) The job has not been held open pending the member's retirement.

Q. Does the Dual Compensation Act affect the reduction-in-force rights of retired military personnel?

A. Yes. A retired member of any of the uniformed services who is entitled to veteran preference under section 2 of the Veteran's Preference Act of 1944 will be placed in the veteran preference subgroup of his tenure group for reduction-in-force purposes **ONLY** if:

(1) His retirement was based on disability resulting from injury or disease received in line of duty as a direct result of armed conflict or disability caused by an instrumentality of war and incurred in the line of duty during a period of war; **or**

(2) His service does not include 20 or more years of active military service; **or**

(3) He was employed in a Federal or D. C. Government civilian position on Nov. 30, 1964.

Q. In computing the length of total service for reduction-in-force purposes of employees who are retired members of the uniformed services, is time spent in active service in the armed forces included?

A. If an employee is in one of the categories noted in question 9 above, his total length of time in active service in the armed forces is included. If he is not in one of these categories, only his length of time in active service during any war, or in any campaign or



OFF AND RUNNING—Four of the Agency Chairmen of the upcoming United Givers Fund campaign have indicated that they have already laid the groundwork within their directorate for a successful drive. As a matter of fact, Claud Hopkins (left), has reported that the Quality and Reliability Management Office has obtained Fair Share pledges from every employee already. The others will manage the campaign in the three large Missile Command directorates. They are, W. P. Burnett, Supply and Maintenance, Lloyd Lively, Research and Development, and W. C. Cleveland, Procurement and Production.

expedition for which a campaign badge has been authorized, is included.

Q. Does the Dual Compensation Act affect the crediting of the active military service of a retired member of the uniformed services for purposes of annual leave accrual?

A. Yes. Active military service of a retired member of any of the uniformed services is creditable in determining years of service for annual leave purposes **only** if:

(1) His retirement was based on disability resulting from injury or disease received in line of duty as a direct result of armed conflict or disability caused by an instrumentality of war and incurred in the line of duty during a period of war; **or**

(2) On Nov. 30, 1964, he was employed in a civilian position to which the Annual and Sick Leave Act applies; **or**

(3) Such service was performed in the armed forces during any war, or in any campaign or expedition for which a campaign badge has been authorized.

Q. How does the Dual Compensation Act affect those retired temporary commissioned officers and temporary warrant officers recently ruled by the Comptroller General to be employed or receiving retired pay in violation of the dual compensation laws?

A. They will be relieved of repaying to the Government the amounts considered overpayments under the Comptroller General's decision.

Holding More Than One Civilian Position

Q. What is the new limitation with respect to holding more than one civilian position?

A. Generally, a person holding more than one civilian position will be entitled to receive basic compensation for not more than 40 hours of work in any one calendar week (Sunday through Saturday).

Effective Date and Laws Superseded

Q. What is the effective date of the Dual Compensation Act?

A. The relief provisions are effective upon enactment. All other provisions are effective on Dec. 1, 1964.

Q. What past laws does the Dual compensation Act supersede?

A. Over 50 different laws are repealed or amended. Three of these which are basic and have had Government-wide application are:

The 1894 Dual Office Holding Act, which prohibited the Federal civilian employment of many highly qualified retired regular officers.

The 1916 Dual Compensation Act, which prohibited the receipt of compensation from

Canada Represented

Canada is again represented among the 17 nations whose missilemen receive training at the Ordnance Guided Missile School here, Col. William J. Macpherson, reported this week.

Registration reports issued this week show that Richard William Glenn Donesley, 24, of Pentacan, B. C., and James Arnold Spencer, 23, of McLean, Skwn, have enrolled in Nike and Hawk courses at the School.

more than one civilian office when the combined amount exceeded \$2,000 per annum.

The 1932 Dual Compensation Act, which provided a \$10,000 ceiling on combined retired pay and civilian salary.

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Voting Rules Changed Since DOD's Publication Was First Circulated

A number of changes have been made in voting registration and absentee balloting requirements in many states since the Department of Defense published its Voting Information 1964 pamphlet which should be noted by military and Department of the Army civilian personnel who cannot vote in their home states.

Col. W. J. Macpherson, Commandant, directed all commanders and directors to bring the changes to the immediate attention of all personnel of the Army Ordnance Guided Missile School.

