

The Redstone Rocket

Vol. XXXI No. 45

April 13, 1983

Panther sightings given credence

BY ED PETERS

Are there panthers on Redstone Arsenal?

No one has produced any physical evidence that the big cats are here but recent reports of sightings seem to prove beyond doubt that at least one panther has visited the arsenal lately.

The sightings are being taken by the manager of Wheeler National Wildlife Refuge as evidence that the big cats may be coming back after years of presumed extinction in the area.

Tom Atkeson, manager of the vast wildlife refuge which has more than 4,000 acres within Army boundaries, wants badly to obtain hair, droppings, a footprint, photograph or other form of hard evidence that a panther is indeed here.



The refuge manager said for some years there have been occasional panther sightings reported in the area in general and on the arsenal in particular.

"In the last 10 years or so, we've had a couple of cases where guards on the arsenal swore they saw one in their headlights, and two or three years ago hunters reported seeing one. So it's really not new."

What is new is the completeness and accuracy of the description of one recent sighting (see related story) and, in another case, the way the sighting was made by surveillance cameras.

Atkeson said arsenal security personnel have told him about seeing a big cat over their surveillance cameras and they say there is no question that what they saw is a panther and not some other animal, even though the image that shows on their screen is not too sharp.

Atkeson said he reacted with "a scream of (Continued on page 8)

High water



Heavy spring rains that soaked the area last week caused minor flooding on the arsenal. The Tennessee River crested Thursday at 563.5, three and



one-half feet above flood stage on the arsenal. As is common in the spring rainy season, the river came

out of its banks into the civilian and military recreation areas, ruining picnic plans for a few days.

MICOM tightens travel approval procedures

Cutting travel cost is the idea behind guidance issued throughout the Army on approval of travel requests.

The Missile Command has added to its approval procedures. Requests for travel for senior executive service, project managers, directors and separate office chiefs are to be submitted to the commanding general's office.

"Locally, it means we're trying to significantly reduce the funds being expended for travel. Trying to cut down on the number of trips, the number of people going on trips," said Maj. Bill Bond, deputy chief of staff. This means considering "whether or not it contributes to the accomplishment of our mission objectives," he added.

Senior executives, project managers, directors and office chiefs requesting travel should submit certain information to the commanding general's office. This includes their name, grade and position title of each person traveling; purpose of trip; trip dates and locations to be visited; type of transportation; and nature of invitations (if any) to which travel is a response.

Late travel requests can be handled by telephone but a follow-up is required, officials said.

Here is a list of officials and who approves their travel:

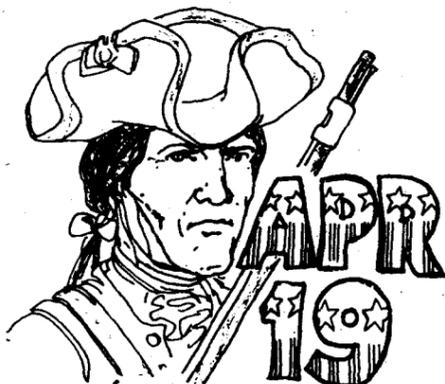
Deputy commander for readiness, deputy commander for research and development and all senior executive service will be approved by the commanding general.

Directors of Integrated Logistics Support, Product Assurance, Missile Systems Readiness, Management Information Systems, International Logistics, project managers for Hawk, Chapparal/Faar and Tow will be approved by the deputy commander for readiness.

Project managers for Stinger, ATM, JTACMS, ADCC, Viper, Hellfire/GLD, MLRS, Pershing and directors for Missile Intelligence Agency and Foreign Intelligence will be approved by the deputy commander for research and development.

All other staff offices and separate offices to include the deputy post commander will be approved by the chief of staff.

Ceremony marks treaty anniversary



A ceremony marking the bicentennial of the Treaty of Paris will be held here Tuesday, April 19.

The 7:30 a.m. ceremony commemorating the 200th anniversary of the event that ended the American Revolution will take place in front of MICOM headquarters building.

A 15 minute program will feature a ceremonial raising of the garrison flag by an honor platoon, a 13 gun salute and remarks by Col. Thomas D. Reese, MICOM deputy commander for research and development. Refreshments will be served and everyone is invited.

April 19 marks the 200th anniversary of the first solid confirmation that the Revolutionary War was about over.

In 1783 Gen. George Washington revealed to his soldiers camped at Newburgh, N.Y. the terms of the first draft of the Treaty of Paris which eventually documented the terms for the end of the nine-year war.

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Letters

Left the scene

Editor:

He honked just before he hit me. Was he warning me of impending danger or signalling he was on target? Then he sped away either gloating or frightened. Surely he knew he hit me; a glance in the rearview mirror would have revealed the aftermath. This happened on Wednesday, March 16, about 7 a.m. on Martin Road just west of Mills Road. I was travelling west on my bicycle.

