

The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA 35809

AUGUST 14, 1968

Arsenal-Wide

Spot News

Dial 112

TOW Missiles Score Bull's-eye At Fort Benning

FORT BENNING, Ga. — Army gunners at the Infantry Test Board have concluded service tests with a powerful new tank killer being developed for them.

At the conclusion of tests at Ft. Benning last weekend, soldiers fired six TOW missiles. All missiles, equipped with live warheads, scored direct hits at maximum range.

These service tests normally precede acceptance and production of a new weapon by the Army.

TOW Project Office officials at the Army Missile Command said several test objectives were involved in the firings. One test was for missile ruggedness.

Before they were fired, missiles were dropped from a transport plane at Fort Bragg, N. C. Some of the missiles were strapped aboard an Army "Mule" and parachuted to the ground. Others were loaded on a platform and dropped in a re-supply mode.

Missiles were dropped with warheads.

During firing exercises, two dual (See MISSILES on Page 3)



DEVELOPMENT STAFF—Top officials of the Army's newly-established Nike-X Development Office (NXDO) and the Commanding General of the U.S. Army Sentinel System Command are shown during an informal observance of the official activation of the new organization: (from right) Brig. Gen. I. O. Drewry; Julian Davidson, NXDO Director; Norman Buchholz, NXDO Deputy Director; and Lt. Col. Johnie B. Spruiell, NXDO Commanding Officer and Assistant Director.

Plan 1969 Campaign

Representatives Discuss CFC Drive

Representatives of fourteen Federal agencies in the Huntsville area got together here on Monday and laid the groundwork for the 1969 Combined Federal Campaign in support of needs of various welfare and social service organizations.

They established the aims and objectives for the annual fund-raising crusade and set the mechanics for the solicitation appeal to some 22,000 Federally employed personnel.

In opening the organizational meeting, Maj. Gen. Charles W. Eifler, general chairman of the campaign, said, "Federal personnel in the Huntsville area have traditionally responded generously to the annual appeal for contributions to support the humani-

tarian service being accomplished by many local agencies and those that work nationally and internationally."

The Commanding General reviewed briefly past campaigns and said that over \$1.6 million has been turned over to the charitable organizations since the single-solicitation concept was inaugurated in the Huntsville area in 1965.

In the drive last year voluntary donations and payroll deductions totaling \$420,306 were raised with \$294,348 going to the Huntsville-Madison County United Givers Fund.

The National Health Agencies received \$56,946 from the 1968 CFC and the International Service Agencies were allotted \$10,169.

The remaining funds were designated for the United Givers Fund agencies in 17 Alabama and Tennessee counties and communities.

In excess of 95 per cent of the Federal work force made contributions to the 1968 CFC with donations averaging \$19.77. Local area personnel rated among the highest in the nation both in par-

(See PLAN 1969 on Page 3)

Review Classes Planned For Engineering Exams

Two general engineering review classes designed to aid engineers in preparing for the Alabama Professional Engineering Examination will be held beginning Sept. 9, 1968, at the University of Alabama in Huntsville.

Each class of 25 students will meet Monday, Wednesday and Friday evenings each week for ten weeks.

The Training and Development Division, Civilian Personnel Office, reported this week that 375 civilian engineers of the U. S. Army Missile Command are registered professional engineers, out of a total of 1160.

Maj. Gen. Charles W. Eifler has urged all the engineering employees in his command to obtain their professional licenses.

Registration gives recognition to the Army engineer and adds prestige to him as an individual and

to the command he represents. It constitutes a certification of his qualifications to practice.

Applicants for the review courses at the University of Alabama will be enrolled on a first-come, first-served basis and all interested engineers are urged to make immediate application to

(See REVIEW on Page 3)

Col. Jean To Host Boy Scout Officials

Col. J. N. Jean, director, Arsenal Support Operations Directorate, will host the Tennessee Valley Council, Boy Scouts of America, Roundup planning meeting tonight at the Arsenal's picnic area No. 1.

For the third year Col. Jean is heading the annual Scout Roundup for the council. The barbecue supper tonight will begin the drive to increase Scout unit efficiency and membership throughout the Council's eight districts in Northeast Alabama. The Roundup will end in November, following which Col. Jean will host the awards ceremony that is expected to draw approximately 2,500 eligible Scouters.

Scheduled to make a presentation of Republic of Vietnam Committee training program tonight is Capt. David J. Murray, of the U. S. Army Missile & Munitions Center and School. In addition to Capt. Murray, those participating with the district kickoffs at later dates will be Maj. Charles W. Peters, Maj. James L. Buckner, Capt.

(See COL. JEAN on Page 3)

55th Army Band To Play Sunday

The 55th Army Band will present a public concert Sunday at the Army Missile Display area. There is no admission charge.

The concert will begin at 2:30 p.m. The bandstand is located near the display area just south of the intersection of Bob Wallace Avenue and Jordan Lane.

The Huntsville Youth Band will give a concert at the same location on August 25.



NEW ARRIVALS—New officers assigned recently to the Huntsville Division of the U.S. Army Corps of Engineers are Col. Roy Kackley (left) and Col. Robert McBride. The two will serve as assistant division engineers to Brig. Gen. R. P. Young in construction of facilities for the Sentinel Ballistic Missile Defense System. Col. Kackley will be charged with supervision of work in the central United States, and Col. McBride in the west.

Blood Donations Accepted Today

The Red Cross Bloodmobile will be on the Arsenal today between 8:30 a.m. and 2:30 p.m. at Building 7110.

A second visit is scheduled for August 23 at the Post Service Club, building 3711, between 11 a.m. and 5 p.m. This second visit is primarily for the troops at the Missile and Munitions Center and School, but anyone who is unable to donate today is invited to donate August 23.

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., 35809 Bldg. 5250, Room A-136, Extension 876-1400 or 876-1500.

All advertising copy and payments therefor are received by Mrs. Vergie Robinson, P. O. Box 346, Huntsville, Ala., 35804, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wanteds—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 \$7.42 a year, or \$4.00 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Huntsville, Ala. 35640.

Rocket Ruminations

Learn the right
Of coining words in the quick mint of joy.
—Leigh Hunt

The Miracle Mileage Ingredients

There you sit—it's 95 in the shade, the motor is overheating, you're 20 minutes late for dinner and the gas gauge is getting closer to empty. You've been sitting there for 10 minutes trying to get into the line of traffic or make a turn, or get across the intersection. But no luck—the cars keep coming. It looks like some of them even speed up a little when they see you waiting there and you're sure a few of the drivers grin sadistically at you as they whiz by, leaving you sitting there.

Then suddenly a driver slows down, giving you the nod to go ahead; one driver out of all those—how many hundred who refused to give you a break—with some manners.

What happens to all the nice guys who play baseball with their kids and send flowers to their wives? Don't



they drive automobiles? And what about the nice little gray-haired ladies that like cats and give cookies to all the neighborhood kids—don't they drive?

Sure they do—you just don't recognize them anymore. As soon as these otherwise nice people get behind the wheel of their "Supersonic 86's," their personalities change to a combination of Mr. Hyde and Ho Chi Minh.

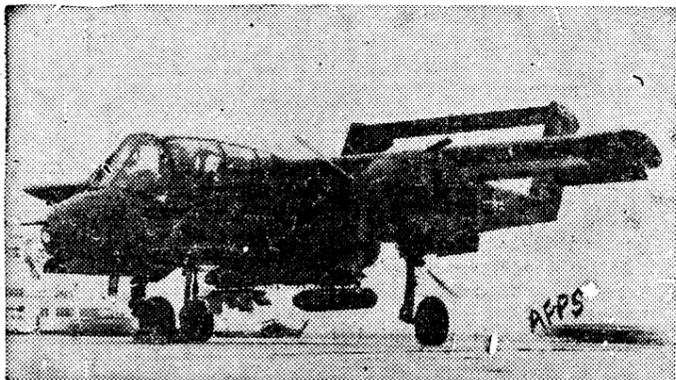
They forget all about common courtesy and good manners and revert to the primitive outlook of survival of the fittest.

It makes little difference to them that by showing a little courtesy and consideration for other drivers on the road, they would help make driving—even during rush hours—more enjoyable for everyone. They fail to realize that slowing down to let one or two cars feed into a line of traffic isn't going to cost them more than five or ten seconds.

They also don't stop to think that they might be the ones waiting to get into traffic the next time. Then they would appreciate a little consideration by other drivers.

But, it's a vicious circle. The rude, ill-mannered drivers have had their way so long that courtesy on the road is almost a thing of the past.

Maybe it's about time we reversed that trend. Courtesy and consideration certainly aren't going to cost you any money; the extra few seconds it takes to give another driver a break won't make any difference in your time schedule; and it will surely be easier on your temper, nerves and the fenders on your car. (AFPS)



NEW BIRD — Bronco, a light, armed, reconnaissance aircraft designed for counterinsurgency and limited warfare operations is the newest aircraft in the Marine Corps inventory. It can provide battlefield surveillance, helicopter escort, close air support against light opposition, gunfire spotting, medical evacuation and light logistical support. The twin-engine, two-place plane is armed with an assortment of bombs, rocket clusters, machine guns and side-winder missiles. It can operate from short dirt or grass landing fields and is easily maintained under battlefield conditions.

DOD Announces Early Release Policy, Short Tours

Enlisted personnel returning from short tour areas may now be separated from active duty up to 150 days prior to completion of their normal term of service. Currently, the maximum early release is 90 days.

