

# the ROCKET

VOL. XXIV; NO. 11  
AUGUST 6, 1975

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Redstone First In Army

## Computer-Run Power Management

The Utilities Branch at Facilities Engineer is in the final stages of installing the first phase of a new computerized power management system that is expected to cut the installation's electricity use by about 20 per cent and save \$25,000 per month in electricity costs.

Even greater savings will be realized when phases 2 and 3 are added later. The first phase is expected to be in full operation by September 1.

The system is of a type being used with success by a few large businesses.

Redstone is the first Army activity to install a system, the first within the Defense Department as far as is known. The effort here is stimulating a Defense-wide interest in computerized power management.

The power management system consists of a computer—called a process controller in this application—which controls electricity consumption by not letting it exceed an amount that has been programmed into the computer.

The IBM System 7 computer is tied by telephone lines to air conditioning and heating units in 125 buildings here, and to two substations where it receives, then integrates and projects, timing and demand impulses as electricity feeds into the arsenal from TVA.

When impulses tell the computer that electricity demand is going to exceed the target demand that has been programmed into it, the computer begins throttling back the air

handling units according to a control strategy that is also programmed into it.

Additionally, the computer automatically turns the units off at night and on weekends and holidays, and restarts them before the start of business each day.

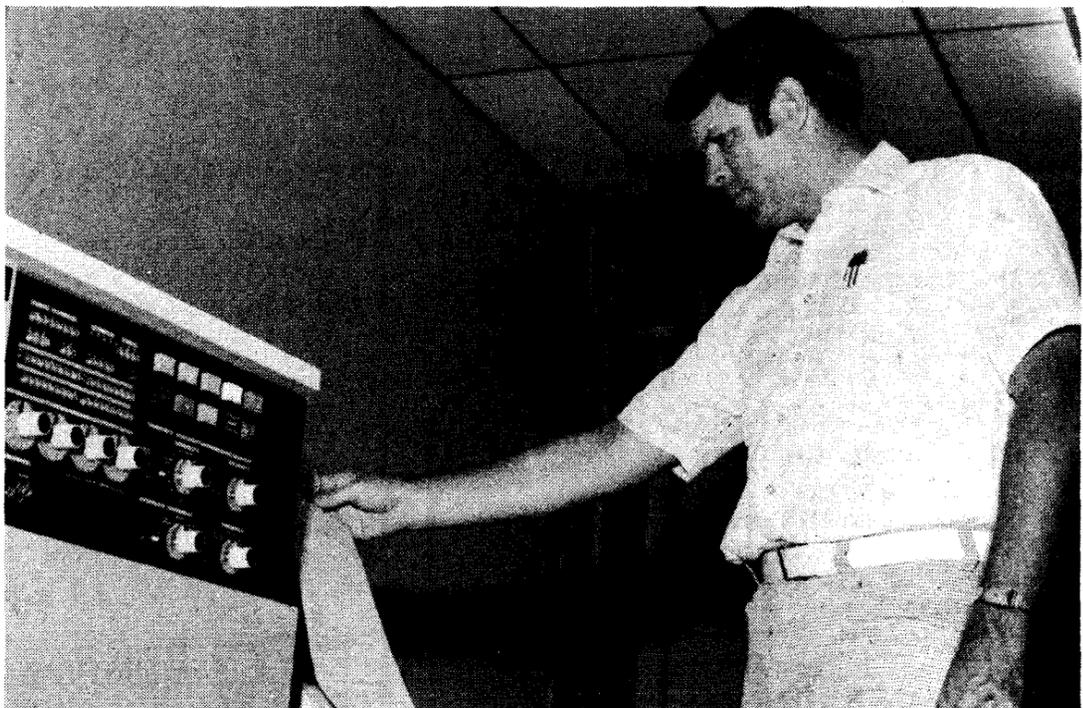
The air handling units in the 125 buildings included in phase 1 represent 16 per cent of the installation's total current load in summer. Phase 2, which is expected to be completed in a few months, will add 60 or 70 more buildings to the computer, and will bring from 25 to 40 per cent of the total current load under computer control. The third phase is at least a year in the

future and possibly will bring Marshall Center, Thiokol, and equipment other than air handling units into the power management system.

The system, which represents an outlay close to \$100,000 is expected to pay for itself in less than a year, perhaps far less, according to Ron Harmon and Jim Campbell who have headed the project for Facilities Engineer. Campbell is chief of the mechanical section in the Utilities Branch, Harmon chief of the sanitation section.

They said Redstone is the Army's biggest user of electrical energy, ranking fourth or fifth among all

See Next Page



**CHECK-OUT**—Jim Campbell puts the power management computer through a check-out sequence. Campbell and Ron Harmon, both section chiefs with the Utilities Branch, have headed up installation of the power management computer.

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## President Picks Former Officer For Army Job

WASHINGTON (ANF) — The nominee to be the new Secretary of the Army is a lawyer and former Army officer. DoD General Counsel Martin R. Hoffmann



HOFFMAN

is the President's nominee to succeed Howard H. Callaway who resigned July 3.

Hoffmann received an Army ROTC commission from Princeton University in 1954. He is a former "Screaming Eagle" having served with the 101st Airborne Division at Fort Campbell, Ky., from 1954 until 1958 when he left active duty.

Hoffmann has served in various government positions since graduating from the University of Virginia Law School in 1961. Included are: law clerk; assistant U. S. attorney; minority counsel for the House Judiciary Committee; general counsel of the Atomic Energy Commission and legal counsel for Senator Charles H. Percy.

Hoffmann served as special assistant to the secretary of defense and deputy secretary before being appointed DoD general counsel earlier this year.

Hoffmann's appointment as Secretary of the Army must be confirmed by the Senate before he takes office.

## Blood Response Down In July

The American Red Cross brings its Bloodmobile to Redstone again Aug. 20. From 8:30 a.m. to 3 p.m., military and civilian workers may donate at the Service Club.

The 8th Student Company of the Missile and Munitions Center and School was awarded the Red Cross best unit participation trophy for July. Fifty per cent of the unit—82 soldiers—donated.

The School's 6th Student Company led in donations for June, mustering 84 donors for 46.9 per cent participation.

Arsenal-wide, 413 pints of blood were accepted from 461 participants, representing 82.6 per cent of the Red Cross goal. For June, 458 pints were accepted from 523 participants. The amount was 8.4 per cent short of the goal.

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## The Rocket

The Rocket is published weekly, on Wednesday. The publisher will receive editorial content for publication in the Rocket through the Information Office, Army Missile Command, Redstone Arsenal, Ala., 35809, Bldg. 5250, Room A-134. Extension 876-1400 or 876-1500.

All advertising copy and payments therefor are received by Mrs. Vergie Robinson Menefee, P. O. Box 5351, Huntsville, Ala., 35805, telephone 837-8595, as representative of the publisher. Advertising deadline—both display and wantads—is 10 a.m. Monday before publication.

The Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for the Rocket are \$9.54 a year, or \$6.36 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 930, Hartselle, Ala. 35640.

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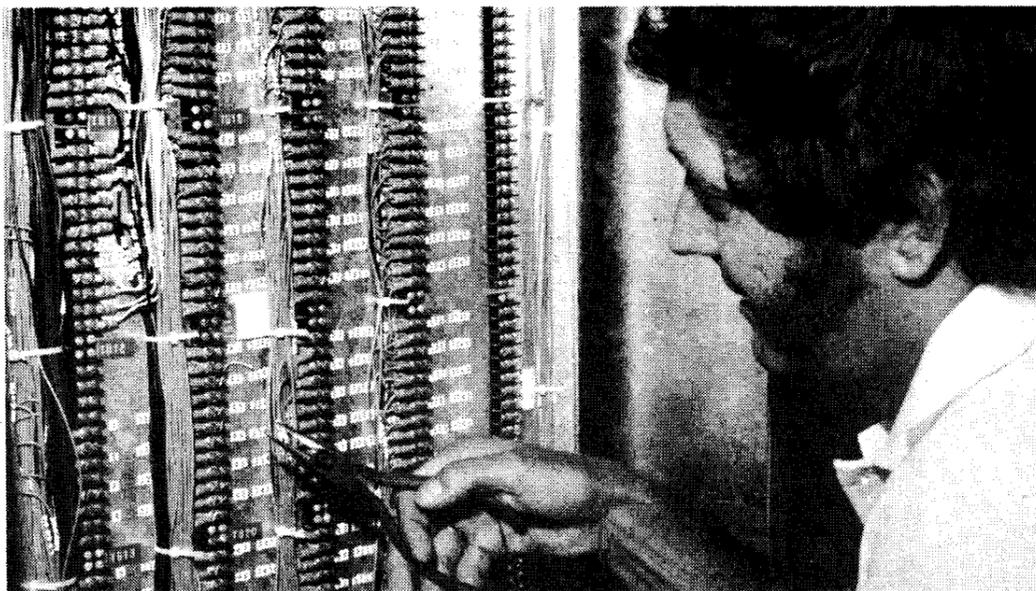
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CIRCUITS—Tom Warren wires in one of the power management computer's circuits. The panel contains 393 hook ups to air handling units in 125 buildings here.

## Computer-Run Power

Continued From Front Page

Defense activities. During the year ending in May electric bills averaged a quarter million dollars a month here. This summer they've been around \$300,000.

Harmon and Campbell explained that in addition to being billed like a homeowner for the volume of electricity actually used, Redstone also has to pay a demand charge. This charge, which accounts for nearly half the monthly bill, is required by TVA in return for the power company's maintaining the generating capacity to provide power to the arsenal in periods of peak demand. The effect is that Redstone pays many thousands of dollars each month for the convenience of having electricity available that it may not use.

The peak on which the demand charge is based is the highest volume of electricity used during any 30 minute period in the previous month. It is measured at the two substations by demand meters to which the computer is connected.

The computer can save thousands of dollars in demand charges, Harmon and Campbell said, since it will not let

demand rise above the target demand that has been programmed.

The computer automatically goes into the programmed control strategy when signals from the demand meters are projected and tell the computer that demand is going to exceed the target.

Time of day, outside temperature and season help determine the computer's strategy in throttling back air handling units. For example, on a summer morning it will shut down units in buildings with a westerly exposure before it will shut down those facing the sun.

The strategy also takes into account the priority assigned a particular air handling unit in a building. Units in buildings where there is equipment that is sensitive to temperature change will be throttled back for only very brief periods if at all.

Units in "desk" areas may go off for up to 10 minutes, although normally for not more than 4 or 5 minutes.

The computer is programmed so that no air handling unit goes off more than twice in a half hour.

Discomfort to personnel while the computer is carrying out its control strategy should be minimal because of the wide range of options it has.

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# Not The Panacea

Brig. Gen. (Ret.) Elizabeth P. Hoisington told a group of more than 500 women and managers Wednesday attending a luncheon at the NCO Open Mess to observe International Women's Year (IWY) that ERA per se will not eliminate discrimination, and that if the amendment is ratified we aren't going to wake up the next morning and find everything changed.

She said we now have laws assuring equality in employment if the laws are enforced.

Her advice to women in government follows these lines:

—Get all the training you can to prepare yourself for a better job. Don't sit back on your laurels, then claim discrimination when you fail to advance.

—Women have to work harder and be better prepared than their male counterparts to get ahead. Accept that and do the best work you can. Set the sky as your limit.

—Women frequently are their own worst enemies. Instead of criticizing each other, they should stick together.

—Treat people like human beings. Learn to work with others.

Citing as an example of good work that pays off, she told of the situation in the Women's Army Corps when the highest rank women could achieve was Lieutenant colonel except for the director's position which was a colonel. She said that the WAC lieutenant colonels who kept right on working believing they had reached the highest rank they could hold were the ones who got the promotions when the law was changed to permit colonels and a brigadier general in the Corps.

General Hoisington, who was the first WAC to reach general officer rank, was invited to speak at the luncheon by an informal committee of women representing Army organizations in the Redstone area and Marshall Space Flight Center.

July was chosen as the month for this program as it had been designated the one to recognize women in government. Other programs are being planned for the rest of the year to observe IWY.



