

# On And Off Power . . . . It's Possible

His speech shot through with the adjectives "grave" and "critical", TVA's top official has renewed the appeal of a few weeks ago that consumers cut back 20 per cent on electricity use.

The new appeal came last week in a Huntsville news conference where TVA Chairman Aubrey J. Wagner laid before the public the power outlook for the Tennessee Valley this winter.

Coal stockpiles at TVA's steam plants, which produce almost 80 per cent of TVA electricity, are "dangerously low", Wagner warned.

TVA today has less than half the 90-day coal supply it says it needs at the start of cold weather. Some steam plants have a 30-day stockpile or less, one is down to 15 days.

A coal miner's strike of any duration could be "a real disaster" in Wagner's words, but even if the November 12 strike can be averted TVA coal supplies will be gone by the end of winter if they continue to decline at present rate.

Wagner called the public response "just great" to the requested 20 per cent cutback, but added that in the few weeks since the request first went out coal stockpiles have dropped a half-million tons, despite TVA's best effort to buy more coal.

Everyone has got to "understand the gravity of this situation" if winter power curtailments are to be avoided, Wagner said. Plans are being drawn for mandatory controls to be applied uniformly throughout a region by local distributors in the event controls are needed.

Power rationing could come in the form of rotational blackouts, Wagner noted. Under this concept a distributor cuts power off in two to four hour segments to service areas on a rotational basis.

Wagner said that where different industrial operations would stand on a power priority scale would "almost have to be worked out on a case by case basis". Probably the first industries to lose power in a rationing situation would be those with interruptible power contracts and those whose shutdown would have the least impact on the economy.

In a prepared statement Wagner said, "Our power supply situation is critical, and it will get worse unless we succeed in an all-out effort to further reduce use of electricity in weeks ahead . . . ."

"We believe the 20 per cent reduction in use of electricity can be achieved without great inconveniences, hardship or loss of jobs or industrial production. If we can get this kind of savings we should be able to make it through the winter without rotational blackouts or other mandatory allocation of power.



"Voluntary savings we can make now can be the difference in avoiding widespread mandatory power curtailments this winter."

In responding to reporters' questions Wagner also made these points:

—A sharp decrease in street, decorative and display lighting is needed and likely will become a reality.

—Whether power consumption is cut enough to avoid mandatory controls rests largely with individuals and how tight a rein they keep on lighting and heat in homes, businesses, etc.

—The TVA takeover last week of a coal mine near Scottsboro and another in Illinois to increase production will have no immediate effect on TVA coal supplies.

—The only way TVA has of making up the disparity in the amount of coal it needs and the amount it is able to buy is to draw on the already badly depleted stockpiles.

—The delivered price of coal this year is around \$30 per ton. Last year it was \$8.50 to \$10, five years ago \$4.50.

—Increases in coal prices will be passed on to consumers.

—Coal is high for the same reason oil is—a seller's market has been created.

—Coal can be mined and sold for \$7.50 to \$10 a ton at a reasonable profit.

—Even with nuclear generating plants the nation is going to need coal-produced electricity for years to come.

—The problem won't get better until more coal is mined, and sold at reasonable prices.

Meanwhile, TVA efforts to relieve the coal shortage include emergency purchases and renegotiating some contracts, upping production at TVA-owned reserves, suing companies delinquent in deliveries, transferring coal from the better stocked steam plants to those with extremely low supplies, buying power from other utilities, keeping to a minimum steam plant maintenance shutdowns, maximizing use of unit 1 at Brown's Ferry and getting additional production from oil-fired generators.

## Turn Them Off

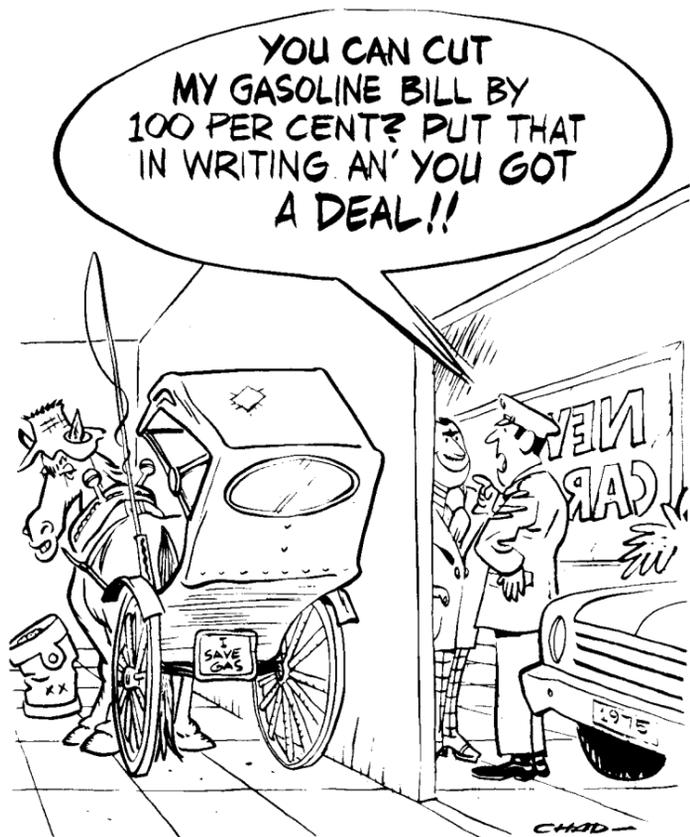
Energy conscious people are helping Redstone in its effort to cut electricity use.

On two occasions last week individuals called the Information Office to find out if there were a valid reason for outside lights burning in daytime on two buildings here.

In both cases the lights had been observed for several days. A call to the custodians of the buildings brought promises of quick remedial action. Which in a way helps prove a point made by a Huntsville Utilities spokesman at TVA Chairman Wagner's press conference last week.

The Utilities spokesman expressed the opinion that a utility company's request for conservation can only go so far. Perhaps of far more impact, he suggested, is the knowledge on the part of persons, businesses and public institutions that other people are watching.

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## No Place For Curiosity Seekers

Dear Sir,

Once again this morning, while driving to work, there was an example of provincial attitudes displayed on the part of some drivers entering Redstone Arsenal. (On Martin Road just beyond the guard shack)

The kind of attitude I am referring to is that of "rubber-necking" at any car, or cars, which are pulled off of the right-of-way. These "sight-seers" seem to believe that they are entitled to gawking at each and every mishap or bit of misfortune which other individuals have encountered during the drive to work.

I am not advocating speeding away from the scene of an accident, nor am I urging that any individual should be left waiting for 30 to 40 minutes for someone to stop and help out where help is truly needed.

What does not make sense to me (and many other people I have listened to here at Redstone) is why these yokels act as though they are being denied some basic right to "know all about it" if they do not slow down twenty to twenty-five miles per hour below the speed limit just in order to discover exactly why a car is pulled off of the road, and then they are ready to resume their own journey on up the road.

Curiosity satisfied?

I suppose so, and so do a number of other drivers here at Redstone, or so they tell me.

What we would like to have happen is a series of "courteous (and safe) driver" sessions for everyone who drives at Redstone Arsenal. I do not think anyone would object to participating in this type of session, and I do believe it would improve early morning morale, and perhaps would improve the outlook on life that many of us take home with us in the evening also.

Norma S. Kennedy

## The Rocket

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# Doing A Lot . . . But Not Enough

Redstone's call for energy conservation is getting different degrees of response.

An informal Rocket survey indicated that some individuals and organizations are going all out to conserve.

Others are doing next to nothing because they don't know what to do. In one sample, of eight people polled none knew of any specific program here to conserve energy. As one first-line supervisor responded, "I've noticed somebody's taken some of the lights out in the hall and I've seen the same thing in some offices. But as for this office, I don't know what to do. Nobody's told me to do anything."

Pooh-pooed as it was, the idea of unplugging the water coolers to save electricity apparently had a strong psychological impact. Roughly half of the individuals polled made reference to that action.

"Our people are acutely aware of the need to conserve", said Jeff Huff of MRDEL's Guidance and Control Directorate. He thinks the actions of the people in his organization reflect a national trend. "We have cut down on vehicle use, cut off lights and are examining all areas to see where energy can be saved", Huff said.