I had been riding my bicycle for several months without incidence thanks to unsolicited advice given either for my safety or for the convenience of the motorist. The "safety" advice included tips on how to be seen, where on the road I should ride, and when I should be on the road. I soon became comfortable and confident in spite of the traffic for I had achieved mastery in holding a steady course on the white line edging the far right hand side. I was on this course when he honked. As soon as I glanced down to assure my road position, he hit me. My world became an instant turmoil ending in pain and anger.

Fortunately a lot of people stopped with more concern for me than for the automobile that did not stop. I learned it was white with a NASA sticker. An ambulance took me to the military hospital at the arsenal. The treatment was prompt, professional and courteous even though I was a non-military contractor there on temporary assignment. The damages incurred include a compound fracture of the left collar bone, now wired after surgery, loss of the use of my left arm for eight weeks, some abrasions, minor scratches on my bicycle (which my wife wants to sell cheap), and severe scratches on my eyeglasses rendering them useless.

One of my hobbies is running and competing in road races. Obviously this activity is now curtailed with full recovery hopeful in four to six months. In fact I had planned on running in Mobile the Saturday following my encounter. There will be other races. So with patience and special exercise I will return to my hobby. When all those people stopped to help, my faith in humanity reached a new pinnacle. Yet there was one blemish: Someone chose to leave the scene.

Gene Brock
Vought Corp. MLRS

Commends MPs

Editor:

I feel it is necessary to commend the Military Police for a job well done in handling the automobile accident on RSA on 23 March.

They demonstrated professionalism in investigating the accident and notifying the family of the tragedy. They expressed sympathy, compassion

and concern to the family members, and were very accommodating in assisting the family in a way that made things easier when their thoughts were so displaced.

The Tolbert family and I agree that everyone should know when people do their jobs well, and take this time to express our sincere appreciation.

Julie Lee
DRSMI-RDS
Bldg 4500

Who profits?

Editor:

I read in the Rocket April 6 that the recent RASA contracting out decision was based on a savings of about \$1 million over a five year period and that it affected 600 jobs.

My sixth grade math tells me that this is a savings of a whopping \$333 per year per job approximately.

The cost of one single training course per person is generally more than that amount, especially if it

involves travel. These courses are often a requirement of the job.

It has been a mystery to me as to why the Government who has spent millions of dollars to "train" top personnel would desire to turn around and contract out their jobs. At least it was until I remembered that I had read something once that clears all this up: "If you don't understand a situation, think about the financial aspects of the decision".

I have tried to figure out who will profit by this decision. It is not the 600 workers who will lose their jobs, it is not Redstone Arsenal or the U.S. Army who will lose the workers' expertise, it is not the Government who will eventually have to pay more for those unseen things not covered in the contract.

Who is it then, that makes the profit? It must be the organization from Orange County California that won the contract. What do you think?

Bill Schroder
DRSMI-KLC



THE REDSTONE ROCKET
Editorial Offices 876-1500
Advertising Offices 830-1501

The Rocket is published weekly, on Wednesday, the publisher will receive editorial content for publication in The Redstone Rocket through the Information Office, Army Missile Command, Redstone Arsenal, Ala. 35809, Bldg. 5250, Room A-134, Extension 876-1500.
All advertising copy and payments there for are received by Richard Kolb, Advertising Manager, P. O. Box 5351, Huntsville, Ala. 35805, telephones 830-1501 and 830-1502 as representative of the publisher. The advertising office of The Redstone Rocket is located at 500 Wynn Drive, N.W., Executive Plaza, Suite 502G. Advertising deadline — both display and wanteds — is 5:00 p.m. Friday before publication.
The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for The Redstone Rocket at \$14.98 a year, or \$8.56 for six months, tax included. Mailing arrangements may be made with the publisher, The Enquirer Printing Co., Inc., P. O. Box 858, Hartselle, Ala. 35640.
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Tax late? Get extension

The April 15 deadline for filing your federal income tax is just weeks away — but what if you can't make the deadline?

According to Philip J. Sullivan, Alabama's IRS district director, an automatic 4 month extension to file your Federal Form 1040 can be obtained by completing Form 4868, "Application for Automatic Extension of Time to File U.S. Individual Income Tax Return." Form 4868 must be filed on or before April 15, 1983.

The extension to file the tax return is not an extension of time to pay any tax due, Sullivan stressed.

On Form 4868, the taxpayer makes a tentative estimate of the year's taxes and submits any balance due with the form. If the unpaid tax is more than 10 percent, there is a penalty for late payment unless the taxpayer can show reasonable cause for not paying the tax when due. The penalty is one-half of 1 percent per month on the unpaid balance, up to a maximum of 25 percent. Interest is also assessed on any unpaid balance, Sullivan said.