IWY NOTED—Brig. Gen. (Ret.) Elizabeth P. Hoisington, right, spoke on women in government at a luncheon Wednesday at the NCO Open Mess as part of a continuing program to observe International Women's Year. With her are Capt. Paula Schell of MMCS and Arleta Martin, MICOM Federal Women's Program coordinator. More than 500 persons from Army organizations in the Redstone area, Marshall Space Flight Center and guests from Huntsville attended.

## Encouraging Trend . . . .

# Efficiency Gap Closing

WASHINGTON—The Army yesterday released a 1972 officer efficiency report analysis which showed black officers received significantly lower efficiency ratings than white officers.

According to LTC D. R. Butler, who compiled the statistics, the analysis showed as black officers progressed to lieutenant colonel and colonel their rating averages became more comparable to the ratings of white officers in the same grade.

Analyses concerning this area of equal opportunity are part of the Army's recently released affirmative actions plan. The plan is designed to reduce discrimination in all areas of Army life.

Butler studied data from three separate OER forms used from 1956 thru 1971. He developed a comparative distribution of ratings for black and white officers and tabulated them into three groups, high, medium and low.

Black officers showed a consistently higher percentage of rating than white in the low group while white officers showed a higher percentage than blacks in the high group.

For example, junior officer ratings during the period April 1, 1968, to December 31, 1971, showed 37 percent of black officers received a high rating - 220-240 points - as compared with 54 percent for white officers. Fifty one percent of the blacks got a middle rating - 200-220 points - while 38 percent of the white officers got middle ratings. At the bottom, 13 percent of the black

junior officers were rated low - below 200 points - as compared to eight percent for white officers.

The Army said it is encouraged by the fact that the disparity seems to have decreased in recent years. For example, during the period 1956 to 1961, proportionately twice as many white officers received scores in the high range as black officers, but by 1971, this disparity had been cut about in half.

The Army said it has continued to monitor the OER system to determine comparative trends in scores black and white officers receive.

Since January 1973, the difference in most ratings is one or two points out of a possible 200. In the case of warrant officers, the average score for black warrant officers was several points higher than for white warrant officers.

There are probably a number of reasons for the disparity in scores examined in the study. Butler attempted to isolate some possible factors such as source of commissioning, education level, and related kinds of things. This effort, however, did not result in any meaningful pattern.

The results of Baker's study have been briefed to all officer promotion and school selection boards. Non commissioned officer promotion boards are briefed also on the assumption that such a disparity was also present in the enlisted evaluation report system.

## Military Procurement . . .

# Senate Orders Rework

WASHINGTON—The U. S. Senate last week killed the military procurement authorization and appropriation bill by a vote of 48-42.

The effect of the senate action is to sent back to a joint Senate-House conference committee for rework, legislation which includes most of the fiscal authority for military weapons programs.

The bill defeated in the senate also included the following items of interest to the Army:

—A limit on military pay raises of five percent provided the same ceiling is applied to Civil Service

personnel.

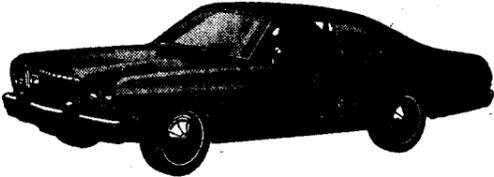
—Authorization to admit women to service academies beginning in 1976 and requirements to establish equal admission standards for both sexes.

—A reduction of 9,000 military and 23,000 civilian spaces within the Defense Department.

The defeated bill also contained language which would have resolved the so called "retired pay inversion" problem by assuring those who retire now and in the future would not receive less retirement pay than if they had retired earlier.

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## Ex-Teacher Is Top Instructor

The Missile and Munitions Center and School's Instructor of the Quarter board has determined that, from May through July, Sergeant First Class James C. Hardin was unequalled among instructors here.

The 43-year-old native of Elizabethton, Tenn., teaches non-commissioned officers in the Army service school's Command Management-Leadership Division. He has been at Redstone since December of last year.

He was named Instructor of the Quarter following competition here.

Hardin joined the Army in September 1950, returned to civilian life in 1952 and taught school in Elizabethton before re-enlisting in 1958. He earned a masters degree from Central Michigan University in 1974.

## Proudfoot Closes Military Career

Maj. Gen. Robert J. Proudfoot who served first as Shillelagh and then Lance Project Manager at MICOM from 1968 until 1971, retired from the Army last week at the White Sands Missile Range which he had commanded the past year.

He plans to live in Norwalk, Conn., where he has accepted a program manager position with United Aircraft.

The general entered the missile field in 1953 when he attended the then Ordnance Guided Missile School at Redstone.

# Lance Chief Promoted To Brigadier General

Colonel Grayson D. Tate, Jr., Project Manager for the Army's Lance battlefield missile, was promoted to Brigadier General Friday when MG Vincent H. Ellis, aided by Mrs. Tate pinned stars on the 46-year-old Texan.

Also present for the promotion were the Tate children, Debra, Randy, Lauren and Lisa; General Tate's parents, Mr. and Mrs. G. D. Tate of Denver City, Texas; and Mrs. Tate's parents, Mr. and Mrs. Charles Hashagen of Naples, Fla.

Born in Lockney, Texas, Tate attended high school in Denver City, Texas, and is a 1950 graduate of the U. S. Military Academy. He holds bachelor's and master's degrees in Aeronautical Engineering from Georgia Tech and is a graduate of the Army Command and General Staff College, Armed Forces Staff College, and Industrial College of the Armed Forces.

Now serving his second assignment at Redstone, Tate has enjoyed a diverse Army career with Field Artillery missile systems and research and development. During his first assignment at Redstone, 1958 to 1961, he was Chief of the Technical Intelligence Division, and later Chief of the Research Plans Division in what was then the Army Ordnance Missile Command.

Tate returned to Redstone in 1974 to become Lance Project Manager.

Just prior to coming here, he was Director of the Gunnery Department in the Field Artillery School



Brig. Gen. and Mrs. Tate with Randy, Lisa, Lauren, Debbie

at Ft. Sill, Okla., where he was responsible for technical courses the Army taught on Sergeant, Honest John, Pershing and Lance missiles.

Among missile assignments, Tate was a battery commander in the Army's first missile battalion (Corporal) at Ft. Bliss, in the early 50s; commanded a Sergeant missile battalion at Fort Sill; served two tours in the Office of the Chief of Research and Development in the Pentagon and one in the Office of the Assistant Secretary of the Army for Research and Development; and commanded the 4th U. S. Army Missile Command in Korea.

Among medals and awards he holds the Legion of Merit with Oak Leaf Cluster, Bronze Star Medal and Purple Heart.

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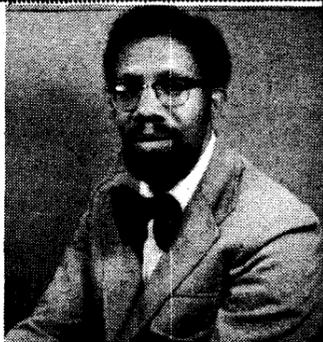
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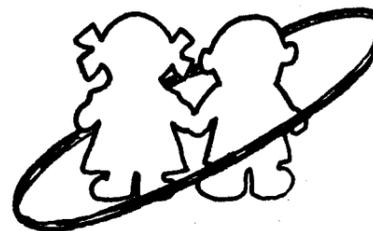
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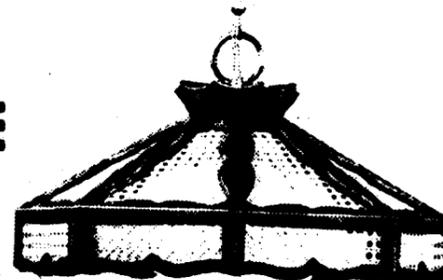
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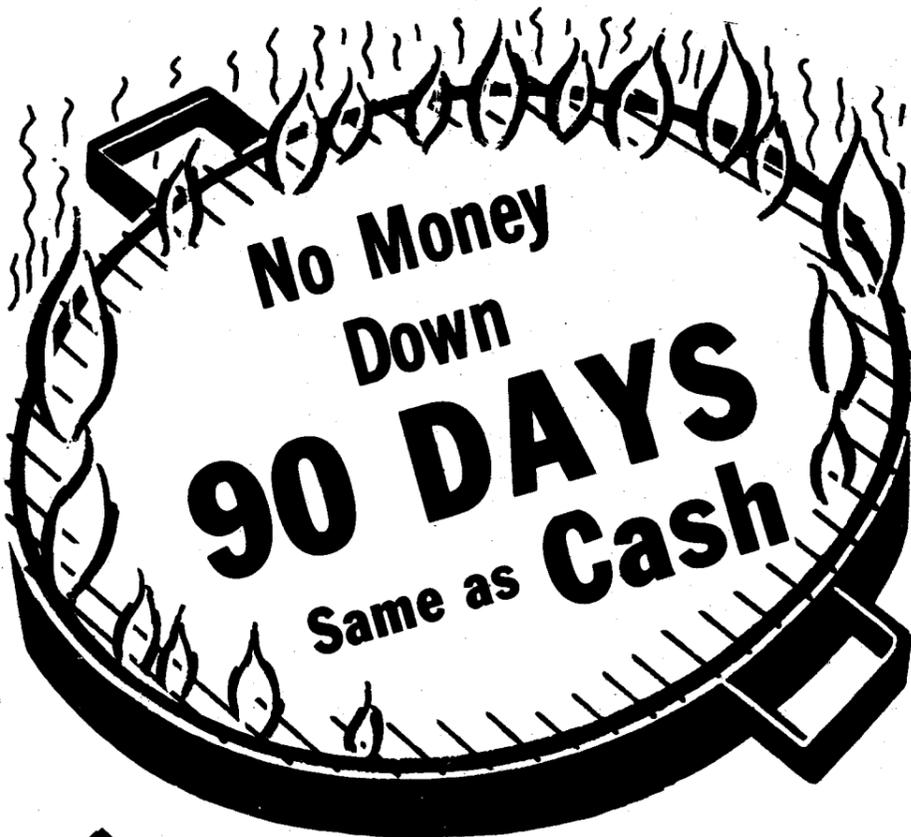
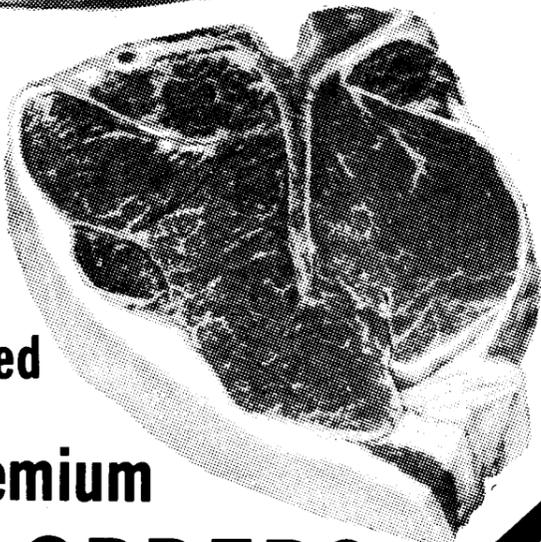
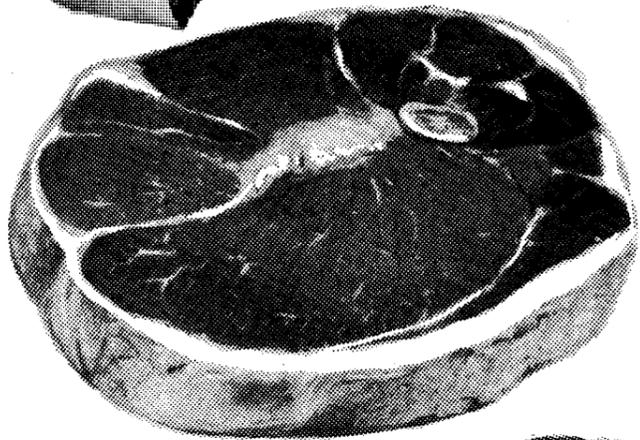
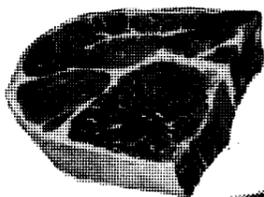
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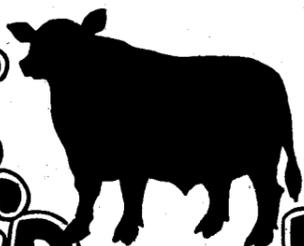
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# Speed, Finesse Was Grant's Hole Card

The backbone of the Confederacy ran east and west, that of the United States, north and south. The two crossed at Vicksburg.