The most significant changes, of course, are in those states that required payment of a poll tax for all elections prior to recent adoption of the 24th Amendment to the U. S. Constitution, that prohibited the poll tax requirement as a qualification to vote for federal offices.

Changes since the pamphlet was published include:

Alabama: Armed forces personnel, disabled veterans in VA hospitals, and persons confined to bed in home or hospital may vote by mail. AFP and their families may apply for absentee ballots between 45 and five days prior to election by FPCA form.

Arizona: Qualified persons unable to vote at polls because of absence, physical disability or religious reasons or registered voters of state may cast absentee ballots if they have moved to another state within 15 months of a general election. Registered voters casting ballots by mail must vote in their own precincts for presidential electors only, and only if they have not qualified as voters in the state to which they moved.

Arkansas: Persons other than AFP must pay \$1 poll tax between the third Monday in February and Oct. 1 to vote for state offices.

Georgia: AFP should apply for absentee registration at same time as absentee ballot by FPCA form. If not registered, applicant will be sent forms which should be completed and returned immediately.

Hawaii: Primary elections will be Oct. 3.

Illinois: To elect 177 members of the General Assembly from state-at-large and to vote on two proposed amendments to state constitution.

Kentucky: AFP, spouses and dependents with them may vote by mail. FPCA should be postmarked no later than 20 days before election to county clerk.

Massachusetts: Primary election Sept. 10. General election Nov. 3 will consider four proposed amendments to state constitution. AFP, spouses and dependents with them will receive ballots when FPCA is accepted. Application is not equivalent to registration.

Nebraska: To vote on six proposed amendments to state constitution.

New York: AFP, spouses and children with them may vote by mail on military ballot if registered. FPCA, however, is considered automatic registration when accepted by election officials. FPCA should be mailed to Division for Servicemen's Voting, Office of Secretary of State, Albany, up to Oct. 22. Ballots must be in by noon of the day before the election. General election will consider two amendments to state constitution and one proposition.

South Dakota: To vote on three

proposed amendments to state constitution and three referred laws. AFP, spouses and dependents apply for registration by FPCA at least 20 days before election. Application for registration serves as application for absentee ballot.

Tennessee: AFP, spouses and dependents should apply for registration and ballot by FPCA to election commission in the county of residence. Application must be notarized by commissioned officer or other authorized person.

Texas: Persons who registered under new registration system for voting for federal offices without payment of poll tax (effective Feb.

5, 1964) before March 6, 1964, may vote in general election for federal offices. Persons who did not register under new system on or before March 6 and did not pay poll tax are not eligible to vote.

Virginia: Persons other than AFP must be registered six months prior to general election and must have paid \$150 poll tax to vote for state offices.

Other qualifications and procedures are essentially the same as those listed in the DOD pamphlet.

Persons who must vote absentee should contact their voting officer for information on absentee balloting.

BOOK OF THE WEEK INTEGRATION vs. SEGREGATION

Edited by Hubert H. Humphrey

The crisis in our schools as viewed by 17 outstanding commentators with the texts of decisions of the United States Supreme Court

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Movie Schedule

WEDNESDAY, 9 September
"Pattern for Plunder" (F)
THURSDAY-FRIDAY, 10-11 September
McHale's Navy (F)
SATURDAY, 12 September
"The Courtship of Eddie's Father" (F)
SUNDAY-MONDAY, 13-14 September
"Commando" (M)
TUESDAY, 15 September
"Sunday in New York" (M)
Two shows nightly at 6:00 and 8:30 p. m.
Saturday Matinee at 1:00 p. m., and Sunday Matinee at 2:00 p. m.

Waldron Depends On Computers For Answers

For a man who isn't an engineer by formal training, SP-7 Raymond Waldron is one soldier who knows a lot about the business.

"Ray is very knowledgeable in his particular area of engineering," one supervisor praises. "He is highly qualified and a man who likes to get things done."

A veteran of more than 10 years with the Army—four of them at the U. S. Army Missile Command—Waldron, 30, works in the Gauge Verification Section of the Test and Reliability Evaluation Laboratory. His "area" is part of the Analytical Services Branch of the Directorate of Research and Development.

Although he doesn't hold an engineering degree, Waldron is no stranger to highly technical work. The crew-cut native of Lindsey, Calif., was among the first group of soldiers in 1958 to attend the Milwaukee School of Engineering. There he obtained an Associate in Applied Science Degree in communications and computer technology.

