

The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

AUGUST 4, 1965

Arsenal-Wide

Spot News

Dial 112

Posthumous Award Goes To Widow

The Distinguished Flying Cross Friday was awarded posthumously to the widow of Army Capt. Charles Tucker, of Shelbyville, Tenn., for heroism while participating in an aerial flight April 6 over Viet Nam.

Mrs. Tucker was presented the award by Maj. Gen. John G. Zierdt, Commanding General of the U.S. Army Missile Command, during a Retreat Parade and Review.

In addition, Mrs. Tucker was al-

TEN MEN RETIRE

During the Retreat Parade and Review Friday afternoon at the Redstone Arsenal Parade Field, honors were conferred on ten men who retired at the end of July with more than 20 years of Active Military service.

The ten are: Col. William J. Newman, Comptroller and Director of Programs at the Army Missile Command; Maj. Joseph A. Justin, MICOM Protocol Office; Maj. William O. Aden, and Maj. William H. Harris, both from the Ordnance Guided Missile School; CWO I. T. Merritt, OGMS, CWO Jose Ortiz-Cuencas, Sergeant Project Office; SFC William L. Williams and SFC Tom W. Biggs, Co. C, Ordnance Guided Missile School; SFC Joe D. Dobbs, Headquarters and Headquarters, OGMS; and SP6 Ernest Walls, Missile Support Command.



HONORS AT RETREAT PARADE—Mrs. Charles G. Tucker is escorted to the reviewing stand by Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command, after she had been presented the Distinguished Flying Cross and other citations awarded posthumously to her husband, Army Capt. Charles Tucker. Standing by to join them are the 10 officers and enlisted men whose

retirement from service was honored at the parade. They are, from left: Col. William J. Newman, Maj. Joseph A. Justin, Maj. William O. Aden, Maj. William H. Harris, CWO W3 I. T. Merritt, CWO W2 Jose Ortiz-Cuencas, SFC Tom W. Biggs, SFC William L. Williams, SFC Joe Dobbs and SP6 Ernest Walls.

DA Terminates Development Of Mauler

The Department of the Army has announced termination of its development program for the Mauler missile system.

The top level Army decision will have no adverse effects on personnel at the Army Missile Command. The 99 civilian employees and four military personnel assigned to the Mauler Project Office will be utilized in other programs being managed from Redstone Arsenal.

Started in 1960, Mauler was designed as a mobile air defense missile system for the protection of front line troops against high speed enemy aircraft and short range missiles and rockets. An all-weather weapon system, it was to be completely contained in a single tracked vehicle.

The Department of Army announcement said "technical difficulties associated with mounting a fire control radar and guided missile launcher on the same vehicle caused significant delays and increased costs.

"As a result of problems encountered, extensive re-evaluation of Mauler was undertaken and completed this Spring. The re-evaluation, taking into account recent improvements in the Hawk missile system and the promise of new types of forward area defense systems significantly simpler and cheaper than Mauler, lead the Army to question the wisdom of continuing the development of Mauler through deployment.

"The new systems involve combinations of automatic guns and the Chaparral (Sidewinder missiles mounted on a self-propelled vehicle). Thus, although the technical feasibility of the Mauler system has now been established, the Army has decided to select the alternative systems for deployment."

The Hawk system, already deployed in the United States and abroad, is also project managed from Redstone Arsenal.

Chaparral, assigned to the In- (See MAULER on Page 3)

Details Announced For Combined Arsenal Federal Campaign Drive

Undesignated contributions collected during Redstone's combined Federal employees fund raising campaign this fall will be distributed on a basis of 91 per cent to United Givers Fund, six per cent to National Health Agencies and three per cent to International Welfare Agencies.

This ratio for undesignated funds was agreed upon during a joint meeting of Arsenal Campaign Committeemen and representatives of the major participating agencies in the Combined Federal Campaign for 1966, according to L. M. Brockman, chairman of the campaign committee.

The "one-shot" concept of fund raising in the Federal establishment will be introduced to the Huntsville-Madison County area this fall, according to an inter-agency announcement several

weeks ago.

A six-weeks campaign is tentatively scheduled to begin at Redstone Sept. 20. It will combine the United Givers Fund Drive, annually conducted during fall months, and the Joint Fund Drive which has usually been held during the spring months.

As in the past contributors will be free to designate single or combined participating agencies to receive their contributions. If a designation is not made by the individual, funds will be distributed according to the pre-determined ratio.

A feature of the 1966 combined campaign will be payroll withholding authorization.

During the joint meeting it was agreed that the Redstone Arsenal Branch of the First National Bank (See JOINT FUND on Page 2)

GENERAL TRUMAN VISITS SCHOOL

Lt. Gen. Louis W. Truman, commander of the Third U. S. Army, visited the Ordnance Guided Missile School Tuesday for an orientation of the School's functions and activities.

The Missile School is an element of the Continental Army Command but receives administrative and logistical support from Third Army.

At OGMS, Gen. Truman visited the various missile systems classrooms and laboratories, and witnessed a training aids demonstration and a test equipment demon- (See GEN. TRUMAN on Page 3)



ORIENTATION BRIEFING—Maj. Gen. John J. Davis (center) and Brig. Gen. T. R. Philbin (right) meet with the Missile Command's Director of Missiles Intelligence, Col. R. W. Mundy, prior to an orientation tour of Redstone Arsenal facilities last week. Gen. Davis is Assistant Director of Production for the National Security Agency and Gen. Philbin is assigned to Headquarters, U.S. Army Materiel Command, as Deputy Director for Plans, R&D. The visiting Generals headed a delegation of officials from the National Security Agency that toured Missile Command and Marshall Space Flight Center facilities.

so presented a Second Oak Leaf Cluster to her husband's Air Medal and the Purple Heart Medal.

Lt. Tucker was co-pilot of an armed UH-1B helicopter covering a crash site where a medical evacuation crew was performing the rescue of a crew of a third downed aircraft. He was promoted to captain posthumously.

The order directing award of the Flying Cross reads: "After escorting the medical ship to a safe landing beside the downed aircraft, Lieutenant Tucker pinpointed the enemy anti-aircraft positions and (See DISTINGUISHED on Page 3)

Marcelle Becomes Comptroller

The retirement of Col. William Newman, who had been the Missile Command's Comptroller and Director of Programs for the past three years, brought on a shuffle of military assignments in the Command's financial management.

Taking over the position vacated by Col. Newman is Col. David Marcelle who had been Chief of the newly organized Finance and Accounting Center. The new Finance and Accounting officer will be Lt. Col. Milton A. Jones, who was recently assigned to the Arsenal from the Sacramento Army Depot in California.

A native Texan, Col. Newman closed out a long and illustrious military career spanning 23 years with his retirement at the end of July. Commissioned in the Ordn- (See COL. MARCELLE on Page 3)

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.

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Rocket Ruminations

Nothing is impossible to a willing heart. —John Heywood

The Mauler Decision

"... the technical feasibility of the Mauler system has now been established"

It was just a phrase, a few words in the text of the Department of the Army's announcement last week that it was terminating the Mauler development program, but it summed up years of hard work by some very competent men and women.

The news of the termination, when it came to Redstone and to the people of the Mauler project office, was not unexpected. In the missile business, no news is not good news when a decision is pending and Mauler's fate had been in the balance for some time.

The people who worked on this ambitious program here can take satisfaction in the knowledge that they gave it their very best. The very best, in Mauler's case, meant among other things that when experts called the task impossible, they set out to prove the feasibility of the Mauler system and did it. They managed to do it and more in the time they had been allotted and saved more than four million dollars in the process.

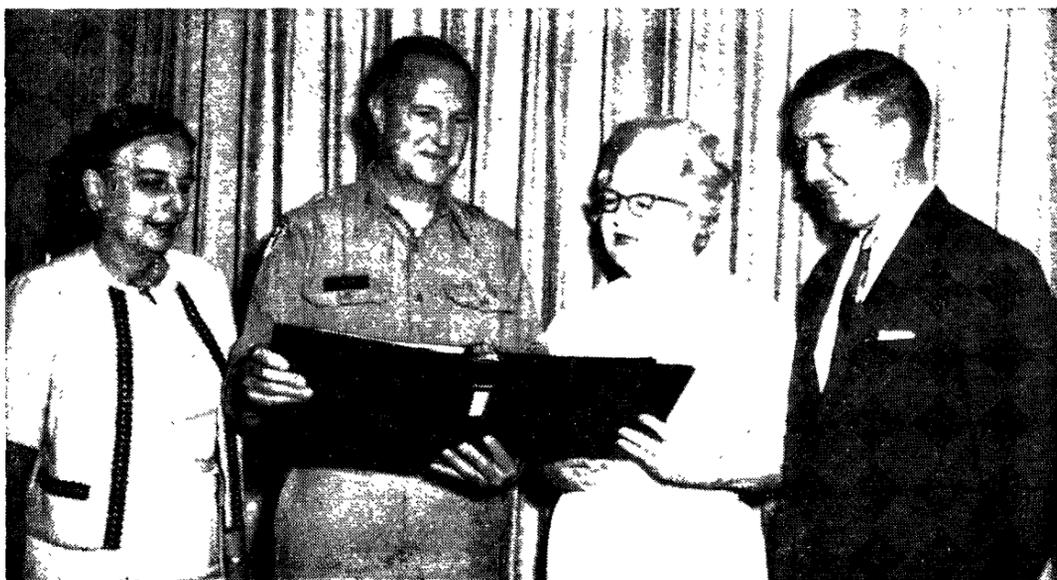
Perhaps it's belaboring the obvious, but packaging an entire all weather, air defense missile system on a single vehicle was a formidable task from the outset. It's just as obvious that a developing agency like the Missile Command cannot continue working on a project that the user no longer feels he needs.

Every effort will be made to apply techniques and components developed or begun in the program to other missile systems. Mauler is gone, but the need remains. That makes the most valuable carryover of all, the people who worked on the Mauler system.

Their experience and intimate knowledge of a problem that very few people understand, forward area air defense, will be of immediate benefit to other Missile Command programs.