In spring of 1863 some 40,000 Confederate soldiers and many pieces of artillery commanded the Mississippi River from the high bluffs on the east bank at Vicksburg. While they stayed there, the Confederacy remained whole and its impossible dream might live.

The dream had finite dimensions by then, about 200 miles of river downstream to Port Hudson. So long as the South controlled that stretch of the Mississippi, horses, food, arms and other war materiel could sustain its armies from the vast area west of the river.

Holding Vicksburg, the soldiers on the bluff also denied the Union use of the great river highway.

The entire Union Army of the Tennessee had spent a frustrating winter huddled in muddy camps on the west side of the river just above Vicksburg trying to figure a way to crack the Confederate stronghold.

So far they had failed, but not for lack of effort. Canals had been dug in a futile attempt to reroute the Mississippi or to get steamboats safely by the Vicksburg batteries. Men and steamboats had floundered about in the flooded swamps north of the city vainly trying to get troops ashore on the east bank. All this had produced nothing substantial, but it had thoroughly alarmed and confused the Confederate commander who reported the Yankees "in motion in all directions."

His opposite number in the Union camp had concluded by late March that the only path to Vicksburg for an attacking army would be from east of the city. He had decided to run great risks to get his soldiers there.

transports would run down past the Vicksburg guns, some would doubtless be sunk, but enough should make it to get the army across the river. Once there it could circle inland and see about Vicksburg.

All this would require speed and finesse because there were two Confederate armies in Mississippi and it would be necessary to keep them apart and off balance until they could be defeated. A serious repulse or prolonged delay would mean the end. Once ashore in Mississippi there would be no retreat.

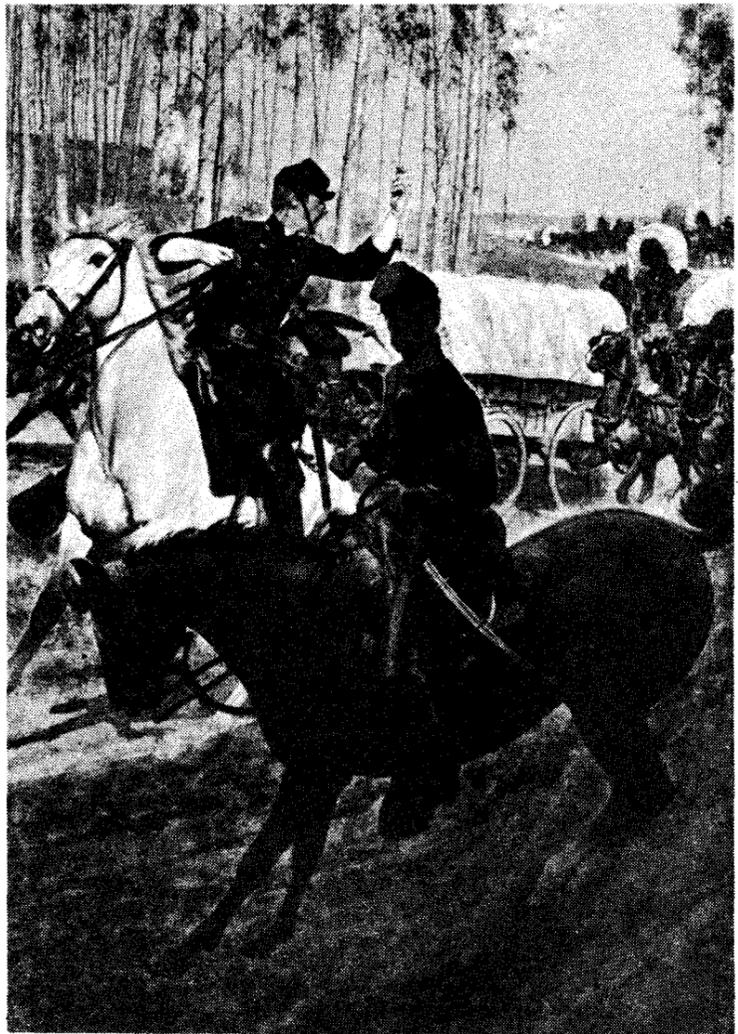
Most of Grant's senior officers thought betting everything on the turn of a card a bad idea. His plan, Grant knew, would scare the daylights out of his superiors in Washington, a problem he solved by not telling them of it until he was gone down the river beyond recall.

While some of his soldiers acted as though they would assault Vicksburg from the north, most of Grant's army went south in early April, corduroying roads to cross swamps, tearing down houses and barns to throw bridges across flooded bayous.

On the night of April 17, the Navy ran the Vicksburg batteries and more steamboats packed with rations made it down a few nights later. Then raiding Union cavalry went slicing down through central Mississippi raising alarm and confusion all the way to Louisiana.

In the first week of May, the distracted Confederate commanders discovered Grant and most of his 45,000 soldiers across the river below Vicksburg and the others hurrying down to join them.

Grant's soldiers could see his plan taking shape now, approved it, and their morale soared. He sent them east for Jackson with five days rations in their packs and the Commanding General's



THE AMERICAN SOLDIER, 1863

Cavalry Sergeant, Ordnance Officer.  
Wagon Trains.



This was former Captain Sam Grant, the tanner's son from Galena, Illinois, who although a general now, still looked like a man who once may have drunk too much. Good men had been urging Abraham Lincoln that winter to sack U. S. Grant. Although the whole expedition to open the Mississippi looked to be a flat failure from Washington, Lincoln told those who urged Grant's relief: "I can't spare this man. He fights."

Grant would fight all right, but first he had to get his men on the same side of the river as his enemy. So he sat in his headquarters steamboat moored to the levee, smoked cigars by the handful and devised a daring plan.

His army would go down through the swamps on the west bank opposite Vicksburg, 15 or 20 miles. Gunboats and

okay to take what they needed in the way of food and transport from the Mississippi countryside.

They did it throughly and a wierd collection of buckboards, carts, carriages, farm wagons and a horse drawn hearse or two packed with turkeys, hams, sheep, chickens and other good things to eat bobbed along in the wake of the army.

Brushing aside a smaller Confederate army, they took Jackson on May 15, more accurately they took the Mississippi capital apart, destroying the railroad, burning factories and a good deal more, then turned and struck straight west for Vicksburg.

The Rebel defenders had been thrashing about between Jackson and the river trying to cut Grant's supply line, a difficult task since there was none to cut. The ar-

mies fought twice, at Champion's Hill and along the Black River. By May 18, the Rebels had been pinned in the fortified lines at Vicksburg. Grant's soldiers had the high bluffs north of the town and very soon over those bluffs would come many more Yankee soldiers and the supplies needed to sustain a siege.

Its outcome never in doubt, the siege wore on for several weeks while Union soldiers sweated in sweltering trenches and lobbed hugh mortar shells into Vicksburg where the defenders soon were eating the last of their mules.

While the siege went on, the nation's attention shifted to Southern Pennsylvania where the Confederate Army of Northern Virginia and the Union Army of the Potomac fought for three terrible days on the slopes of some insignificant little hills south of the crossroads town of Gettysburg.

It ended there on the afternoon of July 3. About the time George Pickett's Virginians and two other divisions came out of the woods, formed up under fire, and began the final charge that took them into legend but not through the Union line atop Cemetery Ridge, a flag of truce came through the lines at Vicksburg.

On July 4, while the shattered Confederate army stumbled away from Gettysburg heading south for the Potomac River crossings, the defenders of Vicksburg put down their arms and went off as paroled prisoners of war.

Port Hudson, the last Confederate stronghold on the Mississippi, surrendered too as soon as news of the defeat at Vicksburg got downstream.

The South would die slowly over the next two years, its armies dangerous to the last, but it had been cut in half now. The wound Grant and his soldiers inflicted at Vicksburg was mortal.

Abraham Lincoln would go to Gettysburg soon and speak immortal phrases, but he caught the significance of Vicksburg in 10 plain words:

"The Father of Waters again goes unvexed to the sea."

#### Sources:

"American Military History 1607-1958," Department of the Army.

"U. S. Grant and the American Military Tradition," by Bruce Catton, Crosset & Dunlap, New York.

"Never Call Retreat," by Bruce Catton, Doubleday & Company, Garden City, N. Y.

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# Raytheon Wins Dragon Award

The Missile Command has awarded four contracts totaling approximately \$91.7 million for high rate production of Dragon anti-tank missile equipment.

Calling the awards a milestone in the Dragon program, Colonel Arthur L. Goodall, Project Manager said the contracts call for 1976 production of Dragon missiles and launchers (rounds), electro-optical trackers, and quantities of initial repair parts.

"The Army needs the shoulder-fired tank killer and the awards mean we have authorization to go into full production and get the system in the field," Goodall said.

MICOM awarded two contracts to McDonnell-Douglas Astronautics Company, Dragon prime contractor at Titusville, Fla., one for approximately \$36.1 million for Dragon rounds and the

other for \$10.6 million for trackers; another contract to Kollsman Instrument Company of Syosset, New York, for \$12.3 million for trackers and initial repair parts; and a fourth award to Raytheon

Company for \$32.7 million for Dragon rounds.

McDonnell Douglas is developer of the Dragon system and a current round and tracker producer while Raytheon was selected in 1972 as

an alternate round producer and Kollsman in 1973 as a second source producer of trackers.

The award to Raytheon is one of the largest ever to a Huntsville based company. Raytheon manufactures Dragon components at Bristol Tenn., but final assembly of rounds, including warhead and packaging for delivery to the Army, is performed in government owned facilities at Redstone.

Vincent Murray, Bristol Plant Manager, said the award "... means we could just about triple our facilities at Redstone and hire about 250 additional people, starting in a year." The Redstone facility presently has about 50 employees but could build up to approximately 300, Murray said.

Colonel Goodall said all contracts contain options for follow-on requirements.



**NEW DIRECTOR.** BG Mary E. Clarke is the new director of the Women's Army Corps. A native of Rochester, N.Y., she got her first star and assumed her new job on August 1. General Clarke entered the Army in 1949 and previously was chief of the WAC branch of MILPERCEN. (U. S. Army Photo)

## Evacuees May Enlist

**WASHINGTON (ANF)**—The U.S. may soon be recouping a portion of the military training and skills given to former Indochina allies.

The Department of Defense recently announced that Cambodian and Vietnamese refugees who meet current service standards, have been admitted to the U.S. as resident aliens and who have undergone training by U.S. armed forces will be given preferential enlistment into the

**U.S. MILITARY SERVICES.**

It is estimated that there are between 6,000 and 8,000 refugees who potentially fall into this category. Of these, some have yet to receive resident alien status.

In addition, another 11,000 to 13,000 male refugees of enlistment age who have not had U.S. military training will be allowed to compete with U.S. citizens for enlistment when they receive resident status; they will not receive preferential enlistment.