\$10 surcharge for misusing phones

BY SKIP VAUGHN

As of April 1, people who use official Army telephones for personal toll calls may face a \$10 surcharge for each call.

This is in addition to having to pay for the calls. Officials greet the new surcharge as a deterrent to misuse of government phones. "We had really hoped it would take place years ago," says Bill Dortch, director of Redstone's U.S. Army Communications Command.

The \$10 surcharge is to help cover the administrative cost to USACC for collecting on unofficial toll calls. The communications command is responsible for collecting on these calls in order to reimburse the telephone company.

"We had been doing this at our own expense," says Ray Tucker, chief of the support division, USACC-Redstone. "We're hoping that this (surcharge) will discourage any misuse of the system."

The surcharge is for unauthorized long-distance calls, whether intentional or not. It will be charged in addition to the bill which includes tax based on whether the call is in state or out of state. "It probably won't cover the administrative cost but at least it'll be a deterrent to misuse of the system," Tucker says.

Another deterrent officials cite is the telephone company's tighter watch on third-party billing, the practice of charging a call to another number. In one case, a woman in California billed some \$4,500 in calls to numbers at Redstone, including her mother's number in one of the project offices here.

"This effort they (Bell Telephone officials) are making plus this surcharge we think will really assist in holding down personal unauthorized calls at Redstone and all the other bases," says Tucker.

Officials at USACC receive a bill from the telephone company along with a tape listing incoming and outgoing calls. This information is put on computer here and a printout is then sent to telephone control officers in each organization.

These telephone control officers "redline" unofficial calls and USACC attempts to collect on these.

"Once we identify the calls of course we will make up a bill to that individual," Tucker says. "We cannot accept cash. It must be a money order or certified bank draft."

The money is forwarded to Finance and Accounting who then distributes payment for the calls to

'Is this an official call...?'



South Central Bell. The surcharge money is to go into the general treasury for the administrative cost of collecting.

The commercial toll bill at Redstone alone runs about \$9,000 a month, not including calls made on such systems as FTS and Autovon. Officials rely on managers to help enforce use of those telephone systems, according to Tucker.

"We have roughly \$600 (in calls) per month redlined," he says, "And we collect over 50 percent of those."

In one case, a soldier made 28 unofficial calls totalling \$110.50 from September through November 1982. USACC collected payment in

Union members vote on offices

Members of the American Federation of Government Employees went to the polls Monday to cast their ballots for nominees for three positions of Local 1858.

Up for election were incumbent Bob Fletcher and Don Fulton in the president's race; incumbent Hershel Cramer and Jim Pierce for MICOM non professional unit vice-president; and Steve Dunham and Ted Leslie for sergeant at arms.

Balloting was scheduled for 1-6:30 p.m. April 11 at the union office at building 7132 on Redstone Road. Results were unavailable at presstime.

Elections are held every two years and are conducted by an election committee selected by the membership.

"It's very strict," presidential nominee Fletcher said of the election procedure. "It has to be by secret ballot and it's all covered by law."

Seven nominees who were unopposed and elected by acclamation were Bill Woodford, vice president of BMDSCOM professionals; Lee Chatman, vice president for AAFES; Herb Ivey, executive vice president; Lester Mitchell, treasurer; Dennis Garrison, vice president for RASA; Garvis Richmond, vice president for MICOM professionals; and George Allen, vice president for MMCS.

Bill Watts was appointed as interim BMDATC professional vice-president. The union local represents some 9,000 Army employees in the Huntsville commuting area but not all are members.

January. A civilian made five calls totalling \$36 last August and September and the communications command collected in January.

Calls people can be charged for include incoming collect calls, commercial direct dial calls, those that are third-party billed, and personal operator-assisted calls.

"We're already getting some nervous calls from people," Tucker says of the new surcharge.

Army announces leadership changes

WASHINGTON — The Army has announced these leadership changes:

Lt. Gen. Jack N. Merritt, 52, commander of the U.S. Army combined Arms Center (Fort Leavenworth, Kan.), has received President Reagan's nomination to be the next director of the Joint Chiefs of Staff in Washington, D.C.

Lt. Gen. Nathaniel R. Thompson Jr., 55, has been nominated as the Army's inspector general, succeeding the retiring Lt. Gen. Richard G. Tefry, who has held the post since February 1978. Thompson currently commands the 21st Support Command, U.S. Army Europe.

Lt. Gen. Paul F. Gorman, 55, has been nominated for promotion to general and assignment as commander in chief of the U.S. Southern Command in Panama. Gorman is currently serving as assistant to the chairman of the Joint Chiefs of Staff.

Lt. Gen. Wallace H. Nutting, 56, has been nominated for promotion to general and assignment as commander in chief of the U.S. Readiness Command, McDill Air Force Base, Fla. Nutting is currently commander in chief of the U.S. Southern Command in Panama. (ARNEWS)

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Do you think the new weight control regulation is fair?