That's what the Commanding General had in mind when he spoke to the Mauler staff last week after the termination announcement had been made. General Zierdt told them that they will be placed in jobs in other programs where their talents can best be used.

And he also spoke for every one of us when he told the Mauler team: "You have done as fine a job as could be done."



DISCUSS PLANS FOR COMBINED FEDERAL CAMPAIGN—Agencies to participate in the 1966 Combined Federal Campaign sent representatives to Redstone Arsenal recently to discuss plans for the fund raising effort this fall. From left to right they are: Ruth B. Ferrari, Mobile, International Welfare Agencies; Col. Thomas W. Cooke, Commander, U.S. Army Missile Support Command; Lillian G. Meade, Birmingham, National Health Agencies; and Richard Hope, Huntsville, Huntsville-Madison County United Givers Fund.

JOINT FUND

(Continued From Page 1)

of Huntsville would be the central point for the acceptance and disbursement of campaign funds. Other items of agreement included number, format, and cost distribution of campaign materials among participating agencies.

It was announced that the Huntsville-Madison County United Givers Fund, National Health Agencies and International Welfare Agencies had furnished nondiscrimination certificates as required by the U.S. Civil Service Commission.

Of the 19 UGF agencies in counties and municipalities out side of Madison County, nine have furnished the required nondiscrimination certifications and ten failed to comply by the deadline date.

Those agencies that furnished the certifications are, Gunter'sville, Decatur-Morgan County, Athens-Limestone County, Sheffield-Colbert County, Florence-Lauderdale County, Moulton-Lawrence County, and Arab, Ala, and Murphysboro-Rutherford County, and Shelbyville-Bedford County, Tenn.

Agencies which did not furnish the certification will not be included in the Combined Federal

Campaign plan and are not eligible to receive funds from the Combined Federal Campaign according to Civil Service regulations.

During the planning session the Huntsville-Madison County UGF was represented by Richard Hope and Arthur Douyard; National Health Agencies was represented by Lillian G. Meade, of Birmingham; and the International Wel-

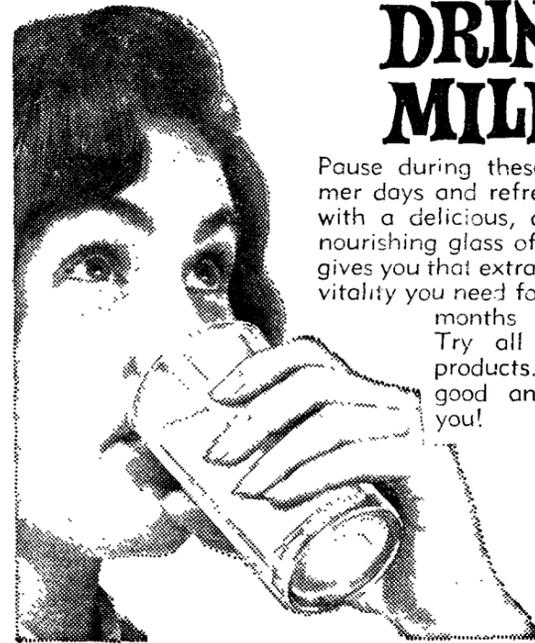
fare Agencies representative was Ruth B. Ferrari, of Mobile.

Red flares can prevent accident when engine trouble or flat tires force a stop on the highway at night. The bright red flame warns oncoming traffic to slow down, so it would be wise to carry flares at all times and be prepared.

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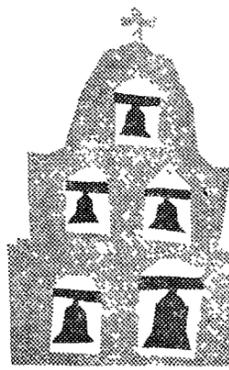
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(Continued From Page 1)

began a firing run. Demonstrating outstanding devotion to duty, Lieutenant Tucker pressed the attack with great determination and accuracy. As he flew over closer to the insurgent guns his aircraft was hit by heavy ground fire and crashed. Lieutenant Tucker's superior flying skill, and disregard for his own personal safety enabled the medical evacuation aircraft to successfully accomplish its mission. Lieutenant Tucker's heroic actions were in keeping with the highest traditions of the United States Army and reflect great credit upon himself and the military service."

The citation accompanying the award of the Air Medal reads: "For distinguishing himself by meritorious achievement while participating in sustained aerial flight in support of combat ground forces of the Republic of Viet Nam during the period of 23 February 1965 to 5 March 1965. During this time he actively participated in more than 25 aerial missions over hostile territory in support of counterinsurgency operations. During all of these missions he displayed the highest order of air discipline and acted in accordance with the best traditions of the service. By his determination to accomplish this mission in spite of the hazards inherent in repeated aerial flights over hostile territory and by his outstanding degree of professionalism and devotion to duty, he has brought credit upon himself, his organization and the military service."

Mrs. Tucker is living at 303 Oak Street, Shelbyville, Tenn.

If you are driving and plan to make a turn, signal your intentions at least 100 feet before reaching the point at which you intend to make the turn.



OUTSTANDING NCO—SSgt. Kenneth W. Barney was awarded a certificate of achievement from the Third U. S. Army for his outstanding work in the Third Army NCO Academy at Ft. Jackson, S.C. At the academy, Sgt. Barney was named outstanding student. Col. Hobart V. Smith, assistant commandant at the School, presented the certificate and commended the native Californian "for proving the high caliber of missilemen at a combat arms school."

MAULER

(Continued From Page 1)

terim Air Defense System Project Manager of the U.S. Army Materiel Command, is a responsibility of the Army Missile Command and is being developed on a commodity managed basis.

According to the Department of Army announcement, effort under the present Mauler contract will be completed prior to Sept. 30, 1965.

Studies are underway to determine what continued development of Mauler components may be of value to the United States or allied nations. Such elements as the infra red acquisition units, acquisition radar and Mauler fuse show promise for such use. In addition, technology and miniaturization techniques developed during the Mauler program will be valuable in developing future compact air defense weapon systems.

General Dynamics Corporation, Pomona, Calif., has been the prime contractor for Mauler.

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KINGSMEN COMING

The Kingmen will be in Huntsville tomorrow night at the Madison County Coliseum from 8 p.m. until midnight. A show and dancing are on the schedule. Hornbuckle's, Slim's and Miracle City record shops all have tickets.



COL. WILLIAM NEWMAN



COL. DAVID MARCELLE

COL. MARCELLE

(Continued From Page 1)

ance Corps in 1942, he saw combat service in Europe during World War II and in Korea.

He was awarded the Bronze Star Medal for his service in Europe and the Legion of Merit while serving in Korea.

Col. Marcelle arrived at the Arsenal during the same month as Col. Newman after having completed training at the Armed Forces Staff College. Most of his career of over 20 years has been in the field of financial management.

He is a graduate of the University of Maryland and has completed the Command and General Staff College since entering the service. His Arsenal career has been highlighted by the direction he has given to the Savings Bond program.

Two years ago Col. Marcelle instituted a year around Savings Bond program in lieu of

the one-time person-to-person canvass that has been in effect. As a result of his effort the Arsenal participation rate has risen to over 90 per cent, one of the highest in the entire Department of Defense complex.

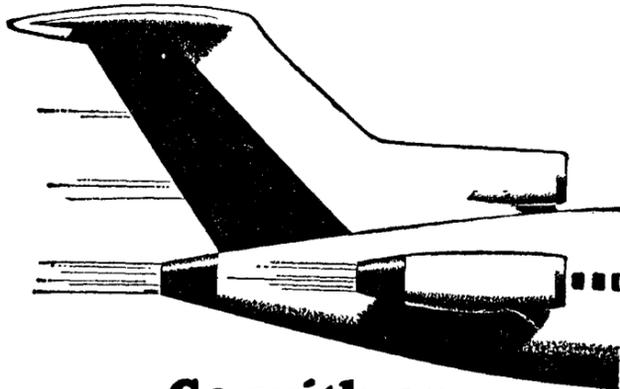
Another career Finance Officer, Col. Jones brings to Redstone over 17 years experience in the management of Army finances. He has gained his experience through varied assignments in Europe, Asia and in this country.

GEN. TRUMAN

(Continued From Page 1)

He flew into the Redstone Airfield Tuesday morning and departed before noon for another site on his tour of Third Army installations. Gen. Truman assumed command of the Third Army in July.

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200	36.92	20.09	14.54	11.81
300	55.09	29.87	21.54	17.42

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1000	92.30	48.76	\$40.05
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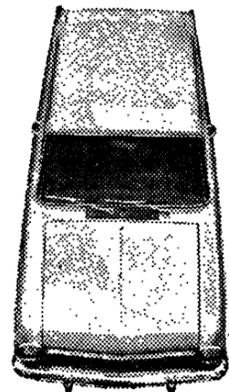
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These new levels of effectiveness and economy, from research and development through procurement and distribution, have been achieved by streamlining and improving both in-house operations and relationships with American science and industry.

Commenting upon the three-year record established by AMC, Gen. Harold K. Johnson, Chief of Staff of the U. S. Army said:

ABREAST OF ADVANCES

"The Army Materiel Command, in bringing together more than 700 years of collective experience of the former Technical Services, has kept abreast of advances in science and technology, and provided the Army with more timely support with materiel of higher quality."

In a message addressed directly to the men and women of AMC, Gen. Johnson added:

"Increased delivery of helicopters and helicopter armament, advanced evaluation of the laser range finder, improved reliability of missile systems, and the development of a nuclear capability for the 155mm howitzer are but a few of the important projects developed by the Army Materiel Command. Through your program to expedite supply procedures and improve quality in every phase of development, the efficiency of the Army has been improved. You have provided our combat soldiers with the tools of modern warfare to see, move, shoot, and communicate their way to victory."