### ENOUGH LIFE INSURANCE

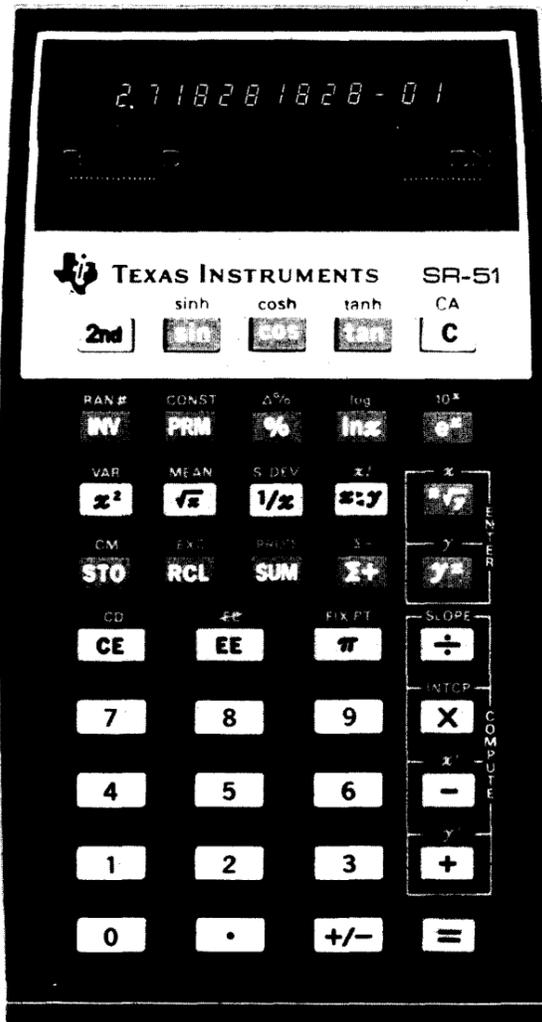
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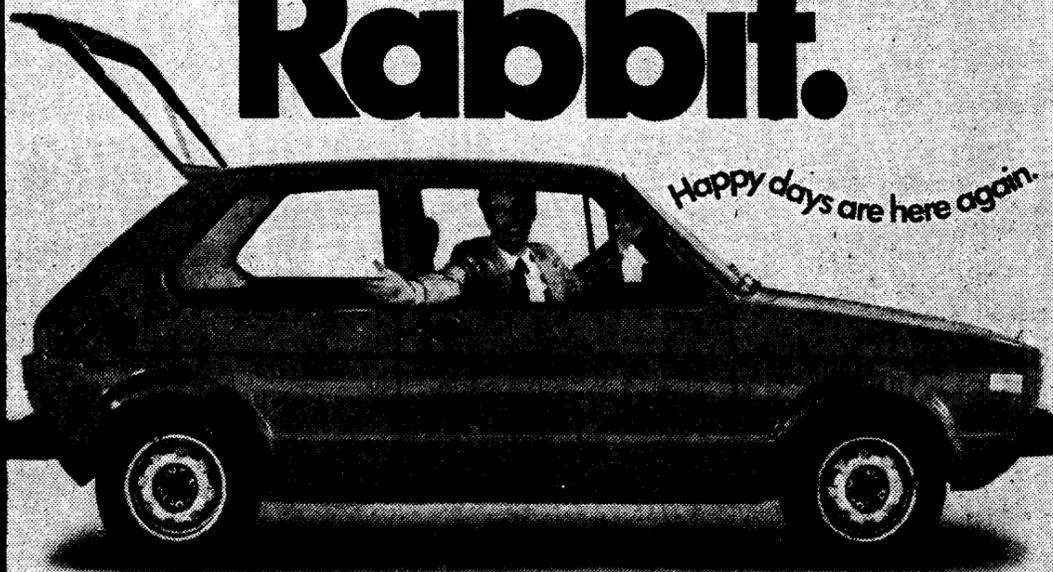
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economy tests. The Rabbit in the city averaged a nifty 24. Not bad for a sub-compact with all the interior room of some mid-size cars.

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Learning is truly a lifelong experience, and we at The University of Alabama in Huntsville believe that participation in this activity could be your best investment for tomorrow, personally and professionally. Thus, we want to provide you with the right courses, at the right times, and with a minimum of admission and registration problems.

## COURSES OFFERINGS

The following courses are available to the general public during the Fall Term (September-November), 1975. Courses numbered CE are non-credit offerings. There are no admission requirements for these courses; prerequisites, where shown, are given to indicate the instructional level and the suggested background of the attendees.

Certain courses may be taken for academic credit. Regular students may enroll in these courses, and persons who have not been admitted to UAH may enroll as non-matriculated students.

## REGISTRATION AND RESERVATIONS

Non-credit and non-matriculated registration for full-term courses will be held on Thursday, September 4, 1975, in Room 235, Madison Hall. The hours are 9-12 and 1-6. (Regular students register for full-term credit courses using the standard procedures.)

Registration for short-term courses and weekend seminars will take place at the start of the first session. This applies to non-credit as well as all credit students. Reservations in these special offerings are required, normally at least 7 days prior to the starting date. Persons who apply through a governmental or industrial training office for these courses should personally verify their reservations by telephoning 895-6010.

ADVANCED NON-CREDIT REGISTRATION AND RESERVATIONS FOR CREDIT COURSES MAY BE COMPLETED BY MAIL, USING THE FORM AT THE BOTTOM OF THIS PAGE.

## FEES AND PAYMENTS

Except for regular students in full-term courses, fees for all courses must be paid at the time of registration. Purchase orders will be accepted from recognized firms and governmental agencies. Negotiations are currently being made to allow payment using bank credit cards.

The listed fees for on-campus offerings include a \$3 registration fee. This is non-refundable. Other fees may be refunded after the start of a course, on the basis of a prorated schedule, with no refunds after 30% of the sessions.

## MOTOR VEHICLE PERMITS

The University of Alabama in Huntsville requires registration of all motor vehicles operated on the campus by students in full-term courses. The annual registration fee is \$5 per vehicle. Students in short-term and weekend offerings will be provided guest parking permits without charge.

## ASSOCIATE AND POST-GRADUATE PROGRAMS

The UAH Division of Continuous Education offers credit programs at the associate and post-graduate levels. The Associate Certificate may be earned in Child Development, Interior Decoration, and Law Enforcement. These programs require 30 semester hours of credit in a specialty curriculum plus 30 semester hours of general education.

Persons holding a bachelor's degree may earn the Post-Graduate Certificate in General Administration, Program Management, Contract Administration, Industrial Administration, Logistics Management, General Technology, Sensor Systems, Electronics Technology, Aeromechanical Technology, or Computer Technology. Requirements include 15 semester hours of credit in a curriculum of 500-level (or higher) courses.

## INFORMATION

For additional information concerning these and other special offerings of UAH, contact the Division of Con-

## SOMETHING'S WRONG WITH MY CHILD: CHILDREN WITH LEARNING PROBLEMS

(CE-R16—2 c.e.u.)

Instructor: Allan I. Markle; Ph.D.; Mental Health Center  
Schedule: Tuesdays, 7:00-9:00 p.m.; Sept. 9-Nov. 11  
Fee: \$40, plus textbook

A course for parents of children with learning problems. Areas of discussion include causes of learning and behavior problems, identification in children, and methods of treatment.

## PROPHETS OF ISRAEL HUNTSVILLE-VANDERBILT STUDY FORUM

(HUM-491—2 s.h.)

Instructor: Walter Hurrellson; Th.D.; Vanderbilt Divinity School  
Schedule: Tuesdays, 7:00-9:00 p.m.; Sept. 23-Dec. 9

Fee: \$53, plus textbook (academic credit only)  
Discussion dealing with the prophets Amos, Hosea, Isaiah, and Micah. Central to the discussion will be a pairing of events and themes from the past with comparable events and themes in our current lives.

## FUNDAMENTALS OF HOME FURNISHINGS

(ID-101—3 s.h.; IDN-101—4 c.e.u.)

Instructor: Section A—LaMerle Mikell; B.S.; Interior Decorator  
Section B—To be announced  
Schedule: Section A—T&T, 9:00-11:00 a.m.; Sept. 9-Nov. 20  
Section B—Sat., 8:30-12:30; Sept. 6-Nov. 15

Fee: \$78, plus textbook  
An introductory survey of furnishings for the home; design terms, styles of furniture, customer buying of furniture. This is the first course in the interior decoration series.

## INTRODUCTION TO INTERIOR DECORATION

(ID-102—3 s.h.; IDN-102—4 c.e.u.)

Instructor: LaMerle Mikell; B.S.; Consulting Interior Decorator  
Schedule: Tues. and Thurs., 6:00-8:00 p.m.; Sept. 9-Nov. 20  
Fee: \$78, plus textbook

Introduction to the principles and practices of interior decoration; space planning, color theory; materials, design of interior elements. Prerequisite: ID-101 or equivalent.

## PERIOD STYLES

(ID-309—3 s.h.; IDN-309—4 c.e.u.)

Instructor: Ralph M. Hudson; Ed.D.; UAH (Retired)  
Schedule: MWF, 10:50-12:05; Sept. 8-Nov. 20  
Fee: \$78, plus textbook

An illustrated survey of the historical development of period styles, European and American, including a discussion of contemporary trends. Primarily for students in interior decoration program.

## INTRODUCTION TO CHILD DEVELOPMENT

(CD-101—3 s.h.—CDN-101—4 c.e.u.)

Instructor: Joseph R. Tremul; M.Ed.; Mental Retardation Services  
Schedule: Mon. and Wed., 6:00-8:00 p.m.; Sept. 8-Nov. 19  
Fee: \$78, plus textbook

Introduction to the physical, social, emotional, and mental development of the young child. Primarily for workers in preschool centers and programs.

## INTRODUCTION TO CRIMINAL JUSTICE

(LE-101—3 s.h.; LEN-101—4 c.e.u.)

Instructor: John F. Faraci; J.D.; Attorney, Army Missile Command  
Schedule: Tues. and Thurs., 6:00-8:00 p.m.; Sept. 9-Nov. 20  
Fee: \$78, plus textbook

An introductory survey of the criminal justice systems: historical background; constitutional limitations; pre-trial, trial, and post-trial processes; evaluation of criminal justice today.

## PROBATION AND PAROLE

(LE-305—3 s.h.; LEN-305—4 c.e.u.)

Instructor: Millard Earl Moon; M.A.; U.S. Probation Officer  
Schedule: Saturdays, 8:30-12:30; Sept. 6-Nov. 15  
Fee: \$78, plus textbook

An examination of procedures for the release of convicted law violators. This course is primarily intended for law enforcement personnel. Prerequisite: LE-101 (or equivalent) or upper-division standing.

## BUSINESS AND MANAGEMENT

### PRINCIPLES OF SUPERVISION

(CE-S11—2 c.e.u.)

Instructor: William A. Klabunde; M.A.S.; Northrop Services, Inc.  
Schedule: Mondays, 6:00-8:00 p.m.; Sept. 8-Nov. 10  
Fee: \$53, plus textbook

A practical course in the concepts and practices of management for supervisors. This is the first course in a Supervisory Management Certificate Program.

### SMALL BUSINESS MANAGEMENT

(CE-S41—2 c.e.u.)

Instructor: Charles A. Hopson; M.B.A.; Southeastern Food Franchises  
Schedule: Wednesdays, 6:00-8:00 p.m.; Sept. 10-Nov. 12  
Fee: \$53, plus textbook

A practical course in the organization and management of small businesses. This is a first course in a Small Business Management

## PERT-CPM WORKSHOP

(CE-S37—2 c.e.u.)

Coordinator: Patrick B. Lawler; M.S.E.; U.S. Army Missile Command  
Schedule: Short-Term Course: Oct. 20-24; Monday-Friday, 8:00-12:00 noon. Reservations by Oct. 13.  
Fee: \$125, materials included

A practical workshop on Program Evaluation Review Technique (PERT) and Critical Path Method (CPM) used in program and project planning, scheduling, and control.

## DECISION MAKING FOR MANAGERS

(CE-S34—2 c.e.u.)

Instructor: To be announced  
Schedule: Short-Term Course: Nov. 17-21; Monday-Friday, 12:30-4:30 p.m. Reservations by Nov. 10.

Fee: \$125, materials included

A practical course in decision techniques. Emphasis is on structuring the decision problem, dealing with uncertainty, determining risks, and the value of information.

## MULTIPLE OBJECTIVE DECISION MAKING

(CE-S62—1.4 c.e.u.)