Actually, Waldron, who calls himself a computer repairman, pro-

grammer and operator, is a "jack of many trades." Much of his work deals with providing support data to operating elements of R & D—such things as data reduction and analysis. Among other things, he takes records from missile tests, scans engineering analysis and reduces the mass of data to meaningful terms.

There are also countless other tasks that must be performed.

"We check the test ranges for firing schedules to determine what types of load cells, pressure cells or gauges are needed," he says, "and we do quite a bit of check-out work. A contractor, for example, will bring in a gauge and we determine whether or not the equipment would be acceptable for Army use."

He continued: "We also do a lot of calibrating telemetry packages and environment testing."

Waldron, who was born in Mt. Ida, Ark., but moved to California at an early age, is especially adept in the field of computers. In fact, he has conducted classes in digital computers as well as in mathematics.

During every test of rocket motors, Waldron says, there are more gauges and dials to read than you can shake a stick at. This is where the computer steps into the spotlight.

"Where it used to take two men an hour to read one or two cells (load cells or pressure cells), a computer can read 12 cells in that

same time frame," Waldron said. "And where the exacting work was very tiring, the computer does it effortlessly."

Load cells, incidentally, are used to measure the thrust of rockets.

When Waldron first started in this work nearly four years ago, there were some 10 men doing the work. Now there are only half that number and "our accuracy has gone up considerably because our people don't have to read all the gauges and dials."

There is nothing wrong with Waldron's eyesight, however.

Competing on the National Rifle Matches in Ohio recently, Waldron won two first place trophies. Shooting with the Redstone Arsenal small bore rifle team, Ray won first place in the Sharpshooter Class in both the 100-yards any sight class and the 100-yards iron sight class.

Strangely enough, he had never done any shooting until this year, other than the normal qualifying firing required of every soldier.

Waldron hopes to return to school in the near future to complete academic requirements for a degree in Electronic Engineering. "And I hope to return to Redstone Arsenal," he says. "We hope to get him back, too," his supervisors are quick to agree.

He is married to the former Geraldine White, also of Lindsay, and they have five children.



A TYPING LESSON?—No, SP-7 Raymond Waldron is calibrating on a computer load cells which are used to measure thrust of rocket motors. Although he isn't an engineer by training, Waldron is a highly skilled worker in the Gauge Verification Section of the U. S. Army Missile Command's Test and Reliability Evaluation Laboratory.

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Eleven Join UA Faculty

Eleven recently appointed faculty members at the University of Alabama in Huntsville have been announced. These members of the teaching faculty assumed their duties in September. The total teaching faculty on a full time basis now numbers 23.

Dr. N. F. Audeh will be Visiting Associate Professor in Electrical Engineering. Dr. Audeh received his Ph.D. from Iowa State University and has taught at Los Angeles State College.

Dr. Chandler P. Bhalla will be Assistant Professor in Physics. He received his Ph.D. from the University of Tennessee and has worked at Westinghouse Corporation in Pittsburgh.

Dr. Margaret Bond, who has taught French for many quarters at the Huntsville Campus, will be a full time instructor in economics

and French. Dr. Bond received her Ph.D. in economics from the University of Paris.

Dr. Wolfgang G. Bringman, a German-born psychologist, has been teaching at the University's Birmingham Center. He obtained his Bachelor's Degree in Dormstadt, Germany, and has served as a psychologist intern at the New Jersey State Hospital in Trenton.

Mr. William O. Chitwood, Jr. will be an Instructor of English. He received his Master's Degree from the University of Alabama.

Dr. Rafael M. Fiterre, a former Dean of Science at the University of Havana, Cuba, will teach mathematics. He abandoned a 28-year career in 1960 to come to this country. He has done graduate work at the Sorbonne in Paris and the Louvain in Belgium.

Mrs. Peggy Glenn will be an Instructor of mathematics. She received her Master's Degree from the University of Alabama and has taught there as a graduate assistant.

Mr. Henry S. Marks of the University of Miami, Florida, has taught history at Jacksonville and Florence State Colleges and the

University of Alabama. He will be Instructor of history.