SAVINGS EXCEED GOAL

In terms of the Department of Defense Cost Reduction Program, AMC's dollar savings have far exceeded its established goal for the third successive year. Although final figures have not been compiled, Gen. Frank S. Besson, Jr., Commanding General of AMC, estimates that AMC will show a savings of more than \$500,000,000 during Fiscal Year 1965 against a goal of \$433,330,000.

During Fiscal Year 1965 AMC total military and civilian manpower decreased 5 percent from 172,500 to 163,000. Since it was established three years ago AMC personnel strength has been reduced by more than 10 percent.

From an original total of 278 local and regional facilities taken over from the Army's Technical Services in 1962, AMC has reduced its nation-wide network of installations and activities to 191.

A net reduction of 23 was accomplished during FY 1965, resulting from the establishment of nine new facilities, the discontinuance of 19, and the transfer of 13 to other agencies, the latter including the transfer of Army ocean terminals and terminal commands to the new military Traffic Management and Terminal Services. In addition to the above accomplished reductions, some 35 other installations or activities have been announced for eventual closure.

CONSOLIDATION ACCOMPLISHED

Approximately 800 individual organizational consolidations were accomplished during FY 1965 to reduce installation support costs. These actions ranged from unifying of maintenance operations on a single installation to the placing of two or more installations under a single management. Random audit of 10 percent of these consolidations revealed an annual savings of \$2,800,000 and 320 man years.

Other actions taken over the past 12 months to streamline and strengthen AMC's responsiveness to the Army in the field include the co-location of Headquarters, Supply and Maintenance Command, with Headquarters, AMC; the creation of an Aviation Office in Headquarters, AMC, to serve as a single point of contact for matters involving AMC planning and support of Army Aviation; and the establishment of a Combat Surveillance Office, also in Headquarters, AMC, to coordinate AMC materiel support of battle area surveillance and target acquisition.

AMC's ability to react quickly and effectively to unexpected situations was put to the most recent test with the dispatch of U.S. troops to the Dominican Republic. Initial weapons and equipment support for U.S. troops was accomplished through AMC's automatic supply support machinery, based upon predetermined requirements for the type and size of the force involved. This automatic support, later replaced by normal requisitioning procedures, based upon actual and rapidly changing requirements, was rated effective in all respects.

NEW URGENCY

Experience in Vietnam and the recent approval of the Army's first Airmobile Division have given a new sense of urgency to AMC's development of new Army aircraft support. In addition to a continuous program to adapt and improve existing aircraft and equipment to meet requirements in Vietnam, AMC has stepped up its research development and procurement activities over the past 12 months to meet the Army's over-all air support needs.

Among major aircraft actions during FY 1965 was the initiation

of multi-year procurement of a new Light Observation Helicopter, climaxing several years of development and intensive competition among top U.S. aircraft producers. The past 12 months also saw AMC's acceptance of the first two XV-5A Vertical Short Take-Off and Landing lift-fan research aircraft for flight evaluation; first flight tests of the XV-9A Experimental Hot Cycle Helicopter; production testing of the M-5 Helicopter Mounted Grenade Launcher, the first weapon developed especially for firing 40mm grenades from helicopters; and the award of project definition contracts for an Advanced Aerial Fire Support System, described as a manned aerial weapon platform equipped with a variety of weapons which would serve as escort for transport helicopters.

Other AMC projects influenced by the Vietnam situation included accelerated conversion of the Albatross, a reserve Navy seaplane tender, into a floating maintenance base to provide major repairs to Army helicopters and fixed-wing aircraft without requiring return to the United States; and the production of new body armor for Army pilots and crewmen, developed by an AMC armor specialist team dispatched to Vietnam to conduct studies in actual combat situations. U.S. leadership in the helicopter field was highlighted during FY 1965 with 21 new world speed and altitude records claimed by the Army.

SUPPORT 80 NATIONS

In addition to supplying U. S. forces at home and abroad, AMC furnished support to 80 nations and international organizations under the International Logistics programs. Deliveries of materiel and supplies through Grant Aid and Military Sales programs during FY 1965 totaled nearly one billion dollars.

During the past year AMC implemented a new co-production program with Italy for the M60A1 Tank. AMC also participated in negotiating an agreement with Germany for co-production of the Iroquois Helicopter. These co-production programs provide for the manufacture in foreign countries of standard U.S. developed items and facilitate their adoption for use within NATO.

Two years ago AMC was assigned to manage the co-production of the M113 Armored Personnel Carriers in Italy. The Italians have now spent in excess of \$15 million in the U.S. for goods and services. To date the Italian-produced M113 is 100% logistically interchangeable with the U.S. produced M113. This factor enhances the Italian participation in

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newly negotiated cooperative logistics support program which will result in an additional expenditure in the U.S. of approximately \$4,000,000.

MAIN BATTLE TANK

Late in FY 1965 one of AMC's most important projects—the United States/Federal Republic of Germany Main Battle Tank — reached a significant milestone. The military industrial and governmental experts of both countries agreed upon a single design concept for the MBT-70 that promises "... a quantum improvement in tank fire power, mobility and protection." This two-nation project, the only one of its kind in the history of the United States, started creating the new tank from scratch in August 1963 when both countries signed a basic agreement calling for a Cooperative Tank Development Program. Shortly thereafter, Maj. Gen. Welborn G. Dolvin was named to manage the program for the United States and support responsibility for U.S. participation was assigned to AMC. Now, with all major differences of opinion and approach resolved by mutual agreement, the two partners are ready to invite other interested NATO Governments to participate in this unique, cost-sharing, arms development program.

Establishment by AMC of the Army/Industry Materiel Information Liaison Office Program (AIMILO) during FY 1965 represented an unprecedented effort to increase competition for the Army's procurement dollar through providing industry with long-range Advance Planning Procurement Information (APPI) on future Army materiel needs. For the first time a Military Service is offering industry projected market information, extending six years into the future, on a detailed, item-by-item basis. The AIMILO program, now being conducted on a pilot test basis, has been enthusiastically received by industry, and has been described by one business executive as "one of the most significant accomplishments in years toward making a truly effective Army-Industry team effort."

REDUCES COST

Through the aggressive exercise of competitive procurement methods in many areas formerly supplied by sole source procedures, AMC reduced acquisition costs by an estimated \$125,000,000 while obligating four billion dollars

for procurement from American industry during FY 1965. Both Cost-Plus-Fixed-Fee and Letter contracts continued their sharp downward trend. CPFF represented only 14 percent of the total as against 40 percent when AMC was organized in 1962. Letter contracts of one million dollars or over were down to 10 from 18 issued the previous year. Competitive procurements, in sharp contrast, continued their steady rise, comprising 42 percent of the FY 1965 budget compared with 39 percent of FY 1964.

Increased use of the multi-year procurement technique, in the purchase of trucks, radios, flame throwers, and other items, has achieved lower acquisition costs, production continuity, and increasing competition by attracting firms not otherwise able or willing to bid on lesser quantities because of high start-up costs. AMC estimates savings achieved through multi-year procurement in FY 1965 at approximately \$10,000,000.

During the past year, AMC also has introduced a program to inject competition into missile system procurements by placing "educational order" contracts with competitively-selected second production sources. After the second source has produced enough "educational" missiles to acquire proven capability, it then will be in a position to bid on future contracts. Only high volume production programs are susceptible to this approach but AMC expects to effect a considerable savings in acquisition costs by applying this procedure to several of its missile programs now entering the production phase.

IMPROVES QUALITY

AMC's continuing drive to improve the quality and reliability of Army weapons and equipment was highlighted over the past year by the widespread application of the Zero Defects concept, a program designed to motivate all personnel, from executives to shop workers, to be more quality conscious. AMC's Army Missile Command, which pioneered the Zero Defects program in the Army, conducted nine Zero Defects workshops over the last 12 months, attended by key representatives of government and industry. Some 60 AMC arsenals, depots and other activities have adopted or are in process of adopting the program, covering more than 133,000 personnel.

Largely through AMC effort the program also has been
(Continued on Page 5)

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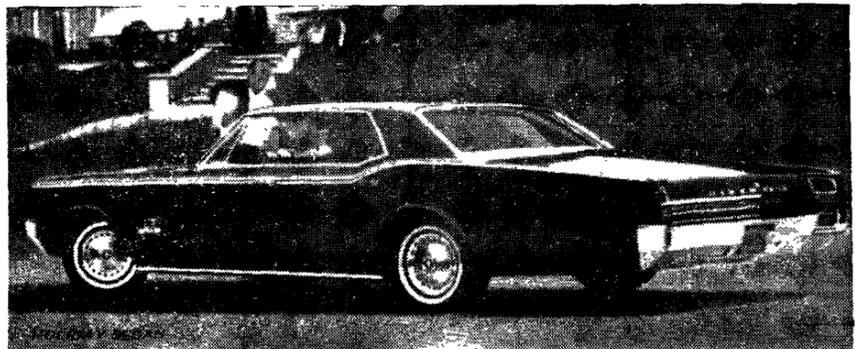
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AMC SETS

(Continued From Page 4)

adopted by over 800 government contractors. Significant accomplishments already are being reported by those AMC activities which have put the program into effect. Frankford Arsenal, for example, reports that the production acceptance rate of brazing operations on a rocket warhead improved from 89.9 percent in February 1965 to 99.2 percent in April 1965. AMC's Army Aviation Command reports that its Zero Defects Program has reduced computer input errors by 50 percent since April of this year, and AMC's Edgewood Arsenal reports a 50 percent reduction in rocket production defects since February.

Success of AMC's unprecedented application of the vertical management concept to approximately half of its procurement and research and development programs has resulted in the addition during FY 1965 of five new Project Managers for: Night Vision, Amphibious Lighters, Medium Assault Weapons System (MAW), Tube-Launched Optically-Sighted Wire-Guided Missile System (TOW) and European Tropospheric Scatter System-Army (ET-A). This brings the total of AMC's present Project Managers to 42. Within the past year a special career field has been developed within the Army for civilian personnel engaged in Project Manager activities.

HIGHLIGHTS IN '65

AMC's activity in the missile field was highlighted in FY 1965 by the award of the Army's largest missile research and development contract (\$300,900,000) for continued development and testing of the Nike-X missile defense system.