Instructor: James P. Ignizio; Ph.D.; Pennsylvania State University  
Schedule: Weekend Short Course: Nov. 22 and 23, 8:30 a.m.-5:00 p.m. Reservations by Nov. 17.

Fee: \$100, materials included

An intensive study of solving multiple objective decision problems using goal programming techniques. Prerequisite: Decision Making for Managers (CE-S34) or background in decision analysis techniques.

## FUNDAMENTALS OF PROGRAM MANAGEMENT

(MN-521—3 s.h.; MNN-521—4 c.e.u.)

Instructor: Richard H. Shuford, Jr.; D.B.A.; UAH Div. of Cont. Ed.  
Schedule: Short-Term Course: Nov. 3-14; Monday-Friday, 12:30-4:30 p.m. Reservations by Oct. 27

Fee: \$190, textbook included

Intensive survey of the principles and techniques involved in the management of programs. Prerequisite: upper-division or post-graduate standing.

## FUNDAMENTALS OF INDUSTRIAL ADMINISTRATION

(MN-581—3 s.h.; MNN-581—4 c.e.u.)

Instructor: John A. Kliesner; M.B.A.; GTE Automatic Electric  
Schedule: Mon. and Wed., 6:00-8:00 p.m.; Sept. 8-Nov. 19  
Fee: \$153, plus textbook

Intensive survey of the principles and practices involved in the administration of industrial organizations. Prerequisite: upper-division or post-graduate standing.

## FUNDAMENTALS OF CONTRACT ADMINISTRATION

(MN-541—3 s.h.; MNN-541—4 c.e.u.)

Instructor: William A. Parker; D.P.A. (Candidate); U.S. Army Missile Command  
Schedule: Short-Term Course: Sept. 22-Oct. 3; Monday-Friday, 12:30-4:30 p.m. Reservations by Sept. 15.

Fee: \$190, textbook included

Intensive survey of the principles and practices involved in the administration of contracts by and from federal agencies. Prerequisite: upper-division or post-graduate standing.

## CONTRACT CHANGES AND TERMINATIONS

(MN-545—3 s.h.; MNN-545—4 c.e.u.)

Instructor: Phillip H. Taylor; D.P.A. (Candidate); NASA MSFC  
Schedule: Saturdays, 8:30 a.m.-12:30 p.m.; Sept. 6-Nov. 15  
Fee: \$153, plus textbook

Detailed study of laws, regulations, and procedures pertaining to contract changes and terminations. Prerequisite: fundamental course in contracts and upper-division standing or equivalent.

## FUNDAMENTALS OF LOGISTICS MANAGEMENT

(MN-591—3 s.h.; MNN-591—4 c.e.u.)

Instructor: John C. Goodrum; M.S.; Society of Logistics Engineers  
Schedule: Saturdays, 8:30 a.m.-12:30 p.m.; Sept. 6-Nov. 15  
Fee: \$153, plus textbook

Intensive survey of the management principles and practices involved in the general field of logistics. Prerequisite: upper-division or post-graduate standing.

## DISTRIBUTION MANAGEMENT

(MN-594—3 s.h.; MNN-594—4 c.e.u.)

Instructor: Ronald Baudendistel; M.A.S.; Chrysler Corporation  
Schedule: Tues. and Thurs., 6:00-8:00 p.m.; Sept. 9-Nov. 20  
Fee: \$153, plus textbook

Detailed study of an integrated physical distribution system. Subsystems are studied under a total systems approach. Prerequisite: upper-division or post-graduate standing.

## OVERVIEW OF SPACE SCIENCES

(CE-T12—4 c.e.u.)

Instructor: Rudolf Hermann; Ph.D.; UAH Professor Emeritus  
Schedule: Short-Term Course: Nov. 3-14; Monday-Friday, 8:00-12:00 noon. Reservations by Oct. 27  
Fee: \$190, textbook included

An intensive survey of basic principles underlying the theories and observations of cosmic physical systems. Prerequisite: bachelor's degree in technical area or the equivalent.

## INTEGRATED ELECTRONICS

(CE-T29—4 c.e.u.)

Instructor: Donald K. Fronck; Ph.D.; UAH School of Sci. and Engr.  
Schedule: Short-Term Course: Sept. 22-Oct. 3; Monday-Friday, 8:00-12:00 noon. Reservations by Sept. 15.

Fee: \$190, textbook included

An introductory survey of the theory and application of semiconductor integrated circuits, including laboratory demonstrations. Prerequisite: engineering degree or considerable technical experience.

## ANTENNA DESIGN AND ANALYSIS

(CE-T33—4 c.e.u.)

Instructors: Jesse C. James; Ph.D.; Teledyne Brown Engineering  
Richard E. Lawrie; Ph.D.; Teledyne Brown Engineering  
Schedule: Short-Term Course: Sept. 8-19; Monday-Friday, 8:00-12:00 noon. Reservations by Sept. 1

Fee: \$190, textbook included

An intensive survey of antenna theory and design, primarily for persons working in radio-frequency systems or related areas. Prerequisite: bachelor's degree in a technical area or the equivalent.

## ARTIFICIAL INTELLIGENCE

(CE-T46—1.4 c.e.u.)

Instructor: Marvin L. Minsky; Ph.D.; Mass. Institute of Technology  
Schedule: Weekend Short Course: Oct. 18 and 19; 8:30 a.m.-5:00 p.m. Reservations by Oct. 10

Fee: \$60

A survey of topics in artificial intelligence, the area of computer science concerned with how machines can be made to act intelligently. Prerequisite: basic knowledge of computers.

## NUCLEAR TECHNOLOGY: POWER SYSTEMS

(MT-517—3 s.h.; MTN-517—4 c.e.u.)

Coordinator: N. Ricky Byrn; Ph.D. (Candidate); Science Appl., Inc.  
Schedule: Tues. and Thurs., 6:00-8:00 p.m.; Sept. 9-Nov. 20  
Fee: \$153, plus textbook

Intensive survey of the theory and techniques of nuclear systems, providing a basic understanding of modern nuclear power plants. Prerequisite: bachelor's degree in a technical area or the equivalent.

## FOUNDATIONS OF MODERN TECHNOLOGY I/ PROFESSIONAL ENGINEERING REVIEW I

(MT-501—3 s.h.; CE-T01—4 c.e.u.)

Instructors: Raymond C. Watson, Jr.; M.S.E.; UAH Div. of Cont. Ed.  
L. Wayne Johnson, Ph.D.; UAH Prof. of Math. (Retired)  
Schedule: Mon. and Wed., 6:00-8:00 p.m.; Sept. 8-Nov. 19  
Fee: MT-501—\$153; CE-T01—\$100; plus textbook

Intensive consideration of calculus, physics, mechanics and other foundation topics. With MT-502, CE-102, prepares for State engineering examinations. Prerequisite: degree in engineering or related area.

## MATHEMATICS OF MODERN TECHNOLOGY

(MT-504—3 s.h.; MTN-504—4 c.e.u.)

Instructor: L. Wayne Johnson; Ph.D.; UAH Prof. of Math. (Retired)  
Schedule: Saturdays, 8:30 a.m.-12:30 p.m.; Sept. 6-Nov. 15  
Fee: \$153, plus textbook

Survey of advanced topics in mathematics, especially useful in modern technology: differential equations, vector analysis, transform methods, etc. Prerequisite: degree in a technical area or equivalent.

## RADAR TECHNOLOGY: FUNDAMENTAL CONCEPTS AND SYSTEMS

(MT-511—3 s.h.; MTN-511—4 c.e.u.)

Instructors: Stephen M. Gilbert; Ph.D.; Dynetics, Inc.  
R. Duane Hays; Ph.D. (Candidate); Dynetics, Inc.  
Schedule: Mon. and Wed., 6:00-8:00 p.m.; Sept. 8-Nov. 19  
Fee: \$153, plus textbook

Intensive survey of radar theory, techniques, systems, and components. Appropriate for both specialists and non-specialists. Prerequisite: bachelor's degree in technical area or the equivalent.

## OPTICS TECHNOLOGY: CONCEPTS AND APPLICATIONS

(MT-525—3 s.h.; MTN-525—4 c.e.u.)

Instructor: R. Barry Johnson; M.S.; Teledyne Brown Engineering  
Schedule: Short-Term Course: Sept. 29-Oct. 10; Monday-Friday, 8:00-12:00 noon. Reservations by Sept. 22.

Fee: \$190, textbook included

Intensive survey of the principles of optics with applications in modern optical devices and systems. Prerequisite: bachelor's degree in technical area or the equivalent.

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**GENERAL INTEREST**

**REVIEW OF ENGLISH COMPOSITION (CE-R26—2 c.e.u.)**

Instructor: Patricia J. Yandle, M.S.; Johnson High School  
 Schedule: Mondays, 6:00-8:00 p.m.; Sept. 8-Nov. 10  
 Fee: \$40, plus textbook

A review of English composition which will assist adult learners in their development of vital skills in vocabulary, spelling, grammar, punctuation, and reading comprehension.

**REVIEW OF BASIC MATHEMATICS (CE-R27—4 c.e.u.)**

Instructor: To be announced  
 Schedule: Tues. and Thurs., 6:00-8:00 p.m.; Sept. 9-Nov. 13  
 Fee: \$78, plus textbook

A review of mathematical topics at the pre-college level, including arithmetical operations, fractions, decimal fractions, powers and roots, proportion, fundamental algebra, and geometry.

**SHORTHAND REVIEW (CE-R25—2 c.e.u.)**

Instructor: Sallie B. Berryhill, M.S.; Johnson High School  
 Schedule: Tuesdays, 6:00-8:00 p.m.; Sept. 9-Nov. 11  
 Fee: \$40, plus textbook

An intensive review of the theory principles, brief forms, phrases, and high-frequency words of Gregg Shorthand. This course is particularly designed for adults who wish to re-enter the secretarial field.

**KNOW YOUR CAR (CE-R40—2 c.e.u.)**

Instructors: M. Carl Ziemke, B.S.; Chrysler/UAH Autocheck Project  
 John Ondocsin, B.S.; Chrysler/UAH Autocheck Project  
 Schedule: Wednesdays, 6:00-8:00 p.m.; Sept. 10-Nov. 12  
 Fee: \$40, plus textbook

An introduction to your car, including information of basic parts and systems, operating functions, maintenance requirements, and basic repairs that can be performed with simple tools.

**CHINESE CULTURE AND LANGUAGE (CE-R04—4 c.e.u.)**

Instructor: Alice Hsiao-hwa Chang, M.A.  
 Schedule: Tues. and Thurs., 7:00-9:00 p.m.; Sept. 9-Nov. 13  
 Fee: \$78, plus textbook

A broad survey of China-related topics; conversational Chinese, introductory calligraphy, geography, history, religion, art, and literature.

**CREATIVE WRITING (CE-R20—2 c.e.u.)**

Instructor: Joan McIntyre, Freelance Writer/Editor  
 Schedule: Wednesdays, 7:00-9:00 p.m.; Sept. 10-Nov. 12  
 Fee: \$40

An informal, practical course in creative writing for the layman, including instruction on the writing process, information on finding appropriate publishers, and evaluation of the student's work.

**LAW FOR THE LAYMAN (CE-R15—2 c.e.u.)**

Instructor: Bruce E. Williams, J.D.; Attorney at Law  
 Schedule: Mondays, 7:00-9:00 p.m.; Sept. 8-Nov. 10  
 Fee: \$40, plus textbook

A survey of personal legal rights and how to protect them. Discussion will cover the legal problems that the average person can expect to encounter in his everyday life.

**HOUSEHOLD MONEY MANAGEMENT (CE-R17—2 c.e.u.)**

Instructor: John J. Weed, M.A.S.; Central Bank of Alabama  
 Schedule: Thursdays, 6:00-8:00 p.m.; Sept. 11-Nov. 13  
 Fee: \$40, plus textbook

A practical survey dealing with all areas of personal finance. Discussion will provide up-to-the-minute information about major areas of household money management.