Many soldiers return from short tour areas for reassignment and subsequent release from active duty. The majority of these soldiers spends only 3 to 5 months with their state-side units. The change will permit such soldiers to be separated from active duty immediately upon return from short overseas tours if they have 150 days or less remaining on their current tour of duty.

Soldiers returning from short tour areas who arrive in the United States after July 31 will be separated immediately if they are in this category. Exceptions will be authorized only when a soldier's individual entitlements or benefits would be adversely affected by the early release and the soldier desires to be retained until his normal expiration of term of service. For example, a soldier may request to be retained on active duty to assure that he is eligible for his full accrued leave pay or to fulfill the Alien Naturalization Service Requirement.

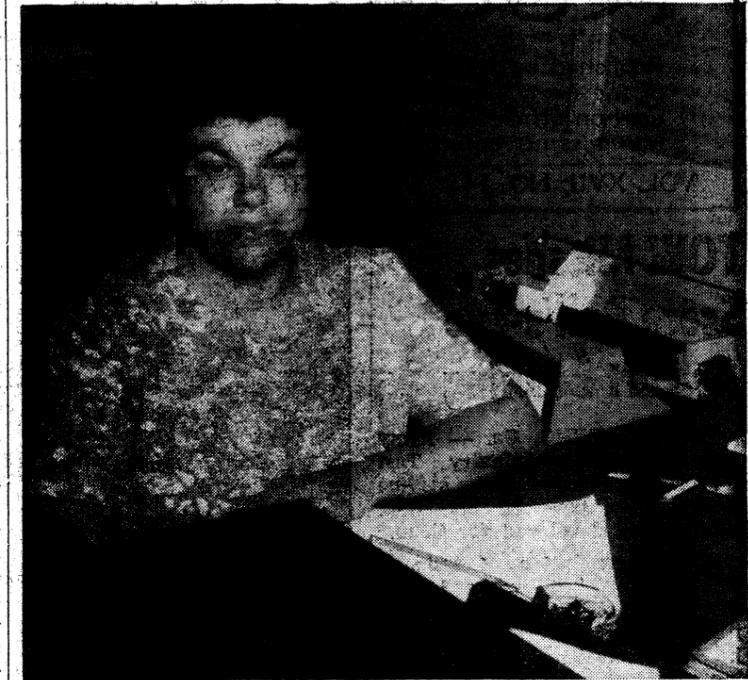
Soldiers in short tour areas whose overseas tour ends 151 to 180 days prior to completion of active service will be retained in the overseas command until they have less than five months remaining. Then they will be separated when they return to the United States.

The involuntary one-month extension of overseas tours will not apply in Vietnam or in the portion of South Korea designated as a hostile fire zone. However, soldiers serving in these areas are encouraged to remain with their overseas units until they are eligible for early release.

The change is intended to improve the combat readiness of CONUS units by increasing morale and esprit. The number of first term personnel whose first assignment is to a CONUS unit should increase, as well as the length of such assignments; such assignment stability is expected to improve unit readiness. The change will also improve the Army's ability to sustain units that are deployed in Southeast Asia, because CONUS units will have a higher number of personnel who have not been to a short tour area and who can be assigned to such areas if they are needed there.

HAPPINESS IS?

ZERO DEFECTS CORNER



Vastly improved quality and timeliness together with a reduction in the costs of operation were cited in the selection of Patricia Dewey of the MICOM Finance and Accounting Center for the Command's Zero Defects Employee of the Month award for August.

A contract control clerk in the Center's National Mission Accounting Division, Mrs. Dewey was named for the coveted citation by the Zero Defects Program Council from a list of over 20 nominees. She is the first F&A employee selected for the monthly award.

After distinguishing herself with an excellent record for proficiency through almost two years with the Center, Mrs. Dewey was reassigned to her present position early this year. Since that time she eliminated a backlog of unfiled and misfiled documents while greatly reducing the time required for processing obligational data.

In her first three months on the critical job she is credited with processing a larger workload alone than two clerks were able to handle in a like period previously.

A native of Albany, N.Y., Mrs. Dewey began her Federal employment with the Finance and Accounting Center in April 1966. Her husband is employed here by the Boeing Company. The couple are the parents of five children and are active members of the St. Thomas Episcopal Church in Huntsville.

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MISSILES

(Continued From Page 1)

launches were conducted in which missiles in close proximity were fired simultaneously. Purpose of this test was to determine if two weapon systems can operate close together without interference.

All test objectives were accomplished.

Representing the Missile Command at the firings were Maj. William Paris, Marvin Carroll and Coy Jackson, all with the TOW Project Office. Lt. Col. R. W. Huntzinger is TOW Project Manager.

TOW is being developed for the infantryman to use against heavy armor and field fortifications. Highly effective against both moving and stationary targets, the weapon system can be carried by troops and fired from a ground emplacement or mounted on a variety of vehicles.

COL. JEAN

(Continued From Page 1)

Thomas Sands, and Capt. George E. Hudgens.

Others on the program tonight are Dr. E. J. Chenault, president Tennessee Valley Council, BSA; Robert L. Haskins, Scout executive; Lt. Col. M. R. Thome, master of ceremonies, Col. Allen G. Dillon, chaplain; and the 55th Army Band under direction of Chief Warrant Officer DeWitt Mytinger.

REVIEW

(Continued From Page 1)

the University. Application forms may be obtained at the Reception Desk in Morton Hall, Mondays through Thursdays from 8:30 a.m. to 9 p.m.

Applicants must have a bachelor's degree in engineering or at least seven years of engineering experience.

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Twelve Soldiers Get Commendation

The Army Commendation Medal has been awarded to eleven Arsenal officers and an enlisted man in recent ceremonies. The awards were made in recognition of their meritorious performance of assigned duties over extended periods of time.

Three of the presentations were made as Oak Leaf Clusters to previously awarded Commendation Medals. Maj. Lloyd Collins was awarded his third Cluster, Lt. Col. Henry Arnold received his second additional award and Chief Warrant Officer Jacques Deglas was granted his first Oak Leaf Cluster.

Other officers recognized were Maj. James Drugas, Capt. Robert Wasmund, Capt. Willard Preussel, and First Lieutenants Robert Finkelstein, Norman Dimson, Joseph Whitaker, Jimmy Tarter and Timothy Radigan.

Sgt. 1st class Roy Hancock is the enlisted man who was cited for his meritorious service.

PLAN 1969

(Continued From Page 1)

participation and with their per capita gift.

Federal agencies located in the Huntsville area that will be taking part in the coordinated effort are the Missile Command, the Marshall Space Flight Center, the Sentinel Systems Command, the Missile and Munitions Center and School, the Sentinel Logistics Command, the Defense Contracts Administration Services Office, the Social Security Administration, Federal Housing Administration, U. S. Civil Service Commission, Economic Development Administration, Tennessee Valley Authority,

the Internal Revenue Service, the General Accounting Office and the Huntsville Division of the Corps of Engineers.

application, Off-Post Training Requests, SMI Form 1011, must reach the Training and Development Division no later than August 23 for approval of the training at government expense.

Additional information may be obtained by calling Herbert Allen at 876-5850.

HAPPINESS IS?



VISIT STUDENTS—German Air Force students in Missile Components Department at the Missile and Munitions Center and School were paid a visit recently by dignitaries from their homeland. From left: Sgt. Werner Tuerk, student; Lt. Col. Heinrich Volz, commanding officer of 8th Air Defense battalion; Lt. Col. Guenther Gersteuer, chief of Army Air Defense (I Corps); Staff Sgt. Jochen Hoetter, student; and Lt. Col. Peter Bourauel, staff officer at the Ministry of Defense. Lt. Col. Hans Boller, of the Air Defense School and Lt. Col. Martin Handrich, chief of Army Air Defense (III Corps) also made the three-day orientation trip to MMCS.

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RECEIVES MEDAL—Col. Norman L. Holland (left), director of Individual Training at MMCS, pins the Army Commendation Medal on Master Sgt. Dorris C. Wright, the NCO in charge of Non-resident Instruction department who retired last week. Sgt. Wright's career ended on a much calmer note than it began 22 years ago when his first name caused a mis-assignment—or should we say "Miss." Sgt. Wright was assigned to a WAC company!

Retiring MMCS Sergeant Once Assigned to WACs

Few men can claim they spent the night locked up in a WAC detachment. At least not legally.

Because of his first name, Dorris C. Wright can.

Wright retired recently at the Missile and Munitions Center and School on Redstone Arsenal as a master sergeant with over 22 years of Army experience. He ended a constructive career as an ammunition foreman and NCO in charge of the Non-resident Instruction department of MMCS, receiving the Army Commendation Medal (ACM) on his last day in service.

But things weren't always so rosy. Wright reflects back to the beginning in 1946 and an incident which is funny now, but was quite embarrassing and uncomfortable at the time . . .

It was his first permanent station and 17-year-old, bewildered Pvt. Doris Wright headed eagerly for Marburg, Germany, fresh out of wheel vehicle mechanic training at Aberdeen, Md.

The replacement center there promptly cut his orders. He arrived in Frankfurt during the middle of the night and phoned his new unit for transportation.

"Yes, we're expecting you, Doris," sounded the sweetly femi-

nine voice on the other end. "But, you sound an awful lot like a man."

"I hope to shout, I do," retorted Wright.

And it then struck him: he had been assigned to a WAC company!

He now chuckles as he recalls how a slightly rattled woman sergeant held him at bay in a supply closet while it took the Army three days to bail him out.

"She would lock me in the closet every night," smiles Wright. "And she'd come get me and lead me to the mess hall for meals, then right back to the closet. It wasn't too bad though . . . it had a bunk and toilet.