Progress in developing Nike-X during the past year included the start of actual operations testing the Multi-Phased Array/Radar (MAR), the first announced successful flight test of the Sprint Interceptor Missile, and the first announced SALVO firing of two Zeus missiles at Kwajalein Island.

Other significant actions during AMC's third year as the Army's consolidated source of supplies and equipment include:

Development of a lightweight (44 lbs.) atomic clock which measures time down to a ten-billionth of a second, used for setting of frequencies on radios, tracking of missiles and satellites, and synchronization of radars.

NEW VISION DEVICE

Development of a new night vision device, intensifying natural light from the moon or stars thousands of times, and enabling a soldier to see and shoot enemy targets at night.

Development of a Morse Code Reader, the size of a cigarette pack, that plugs into any Army radio and makes Morse code as easy to read as an electric signboard.

Procurement of 30,000 pounds of irradiated bacon, the first large-scale purchase of irradiated food, for mass field testing by troops in the field. Bacon was the first irradiated food developed by the Army to be approved for consumption by the Food and Drug Administration, which has also approved irradiation of wheat flour (to prevent infestation) and white potatoes (to inhibit sprouting).

ADOPTS COMMON USE ITEMS

Adoption of new common-use items of military design instead of commercial items of varying types, thus increasing competitive procurement and minimizing spare parts and maintenance problems. These range from compression-igni-



POST SOLDIER OF MONTH—PFC Stephen R. Snyder, a student at U. S. Army Ordnance Guided Missile School, won honors as Post Soldier of the Month and was entertained by the community. James Walker, Executive Vice President of the Huntsville Madison Chamber of Commerce, presented PFC Snyder with a gift and letters of introduction to establishments which provided a weekend in the community. PFC Snyder will graduate in August from OGMS as a repairman of Nike System Radar. He is from Ontario, Calif.

tion engines for trucks to air conditioners and generator sets.

Completion of scheduled overseas deployment of a new family of FM radios, four general purpose vehicles, and the Sergeant, Pershing and Hawk missiles.

In an anniversary message to AMC personnel, Gen. Besson, who has headed AMC since its inception in 1962, said:

SUPPORT FOR SOLDIER

"Our support for the soldier in the field—from Korea to Berlin, from the Dominican Republic to Vietnam — is on schedule. The weapons, equipment, and supplies we are providing are worthy of the men who use them. This is no time, however, to rest upon our laurels. As the pace quickens, the mounting demands upon

June Purchases Total \$23 Million

Army Missile Command purchases and orders during June totaled more than \$23 million for the goods and services that support the Army's missile and rocket programs.

Firms in the Southeast received more than \$3 million, with the largest share spent in Alabama. More than \$2.5 million went to Huntsville companies, a quarter of a million to Birmingham, and the remainder was about equally divided between other concerns in Ala-

bama cities and those in several southeastern states.

All types of supplies for offices and laboratories, food, clothing, machine repairs, building and grounds maintenance are among the items covered by the orders.

The \$23 million does not include the contracts for a million dollars or more awarded to missile prime contractors and major subcontractors for research or production work on missile and rocket systems.

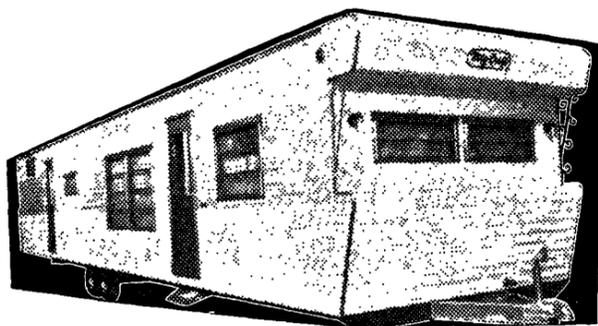
The Missile Command Procurement and Production Directorate and the Army Missile Support Command Purchasing and Contracting Division handle the negotiation and administration of the hundreds of awards that make up the \$23 million.

our skills and experience must be met by each of us with determination, dedication, and with a real sense of urgency."

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Dog Days Require Precaution By Pet Owners

Dog days are back again. On Tuesday and Thursday between 1 and 4 p.m. the veterinarian at Redstone Arsenal is busy, busy, with the pets of military families who are renewing immunizations, or vaccinating the animals over three months old. He works on pets by appointment only.

The prime duty of the veterinarian is the prevention of communicable diseases which keeps him busy inspecting all perishable food items that enter the arsenal. His records show the source and the condition on arrival of everything that is served or sold on post.

That is why he must keep strict hours in dealing with pets of the military and their dependents. Post regulations forbid taming wild animals, so his practice is more or less confined to the dog and cat population. Distemper shots are recommended when the pet is six weeks old.

Dog days also hit the pets in town. State law requires immunization of all pets on a household's premises. According to one of the authorities in the Madison County Department of Health, under the law any animal that remains on the premises and adopts the family is legally theirs even though they haven't sought him as an addition to the family. For instance, an abandoned animal which eats and sleeps on the premises because the individual is

permissive, is legally owned by him. And the deadline for his immunization under the law is Sept. 30, just like the pedigreed breeds the owners sought.

Lt. Phillip D. Standley is the Post Veterinarian. He is a graduate from Iowa State University at Ames and his interest in veterinary work probably started while he was growing up on a farm near Boone.

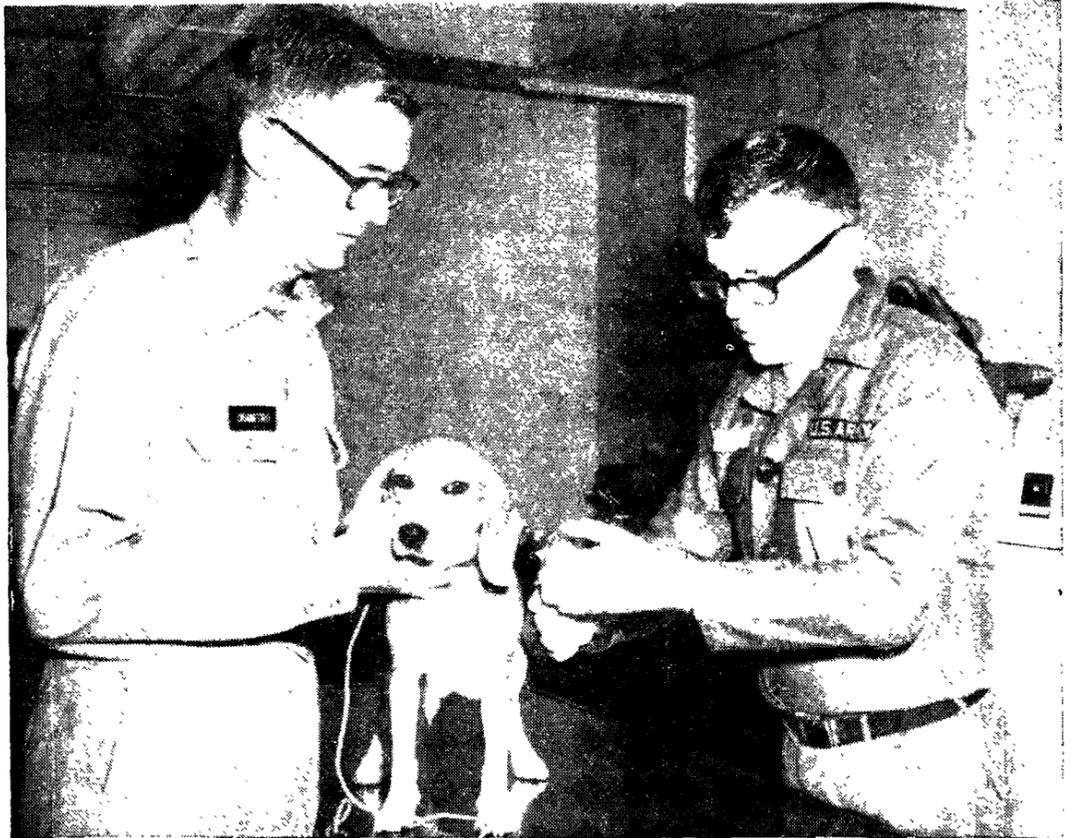
The military regulations include the protection of health and welfare of the troops and control of transmissible diseases from animal to man as the primary concern of the veterinary corps.

But his work don't stop there. He keeps a roster of all pets. Post Regulations require owners to register the pet within 72 hours after bringing it on post. A rabies shot automatically registers the pet with the veterinarian and the Provost Marshal.

The regulations also stipulate that no dogs may run at large and if one is not under the direct control of an individual, the Military Police are to pick it up. If the MPs do, the animal is held for 72 hours, and if it is not claimed by then; the veterinarian must dispose of it. No pets are allowed in the BOQs.