**BIO-FEEDBACK (CE-R31—2 c.e.u.)**

Instructor: Charles N. Gibb, B.A.; Cybersystems, Inc.  
 Schedule: Wednesdays, 7:00-9:00 p.m.; Sept. 10-Nov. 12  
 Fee: \$40, plus textbook

An introduction to the techniques and applications of bio-feedback—the technique by which man can learn to control his own biological and mental functioning. This course is designed for the general public.

**BASIC MEDICAL TERMINOLOGY (CE-R32—2 c.e.u.)**

Instructor: Corinne B. Linton, Ed.D., Huntsville Hospital  
 Schedule: Mondays, 7:00-9:00 p.m.; Sept. 8-Nov. 10  
 Fee: \$40, plus textbook

An introductory course concerning medical words and functional descriptions of anatomical structures and physiological functions of the body's systems, primarily for medical secretaries and paraprofessionals.

**REAL ESTATE PRINCIPLES AND PRACTICES—GRI-I (CE-S06—4 c.e.u.)**

Coordinator: Richard H. Shuford, Jr.; D.B.A.; UAH Div. of Cont. Ed.  
 Schedule: Tues. and Thurs., 6:00-9:00 p.m.; Sept. 9-Oct. 23  
 Fee: \$75 for course, plus textbook; \$25 for GRI-I examination  
 A series of lectures on the principles and practices involved in modern real estate business. Satisfactory completion of the GRI-I examination provides qualification for the State broker's examination.

**ADVANCED REAL ESTATE MANAGEMENT—GRI-II (CE-S08—4 c.e.u.)**

Coordinator: Richard H. Shuford, Jr.; D.B.A.; UAH Div. of Cont. Ed.  
 Schedule: Tues. and Thurs., 2:00-9:00 p.m.; Oct. 28, 30, Nov. 4, 6, 18, and 20  
 Fee: \$100, materials included  
 An advanced course in real estate management. Emphasis is on analysis, interpretation, and performance in selected areas of residential and commercial brokerage. Prerequisite: GRI-I or equivalent.

**CPA REVIEW: ACCOUNTING THEORY (CE-S71—4 c.e.u.)**

Coordinator: Jack R. Fay, Ph.D. (Candidate); UAH Dept. of Business  
 Schedule: Tues. and Thurs., 1:00-10:00 p.m. and Saturdays; 8:30 a.m.-5:00 p.m.; Sept. 9-20. Reservations by Aug. 15.  
 Fee: \$100, plus textbooks

An intensive study in accounting theory, focusing on the requirements of the CPA examination. Prerequisite: college-level accounting.

**CPA REVIEW: ACCOUNTING PRACTICE (CE-S72—8 c.e.u.)**

Coordinator: Jack R. Fay, Ph.D. (Candidate); UAH Dept. of Business  
 Schedule: Tues. and Thurs., 1:00-10:00 p.m. and Saturdays; 8:30 a.m.-5:00 p.m.; Sept. 23-Oct. 18.  
 Fee: \$200, plus textbooks

An intensive study in accounting practice, focused on the requirements of the CPA examination. Prerequisite: college-level accounting.

**CPA REVIEW: AUDITING (CE-S73—4 c.e.u.)**

Coordinator: Jack R. Fay, Ph.D. (Candidate); UAH Dept. of Business  
 Schedule: Tues. and Thurs., 1:00-10:00 p.m. and Saturdays; 8:30 a.m.-5:00 p.m.; Oct. 21-Nov. 1.  
 Fee: \$100, plus textbook

An intensive study in auditing, focused on the requirements of the CPA examination. Prerequisite: college-level auditing.

**CPA REVIEW: BUSINESS LAW (CE-S74—4 c.e.u.)**

Coordinator: Jack R. Fay, Ph.D. (Candidate); UAH Dept. of Business  
 Schedule: Sundays, 1:00-6:30 p.m.; Sept. 7-Oct. 26. Reservations by Aug. 15.  
 Fee: \$100, plus textbook

An intensive study in business law, focused on the requirements of the CPA examination. Prerequisite: college-level business law.

**FEDERAL/STATE INCOME TAX (CE-S10—4 c.e.u.)**

Instructor: John R. Wynn, J.D., LL.M.; Tax Attorney  
 Schedule: Tues. and Thurs., 6:00-8:00 p.m.; Sept. 9-Nov. 20  
 Fee: \$78, plus textbook

An in-depth study of Federal and Alabama income tax laws and regulations and their effect on the individual and small-business taxpayers. The 1975 tax forms will be considered in detail.

**DEVELOPING WOMEN MANAGERS (CE-S61—2 c.e.u.)**

Lecturers: Specialists in various areas  
 Schedule: Weekend Short Course: Oct. 31, Nov. 1 and 2; Fri. and Sat., 8:30 a.m.-5:00 p.m.; Sunday, 9:00 a.m.-3:00 p.m.  
 Fee: \$50, materials included

An intensive course in the management training and development of women managers and administrators.

**MANAGEMENT BY OBJECTIVES (CE-S28—2 c.e.u.)**

Instructor: Richard H. Shuford, Jr.; D.B.A.; UAH Div. of Cont. Ed.  
 Schedule: Short-Term Course: Oct. 6-10; Monday-Friday, 12:30-4:30 p.m. Reservations by Sept. 29.  
 Fee: \$125, textbook included

A seminar in the concepts and applications of management by objectives. Prerequisite: general background in management.

**GROUP DYNAMICS FOR TECHNICAL MANAGERS (CE-S35—2 c.e.u.)**

Coordinator: F. Max Croft, Ph.D.; NASA Marshall Space Flight Center  
 Schedule: Short-Term Course: Oct. 20-24; Monday-Friday, 12:30-4:30 p.m. Reservations by Oct. 13.  
 Fee: \$125, materials included

A practical workshop for learning about groups, their behavior, and their influence on technical organizations.

**DESIGN TO COST (CE-S30—1.4 c.e.u.)**

Instructors: Robert Rossman, M.S.; Kempter-Rossman, Washington, D.C.; Jerry Kaufman, B.S.; Honeywell, Ft. Washington, Pa.  
 Schedule: Weekend Short Course: Oct. 4 and 5, 8:30 a.m.-5:00 p.m. Reservations by Sept. 26.  
 Fee: \$100, materials included

An intensive examination of the management, implementation, and measurements required for design-to-cost procurement and contract administration.

**INTRODUCTION TO OPERATIONS RESEARCH (MN-503—3 s.h.; MNN-503—4 c.e.u.)**

Instructors: Richard M. Wyskida, Ph.D.; UAH School of Sci. and Engr.  
 Bernard J. Schroer, Ph.D.; UAH Environmental Center  
 Schedule: Short-Term Course: Sept. 15-26; Monday-Friday, 8:00-12:00 noon. Reservations by Sept. 8.  
 Fee: \$190, textbook included

Introduction to the theories and applications of operations research in management and engineering. Prerequisite: upper-division or post-graduate standing; knowledge of basic statistics.

**SCIENCE AND TECHNOLOGY**

**DATA PROCESSING FUNDAMENTALS (CE-T09—4 c.e.u.)**

Instructor: Bernard J. Schroer, Ph.D.; UAH Environmental Center  
 Schedule: Short-Term Course: Sept. 29-Oct. 10; Monday-Friday, 12:30-4:30 p.m. Reservations by Sept. 22.  
 Fee: \$190, textbook included

A broad introduction to the fundamentals of data processing, designed for the non-specialist.

**INTRODUCTORY SURVEYING (CE-T42—4 c.e.u.)**

Instructor: William J. Connell, Jr.; M.S.C.E.; P.E. and L.S.  
 Schedule: Thursdays, 6:00-8:00 p.m. and Saturdays, 9:00-12:00 noon; Sept. 11-Nov. 13  
 Fee: \$78, plus textbook

An introduction to the theory and practice of surveying. Field use of surveying equipment, including laser distance meter, will be a part of this course. Prerequisite: knowledge of trigonometry.

**AVIATION FUNDAMENTALS: PRIVATE PILOT GROUND SCHOOL (CE-T51—5 c.e.u.)**

Instructor: James L. Box, M.S.; FAA Certified Ground Instructor  
 Schedule: Saturdays, 8:30 a.m.-12:30 p.m.; Sept. 6-Nov. 22  
 Fee: \$100, textbook and materials included

A basic study of principles and practices relating to aircraft flight, including FAA regulations, fundamentals of meteorology, aerial navigation, radio operations, care of aircraft, and flight safety practices.

**FUNDAMENTAL ASTRONOMY (CE-T38—4 c.e.u.)**

Instructor: Anne R. Dunn, Ph.D.; Teledyne Brown Engineering  
 Schedule: Mon. and Wed., 6:00-8:00 p.m.; Sept. 8-Nov. 12  
 Fee: \$78, plus textbook

A general survey of fundamental astronomy, with a minimum of mathematical treatment. Included will be some actual practice in the use of equipment for observational astronomy.



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 Division of Continuous Education  
 P.O. Box 1247, Huntsville, Alabama 35807

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 Office Phone \_\_\_\_\_  
 Employment \_\_\_\_\_ (position) (organization) Dates Term \_\_\_\_\_  
 Course Number \_\_\_\_\_ Course Title \_\_\_\_\_

**NON-CREDIT REGISTRATION:**  
 Enclosed is my check for \$\_\_\_\_\_. Please enroll me non-credit in the course.

**CREDIT RESERVATION:**  
 Please reserve me a place in the course. On registration day, I will enroll as a \_\_\_\_\_ non-matriculated student, \_\_\_\_\_ regular student (admitted to UAH).

# Some 600 Jobs . . . Center Accepting Job Applications

MCSC, ALBANY, GA.—Job applications are now being accepted for a wide variety of federal service positions at the Marine Corps Supply Center in Albany, Ga.

Individuals who are currently in the federal civil service and eligible for transfer as well as former civil service employees eligible for reinstatement are being sought to fill an anticipated 600 jobs which will become available as a result of the

relocation of the Marine Corps Supply Activity from Philadelphia in 1976.

Even though the transfer of function will not be completed until June of 1976, recruitment activities are already underway for many positions.

Job announcements were distributed to all Department of Defense activities in early June, seeking candidates for Equipment Specialist and Supply Cataloger at GS-9 level and Supply Systems

Analysts at the GS-11 level.

In addition to the skills and grade levels indicated in these announcements, qualified and experienced people will be needed for some higher level (GS-11 & 12) Equipment Specialists and Catalogers.

The activity will also welcome applications for anticipated vacancies in such positions as: Inventory Management Specialist, GS-9 through 12; Computer Programmer, GS-9 through 11; Computer Specialist, GS-9 through 12; Budget Analyst, GS-9 through 11; Accountant and Auditor, GS-9 through 11; Procurement Agent, GS-7 through 11; Illustrator, GS-7 through 9; Journeyman Mechanics and maintenance personnel; and a wide variety of clerical and administrative positions in grades 3 through 7.

Persons who feel they qualify and are interested in applying for any of these jobs should do so as soon as possible. To apply, submit Standard Form 171, Personal Qualifications Statement, and a copy of your latest Personnel Action Form, SF-50, to: Civilian Personnel Office, Building 3010, Marine Corps Supply Center, Albany, Georgia 31704, ATTN: Employment Section. Copies of both forms must be submitted for each position applied for.

More detailed information on employment opportunities at the Albany Marine Center can be obtained at any time by writing the Civilian Personnel Office at the same address listed above or by calling (912) 439-5254, Autovon: 460-5254.

## CIVILIAN BRIEFS

The following is a list of new hires, retirements, and promotions for the period July 25 through 31.

### NEW HIRES

- Anderson, James U., GS-221-11, PT&FD
  - Bickley, James M., GS-221-11, PT&FD
  - Jensen, Joseph B., GS-085-4, RASA.
  - Mitchell, Bobby K., WG-6904-4, RASA.
  - Kelley, Paul L., GS-801-11, P&P.
  - Henson, Carrie R., GS-301-4, RASA.
  - Sanders, Robert D., GS-345-12, M&CC.
- ### RETIREMENTS
- Galloway, Paul E., GS-1670-12, Maintenance.
  - May, Eugene J., GS-850-12, MRDEL.
  - Pont, Walter F., GS-1670-12, Dragon.
  - Gilbert, Eulas G., GS-802-12, MRDEL.
  - Bennett, Joseph B., GS-801-15, MRDEL.
  - Dickey, Marjorie H., GS-560-11, MRDEL.