Len Reddington of Maintenance says he is conserving at home and at work in the interest of the nation as a whole, but to convince him of a local power shortage would take an investigation by a non-TVA body.

Aaron Ellis of Systems Analysis feels that "Not a whole lot of the things being done, like turning off the lights or water coolers, are going to cut back. Collectively they might, though", he added. As for his own conservation effort, "I'm not so sure I'm proud of what I've done so far", he said.

SP5 Peter Lampe's attitude toward conservation is, "If each individual person doesn't work at it, it won't get done. It seems a shame to waste anything you've got."

Asked if he is convinced that there is a need to conserve, Bruce Garrit of DMIS remarked: "My first inclination is to say no. The government hasn't really conserved energy, hasn't made any specific moves to create any new source of energy."

"Redstone is doing a lot more than the nation as a whole. We're carpooling and cutting down on lights. These are positive measures." At home, Garrit has a heat pump, which saves energy. "And I run it only when absolutely necessary", he said.

Nana Porter of Hawk believes that "If people had been using what they should all along, we wouldn't have an energy crisis. I think if everybody pitches in it can make a big difference."

"We freeze in winter, burn up in summer" but nevertheless Linda Powels of P&P is a believer in the need to conserve. She said that in her work area the water coolers were unplugged, hall lights were out, plastic was on the windows and someone had been appointed to make sure lights were off at the end of the day.

Another person who says he's "freezing to death" at work remains "absolutely" convinced of the need to conserve and the reality of the energy shortage. The one space heater in his office has been disconnected. He asked that his name not be used.

Also wishing to remain anonymous is the person who said it took last month's electric bill to move him to begin saving energy.

At Product Assurance, Chief Robert Whitley noted, "People in this directorate are very aware of the energy situation—we were last year, and set up a carpooling center that has resulted in many people here sharing rides—a heavy percentage, in fact."

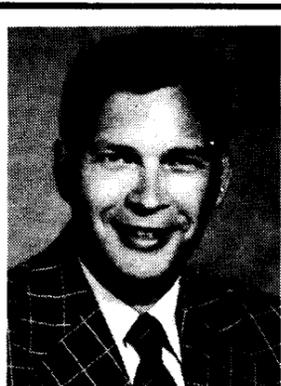
"We're taking a new look at conservation", says Jim Fowler of P&P. "We used plastic on windows last year and hope to cover more areas this winter. We're taking a hard look at lighting—the halls have been cut down—and now we're looking at work areas, offices". On the home front, Fowler says this year he is not heating the second story of his house, and has managed to form a carpool from Gunterville, despite often having to stay at the office past close of business.

Says DMIS Director Willie Calcote: "The people in this directorate are very aware of the need to conserve. And I can tell from the things they say that they're trying to conserve at home, as well as at work."

Unplugging coffee pots to save energy was given the nod by some. Wanda Carter of Civilian Personnel said it wouldn't bother her to see them go. She noted that in her work area the water cooler was off, as were lights in offices not being used. She thinks it will take a blackout to convince some people to conserve, and suggested stronger articles in newspapers might help get the message across.

Getting rid of coffee pots wouldn't bother Sandra Garris of Dragon either. "I don't drink coffee", she says. Ruge Herbert of Physical Sciences goes along with turning off lights, drinking fountains, etc., but feels the coffee pot is important to morale. Jeannette McKee of Metrology and Calibration suggests saving electricity by using central coffee pots instead of one in every office. Her office, she noted, is conserving by "turning off every other light and turning the heat down so low that I wear a sweater all the time"

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## NCO Wives Aid Youth

Members of the Redstone Non-Commissioned Officers Wives Club presented a \$1000 check to the parents of two-year old Elizabeth Kelly, Mr. and Mrs. Bruce Kelly, Saturday night at the NCO Open Mess to help defray medical expenses for the child who is losing her vision. She is the granddaughter of Sergeant First Class (Ret.) and Mrs. Charles Burney.

Mrs. W. H. Kirkland, club president, and Mrs. Ronald Bachman, welfare chairman, made the presentation.

Mrs. Charles Howard is the club's ways and means chairman, and was in charge of activities to raise money for the project.

## Hopeful Trend In Lot Ripoffs

Thefts from automobiles parked within the Missile and Munitions Center and School are on the decrease, according to a commander assigned to combat larcenies.

During July and August, a number of thefts from autos in parking lots on Redstone Arsenal were reported by victims.

At that time, Colonel Henry I. Lowder, School Brigade commander, directed Lieutenant Colonel Joseph Lloyd to post guards in eight parking areas within MMCS.

Lloyd, 2nd Bn. commander, detailed guards to watch parking areas from 4 p.m. onward each night.

Meanwhile, Military Police stepped up their patrols in parking lot areas, too.

"The parking lot guards are doing an excellent job," said Lloyd last week. "There have been no parking lot thefts reported as happening during times the guards are on duty."

There have also been added benefits.

Lloyd says he has received reports of guards directing incoming arrivals to their destinations. On at least two occasions, he added, guards notified proper authorities in time to keep arguments from becoming more serious incidents.

## He's Here To Maintain Safe Atmosphere For All

Lieutenant Colonel "Ted" Smith is an easygoing pragmatist who brings a perceptive eye to his duties as Redstone's new Provost Marshal.

A 16-year Army Veteran, Smith harbors no impossibly high expectations for soldiers here. "We are a pie sliced out of middle America," he says. "You're dealing with people, and, as people, they all have their quirks and foibles." Two problems at Redstone are

"I'm here to maintain a safe atmosphere, for the people who live and work here."



LTC SMITH

parking lot larcenies and drug abuse, problems the new PM takes in stride.

"It's beholding on the individual to keep valuables out of plain sight and lock his car," Smith says of the former. "A lock only keeps honest people honest," he adds, "but there is no sense in presenting the temptation."

Of a solution to drug abuse, he says, "... it's an educational process. I'm sure the individual is put under a great degree of group pressure. It's an individual decision, though. I think the drug abuse program is adequate."

Realization of the possible causes does not lead Smith to rule out police tactics to enforce the law, however, including 'pot' dogs in the barracks. "The use of any investigative device within the framework of a person's civil rights is fair," he says.

Smith relieved acting PM Captain Jimmy Lakey last week, coming from the Army Military Police School at Ft. Gordon, where he was a Division Chief. He has served a tour as a military policeman in Vietnam, is a graduate of the MP Career Officer's Course and the Command and Staff College, and a member of the International Association of Chiefs of Police.

A policeman from his soles up, Smith comments perceptively, "We in society do need an authoritative figure, or it's just a jungle."

The new PM admits, however, that the general public doesn't always appreciate this.

"Some people like police, some don't," he says, adding with a grin, "The man who just received a traffic ticket doesn't hold the policeman in such high esteem."

Whatever people think of him and his men, Ted Smith knows why he is at Redstone. He says simply,



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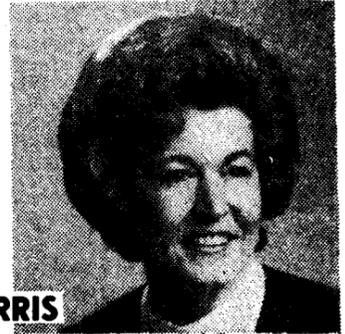
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# Lot Of Research Goes Into Modeling

Master Sergeant James J. Robertson of the Missile and Munitions Center and School calls himself a military modeler. He builds plastic miniatures of military hardware.

"My wife calls me weird," quips the 35-year-old sergeant.

Robertson specializes in plastic models of military vehicles and weapons used during World War II.

"Seriously, my wife's really been involved in my hobby with me. Carol puts up with my messy workbench in our home, makes helpful comments or suggestions—she even scouts hobby stores for models I don't have yet," he added.

Robertson is the chief instructor for Hazardous Devices training at MMCS. After work and on weekends, he turns to a plastic arsenal that would rival the house of Krupp.

"Most of my models are in either 1-48th or 1-35th scale," says Robertson, "and I'm moving toward more of the 1-48th stuff now."

That means that some of the biggest tanks used during the '40's are reduced to about the size of a pack of 100 millimeter cigarettes.