The lieutenant has three enlisted men working with him. SP5 Patrick Rishor, a native of Kellogg, Idaho, recently transferred to Red-

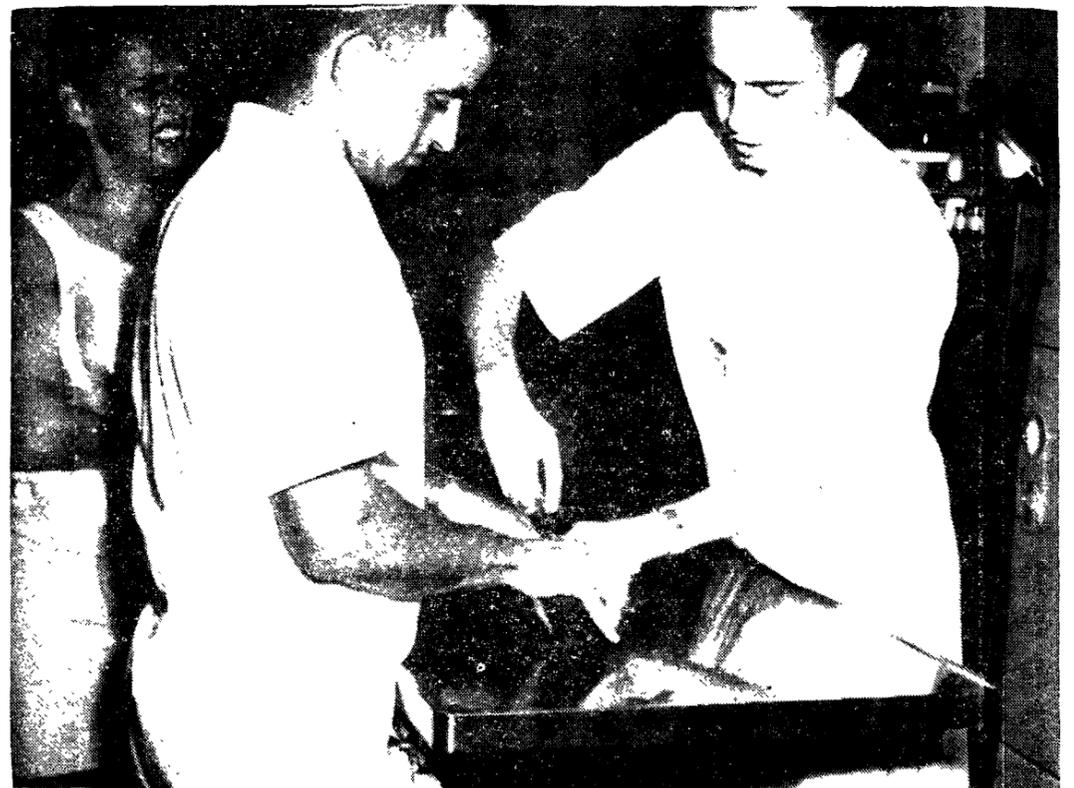
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RABIES SHOT—Major C. R. Cranford, Jr., holds Maggie, the beagle, while SP5 Patrick Rishor administers a rabies shot. The Major also brought Maggie's six-weeks-old son, Lightning, for a distemper shot. Lightning resembles his father, Gaston, in that he has black curls like a poodle.



KITTENS NEED IT TOO—Dr. Standley gives the kitten of Mrs. Henry Meincke a distemper shot. The veterinarian is a firm believer in preventive medicine instead of nursing a sick pet.



IT HURTS—Mrs. F. L. Angell braces for the shot being administered her chihuahua by PFC James R. Wilkinson and Dr. Phillip D. Standley, Post Veterinarian at Redstone Arsenal. Pets are immunized between 1 and 4 p.m. on Tuesdays and Thursdays by appointment with the veterinarian.

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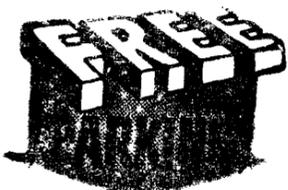
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DISTEMPER PREVENTION—Mrs. Gary Schuler watches her son's pup receive his first distemper shot under the steady hand of Dr. Standley and PFC Wilkinson. Wilkinson plans to continue his studies in veterinary medicine when he completes his Army tour.

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DOG DAYS

(Continued From Page 6)

stone Arsenal from Schofield Barracks, Hawaii.

PFC James R. Wilkinson was studying pre-veterinary medicine and completed two years at Canton (Illinois) Junior College before he joined the armed forces. He intends to continue his studies when he is released from active duty but hasn't decided specifically where yet.

Sp5 J. C. Cather is from Winchester, Va. He came to Redstone from the Brooklyn Army Terminal and before that he was stationed in Korea with a Guard Dog Unit.

To complete the staff, Myrtle Artrip is on the reception desk to schedule the doctors appointments and keep the records straight. She came to Huntsville from Anniston, Ala. In addition to helping with the pet activities, she keeps the food inspection records.

The lieutenant has been kept so busy in the dual role of food inspection and preventive measures to control communicable diseases between animal and man and vice versa that he has had little time for hobbies. His pet beagle has a story. Polly has lived in their quarters longer than the Standleys. Her former owner went overseas and gave the dog to Standley while they were living in town. When the family moved on post Polly was back in the same quarters her former owner occupied.

Four Systems Represented By Missile School Grads

The full spectrum of curriculum at the Ordnance Guided Missile School was represented at Friday's graduation in the Post Theater as 51 students from the U.S. Army, Germany and Turkey received certificates in courses on all four missile systems taught at the school.

Maj. Leo P. Hobbs, co-ordinator of future missile systems in the Directorate of Research and Development, Army Missile Command, addressed the 47 U.S. Army enlisted men and two enlisted men each from Greece and Turkey.

At least one class from each system was graduated along with a basic course in ballistic missile helpers.

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SOCIAL ^{and} CLUB EVENTS

Mrs. Astor Wins Bridge Competition

Mrs. Raymond L. Astor won the bridge competition sponsored by the Redstone Arsenal Officers Wives Club at the Officers Open Mess Thursday.

Second high among the eight tables of players was Mrs. W. N. Blackmon with Mrs. Gregg Ogden in third place. Mrs. Glenn Keith was low.

Reservations to play with the group are handled by Mrs. A. J. Matthews.

Gatewoods, Mrs. Cobban Mrs. Tyson Win At Bridge

Winners at Monday night bridge last week at the Redstone Officers Open Mess were both women: Mrs. M. F. Gatewood and Mrs. A. M. Cobban, the latter playing in place of a man.

Second were Mrs. J. F. Tyson for the women and CWO M. F. Gatewood, for the men.

Reservations to play with the group are handled by Mrs. Ray-

Butler To Present 'South Pacific'

Butler High School's Summer Music Theater will present the Rogers and Hammerstein musical, "South Pacific" Thursday, Friday and Saturday nights this week at Huntsville Stadium. Curtain time is 8:15 p.m.

The cast represents students from schools in Huntsville and includes students from Huntsville High, Lee High, Huntsville Junior High, Westlawn, Whitesburg, Blossomwood and Randolph as well as adult players.

The cast numbers 75. James Goodman and his 40-piece orchestra will play. Stage director is Charles G. Tedford.

Tickets are on sale at Traylor Music Co., Hilding Holmberg's Mens Wear, and at the Butler High School Office. Mail orders may be arranged by calling 539-6396.

The cast is headed by Jane Wyatt and Nick Belloto.

mond Astor, 877-4167 and Mrs Peter Kostoff, 877-4634.



OGAS WIVES' COFFEE—Mrs. Erwin M. Graham (second from right) and Mrs. Hobart V. Smith (right), wives of the commandant and assistant commandant of the Ordnance Guided Missile School, received wives of officers at the monthly coffee at the Officers Club. Mrs. Aiden Cox, Mrs. Claudine Bacher and Mrs. Jean Jackson are shown, left to right, in the receiving line. The coffee was arranged by the wives of the officers from the Directorate of Individual Training at the School.

ALL ABOUT DECATUR

The Decatur Business and Professional Women's Club has released a revised edition of "All About Decatur."

The publication contains 76 pages of facts, figures and information useful to newcomers in the area as well as oldtimers. It is available for \$1.50 from members

of Decatur BPW, the Decatur Chamber of Commerce and newstands.

Mrs. Louise Julick, secretary to Brig. Gen. Charles W. Eifler, Deputy Commanding General, Land Combat Systems, U.S. Army Missile Command, was chairman of the BPW committee having responsibility for publishing "All



CAKE CUTTING—Mrs. Domenick Muffi, wife of the Marine Liaison Officers at the U.S. Army Missile Command for eight months past, cuts the cake provided for her farewell party at the Redstone NCO Club. Mrs. Johnny Pierce spearheaded the party attended by about 30 wives of Marines studying missilery at Redstone Arsenal's Ordnance Guided Missile School. Mrs. Pierce was assisted by Mrs. Melvin E. Banes in preparing for the party. Mrs. Muffi plans to live with her mother in Pittsburg, Penna., while Capt. Muffi serves in Viet Nam with a Marine Hawk Battalion.

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LONG WAIT ENDS—Capt. Antonio Santoro welcomed his wife of four months to Huntsville at the Huntsville Madison County Airport Friday night. He had not seen her since two months before their marriage by proxy last April. He is a student at the Ordnance Guided Missile School and also serves as Italian Air Force liaison officer.

Italian Bride Joins Husband At OGMS

More than four months ago months. Capt. Antonio Santoro was married and Friday night saw his bride for the first time in six months. The Italian Air Force liaison officer at the Ordnance Guided Missile School was married April 10

by proxy to Paola Larese in a dual ceremony separated by more than 2,000 miles and his wife came to Huntsville after completing her work for a doctoral degree at the University of Pisa in Italy.

She arrived at 7:33 p.m. at the Huntsville-Madison County Airport and the couple re-enacted the wedding ceremony in a private service shortly thereafter.

The unusual circumstances for their wedding were due in part to her academic studies and in part to an old military obstacle, red tape, which apparently knows no nationality.

"We could not be married before I left," Capt. Santoro said,

system at OGMS.

"because it takes longer for an Italian officer to get permission to be married than for an American. We must have the signature of the president."

Also, he added, "we decided that she could not come to this country until she had completed her studies." Paolo finished her university requirements July 10, taking a doctorate in natural sciences. They had met at the University two and a half years ago when Capt. Santoro was studying nuclear physics there. He is also a graduate of the Italian military academy.

Capt. Santoro pointed out that after he received his orders assigning him to the Missile School there was not enough time to arrange the wedding and obtain permission to be married. So the proxy ceremony was arranged.

Saturday night a group of liaison officers from some of the Missile School's other 12 foreign representatives gave the couple a wedding party. Then Capt. and Mrs. Santoro settled in an apartment at 3710 McVay until he completes his study of the Hawk air defense

Capt. Santoro is now in the basic electronics phase of training at the School and later will be assigned to an advanced course on the Hawk, which is a standard weapon in Italy and the North Atlantic Treaty Organization. He will be at the School at least eight more months, as his orders now stand, he said, and possibly longer if he is assigned to another course.