"Funny thing is, 18 years later I met that same WAC sergeant in a hospital in Fort Ord."

Wright went on to develop an outstanding career at posts throughout the world, including nine foreign assignments. He served in Germany, Korea twice, Austria, Italy, Taiwan, Okinawa, Thailand and Vietnam.

Alongside the recently awarded ACM, Wright wears the Army of Occupation medal (Germany), U.N. Service medal, National Defense medal with oak leaf cluster, Good Conduct medal, Korean Presidential Unit Citation, and Korean Service medal.

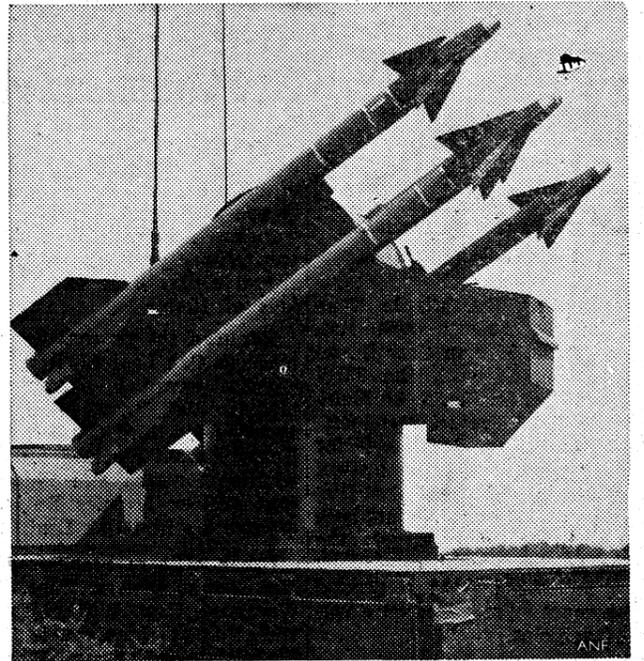
At one time Wright considered changing his first name, but discovered it to be quite an expensive process. He has, however, taken the liberty of adding another "r" to make it Dorris.

Wright is now considering a

position in government service and plans to maintain his home in nearby Harvest with his wife, Margaret, and their two children.

"I like it here," he explains, "and it's only a short drive to Batesville"—the Arkansas home of his parents, Mr. and Mrs. Delbert L. Wright, and his wife's parents, Mr. and Mrs. Floyd Wayman.

P.S.—The Dorris C. Wright's, whose daughter's name is Martha, very purposefully named their son Clifton.



THE U.S. ARMY'S CHAPARRAL air defense system is prepared for launching during initial production tests at Fort Bliss, Tex. Air defense artillerymen are checking modifications to be sure the surface-to-air weapons systems is ready for use in the field.

CHAPARRAL System Tested At Fort Bliss

U. S. Army air defense artillerymen at Fort Bliss, Tex., are conducting initial production tests on the CHAPARRAL surface-to-air missile system.

The CHAPARRAL is part of the larger VULCAN/CHAPARRAL air defense system that the Army plans to field with battalion-size units.

The present test series is intended to assure that the system, which is now in production, is ready for issue to troops. Modifications not previously tested will come under special scrutiny.

Also, before the system is approved, it will be tested under ex-

treme environments at the U. S. Army Arctic Test Center, Fort Greely, Alaska, and the U. S. Army Tropic Test Center, Fort Clayton, Canal Zone.

CHAPARRAL is an infrared heat-seeking missile system mounted on a tracked vehicle. Aero-nutronic Division of Philco-Ford Corp. is the prime contractor for the system.

CHAPARRAL complements the VULCAN, a six-barrel, 20mm weapons system. Together they provide a low-altitude air defense capability for commanders in forward battle areas. (ANF)

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MISSILE & MUNITIONS CENTER & SCHOOL
NAMES IN THE NEWS
by SFC Mike McKenzie

Some major personnel changes involving five lieutenant colonels have been announced at the school by the commandant, Col. Paul Schuppener. Two new arrivals are Lt. Col. John B. Levaas, executive officer of MMCS, and Lt. Col. Ralph T. Richardson, executive officer of School Brigade.

Col. Levaas joins us from a special project in Saudi Arabia and Col. Richardson spent the past year with 1st Log in Vietnam.

Lt. Col. Matthew R. Thome, XO of MMCS the past 10 months, has taken command of Unit Training Command from Lt. Col. Charles E. Chapman, who ended 1½ years with UTC to become director of Officer Training Department. That position was vacated last month when Col. Kenneth S. Whittemore left to attend the Army War College.

Lt. Col. Robert H. Newell moves from XO at School Brigade to the Directorate of Logistics.



LT. COL. LEVAAS

It's that time of month again—awards formations. All battalions in School Brigade, plus Unit Training Command, heaped 'em on last week in the form of Bronze Stars (BSM), Army Commendation Medals (ACM), soldiers of the month, honor companies, et. al. So here goes:



LT. COL. THOME

Jose L. Valdez, 522nd Ord. Co., ACM; Sgt. Raymond D. Parker, conventional ammunition division, Good Conduct Medal; and Spec. 4 James J. Riley, Special Ammunition Division soldier of the month.

Sixteen awards took the spotlight at 1st Battalion. MSgt. Arnold D. Anderson, recently departed for Europe, and SSgt. George T. Fickling, Support Maintenance Division both earned the BSM. Four men received the 1st oak leaf cluster on the ACM— Sgt. Maj. Lawrence M. Akanani and MSgt. Isaiah Brown, both of Ammunition Department; SFC James Sharpe, S-4, School Brigade; and Spec. 5 Jerry L. Collins, 1st School Brigade. PFC Thomas R. Sisk was pinned with the ACM and a Purple Heart.

Other ACM's went to Sergeant First Class Filferd W. Cummings and Sergeant First Class William Sweeney, both of ammo dept.; Staff Sergeant William Dortch, N training; SSgt. Richard R. Smith, Spec. 6 Patrick J. Yim and Spec. 5 Gerald W. Campbell, all of truck division. SSgt. David L. Turner, ammunition dept., was awarded a certificate into the NCO logistics program. Soldier of the month is Spec. 4 Richard A. Abich, instructor in Missile components department, and honor company is Co. B.



LT. COL. CHAPMAN

The 7th Enlisted Training Com-

pany swept July laurels at the 2nd Battalion gathering. It boasted the soldier of the month, acting Cpl. Joseph Endfinger, Jr., a Nike test equipment student. The 7th ETC also copped a trophy for highest participation in the blood donor program, and the honor company banner for the eighth time in the past year.

At 3rd Battalion, the ACM was given to SSgt. Dadney J. Judy of 9th Enlisted Training Company. PFC Jess A. Minghelli, student of the Nike radar and computer in the 8th Enlisted Training Company, won soldier of the month and his company won honors. The 8th also received a special trophy for sporting the highest bowling score in the School Brigade league.

Spec. 4 Wayne D. Reynolds departed the 4th Enlisted Training Company to report this week to the U. S. Military Academy prep school at Fort Belvoir, Va. He recently completed 11 months of training on the Nike radar and computer and will now compete for an appointment to West Point next year.



SPEC. 4 REYNOLDS

The trials and tribulations of commanding a company of soldiers can sometimes be for the birds, as Capt. Grover Josey found out a couple of week-ends ago. His change of quarters at the 5th Enlisted Training Company acting Cpl. Arthur Abraham, phoned a message to Mrs. Josey that some birds were attacking the men in the company. Cpl. Abraham's urgency was understandable, for he had been "pecked on the head" himself and he was worried about rabies. The military police had been notified and a veterinarian sought.

Meanwhile, Captain Josey questioned his CQ, asking about the size of the menacing birds (hawk? condor?). Well, the birds turned out to be only about the size of robins, "gray body with black wings." But their bravado in attacking the humans who passed their perch was intended as protection for their fledgling, which was flopping about under a tree unobserved in its attempts at learning to fly.

Captain Josey's action? He advised the CQ to, "keep the troops out of the area."



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Accountants Set Sights On Marshall Champions

Ward, Agee Provide Power As Mates Take CWF Title

"Bring on Marshall," is the cry ringing from the Finance and Accounting Center this week as the Accountants started looking forward to capturing their second straight All-Arsenal slow-pitch softball championship.

The Accountants put the CWF League crown safely out of reach of their competitors last week with a come-from-behind 14-7 win over the ICO entry. The win was the 17th straight for the unbeaten F & A combine.

The best two of three playoff series pitting the Army champions against the Marshall Space Flight Center winners is tentatively planned for September and will be set at the end of the Marshall league season.

In other CWF League games last week the Comp Center handed Pershing a 14-5 setback, Data Processing overwhelmed Documentation, 18-8, the Metrology Center routed Supply and Maintenance, 18-4, and Documentation edged Pershing, 9-8.

The Accountants opened with a four-spot against ICO but Ed Trentham homered with two on in the first and repeated an inning later with one mate aboard to give his team a 7-4 lead after two innings.

After a scoreless fourth Russ Ward squared accounts with a drive over the left field fence with two mates aboard. Elliott Agee followed with a shot over the fence in right for what turned out to be the winning run as Johnny Johnson took over from Charles Amos and blanked the ICO hitters over the last four innings.



WARD

Agee went four for four in the win with Ward, Jack Willis and Buddy Lewis collected three hits apiece.



AGEE

The Comp Center did all the scoring they needed with six runs in the first inning as Coker kept the Pershing attack well scattered. Art Arizin homered in the winning attack and Hemphill delivered four straight safeties.

Thomason topped the Missilemen with three hits as George Williams took the loss.