"It's harder to work on the smaller scale, but the time you put into it is more rewarding. You can develop a diorama to include more pieces on a base of manageable size," he explained.

Robertson is a member of the Huntsville Scale Modelers Association, recently affiliated with the International Plastic Modelers' Society of the U.S.

Members of the group meet regularly to critique one another's projects and help new modelers get started, according to Robertson.

If a display passes that kind of review, it stands a good chance in a model show, says Robertson.

Club members are tactful sticklers.

"For instance, the German MG-34 machine gun was used early in World War II, and was later phased out and replaced by the MG-42. You wouldn't want to use a PZ-2 tank with an MG-42 mounted on it, because by the time the 42's were deployed the PZ-2's were being phased out of combat units," he explained.

"The big difference is in the barrel and receiver group of the guns," Robertson said. "The 34 was machine-tooled while the 42 was stamped."

Needless to say, Robertson and his peers go through a bit of research to make such fine distinctions.

"Army manuals are a good source, and so are weapons



MODEL PRINCE SURVEYS DOMAIN—Master Sergeant James J. Robertson inspects his handiwork from the other end of the table. The tank models in the foreground are four to five inches long.

manuals put out by modeling societies," he said.

"It's almost impossible, if not outlandishly expensive, for any one modeler to amass all the references he would need. That's another reason the club is so helpful. There's almost continuous trading of resource materials among members," said Robertson.

Once the research is complete, Robertson goes to work on the model.

Models come out of the box on a frame—a "tree"—that remains when the parts are removed from the mold.

"Usually, I begin to do the paint job while the vehicle is still on the tree," Robertson says.

"Then you begin basic assembly without glue, checking for fit," he added.

If the pieces don't fit together just right, Robertson trims them or fills in with materials like auto body putty, commercial goop, or even toothpaste.

"Toothpaste is neat because it's soft and easy to work with. You can wipe excess off easily, it becomes hard when it dries, and can be painted to match the plastic with few problems," he said.

Whiteners and florides in the paste make no difference either way.

Then Robertson uses a scalpel-like instrument to work like some kind of "plastic surgeon," making sure parts that would move on the

real thing are moveable on his models.

The mechanism that makes the .50 on Robertson's Sherman tank moveable is about the size of a pencil point.

"That brings you to final assembly, and you look for areas that need repainting," he said.

At this stage, Robertson has a replica of a factory-fresh vehicle.

"In combat, those things just don't exist—at least not for long," Robertson counters.

That's why he begins to deliberately and carefully damage his creations.

He uses a variable speed miniature electric drill with a grinding wheel, burrs, engraving points and other accessories to produce bullet holes, marks of deflected artillery rounds, and collision damage.

"Then you add various kinds of grime," he adds.

"Around hatches, I've used metal paint and dry-brush technique to simulate where paint on the real thing would have been worn by crew members' boots," he says.

Now he has a battle-damaged vehicle that also shows signs of normal wear-and-tear from a front-line situation. He's selected the combat theater the model belongs in, including the weather and type of soil found in the region. By now, the model bears unit markings that belong in that locale.

"It's time to weather the

model," says Robertson.

"I use light washes of yellow and brown water colors to recreate the kind of mud or dust deposits that vehicles in that environment actually picked up," he explains.

"Red clay for Phu Bai, Vietnam; sand and dust and very little rust for North Africa; yellow and brown mud for the forests of northern Europe.

The diorama itself can have a styrofoam or wood base.

"Anything the modeler feels comfortable working with will do," says Robertson.

Paper mache and plaster of paris become the stuff of hills and gullies. A trip to the back yard yields rocks and vegetation.

"Capillary roots from real trees make good dead trees for dioramas, and you just let your imagination develop other possibilities," says Robertson.

"Because I'm in the Army and have to move my home from time to time, I try to design dioramas I

can use more than once," he says.

One setting he built includes a dry river bed, a road crossing it, and various kinds of vegetation within an 18-by 24-inch rectangle. He's used it as a base for a German army engineer unit, again for a reconnaissance unit, and now as a battle scene including an encounter between German 75mm gunners and an American Sherman tank crew.

## Talent On Parade

The Recreation Center will sponsor a talent show Sunday evening at the Center's Lounge. Enlisted personnel who would like to show off their talents are invited to participate.

Just contact any Recreation Center staff member or phone 876-4531 or 876-5492, and then show up by 8 at the Lounge ready to perform.

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# Military Court Finds MMCS Sergeant Guilty

Sergeant First Class Joseph A. Melead was convicted last Thursday of unpremeditated murder in the July 16 slaying of his wife at the family quarters on Redstone Arsenal.

A military court of 10 Army officers sentenced the 37-year-old career soldier to 10 years at hard labor, a bad conduct discharge, reduction in rank to E-1, and forfeiture of all pay and allowances.

The case now goes for review to Major General Vincent H. Ellis, Commander of the Army Missile Command. If affirmed, the case will be forwarded to the Judge Advocate General of the Army for review by the U.S. Court of Military Review.

Melead, assigned to the Army Missile and Munitions Center and

School, pleaded not guilty to the charge of premeditated murder saying he could not remember events surrounding the stabbing death of his wife, Patricia Ann. He was accused of slaying her during an argument in the early morning hours of July 16 after they had been "out on the town."

Trial for Melead, who had nearly 20 years of Army service, began October 15.

Unpremeditated murder is virtually the same as murder in the second degree in civilian courts.

Captain Frank J. Faraci was the Army's Trial Counsel while Melead was defended by Huntsville Attorney Richard Kempaner and Captain Charles Wasovich of the Missile Command. Colonel Richard L. Jones of Ft. Campbell, Ky., was the military judge.

## Chez Pup Drill Set Next Week

Questions asked last week during an annual orientation of action officers in preparation for a test of local emergency action plans indicated more interest than in past years, especially in the area of natural disasters.

The Arsenal's annual Chez Pup exercise, designed to test warning systems and plans based on various concepts of emergency operations, will be conducted the next two weeks and the orientation for action officers was held last week.

Harris Mitchell, director of Civil Defense for Huntsville, spoke briefly on the city's plans for natural and man-made disasters and disturbances.

When asked why at least one Huntsville radio station didn't stay

on the air after the tornado struck populated parts of Huntsville and Redstone last April, he said.

"Two local radio stations have been designated in Civil Defense Plans as emergency communications outlets. They had not requisitioned the government furnished auxiliary generators. This has been done and I expect WFIX to have their's within 30 days."

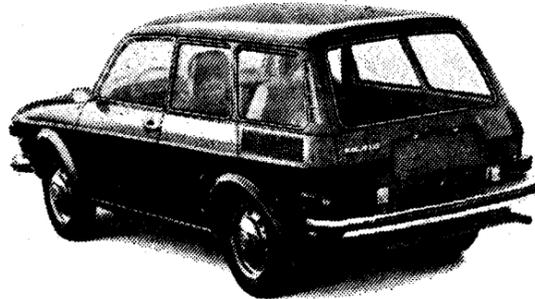
On the Arsenal, the test of emergency plans this year consists mainly of a review of plans by action officers, test of warning systems and orientation of all personnel.

Personnel assigned to shelters in emergency operating forces will visit their assigned shelters sometime during the exercise.



**BEFORE THE BALL**—Redstone Officers Wives Club members serving as committee chairmen for the annual Charity Ball sponsored by the club, work on decorations for the event set for November 16 at the Redstone Officers Open Mess. Left to right are: Mrs. Vincent LaFatta, decorations; Mrs. Henry Lowder, reservations; Mrs. Robert Morrison, general chairman; and Mrs. Joseph DeSantis, tickets.

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# Huntsville Role Continues Important



## Readiness Group

Mrs. John E. Persons, the Redstone Readiness Group first lady, was honored with a farewell tea Tuesday afternoon at the Officers Open Mess. Officers Wives of the Group sponsored the affair in the Safeguard Room.

The Group's November bridge session will be hosted by Mrs. William Rogers, at 421 Hughes Dr. It is scheduled for Tuesday morning, November 19.

A Couples' Party bridge will be given by Mrs. Gordon Tingle at her 320 Hughes Dr. home next Tuesday evening.