Sp4 Bruce R. Hogan — B Co. — "I don't think anyone should be overweight, but I don't think the pinch test is fair."



PFC William A. Young — B Co. — "No, I think they are too stringent, but the old one was too lax. They need one that's somewhere in between."



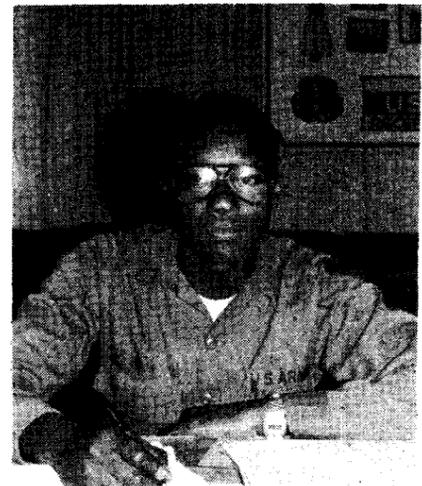
Sp4 Rosie M. Harris — A Co. — "Yes, I think that if people are fat something should be done about it, but I don't agree with putting them out of the Army."



PFC Morris D. Tate — 6th S.C. — "No, because people with larger builds can't be skinny. The new weight scale is too harsh. It needs more allowances for fat and bone structure."



Pvt. 1 Michelle R. Talley — 8th S.C. — "Yes I do, because without weight control we wouldn't have a strong Army. Soldiers should be in shape physically and mentally."



Pvt. 2 Rodrick Itson — A Co. — "No, because some people aren't built to be as small as the weight control scales says they should be."

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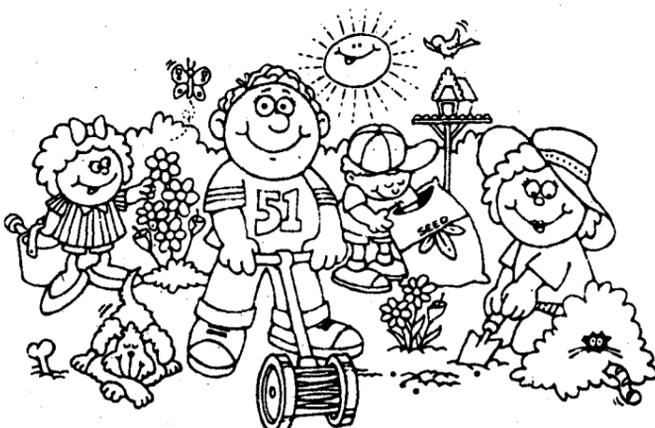
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FINDING OF NO
SIGNIFICANT IMPACT
DECEMBER, 1982

An Environmental Assessment has been written evaluating a proposed project to construct a Propulsion Aging and Mechanical Properties Facility (PAMPFAC) at Redstone Arsenal, AL. This new facility is required to replace old facilities currently being used which were constructed during World War II. The current facilities are distributed throughout Redstone Arsenal and are not suitable for the increased mission requirements now in effect. The new facility will provide for the consolidation of functions and personnel into one location; therefore increasing productivity, reducing inefficiencies and energy consumption.

An alternative to the proposed action would be to maintain and use the existing facilities. However, these facilities are widely distributed (therefore reducing effectiveness) and were not originally designed as a PAMPFAC.

The environmental impact of the proposed action and its alternative were evaluated. Although some dust generation, emission of volatile organic compounds, erosion and energy consumption can be expected, they were regarded as insignificant and inherent to any construction project. No archeological/historical sites, endangered species or surface or ground water supplies will be affected. The alternative to this project was evaluated and continued use of existing facilities will not further the impact on the environment significantly in any areas other than long term usage of non-renewable energy resources. Both the proposed action and its alternative will not impact the environment significantly nor are controversial. A copy of the EA is on file at the Master Planning, Construction and Environmental Office, Facilities Engineering Division, Redstone Arsenal, AL for review by the interested public. Any comments should be directed to the Public Affairs Office, Redstone Arsenal, AL.



2nd Lt. Valerie Brown performs an oil check on a M151 jeep at the preventive maintenance check station during Milstakes. (Photos by Sheila Walker)

'Milstakes' gives tough training to ordnance officers

BY SHEILA WALKER

A battle cry resembling an Indian war cry can be heard as a student officer charges to a test station.

"Milstakes", on April 1, was the final segment of hands-on testing that completed a one-week field training exercise for the students in the MMCS Officer Basic Course.

"Milstakes is done so we can evaluate skills that we cannot evaluate in the FTX," said Maj. Timothy R. Bodine, Chief of the school's command and staff division.

The students stay out in the field all week. They are tested after they have had minimal sleep for several days. This is done to simulate actual combat situations, according to Bodine.