For Mrs. Santoro this will be a second link to Redstone Arsenal. Several years ago her father, Col. P. I. Larese, was at the Missile School with an Italian detachment studying the Jupiter missile, which has since been assigned to the U.S. Air Force. Col. Larese is presently assigned as chief of the public information office at a military base in Vincenza, Italy.

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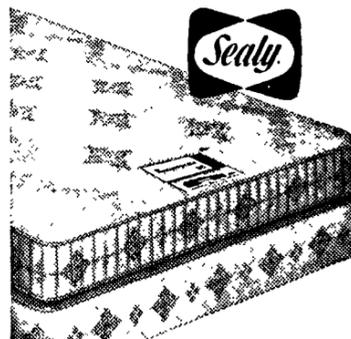
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Unit Level Hitters Hold The Balance of Power

According to the experts softball is supposed to be a pitcher's game, but you would never know it to watch a few Unit Level League games. In this league the story is more, "Woe the poor pitcher."

For in the great majority of the recent games the winning team, and in many cases the losing team too, has scored ten or more runs. In ten games played in the league last week the winner scored ten or more runs seven times.

The Officers set the pace for the week when they increased their first place margin to two full games with a 13-11 win over Hq, STC, as Dan Bowlus hit his fourth home run of the year.

1st ETC surrendered their hold on second place when they split a pair of games during the week. In the opener they dropped a 4-1 decision



SAFE AT FIRST—3rd ETC outfielder, Andy Martin, legs out an infield tap for a hit as MP first baseman Bill Armstrong awaits the throw. Martin's hit proved to be of little avail as the hard hitting MP's took a 14-4 win.

West Point Grads Invited To Game

Army and University of Tennessee football teams will open their seasons with an intersectional game in Neyland Stadium, Knoxville, on Saturday, Sept. 18.

The West Point Society of Tennessee has released information to all area Army Football Team supporters about obtaining game tickets and inviting them to a dutch treat, after-game, social hour.

According to the release, tickets have been sent by the University of Tennessee to West Point for seating Army supporters together. Orders should be placed with the Army Athletic Association, U. S. Military Academy, West Point, N.Y.

The announced closing date is Aug. 7, but orders received after that date will be filled on a "tickets available" basis. Checks should be sent with orders on a basis of \$5.50 per ticket plus 50 cents per order for handling charges. Members of the Army Athletic Association should use forms already provided. Non-members may order by letter, enclosing certified checks.

The West Point Society of Tennessee has arranged for a "dutch treat" social hour for West Point Alumni and Army supporters from 5:30 until 7:30 p.m. in Johnson Hall, Andrew Johnson Hotel, 918 S. Gay Street. Guests are welcome and \$3.00 tickets may be purchased at the door.

The Society asks that persons planning to attend the social hour send mail notification to: West Point Society of Tennessee, P. O. Box 356, Knoxville, Tenn., as soon as possible.

Arsenal Golfers Seek Army Title

The Redstone hopes in the 3rd Army golf tournament opening at Ft. Jackson next Monday will ride with a quartet of Open Division shooters and another who will be trying to capture the Senior Division crown.

The five earned the right to compete in the Army meet in a rain-marred qualifier played during July over the Arsenal fairways. After playing three rounds despite intermittent rains, the golfers saw the final 18-holes cancelled when the course became unplayable.

Heading the Redstone delegation in the Ft. Jackson meet will be Rod McIver who toured the 54 hole route in 237 strokes. Close behind the leader were Dick Rhoades with 239 and Dave Chenuault at 243.

The final slot on the Open contingent went to Erie Benentt in a playoff with Hal Seal after the two had tied at 245. Paul Ward captured the Senior Division berth.

pair of sixth inning tallies kept the 3rd springing a big upset.

Among the high scoring affairs was a pair of wins fashioned by the hard hitting MP team. The MPs started the week with a 14-4 win over 3rd ETC and ended it with a 15-5 trouncing of 4th ETC.

The 4th got some measure of revenge when they handed the hard-pressed MICOM nine a 11-5 setback. The latter also came out on the short end of a 12-3 score with Company A.



INSURANCE RUN—Mike Wolfe completes the circuit to score the third run for the 2nd ETC as his mates held on for a 4-1 win over 1st ETC. Wolfe doubled to score two runs and then continued on around on an outfield error. The loss was a serious blow to the losers who went into the game trailing the leading Officers by a single game.

Fisher Drops Out of All-Army Meet

Lt. Perry Fisher's bid to capture an all-Army tennis title came to an end last week when the Calibration Center officer was eliminated in both the singles and the doubles of the San Antonio, Tex., tournament.

The Redstone netter was playing in the all-Army meet as a member of the 3rd Army team. Fisher had captured runner-up honors in the 3rd Army meet at Ft. Stewart, Ga.

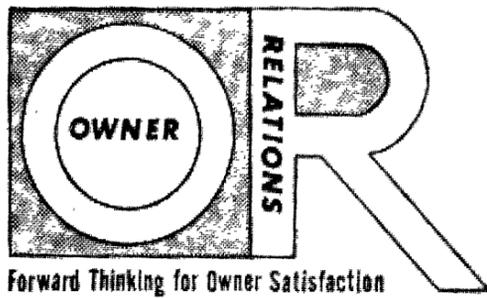
Fisher captured his opening sin-

gles match when he took a 6-2, 6-3 win from Capt. Jim Hunter from the Canal Zone. However, in the second round he ran into Lt. Dale Schweikert and was eliminated by a score of 6-2, 6-2.

The one-time Cornell University netter was teamed with Spec. John McGill of Ft. Benning for doubles but the pair ran into John Harrison and Ted Hoehn, the tournament favorites from the 1st Army in the first round, and were defeated, 6-3, 6-2.

Harrison, a PFC assigned to West Point, is the defending champion in the meet and was heavily favored to repeat this year.

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Rockets Capture Third Win On Ramsdell's Five-hitter

Backing the skillful twirling of Jim Ramsdell with an airtight defense and a nine-hit attack, the Redstone Rockets handed the visiting Patock, Ala., Independents a 7-2 defeat at Linton Field on Friday night. It was the third win in seven starts for the Arsenal nine.

For the second consecutive outing the fast balling Ramsdell had little trouble with the opposition once his mates gave him a working margin. However, this time the runs were later than usual in coming, forcing the right hander to battle all the way.

The visitors scored first in the opening inning on a pair of singles and an outfield fly, and added another marker in the third on a double and a single.

The Rockets matched them with a pair in the second and then broke the game open with five counters in the big seventh, after going down in order for four straight innings.

Bob Seegar started the second inning rally with a double, scoring on a long triple into the left field corner by Ron Loser. The latter crossed the plate as Alvarez grounded out.

The winning rally got started by Pete Carruthers when he was nicked by a pitched ball. Alvarez was also hit and Dave Rosado reached on an error to load the bases. Irv Lyles promptly unloaded them with a long double to the fence in left center.

Dave Herb kept the rally going

with a single scoring Lyles and Ron Loser completed the rally with a triple scoring Herb.

Ramsdell struck out 12 of the visitors and walked a single batter in hanging up his win. Dave Evans toiled all the way for Patock and struck out 13 while passing 4 and hitting two.

CIVILIAN SOFTBALL SECOND HALF STANDINGS

Pershing Project	4	0
*Fin & Acc	3	1
Communications	3	1
Computation Lab	3	1
Proc & Prod	2	2
Data Processing	2	2
Struc & Mech Lab	2	2
Propulsion Lab	1	3
Documentation	0	4
Nike X Project	0	4

*First Half Winner

LAST WEEK'S RESULTS

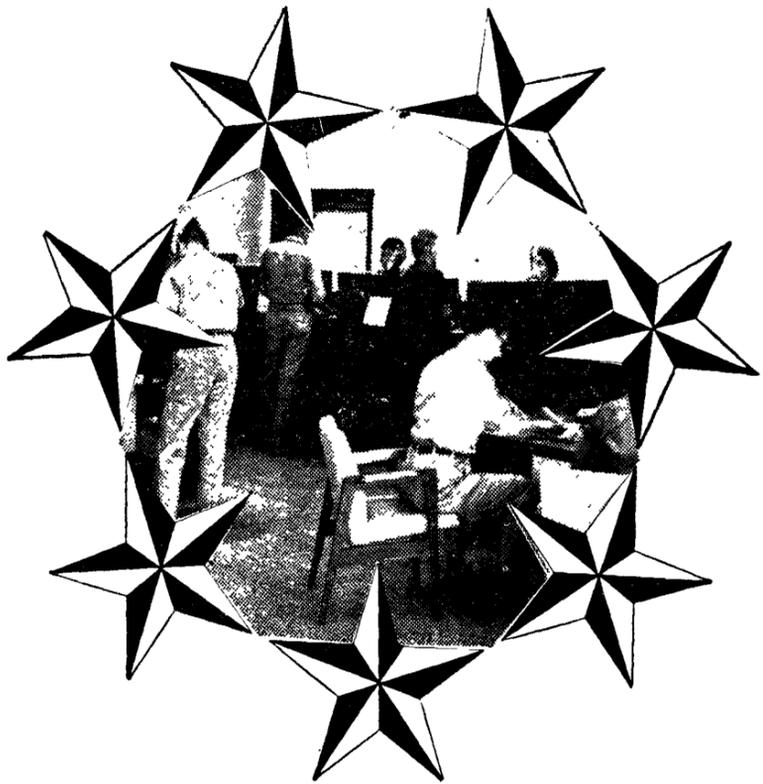
Comp Lab 14—Documentation	7
Fin & Acc 10—Pro & Pro	5
S&M Lab 28—Dat Proc	16
Communications 16—Nike X	0
Pershing 13—Prop Lab	12

JUNIORS TO QUALIFY

Junior Golfers must complete three 9-hole rounds and turn in the score at the Golf House in order to qualify for the tournament scheduled Aug. 26-27.

Juniors in the tournament will be matched in flights according to qualifying rounds.