The special Purpose team wives will sponsor the November 26 coffee at the Open Mess.

## Property Goes By Sealed Bid Sale

The sale of 35 lots of hardware, piping, electronic spares, dollies and fittings through sealed bid has been announced by the General Services Administration.

The material is in Building 8021 at the Marshall Space Flight Center where it can be inspected by prospective bidders between 9 a.m. and 3 p.m. Monday through Friday from Oct. 29 through Nov. 11. Bids will be opened Nov. 13 and 14.

For further information, telephone Jerry Centofanti or Jo Ann Knight at 453-4440.

"One unified command with three coordinated parts under one manager," is the way Major General Robert C. Marshall described the present structure of the country's Ballistic Missile Defense program.

The Army's BMD program manager returned to Huntsville last week to address the annual meeting of the Tennessee Valley Chapter of the American Defense Preparedness Association at the Officers Open Mess.

General Marshall listed the three coordinated parts of the overall program as Safeguard, Site Defense and Advanced Technology.

He said the Safeguard deployment in the Minuteman field at Grand Forks, North Dakota, protects a portion of Minuteman and provides experience for future development while Site Defense is an essential step in the orderly development of a second generation system. It is designed according to Marshall, to counter the threat expected in the '80s.

The former commanding general of the Safeguard System Command described the Advanced Technology program as a "vigorous research effort addressing all components and functions of BMD."

It guards the U. S. against technological surprise by keeping us abreast of Soviet developments and insuring that our technology is at least as advanced as their's. "Actually," he said, "it provides the basis for upgrading both offensive and defensive systems."

The three programs, advancing in concert, cannot help but be of concern to the Soviet offensive planner, Marshall claimed.

"For him the persistent question must be, 'Which way will the U. S. programs go?'"

In discussing the political-fiscal environment as it impacts on the program, Marshall said the SALT agreements tend to create a climate calling for reduced BMD emphasis, citing the drastic change in program direction following the 1972 pact.

The FY-73 budget request went from a 12-site planned deployment to one of two sites. Congress later restricted deployment to the Grand Forks site and the FY-74 budget

even all but eliminated the National Command Authority protection study.

The BMD program manager said the problems for proponents of the system in the present environment is complicated by the fact that many people feel that passive measures, like hardening of silos, are the best means of protecting out strike capability.

The Air Force has taken steps to harden Minuteman silos and help protect them against a Soviet attack and some Congressmen feel this is sufficient.

"Given the current Congressional attitude toward BMD," Marshall said, "and the climate of overall government austerity directed by the President, I think we can expect Congress will look hard at the requirement for funding of the three elements."

Looking ahead, Marshall said he "would be less than honest if I didn't say that we were going to have funding problems."

"The Army has an objective of expanding its field forces to 16 divisions, and at the same time the President is trying to balance the national budget. It can't help," he said, "but mean austerity in defense across the board - and research and development will have to bear a proportional share of the burden."

"One thing is clear," Marshall said in closing, "Huntsville will play an important role." As the home of ballistic missile defense, the local area has built a capability, equalled at no other place in the country.

He said establishment of the BMD Advanced Technology Center here in close proximity to the Army Missile Command enables a unique exchange of knowledge, ideas and talent.

"The opportunities are great," Marshall stated, "but so are the responsibilities. The country needs our program. The Soviets worry about it - and they respect it - because they respect force."

"They measure our resolve by where we place our dollars and what return we get in terms of military forces. Today's active BMD program will provide this nation with the basis for a system deployment to defend itself."

"We must continue with a strong ballistic missile defense program and we must try to persuade others to this point of view, sell the BMD

program, if you will - then work to make it a good technical program, in the interest of the nation," he concluded.

PAGE 6 THE ROCKET — OCTOBER 30, 1974

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Among persons retiring at MICOM during the past two months and their organizations are:

**FACILITIES ENGINEER:**

- William W. Byrd
- Preston T. Watson, Jr.
- Houston DeArmond
- Homer F. Landman
- James E. Thompson
- Prentice E. Hicks
- James I. Watson

**MR&E LABORATORY:**

- Andrew D. Chandler
- Henry H. Wilkes
- James A. Hunter
- Mary H. Wilkinson

**EQUIPMENT MANAGEMENT:**

- Burrell Brown
- Cecil H. Brewer
- James D. Adams
- Rowland M. Tharaldson

**MATERIEL MANAGEMENT:**

- Jimmie M. Mickler
- Paul A. Fons
- William C. Sparks
- Robert C. Simmons

**PERSHING:**

- Victor H. Robertson

**AUDIO-VISUAL**

- Charles Avedon
- Carl Pickens

**PRODUCT ASSURANCE**

- Joseph H. Geisen
- Abie B. Franz
- Arthur P. Nork

**HOSPITAL**

- Mary N. Tolgyessy
- Billy H. O'Barr

**ADMINISTRATIVE SERVICES:**

- Mary H. Hammett
- Grace G. Smith

**TRANSPORTATION:**

**PROCUREMENT AND PRODUCTION:**

- Thomas E. Carter
- John J. Morris
- Grady L. Scott
- Montez M. Brady
- Clinton A. Gould

**MANAGEMENT INFORMATION SYSTEMS**

- Davis W. Ryals

**STINGER:**

- John B. Venters

**MAINTENANCE:**

- Leonard H. Jones
- PT & FD
- Robert A. Robinson, Jr.
- Willie T. Chamberlain

**INTERNAL SECURITY:**

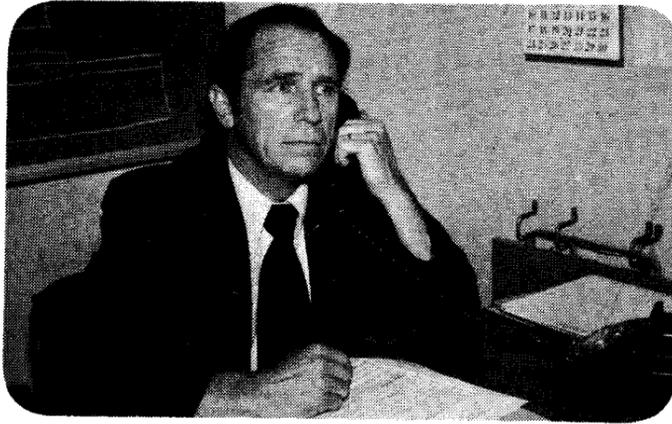
- James A. Hardiman

Deadline Near

December is the tentative deadline for applications to the next higher Army selection board for commissioned officers. The board meets in March 1975.

The RA program and eligibility requirements are outlined in AR 601-100 and DA Circular 601-54.

Applicants should be sure that a copy of their birth certificate is included in their packet.



PENROD

Heads Personnel Unit

Ned Penrod has been appointed chief of the Nonappropriated Fund (NAF) Personnel Unit, according to an announcement by Luther Adams, Chief, MICOM Civilian Personnel Division.

In his new position, Penrod is responsible for the administration of all personnel management functions for NAF employees in MICOM activities at Redstone.

Penrod, who has had 18 years experience in personnel management, has been employed at the Marshall Space Flight Center, in private industry and at the Alabama State Employment

Service as well as with Army agencies. He was a personnel staffing specialist in the MICOM Civilian Personnel Division just prior to his recent NAF appointment. He came to Redstone in 1961.

During World War II, he served in the Army Air Force.

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# HALLOWEEN



**Oct. 31**

"First you cut off the top, then reach inside and grab a handful of this gooey stuff . . ." The little ones of the Redstone Preschool/Daycare Center are learning how to cut a pumpkin. The finished products are one Jack-O-Lantern, many gooey little hands, and a lot of smiling faces.