Gary Mann and Norm Williams each delivered three run homers as DPO broke up a close battle with Documentation by counting nine times in the fifth. The score was all even at five until the

winning outburst.

Hunter Horton picked up the win with Sid Sapp on the losing end of the decision. Sapp and Billy Hannah homered for Documentation.

Ray Wernle, Tom Lee and George Thomas each collected five hits as the Metrology Center went on a 28-hit binge in swarming all over S & M, with Ted Findley having a relatively easy time in hanging up the win.

Jim Thomas turned in a four for four performance for the losers and Steve Reed drove in three runs with his three hits.

Pershing was within an out of an 8-7 win over Documentation when Don Duncan singled and Roy Fuell followed with a two-run homer and give Sid Sapp the win.

Duncan had a triple and another single with Wayne Dahlke homered and Don Turner collected a trio of safeties for the losers.

Fill-In Golfer Provides Margin

With a stand-in performer cast in the leading role, the Harold Madry-Lloyd Chapman duo went soaring into first place as the P & P Golf League went into the stretch run of the summer schedule.

Paul Spelar took over for Madry in the match against Hugh Valentine and Bob Mercer and his 58 set the pace for a sweep of the six match points.

The Jim Kyzer-Fletcher Folks and Al Monger-Jim Anderson combines were each victimized in losing six points apiece to enable Chapman and Madry to edge past them. Kyzer and Folks now trail the leaders by four points with Monger and Anderson another two points to the rear.

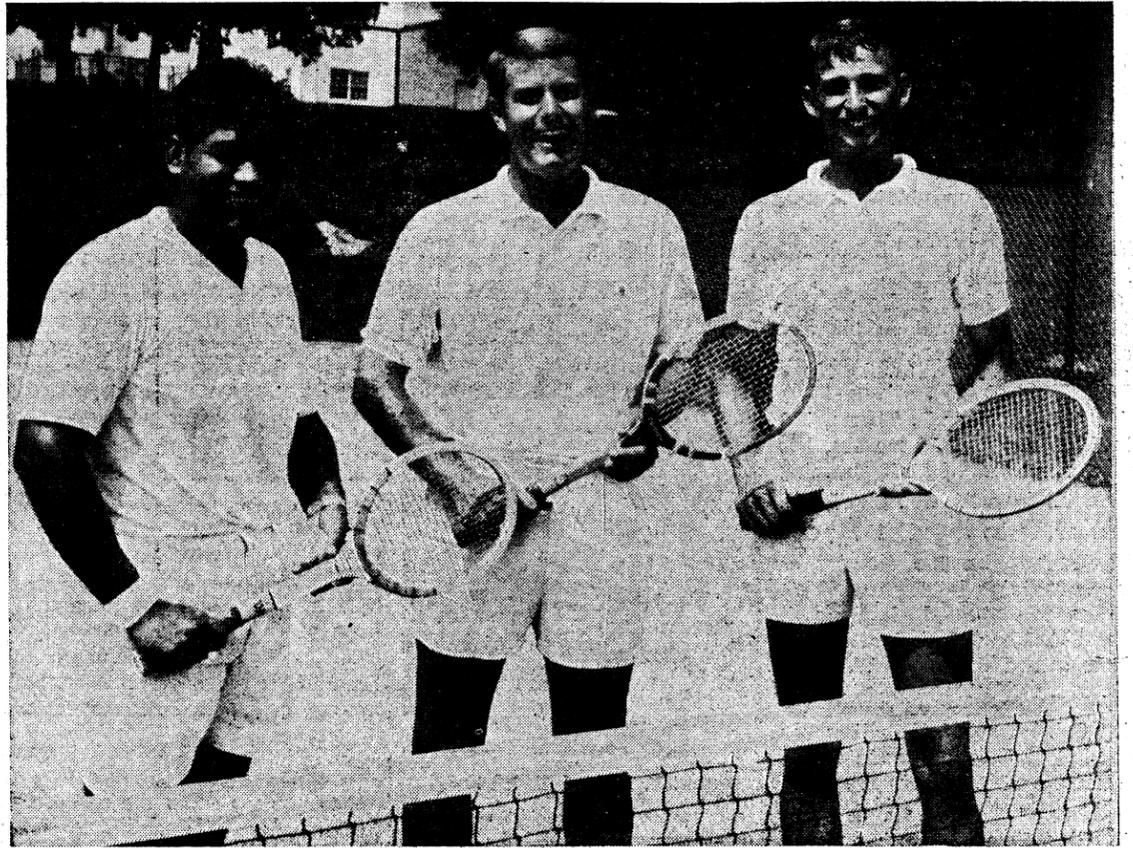
Bill Perkins and Joe Collier doled out the sweeper to the Kyzer-Folks pair by combining for an eight under net count of 100. Collier shot a 49 and his partner turned in a 51.

Anderson accounted for the low gross total of the week with a 56 and Folks turned in a 59 card. Ray Kelley took the closest to the pin award of the week by leaving his ball four feet from the pin on No. 9.

OWC Golf Group

Competition for the Officers Wives Golf Group last week consisted of a team play, dog fight, with the team of Harriet Sterner, Jackie Hightower and Anne Dorris capturing first place honors.

The Group has slated a luncheon for Wednesday, August 28, at the RSA Officers Open Mess.



TENNIS ACES—Three big reasons why the Redstone tennis team was able to capture their divisional title in the Huntsville Industrial League this summer are pictured as they appeared to get in a few practice licks. They are, left to right, Joe Rizo, Wes Simmons and Bob Shineflug. The latter, a former University of Illinois player, played the No. 1 singles position for the Arsenal team and took third place in the Third Army tournament last month. Rizo is from El Paso and Simmons is a native of Long Beach, California.

RSA Tennis Team Wins Title In Initial Try

An opening match loss to the Decatur Tennis Club failed to daunt the Redstone Arsenal tennis team as the military racket wielders swept aside the opposition in the next five matches to capture the C Division championship of the Huntsville Industrial Tennis Club.

The Arsenal Netters captured 43 sets while losing 11 in winning the title in their first year of competition.



COL. VAN AUKEN

Joe Rizo and Ken Van Auken were the leading Redstone point makers as they captured each of their six matches. Bob Shineflug and Wes Simmons each took five out of six.

Shineflug was the No. 1 singles player in each of the matches with Rizo playing the No. 2 position. Simmons held the No. 3 spot followed in order by Van Auken, John Eikenberry and Glenn Ihrig.

Plans are underway at the present time for an All-Arsenal championship match pitting the military team against the Civilian Welfare Fund team that took runnerup honors in the B Division of the Huntsville league.

While no date has been set for the proposed meet, it is tentatively planned to play it following the city-wide tournament that is getting underway this week.

MP Softballers Maintain Lead

The 291st MP's won three contests last week to maintain a three-game edge in the unit level softball league. The policemen tripped MICOM's third-place challengers 10-3, the 8th ETC 9-3 and Company C 22-11. The MP's now stand 24-2.

By virtue of two forfeit wins, the 6th ETC added two wins to its record and remained behind the leaders with a 20-4 mark.

MICOM rebounded from its defeat to rout the Marines 15-2 and up their record to 20-6. Following in the standings are Company A 18-8; Unit Training Command, 18-9; Company B 17-10; 8th ETC 14-10; Marines 15-12; 9th ETC 12-13; Company C and Company D 12-15; Student Officer Company 10-15; and 522nd Ordnance 7-19.

The 5th-7th ETC (1-15), 3rd ETC (8-23), 1st-4th ETC (4-27) and 2nd ETC (2-29) have all been dropped from the league.

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MAJ. CLARENCE GREENHILL

Paddle Tennis Meet Opens Next Mon.

Special Services has announced another paddle tennis tournament to be held beginning next Monday in the workout facility (Bldg. 3474). A double elimination series will include play in both singles and doubles. Interested players can sign up now, or call 6-2943 or 6-7650 for further information. Irving Lyles is the current singles champion on post.

First Bn. Leads By Single Game

The 1st Battalion continues in a slim lead over foes in the Redstone baseball league last week, sporting a 6-2 record. Unit Training Command was pressing at 5-3, followed by MICOM and 2nd Battalion at 4-4 and 3rd Battalion at 3-5. The combined team of student officers and Marines was dropped from the league.

and Pvt. David York of Delavan, Wis., from the ammunition records group.

Also recognized as honor students from various other areas of training during the ceremony were 2nd Lt. Robert Christie, Jr., Denver, Col.; Cpl. John Byers, Gardnersville, Nev.; PFC John Moffat, Long Beach, Calif.; Pvt. William Baker, Jacksonville, N. C.; and Marine Cpl. Joseph Milunec, Little Neck, N. Y.



POSTHUMOUS AWARD—Lowell C. Page accepts the medals earned by his son, PFC Roy D. Page, from Col. J. N. Jean, director of the Arsenal Support Operations Directorate, Army Missile Command. PFC Page was killed in battle in Vietnam last March. Among his medals are the Bronze Star, the Purple Heart, the Good Conduct Medal, a sharpshooter badge and campaign and service medals from Vietnam. He was a member of Co. C, 4th Battalion, 9th Infantry, 25th Infantry Division. The family lives on Route 2, Vinemont, Ala.

Mixed League Sets Plans For Season

Organizational planning or the RSA Officers Mixed Bowling League is underway with a tentative opening date of the league

schedule set for Monday, September 16, at the Post Lanes.

League membership is open to all officers, warrant officers and wives of officers and warrant officers.

Eligible personnel interested in affiliating with the league, and those who desire additional information, may call Mrs. Vera Wilk-

erson at 881-2876, or Mrs. Billy Shuput at 536-5629.