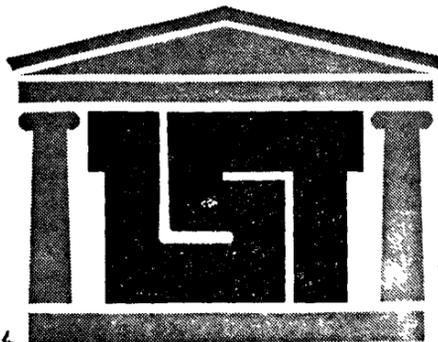
The tournament will be a 27 hole competition with 18 holes the first day and 9 the second.



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Morgan City, Ala. — 498-2525

Missile Components Has Top Instructors At OGMS

To be named the outstanding instructor from among 380 enlisted instructors at the Ordnance Guided Missile School is quite an accomplishment. But when Sp/5 William C. Gary was named outstanding instructor of the quarter for the second quarter of 1965, he became a part of another unique accomplishment.

For the sixth time in the last seven quarters the selection board, composed of chiefs of the major directorates, Office of Operations, and School Troop Command, selected an instructor from the Missile Components Department of the Directorate of Individual Training. Commanded by Col. Zacarias F. Rael, the Directorate is comprised of the Officer's Training Department, the Air Defense Department, the Artillery Department, and the Missile Components Department and provides training in 25 officer and enlisted missile support courses for over 3,400 U.S. and allied students each year.

The Missile Components Department, under the direction of Maj. P. C. Kostoff, teaches fundamental electro-mechanical, electronic, radar, and computer subjects to all students prior to their study of more specialized training in one of the other departments within DIT.

Sp5 Gary teaches basic electricity in the department's Electro-Mechanical Division and draws upon experienced gained during seven years' service as a Corporal missile repairman and instructor in aircraft armament at the Ordnance Center and School, Aberdeen Proving Ground, Md. Besides instructing a minimum of 20 hours a week, Sp5 Gary trains new instructors, counsels students with academic difficulty, writes lesson plans and study guides for the basic electricity block, and is responsible for the maintenance

of equipment in three classroom/laboratories.

To earn the right to represent the department, he had to be selected instructor of the quarter from among 180 instructors in six teaching branches of Missile Components Department. Sp5 Gary was presented a \$25 savings bond, plaque, and letter of commendation by Col. Erwin M. Graham Jr., U.S. Army Ordnance Guided Missile School.

Movie Schedule

WEDNESDAY, August 4
 "Die, Die, My Darling" (M)
 THURSDAY-FRIDAY, August 5-6
 "What's New Pussycat?" (M)
 INCREASED ADMISSION: adults 50c, children 25c
 SATURDAY, August 7
 "The Brigand of Kandahar" (M-YP)
 SUNDAY-MONDAY, August 8-9
 "Harlow" (M)
 TUESDAY, August 10
 "Love Has Many Faces..." (M)
 Two shows nightly at 6:00 and 8:30 p.m. Saturday matinee at 1:00 p.m. Sunday matinee at 2:00 p.m.

At The Service Club

By BETTY HAYES

Attention EM Council Members! Let me remind you of the meeting today at 2 p.m. Programs for the fall and the winter seasons will be discussed including a Monte Carlo Night and a Ladies' and Men's Fashion Show. Other ideas for future activities will be welcomed.

The evening of games will be held tonight at 8 p.m. Since the Union Barrack-Ades Show was held Monday night. Come out tonight and try for the prizes.

Do you enjoy playing card games? If you do, join other Enlisted Men for card night on Thursday at 7:30 p.m.

The big contest for this week is shuffleboard. Because many of you spend your leisure hours participating in this game, why not try your skill in the contest Friday at 8 p.m.

Tasty refreshments will be served during your visit to the Service Club Saturday at 3:30 p.m.

Sunday coffee and donuts will be served at 9 a.m.

The Junior Hostesses will meet at 7 p.m., an hour prior to the dance Sunday. We need your suggestions for future Service Club programs.

Dance Craze is the theme for the dance Sunday night. The Kings Men will furnish the music for the

occasion.

Play an evening of games once again at 8 p.m. Monday. Lots of fine prizes will be given away.

Bridge night will be held Tuesday at 7 p.m. We have quite a few who attend. Why not join us?

Richard Bowers, Marine Detachment, was the pool champion for July.

Did you enjoy the South Seas Island Music Dance featuring the Count Downs? Now that was a ridiculous question to ask since a capacity crowd of Enlisted Men and Junior Hostesses really swung to the fabulous sounds of Smithy, Jim, Mac, and Kirby. This talent-

ed group will play for the Hepcats Sounds Dance on Sunday, August 29. Remember this date because I am sure that you will agree with me that this will be an event worth keeping in mind.

A big event for next week will be a watermelon cutting. Check this column for more information.

See you at the Service Club.

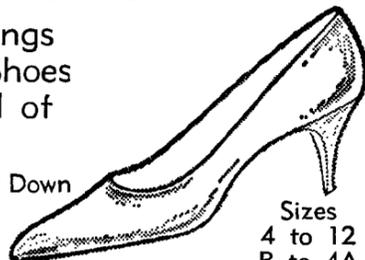
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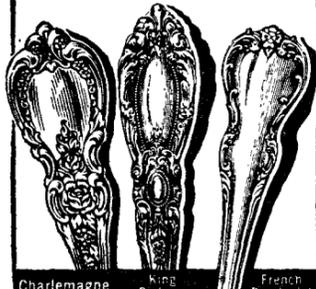
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Rarefied Gas Dynamics To Be Taught At Center

A short course in Rarefied Gas Dynamics is being offered by the University of Alabama at the Huntsville Campus, Aug 9-13.

This course deals with gas dynamics in the flow regimes where the mean free path of molecules approach or exceed the characteristic dimensions of the apparatus or vehicle. This includes areas of high vacuum systems, high altitudes and space probes, and leading edge effects in hypersonic flow.

The course includes the kinetic theory of gases and the physical aspects of the molecular flow of gases, and is expanded into the free molecular, slip flow and hypersonic flow regimes.

In general, attendees should have a good background in thermodynamics, mathematics, and flu-

Births At Post Hospital

Michelle Lee Trahan, July 21, daughter of Mr. and Mrs. Armand A. Trahan.

Claudia Angela Wiessner, July 21, daughter of Mr. and Mrs. Karlheinz Wiessner.

Loretto Jeanne Eagle, July 26 daughter of Mr. and Mrs. John S. Eagle.

Edwin George Van Valkenburg II, son of Mr. and Mrs. Edwin G. Van Valkenburg.

Steven Ray Mottern, son of Mr. and Mrs. Edward S. Mottern, July 27.

Kimberly Ann Shaw, July 28, daughter of Mr. and Mrs. Richard A. Shaw.

Kimberly Janine Moody, July 22, daughter of Mr. and Mrs. Larry G. Moody.

id mechanics. The level should be equivalent to or above a mathematician engineer with a Bachelor of Science Degree.

The lecturers are Dr. Walter J. Schaeztle, Associate Professor of Mechanical Engineering, University of Alabama and Dr. Roger Willis, Assistant Professor, Division of Aeronautics Science, University of California, Berkeley.

This course is being conducted by the Extension Division of the University of Alabama.

Anyone interested in obtaining further information concerning this course or requesting enrollment, should contact Mr. D. J. Kieselbach at the University of Alabama, Huntsville Campus, Box 860 Huntsville, Alabama, or call 837-4700, Ext. 259. Enrollment may be made by individuals or companies.

Big Voice Test Today

A second test of "Big Voice," an outside public address system recently installed by the Army at Redstone Arsenal, is scheduled for this afternoon beginning at 2:30 p.m.

Test of the equipment is expected to run approximately 45 minutes.

When perfected, the public address system will be used for Civil Defense alerts and other emergency alarms. The system consists of several clusters of two to four speakers strategically located on the Arsenal.

Today's test will include voice messages, a siren, pulse and steady tones. The first test of the system a couple of weeks ago revealed that additional testing was necessary to assure that more persons would be reached.

"Big Voice," is being installed by the Communications Division of the Army Missile Support Command.

SAFETY RECORD GOOD

The Ordnance Guided Missile School got the new fiscal year off to a good start by extending its perfect record of military vehicles safety to 13 consecutive months, according to Paul Hodson, safety officer.

During that period, stretching back to the beginning of FY 65, there were no recordable military vehicle accidents at the School.

Hodson cited excellent support from the commandant and faculty at the School for achieving this outstanding record.

NAVY BILLET ANYONE?

If you are a Navy Veteran, either officer or enlisted and live within driving distance of Huntsville, this message is for you.

Representatives of the Naval Air Reserve Training Unit, Naval Air Station, Memphis, Tenn., will be in Huntsville August 5—August 7 to take applications for affiliation with one of the Memphis based squadrons or units. Billets are

available in the Week-end Warrior Program for almost every specialty.

If you are interested in flying with the Navy as a selected reservist, contact a Navy representative at the Naval Reserve Training Center in Huntsville, phone 539-4473. As a convenience, an airlift is planned to operate between Huntsville and Navy Memphis if sufficient interest is shown.