There are 18 stations that each student must pass. Subjects covered are: calling for and adjusting field artillery fire; map reading; performing operational maintenance checks on field vehicles; decrypting and encrypting grid coordinates using KTV 600 Cipher Table; putting a VRC-46 Radio into operation; installing, firing and recovering a M18A1 Claymore Mine; security measures for collecting, reporting and documenting information on enemy activities and personnel; field first aid; detection of chemical agents in the soil; decontamination of self and weapon; wear of M17 protective gear and installing a telephone switchboard.

Students are tested individually at each station

and receive a go or no-go. They get two chances to pass each station. Cadre is on hand at all times to provide additional training and supervision. The scores from Milstakes are averaged into the student's overall grade.

This class is only the eighth class to do Milstakes. It was implemented into the Officer Basic Course in August, 1981. Bodine stressed that they could not do Milstakes without the support of every directorate in the school and the 515th Ordnance Company.

This sentiment was echoed by Capt. Ed Bridges, chief of combined arms team. "The support the 515th has given us has just been phenomenal," he said.

The 515th provides a full field mess hall, vehicles and other equipment and aggressors for the war games. Each directorate supplies personnel to man each of the Milstakes stations. There the personnel give instructions, test and grade the students.

The Field Exercises are totally tactical, according to Bridges. Communication with the school is by radio only.

Bridges explained further that the students do the jobs that enlisted personnel would ordinarily do. The objective here is to give them confidence to correct soldiers when they are not doing their jobs properly. They will know how because they have done it before. They will understand the tactical portion of training their soldiers are getting.

Prior to deploying to the FTX site, the students are designated into various staff positions to plan and execute all phases of the exercise. They do all the planning, said Capt. Richard G. Hooter, common subject instructor in the career development division.

According to Bridges, the first day in the field is spent setting up the initial field position. The students are then split into teams where they coordinate and execute night patrols.

There are two different tactical objective sites. One is a TOW Weapon site and the other is an aggressor base camp.

After complete reconnaissance of the objective, the students are broken down into teams of two to evade aggressors for about 4,000 meters to get back to a friendly base camp with the aid of a compass only. They have no other aids, according to Hooter.

The students must identify enemy equipment, activities and personnel without being detected and then report the information back at the end of the exercise.

During the week of hands-on training the students become efficient in individual and small unit tactics, land navigation and proper radio communication procedures.

"This exercise makes them well-rounded ordnance officers when they get to their first duty station," said Bridges.



2nd Lt. Eddie Drain wears a protective mask and totes a rifle in Milstakes training.



Pvt. 2 Mark Woodruff is frisked by 2nd Lt. Robert Shuster Jr. Processing and documenting "enemy" personnel is one of 18 Milstakes stations that each OBC student must pass.

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Computers important to civilian personnel office

BY SKIP VAUGHN

At the civilian personnel office, automation means storing a wealth of information on a computer and preparing material on word processors.

Automation is credited with increasing the personnel office's productivity, the amount of work done in a given time by the same number of people.

The advances haven't gone unnoticed. MICOM Commander Maj. Gen. Robert Moore cited the personnel office's computer usage in a semiannual report to higher headquarters last December. There have also been a number of visits by representatives from other commands.

"We are considered to be one of the most advanced personnel offices in terms of ADP (automated data processing) applications," says Gary Yacura, deputy civilian personnel officer.

These applications include locally-developed systems for storing such information as personnel actions, completed training, and incentive awards. In one division, Recruitment and Placement, names of priority candidates and outside applicants can be called up on computer terminals.

A word processing/administrative support office at personnel types anything that is related to the civilian personnel function. It also has a communications link to a computer and through this it can for example print personalized letters to employees.

"An awful lot of what we do could not be done without the support of Management Information Systems Directorate — Willie Calcote and his people," says Yacura.

Automation at civilian personnel is a responsibility of the technical services division. It operates a number of locally-developed systems and also the standard civilian personnel information system.

That Army standard system is a computer data base that stores information on employees — how many are here, how many are high grades, and so on. "That is the only standard system that we have. All the rest of the systems that we have are unique," says Ron Utley, chief of the division's personnel systems, design and development branch. "They were designed here and implemented here."

These include the personnel control system that has data bases on requests for personnel actions, historical information on completed personnel actions, and a listing of established positions by organization.

Another unique system has records of completed training. It lists all civilian employees who have had training conducted or coordinated by personnel's training office. There is also the incentive awards system to record suggestions and awards.

Four terminals are linked to a computer and are used to call up information when needed.

"It provides a quicker response and in some cases it provides a response which would not otherwise be available for data and/or information," says Utley. Plans include an expanded training system that will also list projected training, and a system for listing referrals for scientist and engineering vacancies.