**WANTADS
GET RESULTS**

Members of an ammunition records class once again dominated academic laurels at Friday's graduation at the Missile and Munitions Center and School. The ammunition trainees have produced consistently high scholastic marks recently at this giant complex which turns out 10,000 graduates a year from throughout the world. Maj. Clarence C. Greenhill delivered an address to the class of 114, which included a Thai and 10 Marines. In his speech, Maj. Greenhill charged that the most important aspect of responsibility is leadership.

He told the class they have the duty to provide an example to their subordinates. Much will depend on initiative, sense of responsibility and desire to achieve, they were told. Maj. Greenhill is the officer in charge of facilities at MMCS.

Brig. Gen. Robert B. Spragins, (US Army, Ret.) president of the Tennessee Valley chapter of the Association of the U. S. Army, awarded special plaques to Pvt. Deane Cox of Omaha, Neb.; Pvt. Roger Flocke of Danbury, Conn.; Pvt. Harvey Riley of Hickory, N.C.;

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Employer—Name and Location			Employer's Phone No.		How Long	Occupation	
Income: <input type="checkbox"/> Over 7500 Year <input type="checkbox"/> 5000-7500 Year <input type="checkbox"/> Under 5000 Year			Bank Account—Name and Location				
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MMCS Wives See Vietnam Village, Weapons

Nearly 200 guests and wives of officers stationed at the Missile and Munitions Center and School paid a call on the mock Vietnam village training center located on Redstone Arsenal.

Under the guidance of Capt. David Murray, Vietnam veteran and director of the MMCS Vietnam training committee, the ladies witnessed training measures, handled weapons, were enlightened on guerilla warfare methods being

used in Vietnam, and were treated to some noisy "fireworks" of the ever present booby trap.

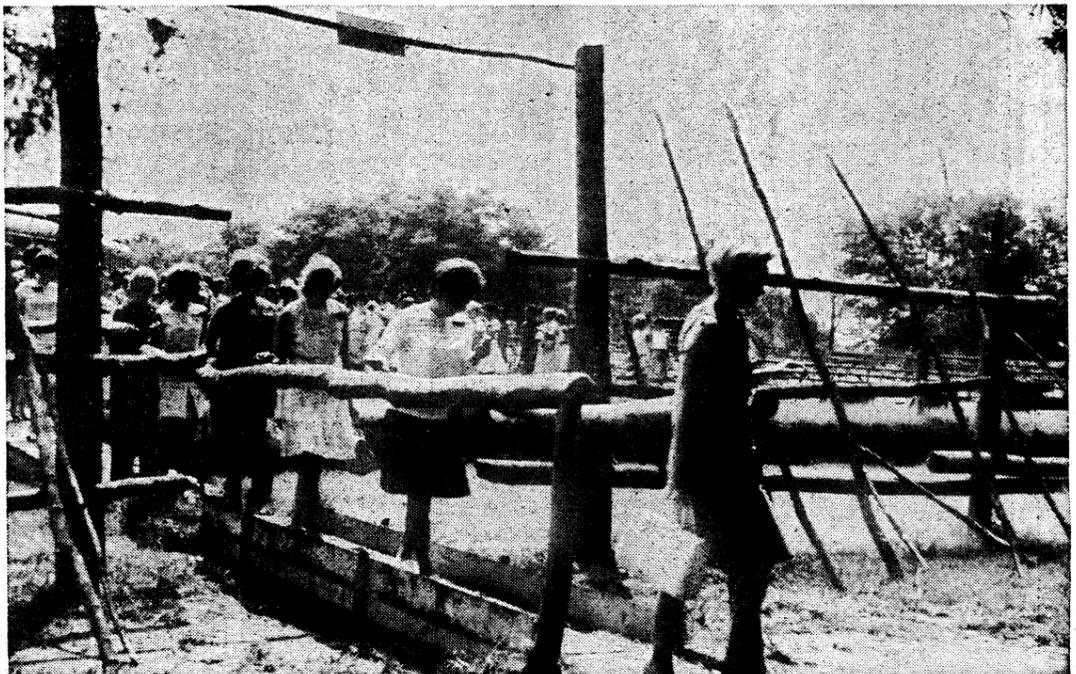
The informational tour provided the wives with a realistic look at where hubby, in many cases, has been . . . or is headed. The training is for all MMCS personnel on orders to the Republic of South Vietnam.

Service Club Tour

The tour sponsored by the Service Club this weekend will be to Gunterville beach and amusement park for swimming and a picnic.

Enlisted men are reminded that the tour bus will leave the Service Club promptly at 10 a.m. Saturday morning and return at approximately 4:30 p.m. The picnic lunch will be furnished.

HAPPINESS IS?



ENTERING THE VILLAGE, the women cross a bridge over a moat filled with pungie sticks—the sharp, poisoned-tip bamboo "weapons" carved by Viet Cong.



THE REALITY of an exploding booby trap is too much for dainty feminine ears! When the ladies see what happens to someone who is the "booby" of a booby trap.



WITNESSING A TYPICAL VIETNAMESE HUTCH, complete with inhabitants, are (left to right) Mrs. Robert A. Schmiedel, wife of the director of logistics, Mrs. Paul B. Shuppener and Mrs. Edmund F. O'Conner, whose husband is an Air Force general at neighboring Marshall Space Flight Center.



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LAST TRIP OUT—CW3 Don Geouge, Sergeant Project Office, makes final preparations for his last trip out with the Sergeant Modification Assistance Program, this one to Korea. Mr. Geouge, who retires November 30, has been involved in the installation and support of all six modification programs for Sergeant. He has served as team leader on several of the teams that modified Sergeant equipment and repair parts world-wide.

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Theater Schedules

WED., Aug. 14
"The Party" (M-YP)

THURS.-FRI., Aug. 15-16
"A Minute to Pray, a Second to Die" (M)

INCREASED ADMISSION: adults 50c, children 25c.

SAT., Aug. 17
"Snow Treasure" (F)

SUN.-MON., Aug. 18-19
Walt Disney's "The Happiest Millionaire" (F)

INCREASED ADMISSION: adults 50c, children 25c.

TUES., Aug. 20
"Wild Season" (M-YP)
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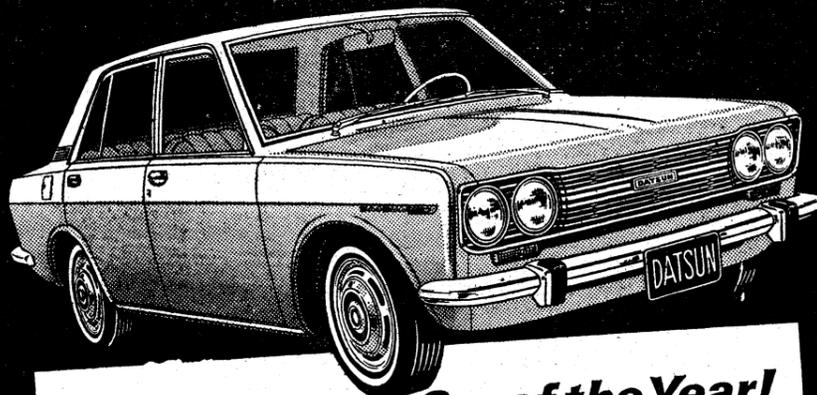
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He could ask a company to build one to his specifications, but if another company already makes that exact transistor, he would be wasting the taxpayer's money.

So our conscientious engineer begins the long process of searching through hundreds of catalogs prepared by transistor manufacturers in an attempt to find exactly the one he needs. The job could take days.

Or suppose you are repairing something for the Army. You know that you need a two-inch screw made of brass that has been plated with nickel and dipped in oil.

Somewhere in the 4 to 5 million separate parts the Defense Department stocks there must be a screw like that, but you don't know the Federal Stock Number and without that number you cannot order the part.

Problems like this seldom occurred in the first hundred years of the Army's history. In those days a few filing cabinets could probably contain all the specifications, drawings and data needed to run the Army.

Today things are not quite so simple. For example the drawings and specifications for one missile system would fill approximately 20 railroad cars. Multiply that by all the items and projects in the Department of Defense and you begin to understand the magnitude of the problem.

In 1960 the Department of Defense requested the Army to determine how specifications, drawings and other types of engineering data could best be managed. Something was needed to help the engineer find his transistor; the repairman locate his screw; and to help manage the immense amount of engineering data used by the modern Army.

The Army passed the job along to the Missile Command which set up the Engineering Data and Management Section headed by Roland L. Guard to study the problem.

Guard, working with Frank Craven, Henry Darby, Gilbert Penny and other engineering personnel assigned to his section, studied more than 200 different systems including paper tapes, punch cards, computers and various types of manual sorting systems.

They decided that computers could do the job fastest and with the most flexibility, but unfortunately they had a number of serious limitations.

A prime requirement for the

system was that it meet the needs of small, medium and large installations. Computers are too expensive for many small businesses and Army units.

Although a computer can search a large amount of data in a few micro-seconds, it may take several hours or days to obtain time on a busy computer. In addition, a computer cannot store a drawing. At best it can indicate where a drawing is kept.

Finally the section decided to work with a system designed by Eastman Kodak called Miracode which stores data on 100-foot reels of microfilm.

First all the data on a given set of items—for example, transistors—is organized in a standard form and entered on computer punch cards. To be sure that no mistakes are made at this stage two operators punch the same information onto the cards and a machine checks to see that both operators have entered the same data.

Then the cards are fed into a computer which sorts the information and organizes it into several patterns.