PAGE 8 THE ROCKET — OCTOBER 30, 1974

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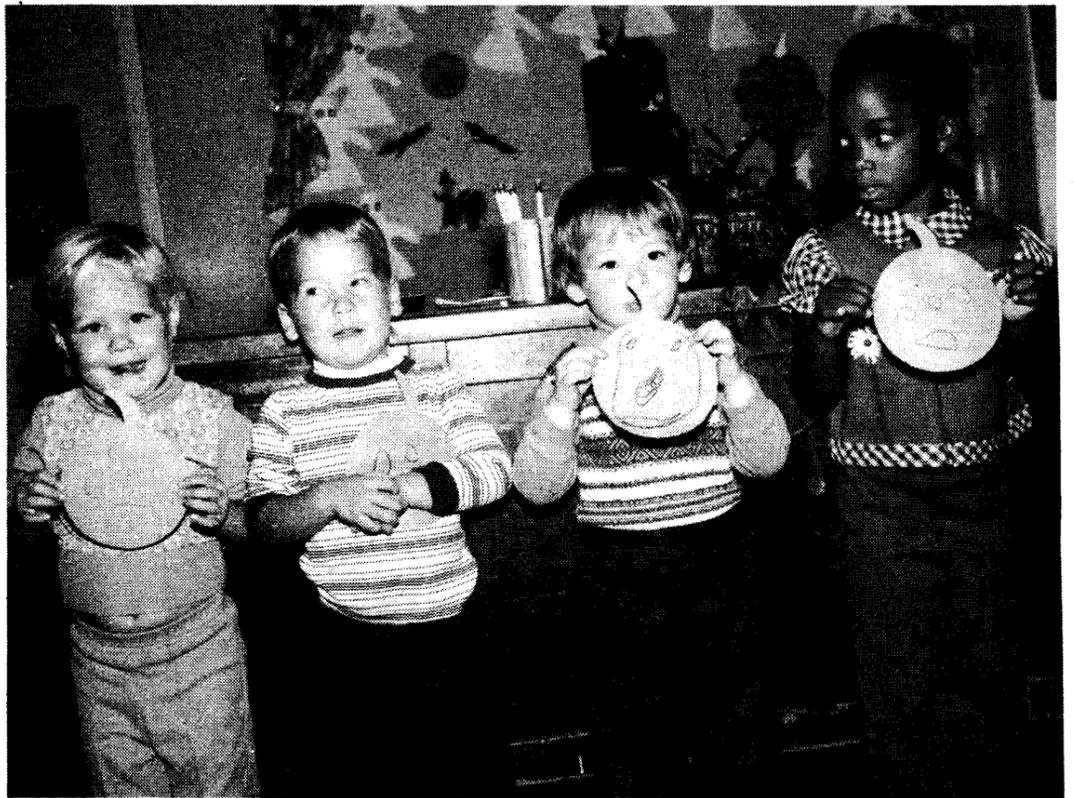
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## Eighth Squares Marine Account

The 8th Student Company edged out the Marine Detachment to take honors for the 2nd Battalion field day last Wednesday at the Missile and Munitions Center and School.

The Leathernecks won the first field day last August.

Competition among the units included events from the previous field day, tug-of-war, a 500-yard relay, horse and rider relay, log toss, and pushball matches.

"Izzy dizzy" (a head-spinning waltz with a baseball bat) provided a new twist, replacing the M-16 rifle teardown and assembly race.

As the final pushball event began, the 8th led 8-7 in the point tally from previous events.

The students and Marines were tied 1-1 until the 8th broke away in the third period to win the event and the day's competition.

Final field day score: 8th Student Company 11, Marines 9.

### Openings Listed For Local Area

The Huntsville Area Office, U. S. Civil Service Commission has announced today it is accepting applications for the positions of Recreation Specialist, (GS-5-7), Teletypist, (GS-4) and Pharmacy Technician, (GS5-7). The positions are located in various Federal agencies in North Alabama.

Additional information concerning filing procedures, qualifications, and salary can be obtained by calling 453-5070 in Huntsville, or 325-3601 in Birmingham. In other areas of Alabama, call toll free 1-800-572-2970.

Information can be obtained by writing U. S. Civil Service Commission, Huntsville Area Office, Huntsville, Alabama 35801, or Federal Job Information and Testing Center, U. S. Civil Service Commission, 15 S. 20th Street, Daniel Building Mall, Birmingham, Alabama 35233. Applications will continue to be accepted until the need is met.

The Federal government is an Equal Opportunity Employer and employs without regard to race, color, religion, sex, age, or national origin.



**HUFFING AND PUFFING**—Sergeant Robin Cromwell gives "tec support" to his men in a tug of war contest during the second bat field day activities held last week. The leathernecks showed fine but lost the battle to the 8th Student Company.

### Redstone Films Highly Honored

Three films produced by the Motion Picture-Television Production Division of the Redstone Arsenal Support Activity (RASA) captured first and second place honors in the 1974 Ralph H. Landex Industrial Management Society Film Competition.

The award winning films included "Homecoming", a production based on the return of American P.O.W.'s from Vietnam. Film footage submitted by all branches of the military services was screened locally and a script was written at Redstone. The film won first place in group one of the competition.

Others winners were "The Automated Engineering Document Preparation System (AEDPS)-MIL-STD-35", which won first place in group three; and "MAST, Military Assistance to Safety and Traffic", which came in second place in group two.

Louis J. Napoleon, a motion picture-television production specialist for "Homecoming" will accept the awards at the 38th Annual IMS Clinic awards banquet to be held on Nov. 7, in Chicago.

## Well Coordinated Plan Reduces Shipping Cost

When the USS Bland sailed from Concord, California recently, it carried tons of MICOM mission materiel, scheduled for delivery to Korea and Taiwan. The Bland is one of many vessels that transport missile materiel to overseas destinations; however, this voyage was significant in many ways.

Due to the required delivery date in Korea, a large portion of the MICOM tonnage had been earmarked for airlift. As a result of joint effort by the items managers, program managers, the traffic management personnel of the Materiel Management Directorate, working with the using units overseas, and the Military Traffic Management Command, a total of approximately \$800,000 was saved through diversion to surface mode. Four MICOM missile systems were included in the cargo.

Many actions were necessary to accomplish this move by ship and still meet the requirements of the users. Close coordination with

scheduling personnel of the Western Area, MTMC resulted in the loading of the Bland being planned to include both inert and ammunition items. The vessel docked first at Oakland for non-explosives, then made a stop at Concord to load ammunition.

In order for the Bland to handle all of the MICOM materiel, some cargo originally planned for the vessel was rescheduled for another ship, and the entire vessel itinerary was changed. Some discharge ports were eliminated from the voyage, and the first port of call overseas was changed to Korea to discharge critical cargo first.

Cargo assembled at Oakland and Concord for loading on the Bland was originally shipped from Letterkenny, Pueblo, Tooele, Red River, and Anniston. The MICOM Traffic Managers monitored the movement of materiel in coordination with MTMC to insure that all cargo reached the ports in time for loading.

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ES-340 — \$605.00 .....	Sale \$360.00
ES-175 — \$659.00 .....	Sale \$385.00
ES-150 — \$619.00 .....	Sale \$371.00
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# MICOM Express Closes In On Grid Title

## Missilemen Lead By Five But West Race Tightens

By Dave Cowan

The MICOM missilemen continued their ferocious drive behind strategist Mike Spry last week to capture their 12th win against one defeat in the Eastern division of the RSA Flag Football League.

MICOM's tactics dominate all statistical categories in both divisions.

The missilemen hold the record for the most points scored (220) and the fewest points scored against them (36).

However, MICOM isn't the only team playing exciting, wide-open football as the free-wheeling Western division continues to be a toss-up among the 8th and 7th students and Meddac.

In last Monday night's action, the 291st MPs stunned Meddac, 14-12; Company A blanked the 6th SC, 8-0; MICOM gained a forfeit over Company C, while the 8th edged the 7th students, 14-8.

The MPs two-point conversion on a pass from Bob Walker to Larry Jones in the first half was the winning margin against Meddac.

The cops took an 8-6 lead in the first half on a 25-yard TD pass from Walker to Brad Pitts after the medics nabbed six on a 30-yard bomb from Chris Wanzer to Morris Rucker. Both teams scored again in the second half. Wanzer scored on a five-yard run. Later he was intercepted by Pitts, who ran 40 yards for a MP touchdown.

Leonard Langford and Ed Brice combined their efforts for a 50-yard pass play as Company A shutout the 6th students. Langford added the PAT on a play up the middle after the score.

The 8th outscored the 7th students in the first half for their 10th win of the season. Quarterback Jim Johnston hit Malcolm Smith and Larry Story on 30 and 10-yard passes for two TDs, while Leo Mayhew took a Johnston pass for a two-point conversion.