At Recruitment and Placement, automated systems are used for information when a job vacancy occurs. The local priority placement program lists over 200 priority candidates and nearly 1,000 laterals. The other system, Redstone Outside Applicants Data System (ROADS), lists external applicants.

Two terminals are used to call up this information stored by computer. "The benefits with the automated system is it eliminated a manual record keeping system and replaced it with an automated system which is much quicker and less time consuming to maintain," says Don Dixon, chief of the special recruitment branch at Recruitment and Placement.

Personnel's word processing/administrative support office has 10 word processors. Four of these are tied into a central storage device that stores mostly master file job descriptions. An advantage of having the job descriptions stored together on a so-called hard drum is that four operators can manipulate a document at one time.

Jeanette McNeese, chief of the word processing/administrative support office, calls "our most proud feature" a communications link to a computer. Through this, it can print personalized letters as required for the ROADS job placement system.

"In two years, we've grown from 1 million (lines produced) to 3 million," McNeese says. "This year it'll be even larger because productivity continues to grow, grow, grow." Future plans include linking all of personnel's word processing equipment, and coordinating the technical services division and word processing support office into a complete automated effort.

Personnel's automation needs are addressed by a team of representatives from throughout the personnel office. This automated data activity processing team was created last year.

How important is automation to the civilian personnel office? "We just wouldn't be as good a CPO without it," says Yacura, the deputy personnel officer.



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Man who saw panther finds others have too

BY ED PETERS

For a few years Leon Trotter had been trying to tell people about the panther he had seen on the arsenal. "They'd just kind of look at me like they didn't know whether to believe me or not," said Trotter, a procurement analyst with P&P Directorate.

In light of recent developments, Trotter's tale likely doesn't draw those disbelieving looks anymore.

After this newspaper published a letter (March 30) from Trotter recounting a 1979 panther sighting in an arsenal pasture, he has heard from others who say they too have seen panthers on the arsenal and elsewhere in the area.

Among those he has heard from is Linn Brannon, of the Air Defense Command and Control Project in Research Park.

"It's been probably about eight years ago,"

If you see one...

Arsenal game wardens are assisting Wheeler Refuge personnel in trying to obtain physical evidence of panther presence on Redstone Arsenal and are anxious to talk with anyone who sees one of the big cats. They request you call them at 876-1373 if you think you can help them locate a foot print or other pieces of physical evidence of a panther.

recalls Brannon. He was on Buxton Road going home with his carpool when a big cat crossed the road in front of them.

"I saw him coming out of the pasture from our left," said Brannon. "He came on across the right of

way and we followed him into the sage grass where he disappeared.

"He was not in any hurry and just sort of looked at us" as the animal passed 20 or 30 feet in front of the car at a "gentle trot".

"We had to slow down" so the animal could pass, Brannon remembers. He said the encounter took place in an open area between Finance and Accounting and Patton Road.

"I'm from Arab and I've heard old farmers talk about them for years but I'd never seen one," Brannon said. He described the panther he saw as "a beautiful animal. It had a long tail — it wasn't a bob cat. It was much larger."

Excited about the sighting, Brannon reported it to the arsenal game warden. "He didn't act like he cared," Brannon said.

Also about eight years ago, Escoc Henley was on Dodd Road near the bridge over Huntsville Spring Branch when he and a co-worker spotted a panther.

"We were heading toward NASA and were in that swampy area just before the creek," remembers Henley, an inspector with Equipment Management Division.

They first saw a rabbit, then spotted a panther which was "stalking" it, according to Henley.

He described the big cat as being "a solid color, light tan" and "a big devil . . . as big as a pretty good size dog."

Henley said he stopped the truck and his passenger jumped out waving a clip board. "I don't know what he thought he was going to do," Henley said.

Of seeing the panther, Henley said he "didn't think too much about it" and had forgotten the matter until finding that what he had seen resembled exactly the animal described in Trotter's letter.

As for Trotter, he says he feels happy and relieved. "There is no doubt about what I saw. I really was glad to get some confirmation."

Sightings

(Continued from page 1)

delight" when told about the panther, since the animals aren't presently known anywhere east of the Great Plains except for a little colony in southwest Florida believed to contain about 12 animals.

Panthers once covered the country "from sea to shining sea," said Atkeson.

In the west they still occur through the Rockies, Cascades, Sierra Nevada and in parts of Canada, he said. "They just disappeared from eastern North America," he added, and are a protected endangered species.

Atkeson said the animal known variously in this area as panther, cougar, mountain lion, painter, puma and catamount are all the same animal. "And there's no such thing as a black one," he adds.

Rather they are about the color of a deer, varying in color as individuals and with age and time of the year. They are grayish brown to brownish gray, Atkeson said, and may have a yellowish cast that gives them a blond appearance.