### Library Workshop

Eva M. Cathey, chief of the Missile and Munitions Center and School Library-Learning Center Branch, will represent the Army service school at the annual Military Librarians' Workshop in Colorado next month.

Sponsored by the Air Force Academy, the workshop's theme will be "Intellectual Updating: Changes in the State of the Art of Librarianship." Topics will be designed to stimulate discussion on ways of increasing the effectiveness of military libraries.

- Cunningham, Hazel H., GS-510-13, Comptroller.
- Layman, John R., WG-5703-8, RASA.
- Kahrs, Edward R., GS-855-13, MRDEL.
- Talley, Naomi S., GS-2005-6, Materiel Management.
- Bryers, Harvey A., GS-801-12, Product Assurance.
- Lindeman, Robert C., GS-801-14, Product Assurance.
- McCroory, John M., WG-3703-10, RASA.
- Hollingsworth, Lena M., GS-2050-9, Materiel Management.
- Kennedy, Donald D., GS-1670-12, Maintenance.
- Hobbs, John O., Jr., WG-5703-7, RASA.
- McNaron, Abner C., GS-510-13, Comptroller.
- Edmonds, Richard S., GS-801-15, Product Assurance.

### PROMOTIONS

- Crittenden, Charles E., WL-7407-8, RASA.
- Ratlidge, Patricia E., GS-134-5, MIA.
- Ryan, Lawrence E., GS-1670-13, M&CC.
- Tays, Glenn W., GS-1670-13, M&CC.
- Maxwell, Mary F., GS-510-7, Comptroller.
- Hill, James N., WG-2810-11, RASA.
- Kelley, Willie L., GS-2101-5, RASA.
- Zuccarello, James T., WG-5716-11, RASA.
- Pope, Joyce, WG-4405-11, RASA.
- Taylor, Helen R., GS-510-7, Comptroller.
- Ward, Olye F., GS-510-7, Comptroller.
- Goyer, Exie J., GS-134-5, MIA.
- Shaneyfelt, T. J. Garland, GS-085-4, RASA.

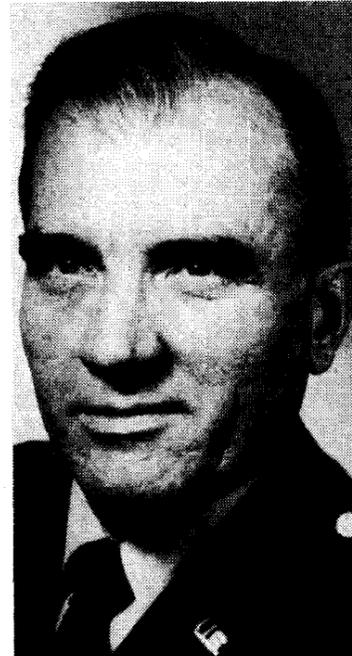
Acting Commander . . .

## Chief Of Staff Takes Over

Colonel Joseph T. Gibson has been named acting Commander of the Ballistic Missile Defense Systems Command (BMDS-COM). The post was vacated when Major General Bates C. Burnell, was reassigned as Director of Military Construction in the Office of the Chief of Engineers.

Gibson has been with BMDS-COM and its predecessor organization, the Safeguard System Command, since June 1972, first as Special Assistant for Nuclear Hardening, then as Chief of the Test and Targets Division, and since January 1974 as Chief of Staff.

A native of Nashville Gibson received a BS degree from the Military Academy at West Point in 1949. In 1963, he received his master's degree in Nuclear Physics from Tulane University. He is also a graduate of the Command and General College at Fort Leavenworth.



COL. J. T. GIBSON



## MIDNIGHT RAMBLERS?

The lights are out, everyone is asleep except, the **Midnight Rambler**. Turn on the kitchen light and you'll see him and his friends scurry to the safety of cracks and crevices. It's the disgusting roach, crawling under, over and around the very food and utensils you might tomorrow be putting in your mouth. Get rid of them quickly and safely by calling Cook's Pest Control today!

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- \* 2901 University Ave — 533-5360

# Hellfire Gets New Manager

Colonel Frank J. Palermo is the Army's new Hellfire Project Manager succeeding Colonel John B. Hanby who is leaving Redstone for a new assignment at Fort Belvoir, Va.

This is Palermo's first Redstone assignment although the Cincinnati native isn't a total stranger to the area and has monitored many of MICOM's missile programs through other assignments.

"I've been here before, I know MICOM by reputation and I'm really looking forward to my assignment," the colonel said just recently upon assuming his new duties.

Palermo started his Army career in 1953 as a draftee in the 145th Infantry Regiment at Ft. Polk, La. Shortly after completing

basic training, he attended the Artillery Officer Candidate School and graduated with distinction.



PALERMO

Since that time, Palermo has filled a variety of assignments, including tours in Vietnam as task force advisor and later deputy senior advisor to the Vietnamese Airborne Division. Among other jobs, he commanded a Lacrosse Battery in the 1st Missile Brigade; commanded the 3rd Battalion (Airborne) 320th Artillery, 82d Airborne Division (later redesignated 2d Battalion, 321st Artillery; commanded the 4th U.S.A. Missile Command; and served in the office of Chief of Research and Development, where he was Staff Officer and Chief of Fire Support Missile Branch in the Missiles and Special Weapons Division.

In that capacity, he monitored the Army's terminal homing program along with the Lance and Pershing missile systems.

A graduate of Xavier University with a Bachelor of Arts degree, he holds a master's in aerospace engineering from the University of Arizona. He is also a graduate of the Command and General Staff College, Armed Forces Staff College and Industrial College of the Armed Forces.

# No-Frill Jet Flights Tried

WASHINGTON (ANF)—A handful of U.S. commercial airlines are offering a "no frills" flight service at a price 35 per cent less expensive than regular jet coach fare.

This promotional test program—J class—is being offered until Dec. 16. It applies to in-CONUS travel over a limited number of routes Mondays through Thursdays.

A number of limitations apply to J class service, including no advance reservations, no food service, a week-ahead ticket purchase requirement and a penalty billing for missing or switching flights.

J class offers potential savings; however, service members should avoid its use during normal mealtime hours since Joint Travel Regulations require that passengers traveling during mealtime be furnished a meal.

J class will not be available until

after Sept. 2, nor from Nov. 25 through Dec. 1. Participating carriers include American, Continental, Delta, Eastern and National Airlines.

# Speaks To Lawyers

MG Vincent Ellis outlined the role of the lawyer in Missile Command activities when he spoke to the Federal Bar Association at the Officers Open Mess last Thursday.

The Commanding General of the Missile Command was the guest speaker at the local chapter's regular monthly luncheon meeting.

Ellis reviewed the four-part role of the military lawyer stating an attorney in the military service must be a brakeman, a servant of the soldier, the source of legal alternatives, and a practitioner of preventive law.

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## Flying Club

Redstone Flying Club will hold its monthly general membership meeting Thursday August 7, 7:00 p.m. in Toftoy Hall auditorium.

The agenda will include FAA films, a discussion of insurance and the new club constitution.

## Flies Bicentennial Flag

The Ballistic Missile Defense Center in Research Park is the first General Services Administration (GSA) building in the Huntsville area to receive a Bicentennial Flag.

During ceremonies in front of the building, L. G. Hill, of the Huntsville-Madison County Bicentennial Committee, presented the flag to Peter Leonard, buildings manager for GSA in the North Alabama area.

The Bicentennial Flag will fly under the American Flag as a part of the nation-wide GSA par-

ticipation in the Bicentennial Year celebration.

The General Services Administration manages Federal Buildings all over the country. They have set up ceremonies all over the nation whereby Area Managers will be raising Bicentennial Flags at the same time to signify the agency's support of the Bicentennial Year.

Representatives of all commands and organizations in the BMD Center were in attendance for the presentation.

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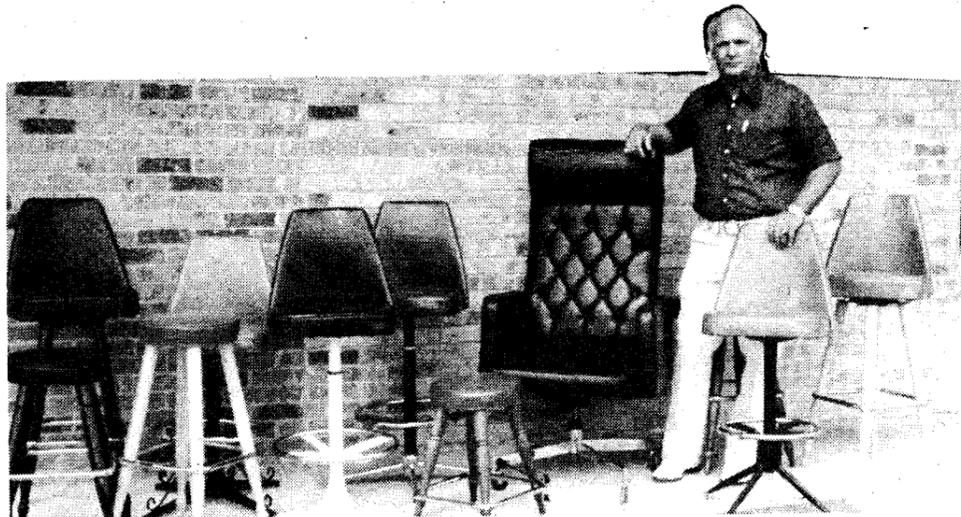
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# Pitt Named CSM At Missile School



**SCHOOL CHANGES HANDS**—Colonel David C. Smith (left) accepts the guidon of the Missile and Munitions Center and School to become the Acting Commandant of the facility for the second time in his career. Colonel Errol E. Hayes, Jr., (right) Commandant since July 1974, left the post Thursday to take an assignment as commander of Pine Bluff Arsenal, Arkansas. Command Sergeant Major Bill Tawwater, senior non-commissioned officer of the activity, witnesses the change of command from his symbolic vantage point midway between the two officers.

A Decatur native who has called Huntsville home for nearly a quarter century has been named Command Sergeant Major of the Missile and Munitions Center and School.

Command Sergeant Major Joe L. Pitt will become the top non-commissioned officer of the command in early September, when current command Sergeant Major Bill Tawwater retires.

Pitt has been sergeant major of the School Brigade at MMCS since July, 1973. He was previously assigned to MMCS for about a year in 1969 and 1970.

Pitt has 24 years of experience as a senior non-commissioned officer in his 27-year Army career. He became sergeant first class (then the second highest enlisted rank in the Army) in 1951.

Most of his service has been

with combat units, primarily infantry elements.

Pitt has also served as a leadership instructor for the Army and worked in the Reserve Officer Training Corps (ROTC) program.

Among his many awards and decorations are two awards of the Combat Infantryman's Badge for infantry combat service in Korea and Vietnam, and two awards of the Silver Star.

Pitt also holds the French Croix de Guerre for action in conjunction with a French foreign legion unit attached to his infantry regiment in Korea in 1951.

Pitt, his wife, Frances and their two daughters, Claudine and Renate make their home in Huntsville.



PITT

## Comedy Team Is Sunday Feature

The Canadian comedy team of Jo Jo & Gi Gi Kalmar will appear at the Recreation Center on Sunday evening.

Their unusual show is sparked with dance routines by Gi Gi, magic acts by Jo Jo and team comedy by both performers.

The Kalmars have traveled throughout the country entertaining in night clubs and military bases offering their variety of entertainment for all ages.

Military families are invited to attend all programs at the Rec Center.

## Visits Noted Grotto

The Recreation Center has scheduled a tour to Ave Maria Grotto in Cullman for this Saturday afternoon.

Located on the campus of St. Bernards College, the Grotto is the lifetime work of Bro. Joseph Zoetti, O.S.B. and covers a four acre park.