Next the computer prints a page of data for each transistor and produces a punch card with coded information about the transistor. The page of information and the punch card are then photographed on 16 millimeter microfilm.

When projected this microfilm contains alternate squares of printed information and coded black dots. A simple sorting device can read the coded dots and locate the proper page of printed data which the human engineer can read.

Although a computer is required to prepare the rolls of microfilm, it is not necessary for retrieving the data.

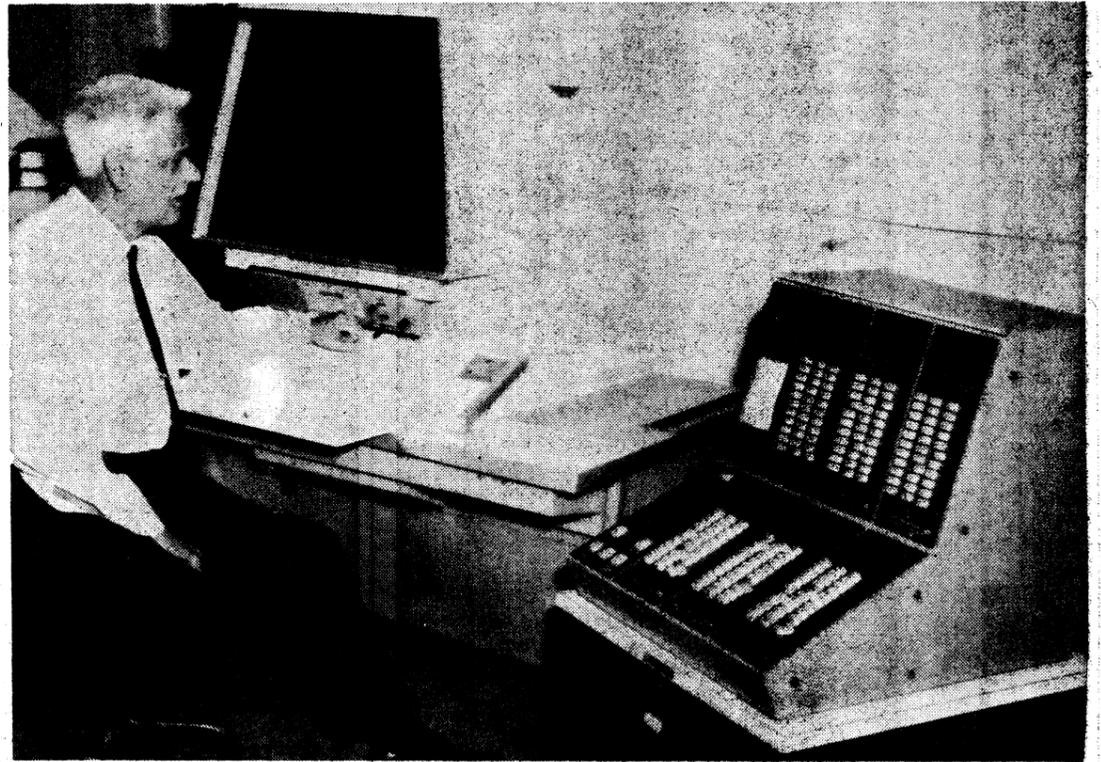
For example, suppose you have a roll of film with information on all the gears used by the Department of Defense. The retrieval machine about the size of a large microfilm viewer could be set to locate all the 2-inch plastic gears with 37 teeth. If there were no gears of that type in the system, you might set the machine to sort out all 2-inch gears with 37 teeth regardless of what they are made of.

Then the machine might turn up three gears—aluminum, steel and copper. Although you would prefer plastic for your gear, the copper will do. Each search took less than 12 seconds.

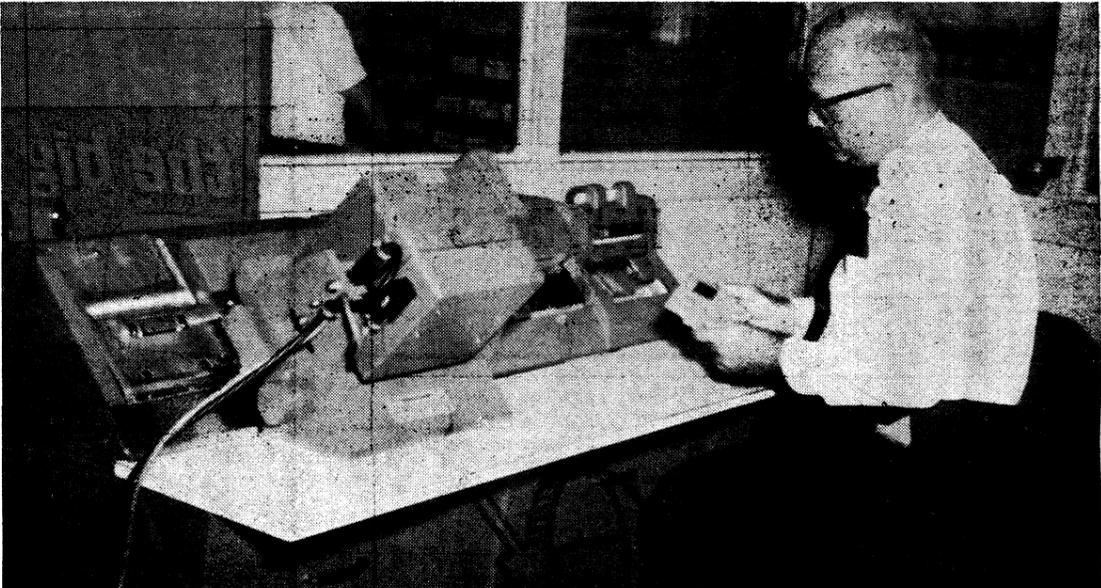
This system was called the "EDS 0009" (the EDS stands for Engineering Data System, the 0009 was the project number) and was first demonstrated in 1963.

Two years later an improved version, the "EDS 0016" was introduced. This model could read printed pages of data—thus bypassing the punch card step—and could prepare the final rolls of film much faster.

The system was given an acid test when the logistics and sup-



DATA SYSTEM—Roland L. Guard, chief of the Engineering Data and Management Section, looks over a microfilm viewer his section designed for use with the EDS 0016. This system was designed to help store, sort and manage the tremendous amount of engineering data used by the modern Army.



FILM CONVERTER—Gilbert A. Penny, chief of the Programs Branch of the Engineering Data and Management Section, examines one of the IBM punch cards used to feed information into the EDS 0016. The machine he is working with, a 35 millimeter to 16 millimeter film converter, speeds up the amount of time required to prepare data for the system.

ply build up for Viet Nam began. It was desirable to repair some of the helicopters used in Vietnam aboard a converted Navy seaplane tender. The problem was how to store and locate quickly the 800,000 drawings needed for the repair work in the limited space available on the ship.

The EDS system which could store both pictures and printed data solved the problem. Information that would normally have filled several large rooms was located in one small room and the sorting system made it possible to locate rapidly the exact drawing needed.

More than 50 military organizations have adopted a form of the Engineering Data System in the last three years. The Canadian government has purchased one to help it keep track of its military personnel.

Three Missile Command contractors, Martin Marietta, Corp., Raytheon Co., and the Univac Division of the Sperry Rand Corp. have adopted the system and machines have been installed in the Missile Command's Research and Development Directorate.

Two private industry groups have presented awards to the Army for developing the system.

But the needs of the Army continue to grow and a system adequate for current problems may not fit military requirements

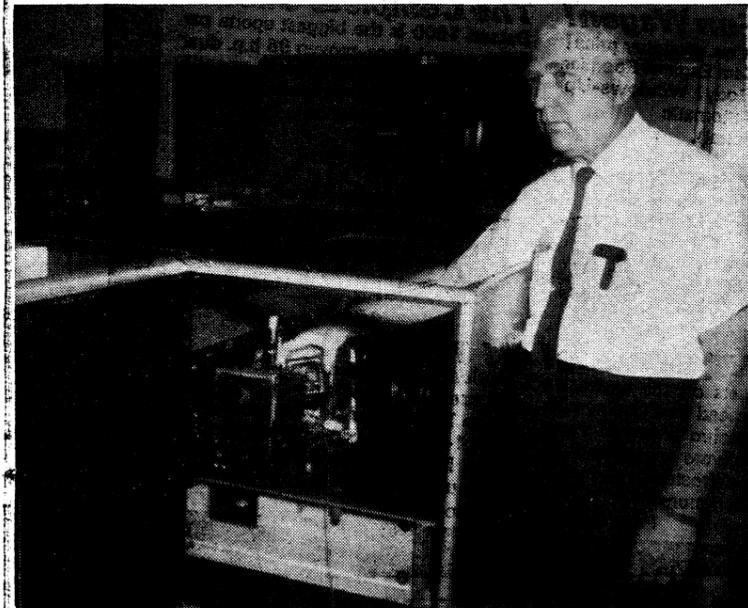
in 10 years.

To keep ahead of the Defense Department's needs, the Engineering Data and Management Section is now working with the National Aeronautics and Space Administration on a system which uses lasers to store images on a three-dimensional crystal.

Although this system is still more than a decade away, it will eventually allow more than 1,000

documents to be stored on a small crystal 2 inches square and a tenth of an inch thick.

HAPPINESS IS?



FUTURE SYSTEM—Frank L. Craven, an engineering technician with the Engineering Data and Management Section, points to one of the experimental machines the section is working with. This machine uses lasers to store hundreds of pictures on small three-dimensional crystals. It is designed to meet the needs of the military in five to ten years.