Dr. J. Tinsley Oden comes as Assistant Professor in Engineering Mechanics. In 1962 Dr. Oden received his Ph.D. from Oklahoma State. He has taught at Oklahoma State and has been engaged in research at General Dynamics at Fort Worth, Texas.

Dr. Robert L. Welker comes from a teaching position at Vanderbilt University to be Associate Professor of English. He has done special graduate study on the works of Shakespeare at Stratford-

on-Avon, England, and is co-author of a text on short-story writing.

Dr. Gerald A. Wempner comes as Professor of Engineering Mechanics. He received his Ph.D. from the University of Illinois in 1957 and has been Post-doctoral Fellow at Stanford University during the past year.

The Huntsville Campus faculty continues to grow as the student body increases. The September term will be the largest—faculty, staff, student body—in the history of the University in Huntsville.

Explosive Experts Sought By Army

The Army is looking for men who like to live with a bang—and after it, too.

Specifically needed are more people to be trained in the little known field of "Explosive Ordnance Disposal."

EOD men specialize in the safe handling and deactivation of munitions ranging from complex nuclear warheads and simple booby traps through still dangerous Civil War Cannonballs and "souvenirs" of two World Wars.

They train thousands of military personnel each year in the now not-so-deadly art of munitions handling—and also are on call to conduct explosive mechanism courses for police and fire departments, civil defense and other groups.

They are available 24 hours a day to help the entire area in a variety of problems, from removing unexploded dynamite from tree stumps to getting a truck with an explosive cargo out of a ditch.

One of these elite EOD groups is attached to the Army Ordnance Guided Missile School here. It is the 13th Explosive Ordnance Detachment, commanded by First Lt. Vincent Villani, 23, whose home was originally in Dumont, N. J.

"A lot of people think we live like characters in a Grade B movie. But the Army's new explosive ordnance equipment, plus years of know-how, have reduced danger in our work to practically nil," he says.

Villani says morale is high among EOD men because their units are small, and their work requires an intimate trust in one another. His outfit consists of himself and nine men.

An example of the high spirits prevalent among the EOD specialists is the fact that for two months now the 13th has been 100% contributing blood to the Red Cross.

"EOD gives the Army career men an unusual chance to become a member of a dedicated, skilled team of experts who earn special duty and proficiency pay," Lt. Villani points out.

Men accepted for EOD training attend a 19-week course at a special school conducted by the Navy at Indian Head, Maryland.

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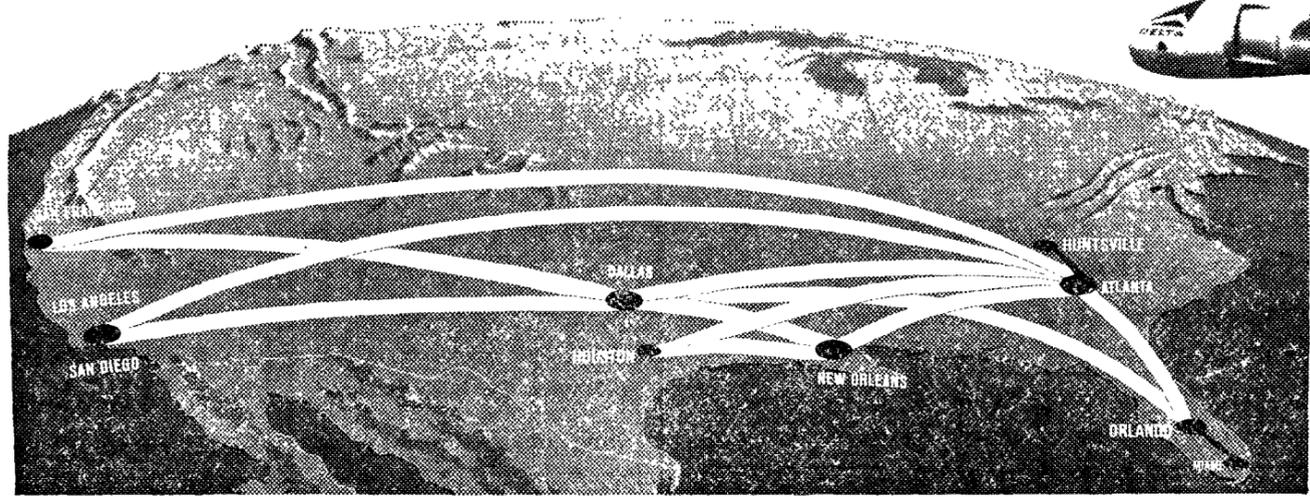
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Page 14 The Redstone Rocket — Sept. 9, 1964