George Dixon hit Joe Small on a

20-yard pass for the 7th's only score. Dixon completed nine of 24 attempted passes.

The 4th outlasted the 8th students, 9-8; 291st MPs blanked the 7th SC, 6-0; 6th SC shutout Company C, 6-0; while the Marines edged Company B, 12-6, in Tuesday night's action.

It was one of those western division classics Tuesday night between the 8th and 4th students. It's been that way all season, but this time the fourth gained the win

### Flag Football

STANDINGS				
EASTERN:				
	W	L	PF	PA
MICOM	12	1	220	36
6th SC	6	6	112	63
Marines	5	7	46	140
Company C	5	8	118	62
Company A	2	11	21	132
Company B	1	12	18	178
WESTERN:				
	W	L	PF	PA
8th SC	10	3	145	61
4th SC	10	3	113	44
Meddac	9	4	170	74
291st MPs	5	8	86	100
7th SC	5	9	94	128
TOP 10 LEADERS				
Name-Unit	Tds	2XP	TP	
Perrin, MICOM	9	7	68	
Jones, J., MICOM	11	0	66	
Wanzer, Meddac	8	0	48	
Nelson, 7th SC	8	0	48	
Whitfield, 4th SC	5	2	34	
Boozer, Meddac	4	4	32	
Miller, 6th SC	5	0	30	
Walker, 291st MPs	5	0	30	
Jones, C., 8th SC	5	0	30	

on the league's penetration rule in overtime.

Cornelius Williams hit Jim Whitfield on a 40-yard pass in overtime to give the 4th their victory. Both teams were deadlocked 8-8 at the end of regulation time. The 4th opened the scoring in the first half on a 30-yard TD pass from Williams to Whitfield, while Jerry Hunter added the PAT. The 8th knotted the score in the final half on a 30-yard scamper by quarterback Jim Johnston. Leo Mayhew added the PAT on a pass play from Johnston.

Johnnie Lee fired a 15 yarder to Bob Walker as the 291st MPs beat

the 7th students 6-0.

Quarterback R.R. Cromwell propelled the Marines to their fifth win of the campaign with a 12-6 win over Company B.

Cromwell found P.A. Newsome open twice on 70 and 15-yard TD passes, while Don Purser hit Wayne Callis on a 30-yard pass for the B's only score.

On Wednesday night, the 4th SC beat the 291st MPs, 6-0; MICOM trounced the Marines, 28-6; Meddac rolled over the 7th SC, 28-18; while Company A penetrated Company B for a 1-0 overtime win.

The 4th students gained a share of first place in the Western division of the league with a win over the MPs. The only score came on a 65-yard pass play from student Cornelius Williams to James Carter in the first half.

Agile Mike Spry passed for four TDs as MICOM blasted the Marines.

Spry hit Joe Jones for two TDs on 20 and 30-yard throws while Arthur Perrin and Wallace Layne added two more on catches of 40 and 25 yards.

The only leatherneck tally came on a 65-yard punt return by Joe Braswell.

The medics shocked the 7th students with a loss and also on the first play of the game as Chris Wanzer ran a kickoff back 80 yards for a TD.

### FOOTBALL CHATTER



ILLEGAL SHIFT



LEADING RUSHER—Chief fullback Billy Boatright (33) takes the pigskin on a counter play for a first down. The game ended in a scoreless tie. (Photo by SSG Greg Prior)

The medics took a 16-6 lead at halftime on Wanzer's 20-yard pass to Jim Breaezeal, after the 7th scored on a five-yard run by quarterback George Dixon.

Wanzer gave Meddac a 22-6 lead in the final half on a 30-yard pass to Morris Rucker. The students fell

short in their bid for the win in the final minutes; scoring two TDs on a 60-yard pass play from Dixon to Don Ferguson, while Joe Small intercepted a Wanzer pass in the end zone on the last play of the game and raced 100 yards down the sideline for the score.

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## Ten Pin Stars Test Talent

Active-duty military keglers will get a chance to show off their skills over a seven-game stretch in the RSA Singles Tournament sponsored by Recreational Services at the Post Lanes, on Thursday, November 5.

Interested bowlers may register anytime prior to the one o'clock start according to Sports Director Ralph Santaliz.

The tournament, one of several new programs instituted by Recreational Services this year, will be added to the already bulging intramural sports program here, "if it is a success," said Santaliz.

"Instead of trophies, bowling balls and bags will be awarded to the top contestants," said Santaliz.

A new ball goes to the overall winner, the bowler throwing the highest single game, and the highest six-game total. Second place in each of the categories wins a bowling bag.



DAISY CHAIN—Chief's defensive captain Billy Boatright (33) nails Madison Ram quarterback John Rossetti (11) for a five-yard loss with the seemingly effort of another unidentified Chief player. (Photo by SSG Greg Prior)

## Finale Ends Scoreless

A picturesque finish climaxed a brilliant football season last Saturday in the Junior Pee Wee division of the Pop Warner Football League as the Madison Rams took the crown over the stubborn RSA Chiefs.

And perhaps the fans were the biggest winners of all as both teams fought bitterly through four quarters of play to the tune of a scoreless tie.

Like all young teams, the Rams and Chiefs have weaknesses that could betray them during any game, but neither club would vow to any pressure in the final match up of the two power-houses.

In an even contest, the Rams made five first downs and 148 yards offensively, while the warriors nabbed four and 147 yards.

Each team had one scoring threat during the game. The Rams marched to the Chiefs 8-

yard line, but were unable to score, while the Arsenal team drove to Madison's 12-yard line before being halted.

Ram quarterback John Rossetti made the greatest impact on the Chiefs defense with 84 yards rushing, while halfback Keith Thames had 32.

Fullback Billy Boatright and halfback Darvi Stevenson rambled for 82 and 46 yards respectively for the warriors.

Defensively, Frank Parker and John Rossetti had eight and four tackles for the Rams, while Boatright and Stevenson headed the Chief's defense with 18 and 10.

### JUNIOR PEE WEE DIVISION Final Standings

	W.....	L.....	T
Madison Rams	6	0	1
RSA Chiefs	4	2	1
Boys Club Lions	2	5	0
RSA Lions	1	6	0

## Center Sets Birmingham Visit

The Recreation Center has scheduled a trip for military personnel, their families and friends to Birmingham on Saturday.

On the agenda will be stops in downtown Birmingham at the Vulcan, and the famed Jimmy Morgan Zoo. The cost to visit the Vulcan, will be \$.25 and the Zoo admission is \$1.00.

Interested military personnel must sign up at the Recreation Center by Friday. The tour bus leaves the Center promptly at eight, Saturday morning and returns around 6:30 A picnic lunch will be served to all who sign up for the trip.

For further information contact the Recreation Center at 876-4531 or 876-5492.

## Bowling Results

### Tuesday Night

#### STANDINGS

	Won
Squires	21
MICOM I	17
Lucky Strikes	17
MICOM II	17
Home Team	16
Fat Harry's	16
Retired I	16
Calibrators	15
Camperland	15
Half & Half	15
Five Aces	11
Tech Escort	11
Marines	6
Company C	3

#### Redrock Engineers

Black Jacks	34
Swingers	34
Gimlets	32
Lucky Strikes	28
Widgets	24
Halo's	18
Sch Bde B's	4

#### RESULTS

ExASPRators 8 Widgets 0
Bee M's 8 Readiness 0
Lucky Strikes 6 Sch. Bde. 2
Strikeouts 6 Swingers 2
Gimlets 4 Halo's 4
Black Jacks 4 Redrock 4

#### IND. HONORS

High Series: Townley, 600; Dwyer, 564; Aldrup, 551; C. Johnson, 544; Fuller 536; Ward 525.
High Games: Townley, 233; C. Johnson, 211; Weinberg, 206; Ward, 204; Aldrup, 204; Dwyer, 202-200.
High Series: ExASPRators, 2996.
High Game: Swingers, 1037.
High. Avg.: Aldrup, 182.