Atkeson concedes it is a long shot but water levels permitting a couple of his people plan to take a boat down Indian Creek today or tomorrow to search the shoreline for panther tracks.

They checked one set of tracks on the arsenal recently but believe them to have been made by a dog. "If a track shows claw marks it is highly unlikely it was made by a panther. They have retractable claws like a house cat and normally don't show claws unless they are climbing," said the refuge manager.

Atkeson feels that "probably just a lone animal wandering through here" is responsible for the panther sightings at Redstone. "There's likely not a breeding pair here." He said the animals are "great rangers" and will wander over an area of many miles.

Atkeson said panthers might be attracted to the arsenal by its relative isolation and presence of deer but one aspect of their being here puzzles him: "If there's a hungry panther around there, why hasn't it attacked a cow or calf?"

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'I think I saw your animal'

BY ED PETERS

Perhaps the best description of a big cat seen on Redstone Arsenal comes from Walter Esslinger, who recently notified Wheeler National Wildlife Refuge officials that he had seen one while hunting. Contacted at home by telephone, the 66 year old farmer and retired Navy Reserve officer describes what he saw in these terms:

"I was hunting turkey on (March) the 26th, a Saturday I think. I was in area 30 on the east slope of Bradford Mountain and I was walking through small timber, about 1½ or 2 inches in diameter. It was so thick I had to turn sideways to walk through.

"In front of me I saw something. I thought it was a deer. It was buff in color but a little bright for a deer, a little lighter in color. The day was rather

windy and the sun was playing tricks like it wanted to come out and then wanted to go back in.

"This animal appeared. He came around a bush and I came around another bush. It was about 150-200 yards downhill. He moved swiftly in a quarter circle to my right and held a radius of about 150 yards.

"When he got around almost 90 degrees from where he started, he disappeared down the hill and I just stood there and watched.

"He was a large animal, every bit as big as a large German shepherd, but maybe not quite so tall. A little longer maybe . . . Bear in mind it appeared and was gone in almost the time you could say 'scat!'

"It appeared to be running in a very crouched

position. The tail made me think it was a cougar. What you're looking for is a long tail. It dropped almost to the ground. It looked like a sideways question mark curved up over his back. The tail part looked about as long as his body.

"He looked like he was running with his legs crouched. I'd say he was trying to hide, to stay as close to the ground as he could.

"I moved to where I saw him get up and looked for signs but there were no droppings or hair but there were rustled leaves, like something had run or walked through.

"It could have been a lot of things but it's my idea of what a cougar would look like.

"I think I saw your animal."

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6th Student Co.	1	7
7th Student Co.	1	8

WESTERN CONFERENCE

TEAM	W	L
Foreign Students	7	1
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HHC #2	4	4
Co. B	4	4
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WASHINGTON — The Army is looking for soldiers in military occupational specialties 13F, 16R, and 16S, in grades E-1 through E-6, to volunteer for airborne training and assignments.

Upon completion of airborne training, soldiers will be assigned to an airborne position at Fort Bragg, N.C., or another post with airborne slots.

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For more information, call Autovon 221-8051. (ARNEWS)

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CAPE CANAVERAL, Fla. — The Army fired another Pershing II missile — the eighth in the engineering development program — on the Eastern Test Range April 10.

All information available right after the flight indicated the missile performed normally. The shot, intended to evaluate missile performance in a long range flight, took the missile more than 200 miles high to a planned landing in the ocean target area south of Bermuda more than 850 miles away.

The Army said after the firing that complete evaluation of test results will require analysis from data collected by two range aircraft operating in the target area.

Soldiers of the 3rd Battalion, 9th Field Artillery, from Ft. Sill, Oklahoma, participated in the firing.

Of the seven prior tests, six in a row have met their primary test objectives. The last five in a row have met all test objectives.

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Top Marine

Lance Corporal Charles L. Bishop was selected as Redstone Marine of the Quarter.

In addition, Bishop also received a promotion to his present rank and was awarded a meritorious mast at a company formation on April 4.

Bishop, a student in the Hawk Mechanical Systems Repair Course, was selected for his outstanding display of knowledge in Marine subjects and for leadership abilities as an assistant barracks NCO.

Bishop also received a free dinner for two at the Redstone Arsenal Enlisted Club.