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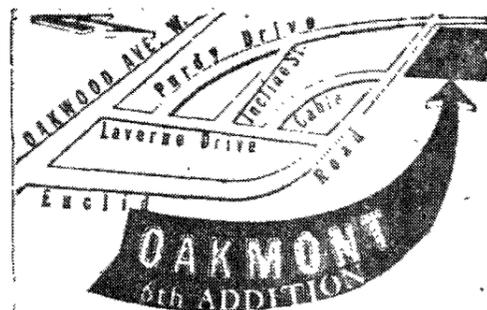
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Welcome Mat

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

ARMY MISSILE COMMAND

Supply & Maintenance: James V. Blakemore, Alta R. Boles, Virginia A. Braziel, Bonnie L. Cummings, William G. Francis, Melvin T. Gallagher, Linda B. Gordon, James C. Gray, Richard T. Gray, Jr., Judith F. Jackson, Elenor C. James, Shirley, G. Jolley, Jerry F. Morris, Thomas G. Newman, James W. Ridings, Joan V. Robertson, Buddy W. Smith, Doris S. Smith, and Helen O. Smith.

Procurement & Production:

Frank F. Aldridge, Eugene P. Coakley, Mary K. Coplin, Anna B. Dumas, Marvalene T. Freeman, Betty C. Godwin, Edward C. Hahn, Sr., Fred W. Milnickel, Harold W. Peterson, and Paul F. Smith, Jr.

Research & Development:

Barbara P. Brock, Maida F. Burch, Margaret H. Cain, Carolyn W. Edgemon, Hugh W. Green, James P. Gross, Jr., James W. Hooie, Michael R. Hunter, Gerry S. Keathley, Charles K. Lombard, John K. Mitchell, Joseph A. Oddo, Lola M. Puckett, Roy E. Pugh, Houston L. Shelton, Jr., Woodrow A. Williams

and James A. Wright.

Project Offices: Mary A. Achatz and William E. McConnell, Mauler; Phyllis R. Fohner, Redeye; Virginia Y. Geringer and Vernon W. McMahan, Hercules; John T. Jordan, Jr. and Patricia D. Vantuyl, Hawk; and Wilda T. Sanders, Sergeant.

Others: Howard T. Cook, James B. Miller, Jr., and Jo S. Mitchell, General Counsel; Jeter E. Dollahite, Inst & Svcs; F. D. Folette, ADFC/DS; Lovis C. Lammers, Admin Office; William C. Murphree, S/S; and William K. Pennington, Msl Intel.

NIKE X PROJECT OFFICE

Nollie E. Agee, Jr., John S. Beavers, C. Eugene Beeckler, Robert E. Haley, Betty A. LaRue, Donald E. Mastin and Louie M. Smith.

ARMY MISSILE SUPPORT COMMAND

Doris C. Chesebro, Joseph H. Day, Jr., Laverne D. Godwin, Harold G. Radford, and E. Faye Walker, all with the Assistant for Communications; Phillip B. Farwell, Calibration Center; Gurlie R. Hill and Marvin A. Presley, Provost Marshall; Wiley E. Honea, Post Quartermaster.

Evelyn D. Jones, Lois P. Kennedy, William M. Rogers III, Bessie L. Stewart and Charles W. Trull, all with Finance and Accounting; Paul T. Kornman, Jr., Post Engineer; Daniel R. Langston, Billy Nixon and Thelma I. Smith,

Three Honor Students Presented Army Awards

Three Hawk and Nike missilemen received the highest academic award presented by the Army at the Ordnance Guided Missile School last Friday.

Following a keynote address by Capt. Gary F. Dunn of the Officer's Training Division at an informal graduation ceremony, Reavis O'Neal Jr., a director of the Tennessee Valley Chapter, presented Association of the U. S. Army plaques to two American and one German student.

SFC John De Bisschop of Oakville, Conn. was high man in his Hawk Mechanical Helper course

Reproduction; Sadie J. Lyle, Control Office; and Waneta B. McMurry, Office of Spec Assts.

and received the plaque for maintaining a grade point average of 97.6. Sgt. Claus Heinrich of Germany maintained a grade point average of 97.4 in his Hawk Guidance course.