#### Pick Ups

Strikers	19
Clowns	18
Three & Two	18
Interns	14
Barber-Coleman	11
Misfits	10

#### THE STARS

Tom Reid, 603 (234); Gil Vitale, 602; Jessie Partridge, 565 (225); Dick Dauphinee, 552; Herschel Ouzts, 544; Conrad Eadon, 536; Vern Benson, 533; Mike Arndt, 526.

### AMC League

#### STANDINGS

	Pts
Hughes TOW	22
Sprinters	17 1/2
Lily Flagg	17
T-Birds	16 1/2
Spares	16
Fat Cats	16
Bombers	15 1/2
Untouchables	14
Alley Cats	14
Sheraton	11 1/2

#### HIGH ROLLERS

Dennis Frans, 579; Bob Brock, 561; Bob Brand, 547; Howard Helmick, 544; Tom Patterson, 544; Bob Hinson, 537; Bill Wickett, 531; Dick Gore, 530.

### INDIVIDUAL HONORS:

High Series: Sunday, 581; Cowan, 565; Dempsey, 544; Schleimer, 542; Lehmborg, 527; Moore, 518; Harris, 517.

High Games: Sunday, 222; Dempsey, 207.

### Wednesday Officers

#### STANDINGS

	Won
Bee M's	40
Strikeouts	40
ExASPRators	40
Readiness Group	38

### S&M League

#### STANDINGS

	Pts
Reba's Apparel	21
Parkway Lanes	20
Outcasts	19

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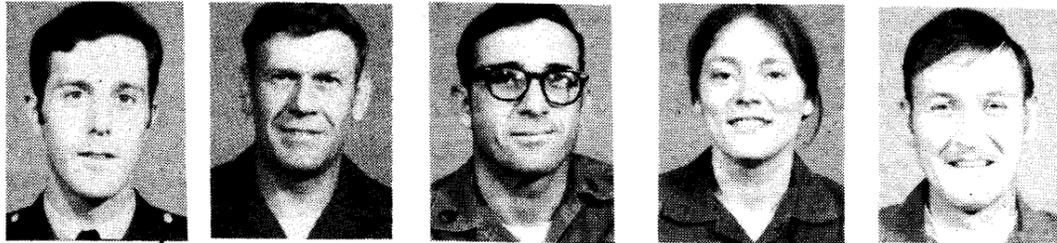
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**NAMES IN THE NEWS**  
 By SP4 FRANK HARRIS



**BRADLEY TODD**

**Arrivals**  
 Second Lieutenant Jerold E. Turner recently arrived at Redstone Arsenal and is assigned to Co. C as assistant S-1 for the School Brigade.  
 A native of Columbia, Missouri, he graduated from the University of Missouri with B.S. and M.Ed. degrees. He entered the Army in 1974 through the ROTC program.  
 SFC Harry T. Scruggs has returned to RSA for his second tour, and is assigned to Co. A with duty as an instructor with the Conventional Ammunition division.  
 Originally from Montgomery, Ala., and graduated from St. George (S. C.) High School, before entering the Army in 1957.  
 Another newcomer, SSG Melvin Clark, is now an instructor with the Technical Escort branch. He is assigned to Co. B.  
 He graduated from Alamogor-

do, N. M., High School before entering the Army in 1963.  
 PFC Greene E. MacDonald was recently transferred from the 7th Student Company to Co. B. Trained as a Land Combat Support Test Specialist, she will now be an instructor with the Land Combat division.  
 Hailing from Tulsa, Okla., MacDonald attended Tulsa Junior College before entering the Army in 1973.



**TURNER SCRUGGS CLARK MacDONALD YOUNG**

Another transfer from the 7th PFC Tony R. Young is now working with the Pershing division as a Missile Repairman. He is with Co. A.  
 A Kentuckian, Young hails from Grand Rivers and graduated from Livingston Central High School in Burma, before entering the Army in 1973.

**Promotions**  
 Jimmy W. Bradley was recently promoted to SP4 in Co. C. He is a physical activities specialist.

A former dolder with the Avondale Cotton Mill in Pell City, Ala., he entered the Army in 1973.  
 Captain Jon H. Todd attained that rank in a recent promotion to his new rank at ceremony. He commands the 5th Student Company in the 2nd Battalion.  
 Todd is a native of Reno, Nevada and a 1970 ROTC graduate of the University of Nevada.

**New ORBs Coming**

Redstone Army officers and others world-wide will be seeing a revised version of the Officers Record Brief (ORB) beginning next year.

A Military Personnel Center (MILPERCEN) committee spent a year reviewing the current ORB. Taking user comments and suggestions, the committee came up with several changes to improve its effectiveness as a personnel management tool.

The format has been revised to group together related data items, making it easier to review. It will also be easier to fold, for more convenient filing.

**BETTER SUPPORT**

The committee has also revised some data elements and added new ones to better support the implementation of the Officer Personnel Management System (OPMS).

Instructions on the back of the form are oriented toward the individual officer and personnel specialist, and include more complete explanations of codes and abbreviations.

There's more space for listing and detailing assignment history. Up to nineteen previous assignments (five more than before) can now be listed, and duty positions more fully described.

The committee was particularly interested in the form's usefulness to display data to personnel managers, and in the effectiveness of the audit procedure to make that data better. Their findings indicate that the system is continuing to improve, according to a MILPERCEN fact sheet.

**FEW CORRECTIONS**

Compared to the forms audited in 1973, this year's audit returns require few corrections in such areas as military or civilian educational level, MOS and dates of rank.

This better data is increasing confidence in the ORB, according to MILPERCEN, citing feedback received during visits to the field.

Another administrative improvement will reduce delays in resolving questionable data changes, while training field personnel in correct audit procedures.

In addition, military personnel officers are receiving a letter from MILPERCEN in cases where an office auditing his brief attempted to make a change incorrectly or failed to supply sufficient information to post in the automated file. This feedback will help produce accurate, timely records, especially as the larger number of corrections from the initial audit cycle drops to a normal level.

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Registration packets containing all necessary instructions are available at the Reception desk in the Lobby of Morton Hall.

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 ARH 300 Historical Survey of American Art  
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 ARS 162 Drawing Light-On-Dark Media  
 ARS 163 Drawing with Collage  
 ARS 215 Art For Elementary Teachers  
 ARS 330 Fundamentals of Advertising Design  
 ARS 372 Mixed Media  
 ARS 382 Graphics: Relief Printmaking  
 ARS 431 Advanced Studio Problems in Communications Graphics  
 ARS 495 Technical Problems

- Bibliography**  
 BIB 100 Introduction to Libraries & Bibliography  
 BIB 345 Bibliography of the Health Sciences

- Biology**  
 BY 113 General Biology  
 BY 114 General Biology  
 BY 214 Human Ecology II  
 BY 317 Comparative Anatomy of the Vertebrates  
 BY 368 Cell Biology I  
 BY 431 Plant Physiology  
 BY 432 Animal Physiology  
 BY 515 Environmental Physiology  
 BY 542 Cellular Physiology  
 BY 569 Animal Histology  
 BY 578 Advanced Invertebrate Zoology  
 BY 598 Seminar in Biology

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 AC 214 Intermediate Accounting II  
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 CH 335 Elementary Organic Chemistry Laboratory I  
 CH 342 Chemical Dynamics  
 CH 345 Experimental Physical Chemistry I  
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- History**  
 HY 101 Origins & Development of the Contemporary World, Part I  
 HY 102 Origins & Development of the Contemporary World, Part II  
 HY 221 The United States to 1877  
 HY 222 The United States Since 1877  
 HY 230 The Medieval World  
 HY 247 English Constitutional History to 1603  
 HY 389 Social & Cultural History of the United States to 1885  
 HY 373 Foreign Relation of the United States to 1890  
 HY 376 Twentieth Century Russia  
 HY 391 Europe, 1500-1815  
 HY 413 The Nineteenth Century South  
 HY 576 The Age of Reason  
 HY 590 Senior Seminar in American History  
 HY 598 Directed Readings in History