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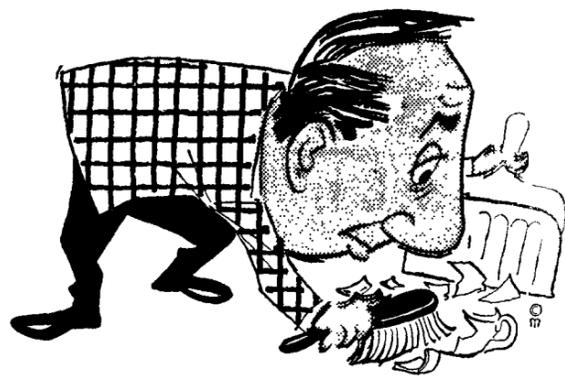
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Page 14 The Redstone Rocket — August 4, 1965

1. For Rent

FOR RENT TO SINGLE LADY — Private bedroom with kitchen privileges in centrally air conditioned home of single lady. Convenient to arsenal. Available Sept. 1st. Phone days 876-1413 after 5 p.m. 881-1819. ttc

FOR RENT—In center of Huntsville. Two beautiful apartments on one acre. Phone Mrs. Brooks: Office 539-0648, Home 881-5752. ttp

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. ttc

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NEW 3 BEDROOM furnished house for rent. 1 1/2 baths, carpet, utility room, hardwood and tile floors, extra closet and shelf space, air condition, built-in oven and stove, central heat, washer and dryer, back yard completely shaded by trees. Close to arsenal. Available August 29th. \$150.00 month. Phone 881-5267 after 6 p.m. or weekends. ttc

3. Miscellaneous

FREE TICKETS to Beale Concert in Atlanta with purchase of guitar and amp. guitars. \$19.95 up Doyle's Music Service, 710 Pratt Avenue, Phone 534-2771. ttc

WESTERN HORSES FOR SALE—Registered Appaloosa and Quarter Horses, trained for roping, cutting and pleasure. "Choctaw Appaloosa Farms" 9 miles west of Decatur on Highway 24. Phone 353-2087. 8-18-c

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4. Mobile Homes

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5. Houses, Lots - Sale

FOR SALE—Brown's Valley Farm, 289 acres Price \$55,000. 150 acres in row crop, 31 acres in cotton allotment, 2 dwellings, barn, overflowing spring runs through entire farm. This farm on Highway 25 7 miles east of Arab, 8 miles south of Warrenton. Contact E. G. Williamson, Real Estate Broker, P. O. Box 41, Cullman, Ala., or phone Cullman 734-6294 days; 734-9190 nights. ttc

14 ACRES—Located 30 miles south of Huntsville, Ala., in city limits of Eva, Ala. Old dwelling. Beautiful building site. Natural lake site. Ideal for retiring couple or part time farmer. Price \$9,000 E. G. Williamson Real Estate Broker, Cullman, Ala., Ph. 734-6294. ttc

GUNTERVILLE LAKE: Lakefront cottage in city limits of Guntersville. Two large bedrooms, two baths, large living room and kitchen, air-conditioned, completely furnished. Large screened porch, overlooking lake on beautiful wooded lot. House only two years old and like new. Total price \$10,500. Can finance with small down payment. FRED TAYLOR REAL ESTATE—PHONE 878-3061 — ALBERTVILLE, ALABAMA. 8-11-c

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Nine Attend Training In Career Development

Nine Arsenal civilians are away from their regular duties this week to attend graduate level training classes in connection with their individual career fields.

The local personnel were selected to attend training sessions through the career development program administered at Redstone by the Training and Development Division of the Civilian Personnel Office.

Four of them are at the University of Michigan, two are attending classes at the U. S. Army Logistics Management Center, and one each are enrolled for courses at the University of California at Los Angeles, the Massachusetts Institute of Technology and New York City's Practising Law Institute.

Coy Jackson and Lawrence Lati-

mer, both of the TOW Project Office, are in Ann Arbor, Mich., this week for the Written Communication for Engineers, Scientists and Technical Writers course. James Noblitt is enrolled for Applications of Computer to Automated Design and David Dillard is taking Fundamentals of Navigation Systems.

Noblitt is employed in the Nike-X Project Office and Dillard works in the Directorate of Research and Development.

Two Supply and Maintenance employees, Enoch Sparks and Billy Tippins, are at the Management Center, Ft. Lee, Va., taking part in the Seminar in Current Army Wholesale Logistics Management Concepts.

Marvin Carroll is enrolled for the Status of Modern Control System

Traffic On Patton Road To Change

Motorists using Patton Road between Neal and Hansen have grown accustomed to two lanes North and one South between 4 and 5 p.m., and now they will reverse the pattern in the mornings with two lanes South and one North at the same 35 mile per hour speed of caution.

The change will be made Monday morning.

A Military Policeman will be at the intersection of Hansen and Patton to direct cross traffic travelling North on Patton and West from Hansen to Patton.

Traffic cones will be used to help guide the motorists into the proper lane. No right turns at Hansei will be allowed from 7-8 a.m.

Motorists turning right into Neal or continuing South on Patton will be permitted to change lanes, as appropriate, between Hansen and Neal Roads.

Maj. Dale Hamilton, Jr., the acting Provost Marshal, has issued a statement asking everyone to use extreme caution in lane changing.

Theory at UCLA, and Gordon Welford is taking Introduction to Optimal Control and Stability of Non-linear Systems at MIT. Carroll and Welford are in the Directorate of Research and Development and both will be gone for two weeks.

An employee of the Office of the General Counsel, Juan Gerala, is in New York this week to study the Uniform Commercial Code at the Practising Law Institute.

Aug. 3, 1861 — The Army retirement system was inaugurated on a limited scale for officers.

SHAPIRO NAMED ACTING DIRECTOR

Norman M. Shapiro is serving as Acting Director of the Physical Sciences Laboratory of the Research and Development Directorate while the Director, Dr. John P. Hallows, Jr., attends the National War College.

Dr. Hallows was selected earlier this year as the only civilian Army member of the College's

1966 class. He will be studying current problems facing Government policymakers for the next 10 months.

In the absence of Dr. Hallows, Dr. T. A. Barr, Chief, Plasma Physics Branch, is Acting Deputy Director, replacing Shapiro. Charles M. Cason is serving temporarily as Chief of the Plasma Physics Branch.

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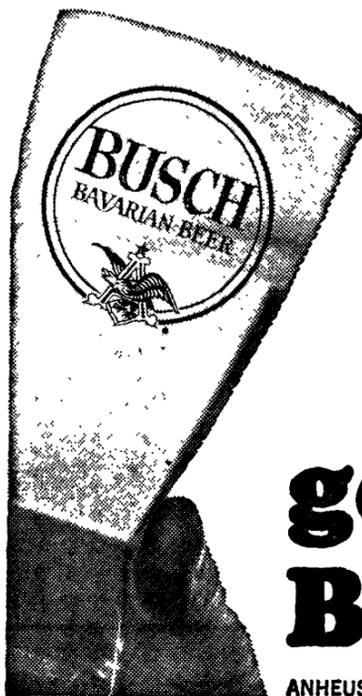
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COL. RUSSELL B. SELL

Col. Sell Joins S&M Directorate

The Pennsylvania contingent of Missile Command officers which includes Generals Zierdt and Eifler among others, added another member last week with the arrival of Colonel Russell B. Sell.

Col. Sell came to Redstone from Korea where he was Supply and Maintenance Advisor to the Korean Army. He has been assigned to the Supply and Maintenance Directorate where he will serve as special assistant to Col. Robert Grote.

A veteran of 27 years of enlistment and commissioned service, Col. Sell began his military career in 1933 after finishing high school in Scranton, Pa. He left the service after four years, but returned with a direct commission in the Ordnance Corps in 1942.

During the war years he served with Gen. Patton's Third Army in Europe and received five battle stars while serving as an Ordnance officer on the Headquarters staff.

Since the war Col. Sell has had two tours with the Office, Chief of Ordnance, spent two years in Puerto Rico as an Ordnance Officer in the Antilles Command, was assigned to Deputy Chief of Staff, Logistics, for four years, and was Commanding Officer of the Birmingham Ordnance District from 1960 to 1963.

During this period he has also completed courses at the Command and General Staff College and the Industrial College of the Armed Forces.

In commenting on his assignment to the Arsenal, Col. Sell said that this is the second time that he had been assigned here, although it is the first time that he actually reported here for work.

In 1960, while assigned to the Deputy Chief of Staff, Logistics, he was reassigned to the Arsenal. However, before he was able to leave his Washington desk, his transfer was changed to the Birmingham Ordnance District.

Gen. Thorlin Retires

Maj. Gen. J. Frederick Thorlin has retired from a 36-year career with the U. S. Army.

The 55-year-old general commanded the White Sands Missile Range from 1962 until his retirement last week.

He was succeeded by Maj. Gen. John M. Cone, Director of Quality Assurance, U. S. Army Materiel Command, effective Aug. 1.

Martin Davis To Participate In Seminar

For the second time, Martin L. Davis, Personnel Management Specialist in the Civilian Personnel Office of the U.S. Army Missile Support Command, has been named by the Department of the Army to be a panel member at the Department's Labor Negotiations Seminar Aug. 10-12 in Atlanta, Ga.

Seven key management officials from Redstone Arsenal will attend the seminar at the Henry Grady Hotel: Joseph F. Rush, Director of Research and Development; Col. B. A. Saholsky, Director of Procurement and Production; Lt. Col. Charles R. Richards, U. S. Army Ordnance Guided Missile School; David L. Balkin, Directorate of Supply and Maintenance; James B. Ellis, Assistant for Logistics Office; Louice W. Wicks, Post Engineer; and James V. Adair, Post Exchange, the last three from the Support Command.

The Seminar is handled by the Dallas Regional Office of the Department of the Army which selects individuals who have previously received training to handle the seminars. Davis completed his instruction in August, 1964 and participated as a panel member in Dallas in January, 1965.

The object is to assist Government agencies in implementing Executive Order 10988 which covers Employee-Management Cooperation in Federal Service.

The Department of the Army sponsors these seminars to cover the entire Army area.

AMENDMENT TO EXAM

The Board of U.S. Civil Service Examiners at Redstone Arsenal has issued an amendment to Announcement No. AT-35-18(64) for contracting and procurement positions such as contract administrator, negotiator, specialist and analyst with grades ranging from GS-9 through GS-12, and for procurement agent at GS-9 through GS-11. The salary range per year is from \$7220 to \$10,250.

The change covers location of positions and certification.

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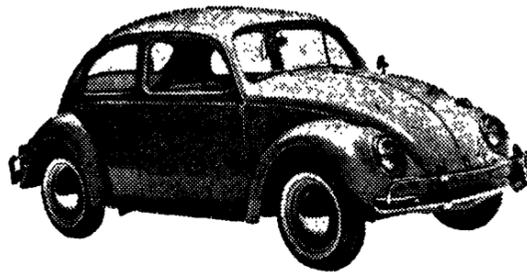


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