A third plaque was presented to Hawk Mechanical Repair course student S/Sgt. William C. Ramsey, who earned a 96.6 grade point O'Neal explained that the AUSA presents an academic award plaque to students who score grade averages of 96 per cent and better.

More than 50,000 Tibetan refugees have found shelter, food and work in northern India. CARE looms, sewing machines and other tools and Self-Help equipment, much of it made possible through FSJC contributions, are used in training men, women and youths in new skills.



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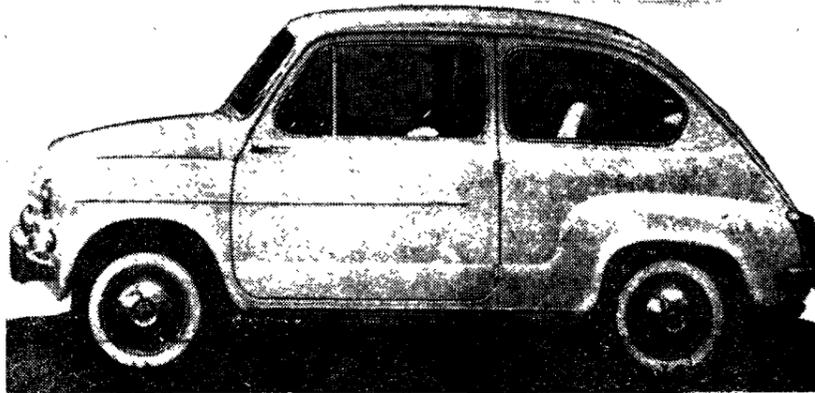
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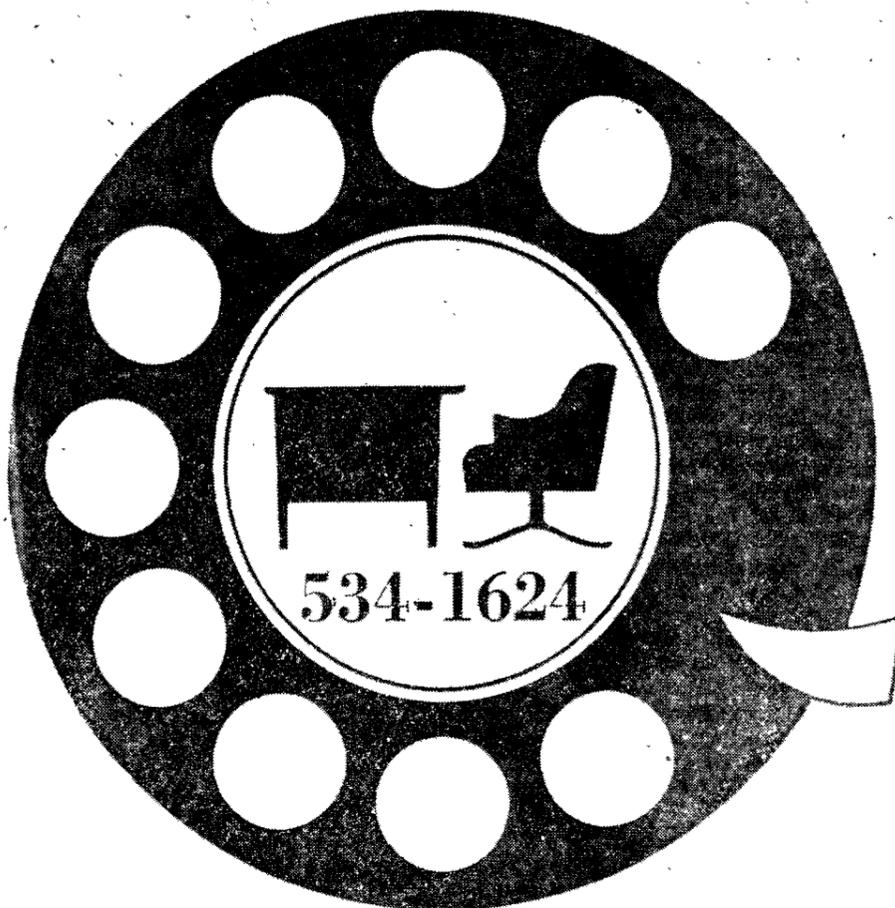
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German Bundestag SCHOOL OFFICES Members Visiting SHIFTED ABOUT Today at OGMS

Seven members of the Federal Armed Forces Committee of the West German Bundestag, the lower house of the Bonn parliament, will be at the Army Ordnance Guided Missile School today and Thursday to meet German officers and the more than 300 Army and Air Force students who are studying the Hawk, Nike, Pershing and Sergeant missile systems.