- Humanities**  
 HUM 102 Elementary Classical Greek II

- Mathematics**  
 MA 033 High School Geometry  
 MA 104 Introduction to Contemporary Mathematics  
 MA 105 College Algebra  
 MA 133 Algebra & Trigonometry  
 MA 143 Finite Mathematics  
 MA 153 Calculus & Analytic Geometry  
 MA 154 Calculus & Analytic Geometry  
 MA 233 Calculus & Analytic Geometry  
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 MA 670 INTRODUCTION TO FUNCTIONAL ANALYSIS  
 MA 685 STOCHASTIC PROCESSES  
 MA 799 MASTER'S THESIS  
**Statistics**  
 ST 287 Applied Statistics I

- Modern Foreign Languages**  
**French**  
 FH 101 Elementary French I  
 FH 102 Elementary French II  
 FH 201 Intermediate French I  
 FH 202 Intermediate French II  
 FH 304 Advanced French Composition  
 FH 305 Survey of French Literature  
 FH 408 Twentieth Century Novelists  
**German**  
 GN 101 Elementary German I  
 GN 102 Elementary German II  
 GN 201 Intermediate German I  
 GN 202 Intermediate German II  
 GN 311 German Conversation  
 GN 313 Survey of German Literature  
 GN 412 Goethe & Schiller  
**Russian**  
 RN 101 Elementary Russian I  
 RN 102 Elementary Russian II  
 RN 201 Intermediate Russian I  
 RN 339 Russian Poetry  
**Spanish**  
 SH 101 Elementary Spanish I  
 SH 102 Elementary Spanish II  
 SH 201 Intermediate Spanish I  
 SH 202 Intermediate Spanish II  
 SH 323 Spanish Conversation  
 SH 423 Cervantes: Don Quixote

- Modern Linguistics**  
 ML 320 General Linguistics  
**Music**  
 MU 102 Theory of Music II  
 MU 130 Studio Instruction in Keyboard  
 MU 131 Studio Instruction in Keyboard  
 MU 230 Studio Instruction in Keyboard  
 MU 140 Studio Instruction in Voice  
 MU 141 Studio Instruction in Voice  
 MU 240 Studio Instruction in Voice

- MU 150 Studio Instruction in Strings  
 MU 151 Studio Instruction in Strings  
 MU 250 Studio Instruction in Strings  
 MU 160 Studio Instruction in Woodwinds  
 MU 161 Studio Instruction in Woodwinds  
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 MU 171 Studio Instruction in Brass  
 MU 270 Studio Instruction in Brass  
 MU 190 UAH Choir  
 MU 191 Premier Singers  
 MU 192 Huntsville Village Singers  
 MU 195 Music for Awhile Ensemble  
 MU 198 Huntsville Symphony Orchestra  
 MU 199 UAH Wind Ensemble  
 MU 202 Theory of Music V  
 MU 208 Contemporary Dance  
 MU 215 Music for Elementary Teachers  
 MU 312 History of Music II  
 MU 313 Music Form Survey  
 MU 327 Conducting I

- Natural Science**  
 NS 113 Human Awareness

- Nursing**  
 NUR 334 Death & Dying  
 NUR 382 Bases of Nursing Practice  
 NUR 390 Independent Study  
 NUR 481 Episodic Nursing  
 NUR 482 Distributive Nursing

- Philosophy**  
 PHL 101 Introduction to Philosophy  
 PHL 102 Introduction to Logic  
 PHL 204 History of Western Philosophy

- Physical Education**  
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 HPE 107 Folk & Square Dance  
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- Physics**  
 PH 101 General Physics I  
 PH 102 General Physics II  
 PH 104 Astronomy of the Solar System  
 PH 241 Waves & Oscillations  
 PH 310 Intermediate Laboratory I  
 PH 321 Thermal & Statistical Physics  
 PH 401 Intermediate Mechanics  
 PH 414 Solid State Physics Laboratory  
 PH 418 Senior Laboratory  
 PH 420 Senior Thesis  
 PH 552 INTRODUCTORY QUANTUM MECHANICS  
 PH 561 INTRODUCTION TO SOLID STATE PHYSICS  
 PH 609 MATHEMATICAL METHODS I  
 PH 631 ELECTROMAGNETIC THEORY I  
 PH 652 QUANTUM MECHANICS II  
 PH 702 ADVANCED CLASSICAL DYNAMICS  
 PH 787 OPTICAL PROPERTIES OF SOLIDS IN THE INFRARED  
 PH 792 PHYSICS SEMINAR  
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 PH 899 DOCTORAL DISSERTATION

- Political Science**  
 PSC 101 American National Government  
 PSC 102 Problems in American National Government  
 PSC 231 Applied Statistics for Social & Behavioral Sciences  
 PSC 247 English Constitutional History to 1603  
 PSC 325 The Politics of Change in the Non-Western World  
 PSC 340 Political Socialization  
 PSC 350 Social Foundations of Revolutionary Change  
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 SOC 340 Special Topics: Social Policy  
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 SOC 359 The Foundations of Revolutionary Change  
 SOC 385 Complex Organizations  
 SOC 390 Individual Research  
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 HUM 102 Elementary Classical Greek II  
 ID 102 Introduction to Interior Decoration  
 ID 201 Introductory Architectural Planning  
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 MN 503 Introduction to Operations Research  
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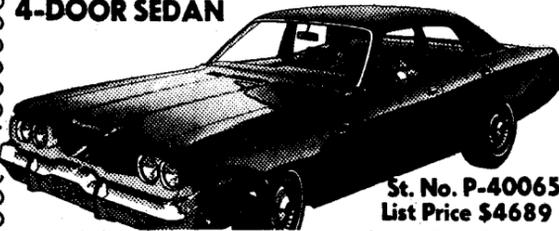
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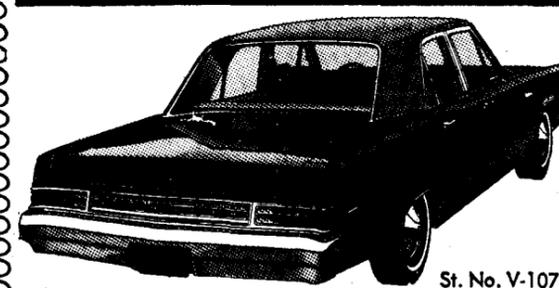
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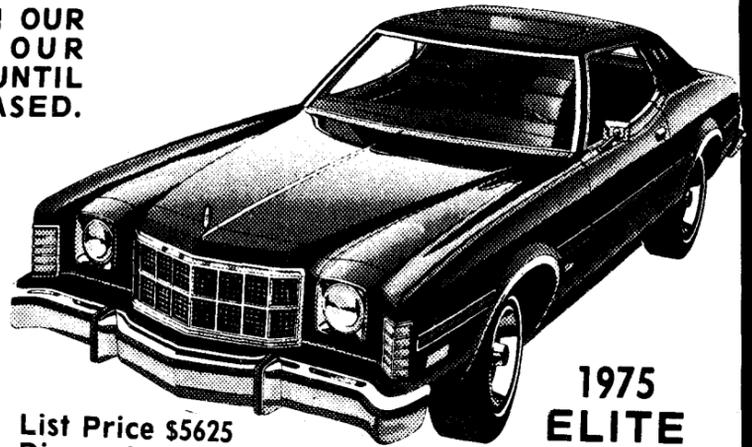
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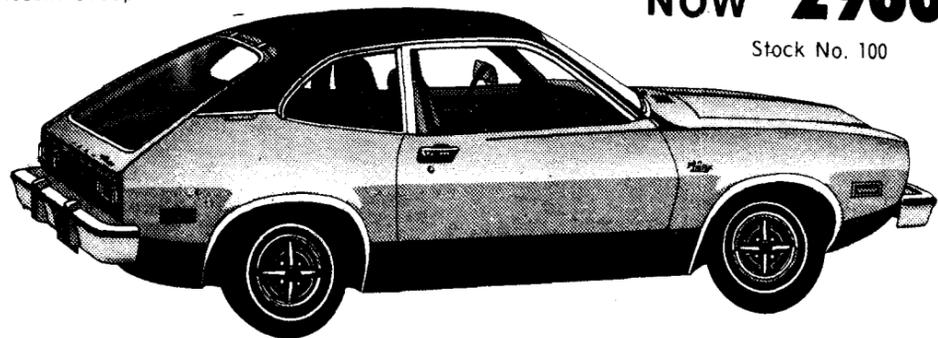
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