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Personnel Take Advanced Training

An active duty officer is included in a group of Arsenal personnel who have been approved for advanced study in their individual career fields at government schools, contractor facilities and leading universities located in eight states and the District of Columbia.

The local personnel will be away from their normal duties for periods up to three weeks for the training programs under the Command's career development program administered by the Training and Development Division of Civilian personnel.

All but two of the students are with Missile Command organizations while Capt. Harry Rogers (Sergeant) is the lone military member of the contingent.

Capt. Rogers went to Ft. Lee, Va., for the Army Project Manager course at the Army's Logistics Management Center. Attending the same class are Norman Ervin (Chief Counsel) and James Hartley (Lance).

Miriam Pullins (P & P) is attending classes of the Advanced Procurement Management course

at the Ft. Lee school while Ken Thew, Joe Holub, Thomas Campbell and Henry Vaughn (all of S & M) are enrolled there for the Army Commodity Management course.

Edward Gentle and Morris Michael (P & P) are spending this week and next at Aberdeen Proving Ground, Md., for classes at the Joint Military Packaging Training Center. The former is enrolled for Packing and Carloading while the latter is studying Preservation and Protection.

Mark Hunter (C & DP) is in the nation's capitol for the Intermediate Executive course at the DOD Computer Institute and James Lyle (R&D) is taking a course in Dynamics of Vibrating Structures with M. B. Electronics in New Haven, Conn.

Foy Newman (Missile Intelligence) is taking the Fortran course offered by the Control Data Corp., in Huntsville, while Rodney Floyd

and Harry Leach (Comptroller Center) and Norman Marriner (P & P) are also staying in Huntsville for the Introduction to General Purpose System Simulator course with the IBM Corp.

Earl Kellem (P & P) is studying Modern Industrial Spectroscopy at Arizona State University in Tempe, while Mat Maddix (R & D) is in Los Angeles for Bayesian Statistics at the University of California.

The remaining fourteen Arsenal students are enrolled for classes of study offered by the University of Oklahoma at three locations.

Harvie White and Thomas Kenemer (Shillelagh), William Marr (C & DP), Darrell Albert (Missile Intelligence) and Lawrence Williams (DASO) are spending the week at the Norman, Okla., campus for Public Employment Administration.

Two others, Ronald Wicks and William Ivy (SAM-D) are taking

the Ethics and Public Responsibility course at Offutt, Nebr., and Edwin Hart, John Peters and Edward Smith (P & P), Donald Jackson and Marvin Lemmons (Senscom), Joseph Powell (S & M) and James Crawford (Lance) are in Washington to attend the Seminar in Production Management.

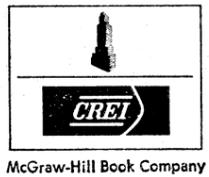
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Active Honorary Citizen Returns Home to Japan

A very active "citizen" here re-ed. turns to his home country this week from Redstone Arsenal.

Capt. Sadayuki Demizu, of the Japanese Air Self Defense Force has completed his training as a Nike missile supervisor at the Missile and Munitions Center and School and will return to Tokyo on Aug. 15.

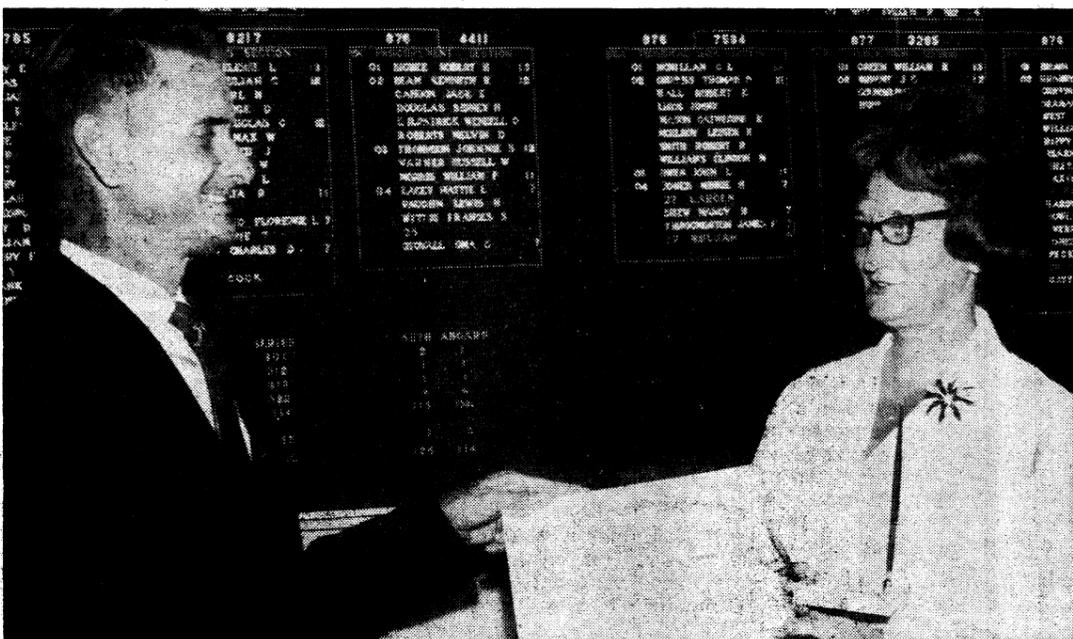
With him he takes an honorary citizenship of Huntsville and the official "Key to the City," along with many friendships and memories gained through active participation in Community events during his spare time.

Since last December, Capt. Demizu has on seven occasions offered talks on Japanese religion, history, customs and education at various church and civic meetings. Four times he has given public demonstrations in the Oriental art of self-defense, Aikido, in which he holds a black belt. Nearly 900 people were in attendance at the functions where Capt. Demizu spoke and perform-

Aside from his occasional guest appearances, the quick-smiling officer also conducted free instructions three times a week for anyone interested in Aikido. He is hopeful that the lessons will be carried on by his pupils after he is gone.

Because the thorough instruction on the Nike system made heavy demands on his time, Capt. Demizu often provided other Japanese students under his control as senior representative to take on speaking engagements.

The 34-year-old, bilingual Buddhist is a graduate of Takushoku University in Tokyo ('58). He was a student of the Nike missile at MMCS in 1965, also, but returned to learn the entire system from tail to nosecone. Awaiting his return home are his wife and three-year-old son.



ERROR FREE PERFORMANCE—Frances Wittig is the recipient of an Excellence in Performance award in recognition of her work while serving as a volunteer with the Quick Reaction Assistance program in Vietnam. Robert Bigbee, chief of the Procurement Section of the Data Processing Office, has the honor of making the presentation to Mrs. Wittig. A computer programmer, she spent six months in Saigon and returned to her position in the Data Processing Office last November. The EIP award was forwarded to Redstone from Vietnam.

Motor Tested By Thiokol Here

Thiokol Chemical Corporation-Huntsville Division has successfully static tested a full scale flight prototype solid motor confirming breakthroughs in high burning rate solid propellant technology. The test was a part of a development program for the U. S. Army.

Pioneering studies, started originally by Thiokol's Huntsville Division and continued under U. S. Army contract, have demonstrated a major advance for low-cost composite solid propellants that are required for high acceleration missile interceptor systems such as the Sentinel System.

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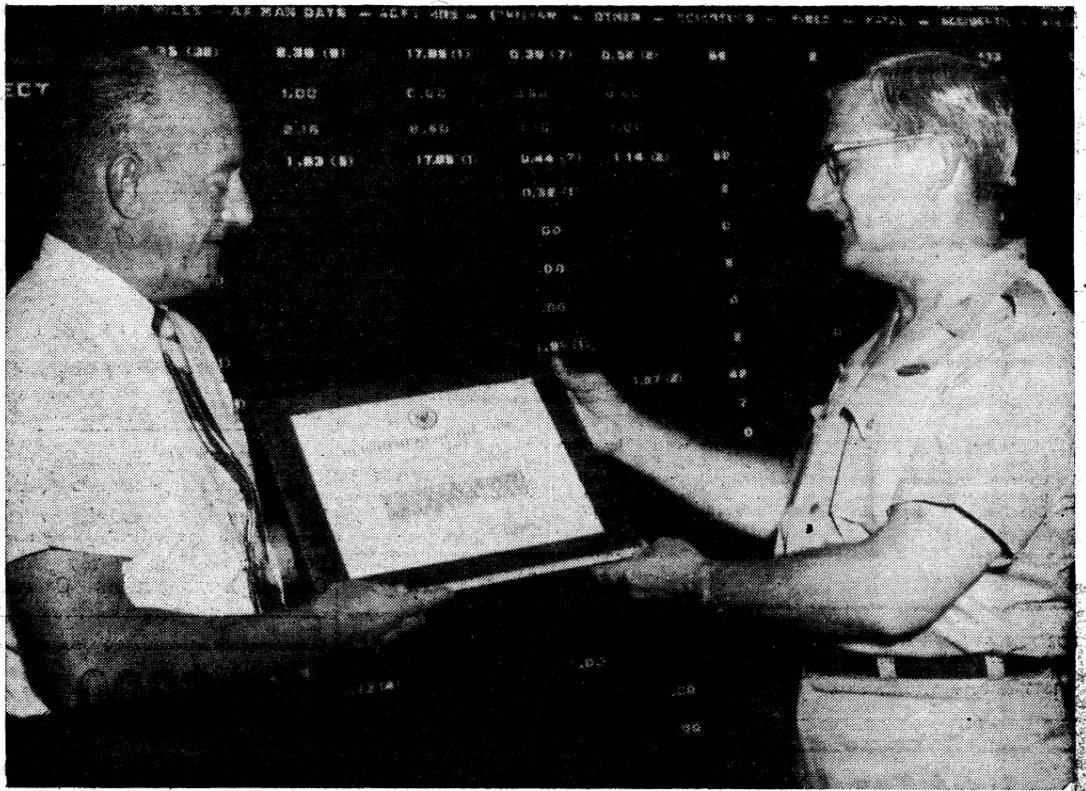
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HOME STUDY REWARDED—Certificates for completion of correspondence courses have been presented by Col. S. C. Holmes, head of the Procurement and Production Directorate, to Mrs. Jimmie F. Kennamer, and Tony Scott. Mrs. Kennamer's certificate represents 132 hours of home study on the Defense Procurement Management Extension course from the U.S. Army Logistics Management Center. Scott's certificate resulted from 107 hours of home study on a Programming and Budgeting course from the U.S. Army Finance School.