The members of parliament will also observe the training of these students and tour the school.

A dinner in their honor will be given this evening at the Redstone Officers Open Mess by Col. William J. Macpherson, commandant, and members of his staff and faculty. Thursday they will meet and address the West German students at the Post Theater. They will then inspect German training units.

Heading the list of officials, who represent the four major political parties of West Germany, is Dr. Richard Jaeger, chairman of the Federal Armed Forces Committee and vice chairman of the Bundestag.

Guard Papers Vets Warned

Veterans and their dependents should take good care of basic family documents such as birth and marriage certificates, the Veterans Administration advised recently.

These documents, needed to support claims for veterans benefits, should be kept where they are protected and at the same time readily available. John D. Chapman, Contact Officer at the Alabama VA Regional Office in Montgomery, said.

Included among these essential records are military discharge papers, death certificates, divorce decrees and guardianship or child custody evidence.

The basic records are needed to support claims for disability or death compensation or pension, veterans burial benefits and similar claims.

The records should be presented to a VA contact representative when a claim is originally made.

Langsdale Slated To Talk To Staff

The president of Georgia State College in Atlanta, Dr. Noah Langdale, Jr., will address the Commander of the Army Missile Support Command and his staff at Redstone Arsenal Friday on "Secrets of Successful Management."

Dr. Langdale's talk is being sponsored by the Training and Development Division of the Redstone Civilian Personnel Office.

The speaker is a graduate of the University of Alabama, holds a law degree and a Masters degree in business administration from Harvard and a Doctorate in law from Alabama.

As a student at Alabama he was a member of Phi Beta Kappa honorary scholastic fraternity and played tackle on the varsity football team.

Maj. William H. Lentz, chief of the Training Division in the Office of Academic Operations at the Ordnance Guided Missile School, wound up this week at OGMS, where he started from several years ago, when he came here as a student.

His office was moved from building 3217 to building 3484, where he met his first class at the Missile School. He has retained his old office number, however, 877-2477.

The Registrar and Scheduling Branch has been moved into building 3217 from building 3222.

Another office change at the school is the Foreign Liaison office that has been moved to building 3740. The office, headed by Major Monroe Webb, now has 877-3501 for its telephone number.

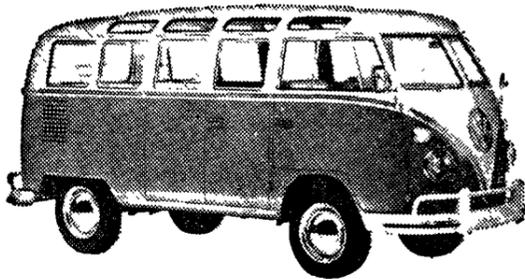


AGENCY CHAIRMEN—A great amount of the final outcome of the upcoming UGF drive will depend upon the efforts of these agency chairmen who will direct the campaign within the larger organizations outside of the Missile Command. They are (left to right); J. C. Godsey, Thiokol; Leonard M. Brockman, Missile Support Command; P. T. Campbell, Rohm & Haas, Lt. Col. C. D. Nielson, Nike-X Project Office; and Lt. Col. Willard Anderson, Ordnance Guided Missile School.

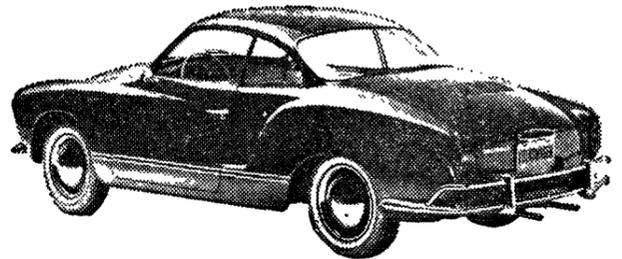
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