The tour bus leaves the Rec Center at 1:30.

FREE ESTIMATES

# Life

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## Construction Company

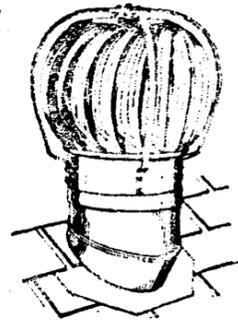
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Wednesday-Friday

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NOTHING GOOD EVER COMES FREE! Athens College, operating on faith (and, often-times, little else) closes its books as a private, church-owned college on August 31, 1975 with an expected indebtedness of about \$650,000. This debt must be repaid without using any State funds.

IT'S NOW OR NEVER FOR ATHENS COLLEGE. Its indebtedness must be liquidated to make the transfer to the State effective . . . Join with your friends in this one-time effort to raise the funds needed to secure the future of Athens College for all time . . . give all you can afford . . . ask friends and acquaintances to help . . . TOGETHER, WE CAN DO IT !!!

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# Nightstick Arch Hails MP Newlyweds

Had Specialist Four Kenneth R. Smith, a soft-spoken boy from North Carolina, and Private First Class Donna M. Belsvik, a soft-spoken girl from Minnesota, not been members of the 291st Military Police Company, theirs might have been an ordinary wedding.

Their affiliation being what it was, however, Mr. and Mrs. Smith exited the Post Chapel Thursday evening beneath crossed black nightsticks, courtesy of four female and four male MP's, and rode off to their reception in an MP traffic van.

Nobody in the 291st suspected the pair would marry. "They're two of the quietest people you'll ever meet," said Sergeant Robert W. Byrne, the best man. But after a couple months of dating—Donna arrived at Redstone in January—they announced their engagement in March.

They met on the job. Both work the second shift at the MP station, he as desk clerk and she on line duty, and both are members of Second Platoon. Donna is one of 11 women to join the 291st in the past year. Before the influx, just one female was assigned to the company.

It was perhaps inevitable that a romance would flower among men and women as close-knit as a police unit. Donna and Ken were the first, though, so their fellow policemen

recruited a uniformed honor guard—complete with white gloves—and a white van with patrol truck escort.

Chaplain Ford G'Segner read the simple words of union, the couple exchanged vows, an accordion rendition of the bridal march was played by Scott Belsvik and, after some picture taking, the formalities were completed.

If the honor guards' sticks did not quite cross above the heads of Nancy Belsvik, the bridesmaid, and Byrne, and then the newlyweds, blame it on nervousness. Certainly there was no lack of comradery. These enlisted men and women were standing in for those who wanted most to be present, the members of second Platoon. Second Platoon was on duty this evening.

An MP halted Patton Road traffic to allow the procession, horns tooting and blue police lights flashing, across for the trip to the Non-Commissioned Officers' Club. Mr. and Mrs. Smith would be taking some leave afterwards.

When they return, a problem common to many military marriages will face them. Ken is to be transferred to the 110th MP Company, Korea. Donna is presently not scheduled to accompany him.

Ken and Donna, with the help of the 291st, will seek to change that.



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Day & Date	Loc.		Time
Fri., 1st	A	All Time Professional Championship Wrestling	8:30 p.m.
Sat., 2nd	A	Isley Brothers Concert	8:00 p.m.
Mon., 4th	P	Symposium UAH School of Primary Medical Care	9:00 a.m. & 5:00 p.m.
Thurs., 7th	A	Eagles Concert	8:00 p.m.
Fri., 8th	CH	Happy Goodmans, The Kingsmen The Florida Boys & Others	7:30 p.m.
Sun., 10th	CH	Church of Christ "Does God Exist Lecture"	7:30 p.m. & 8:30 p.m.
Mon., 11th	CH	"Does God Exist Lecture"	7:30 p.m. & 8:30 p.m.
Tues., 12th	CH	"Does God Exist Lecture"	7:30 p.m. & 8:30 p.m.
Fri., 15th	CH	Seventeen Magazine Fashion Show	2:00 p.m.
Sat., 16th	EH	Pizie Pizzaz	All Day
Mon., 18th	A	Jethro Tull	8:00 p.m.
Thurs., 21st	A	Sheriff Rodeo	8:00 p.m.
Fri., 22nd	A EH P	Sheriff Rodeo Community Ballet Antebellum Garden Party "Our Town"	8:00 p.m. 8:30 p.m. 8:15 p.m.
Sat., 23rd	A CH P	Sheriff Rodeo Ramsey Lewis "Our Town"	1:00 p.m. & 8:00 p.m. 8:00 p.m. 8:15 p.m.
Sun., 24th	P	"Our Town"	8:15 p.m.
Fri., 29th	A	Soul Show	8:00 p.m.

# Star Teams Compile Impressive Tallies

Company A and Company C, the permanent party teams whose lively rivalry pushed them into a playoff battle a couple weeks back, were to scrap again Monday night for the prickly honor of taking on the 7th Student Company for the RSA Softball League crown.

The hard-driving Students chalked up 41 points in last week's contests—no mean feat when you remember that one of the teams to taste defeat was Company C. The C's built up towering scores all week long, also, ending with 44 runs in all.

Not to be left out, Company A raced past two formidable clubs—MICOM and the 291st MP's—on the way to a showdown with the 7th. Their point tally was 40, and this after a 14-10 loss to the unstoppable Students.

A and C were at each others' throats throughout the regular season, so when push came to shove at final standings time a climactic contest shaped up. Company C won it, 9-4, to place third behind the 4th and 8th student companies in the eastern division. Victory came fair and square, but tempers were sure to burn hot for Monday's meeting.

The finale—top-ranked 7th versus one of the two permanent party challengers—was set for Tuesday evening. A description of that imbroglio, the Rocket deadline being what it is, will have to wait till next week's issue.

### LAST MONDAY

James Dixon and Roger Wineinger lit the 7th Student Company's powder keg on Field 8 last Monday night, blasting a home run each to send their squad to a 10-5 victory over Company C. Riki Mukawa's double and triple reinforced the winning drive.

The stunned C's were led by David Swaim, who slugged a two-bagger.

A triple and three RBI's by

Edward Brice assured a firm 14-7 win over MICOM for Company A. Kenneth Bell's triple sewed up the victory. A home run and a double by George Buchanan thrilled the crowd but added little weight to the losers' flaccid offense.

Dogged hitting by Thomas Riley and Gary Jerald—they each got a double—and a sacrifice fly by



William Hileman pulled the 291st MP's out of a squeaker against the 8th Students, 11-10, on Field 1.

Hileman drove in two runs, as did teammate Alan Susuki. Flashy William Parks popped two homers and got two RBI's for the losers. James Cook of the 8th doubled and tripled, and Ed Davis and Al St. Saviour claimed a double each.

Six players walloped doubles, together driving in 10 runs for the roustabout 4th Student Company. The Students took the faltering 95th Calibrators by the scruff of the neck and shook out a lopsided 23-2 win for their trouble.

Romeo Salcedo and Dale Kritner scored two-baggers for the hapless 95th.

### TUESDAY

Company C took it easy on the 95th Calibrators Tuesday night, but the top-spot contenders still managed to whip them 12-0. Donald Spitler led the permanent party chargers with a homer. Edgar Yohe and David Hayden

added a double apiece.

An infield hit by Romeo Salcedo was the best the Calibrators could do against the C's onslaught.

Almost as successful was Company A, whose players ground out six runs in the third inning and took a 16-3 win from the 291st MP's. Kenneth Bell clobbered two homers, one in the fourth inning and the other in the fifth, for the A's.

Doubling for the winners were Al Standiford, Joe Wikoff and Leonard Langford.

The MP's blew their wad in the first inning and barely trudged through the remaining stanzas. Charles Dickerson led the cops with a double.

All but two men scored for the 8th Students in the second inning of a match against MICOM Tuesday. The fruitful second produced a triple—by James Cook, and a double—by Al St. Saviour. William Parks of the 8th homered in the third.

MICOM's Mike Spry blasted a home run.

A triple by James Johnson and a double by Ronney Farris powered the 7th Students to a 17-10 mop-up

## Judo Class Registration

Judo classes for dependents of active or retired military will be presented on Tuesday and Thursday nights in the Dependent Youth Activities sports building just outside Gate 8.

Registration for youths seven to 19 years old is in Bldg. 114 from 8 a.m. to 4:30 p.m. Monday through Friday.

Participants may begin classes right after registration.

Specialist Seven Mike Brown, second degree black belt in judo, will instruct.

Students pay a nominal monthly fee in addition to the regular DYA yearly activity fee. Further information is available from the DYA office at 876-2315.

of the 4th SC. The 4th mustered seven runs in the first two innings but fell off thereafter. Elwin Shumway doubled and tripled.

### WEDNESDAY

Company C galloped over the 291st MP's, 20-9, Wednesday evening, led by Walter Luck, who homered, and David Hayden and Anthony Difiore, who both whacked a two-bagger. The cops scored a homer, too, by Alan Susuki. William Hileman got a triple for the losers.

A homer by Roger Henley spirited the high-flying 7th SC to a 14-10 win over Company A. Tom Pnewski triples for the victors.

The A's, displaying the toughness that has carried them this far, led 9-5 at the end of the

fourth inning, but the edge was quickly lost as the 7th exploded for seven runs in the sixth inning. Al Standiford hit a triple and Kenneth Ellis a double for the losers.

Moving principally on singles, the 8th Students crept to a 7-4 victory over the 4th SC. David Lewis led the 8th with a triple. Eddie Anderson was in the forefront of the losing drive. He got a triple, also.

### THURSDAY

A sprinkling of runs, sparked by Roger Wright's triple, pushed Company C to a 12-7 win over the 8th in last week's final contest. William Parks smacked two two-baggers and Thomas Dailey added another for the Students.

## Sill Wins TRADOC Match

FT. MCLELLAN, Ala.—Fort Sill players took team championship honors last week at the TRADOC tennis tournament here. The Ft. Sill team gained 40 points at two per match for the win. Rounding

out the top five places were Ft. Leavenworth, Ft. Leonard Wood, Ft. Bliss, respectively.

The Redstone Arsenal team, consisting of Mal O'Neill, Sid Roberts, Larry Welborn and Thomas McLaughlin, took six points and finished behind five other teams. Nine posts sent squads to the event.

Individual and team trophies for first and second place finishers were presented at Ft. McClellan Friday by Colonel John Gheen, chief of staff for the post.

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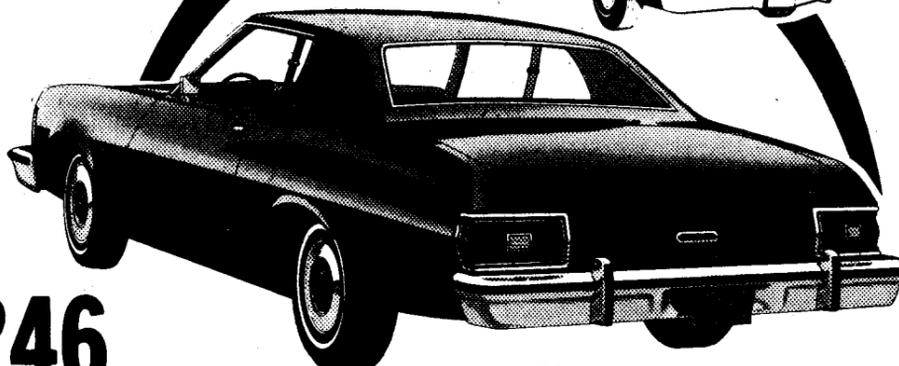
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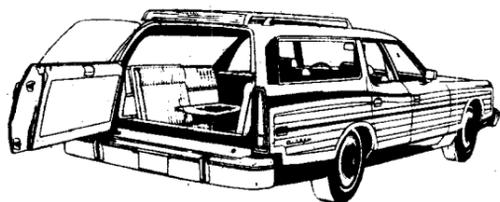
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## 1975 TORINO

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