RECEIVES ARMY COMMENDATION—For his development of a safety program in Viet Nam, Thomas P. Browne, Safety Engineer at the Army Missile Command, receives an Army Commendation from Col. J. N. Jean, Director of Arsenal Support Operations Directorate. The award, signed by Gen. W. C. Westmoreland, covered the period from August 1966 to August 1967 when Browne was in Viet Nam as Safety Director for the 1st Logistical Command Support areas of Saigon, Cam Ranh Bay and Qui Nhon in the II, III and IV tactical zones and multiple port operations. Browne resides at 2001 Stanhope, Dr., Huntsville.

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DIVISIONS RENAMED

Recent renaming of two popular Army divisions affects many organizational and doctrinal publications created by the Army's Combat Developments Command

Container Award Goes To Galloway

The U. S. Army has awarded \$1.6 million to G. W. Galloway of Baldwin Park, Calif. for containers for the Shillelagh missile system.

Work under the contract, a modification to an existing contract, will be done at Baldwin Park.

Shillelagh is a gun-launched guided missile system for Army combat vehicles. Now being deployed with Army troops, Shillelagh's 152mm gun-launcher can fire either missiles or conventional ammunition and is effective against moving or stationary tar-

(CDC). A Department of the Army message of June 27 re-designated the 1st Cavalry Division (Airmobile) and the 101st Airborne Division as the 1st Air Cavalry Division and the 101st Air Cavalry Division. Both are in Vietnam.

gets. Col. Robert J. Proudfoot is Shillelagh project manager. Aeronutronic Division of Philco-Ford Corporation is prime contractor.

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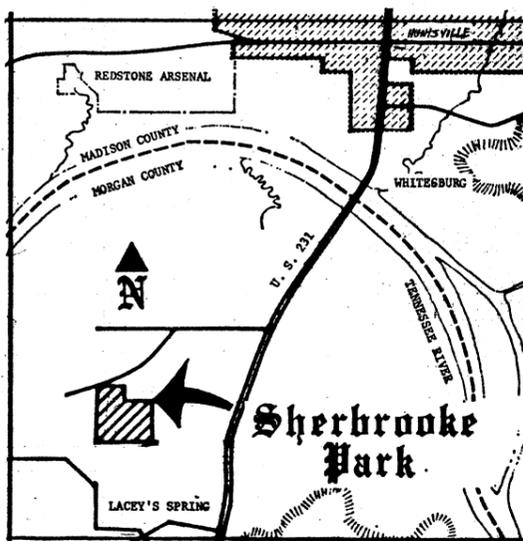
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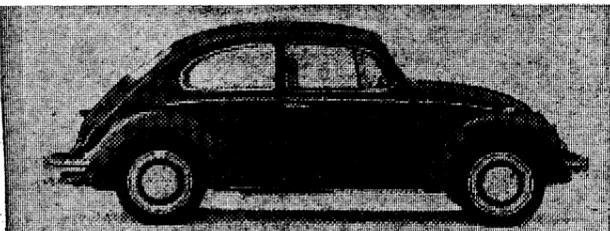
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Arlington Cemetary Set To Expand On Ft. Myer

WASHINGTON (AFPS)—Arlington National Cemetery, one of America's most revered national shrines, is scheduled for a major facelifting in the years ahead.

In order to relieve the present overcrowded condition, Arlington

is expanding into the South Post of Ft. Myer. Planning for this expansion has grown into a 10-year, \$37-million project to revamp the cemetery's operations and appearance.

According to the project engineer, a major goal is to separate the tourist traffic from those persons coming for funeral purposes. Conceived as a place of dignity and peace dedicated to the memory of America's military and public servants, Arlington has become a major tourist attraction, drawing more than five million

Maintenance, Service Jobs Open In Area

The Interagency Board of Civil Service Examiners is accepting applications for positions of maintenance and service worker, \$1.60 to \$2.38 an hour, for employment

visitors during 1967.

It's hoped that the redevelopment of Arlington will make visitors poignantly conscious of the cemetery's solemnity.

Certain areas of the cemetery will be renovated and landscaped, as will the land to be added to Arlington. A focal point will be a Memorial Chapel and Columbarium overlooking a five-and-one-half-acre lagoon. Funeral services will be conducted in an enclosed garden court.

The Columbarium, or crypt, for the interment of cremated remains will contain 26,000 niches for urns bearing the ashes of deceased military veterans and their next of kin.

Also overlooking the lagoon will be an open meadow that might be set aside for burial of military heroes such as Medal of Honor recipients.

To help families receive more privacy, the cemetery will bar all vehicle traffic late in 1968, after construction is completed on a temporary parking facility. This will eventually be replaced by a two-level underground parking structure capable of housing 1,050 automobiles and 77 buses.

Eliminating the 300 buses and 5,000 cars that congest Arlington daily will immediately make it a more restful place. Visitors will be transported by a fleet of micro-buses which will make stops at the Tomb of the Unknown Soldier, the Kennedy graves and the Custis Lee Mansion.

in Federal agencies and installations in the 38-county area serviced by this Board.

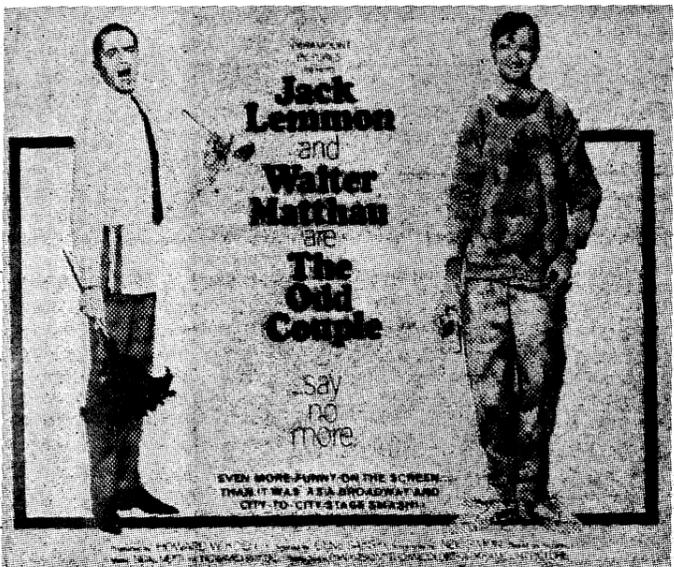
This announcement covers the following positions: Food service worker, housekeeping aid, custodial laborer, mess attendant, tray service attendant, ward attendant, animal caretaker (laboratory), warehouseman, washman, packer, munitions handler, laundry worker, laboratory helper, and laborer (general).

Announcements and application forms may be obtained from the Interagency Board, 806 Governors Drive, S. W., Huntsville, Alabama, 35801.

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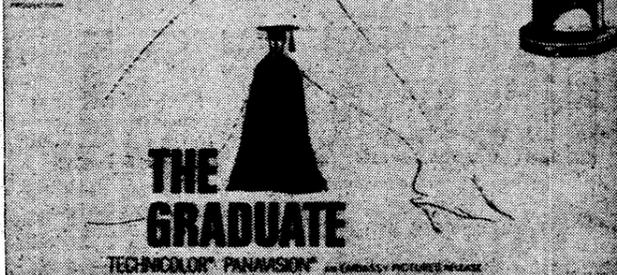
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7808 — Milton St. Down payment \$750. Monthly payments \$164. Buy equity \$2,150, 2 story custom built, 3 bedroom, 2 1/2 bath, double garage, fully equipped. Better see.

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This Volvo definitely has a bug in it.



97% of a Volkswagen fits inside a Volvo.

The 3% got squished in the squeeze.

Of course, the act of squeezing a VW into a Volvo was a small achievement when compared to the final result.

The world's first car with the trunk in its engine compartment. And the engine compartment in its trunk.

Obviously, this incredible automotive breakthrough has a purpose.

And it's not to belittle the beetle.

But to correct a misconception people have about Volvo.

Many people think Volvo is a tiny little car.

The full absurdity of this thinking becomes apparent when you consider that Volvo is built in Sweden, the land of the vikings. Did you ever hear of a four-foot viking?

Actually, Volvo is built for six-footers.

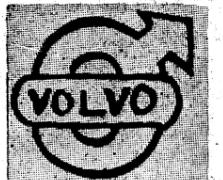
In the front, Volvo has only three-tenths of an inch less legroom than a Buick Riviera. In the back, it has two-tenths of an inch more

legroom than a Chrysler. In headroom, Volvo has more than an inch on the Rolls-Royce Silver Shadow.

But, as everyone knows, quality matters more than quantity.

So we'll tell you about something Volvo has in common with the Rolls-Royce. Both have been voted among the seven best-made cars in the world by Road & Track Magazine.

Which means the Volvo you buy should definitely not have a bug in it.



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