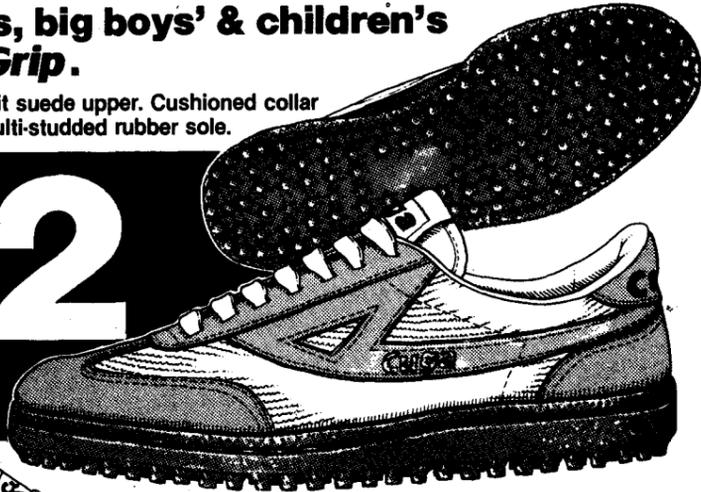
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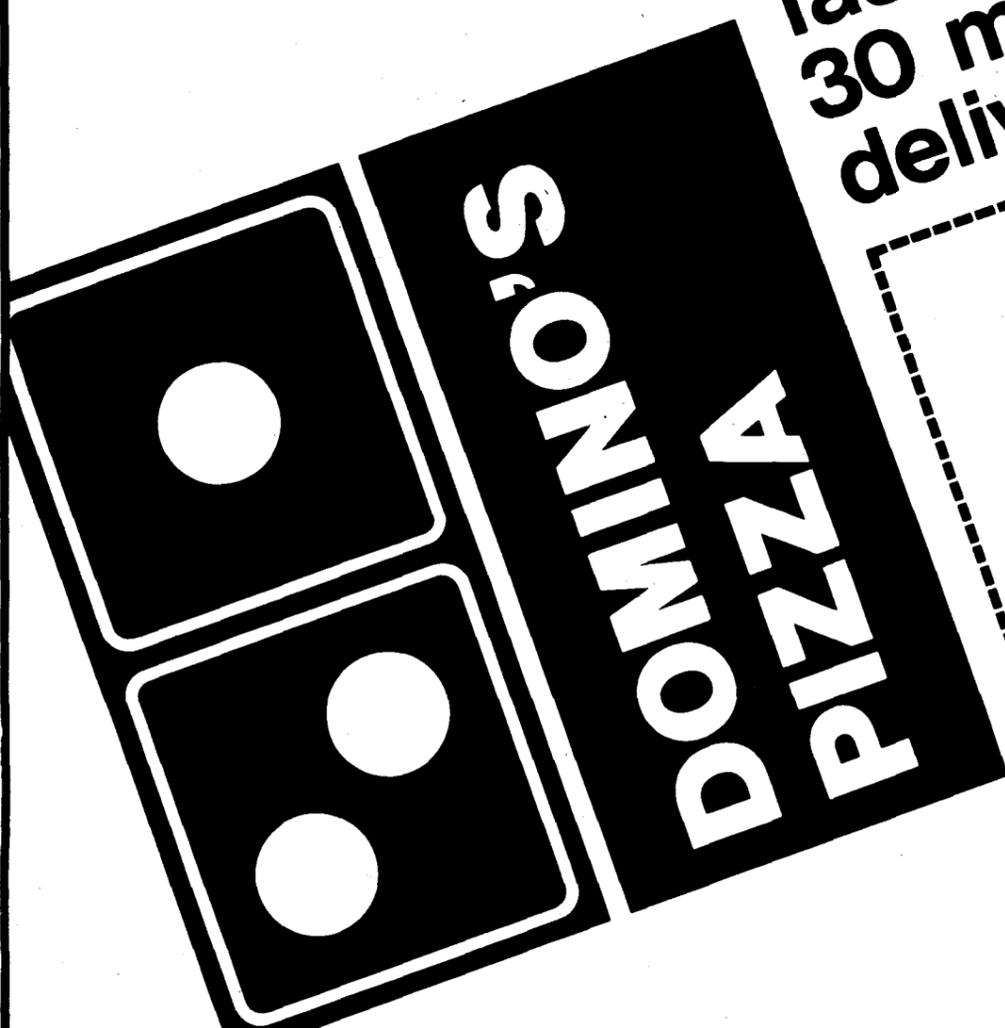
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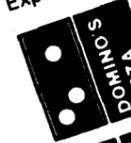
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1983 no 'Off Year' For Vote Counters

The echoes of the 1982 election have faded away, but there'll be plenty of action at the polls in 1983.

Along with gubernatorial races in Kentucky, Louisiana and Mississippi, elective offices are up for grabs in thousands of counties, cities and townships across the United States.

The Kentucky primary is on May 24 to select candidates for the November 8 general election. Up for election are the offices of governor, lieutenant governor, secretary of state and attorney general. Kentucky voters may register by means of the Federal Post Card Application (FPCA) and registration must be

completed 30 days before each election. The FPCA serves as a request for registration and/or absentee ballot. An FPCA must be submitted for each election.

The Louisiana primary is set for October 22. Offices being voted for in the general election on November 19 are governor, lieutenant governor, secretary of state and attorney general. You may register by FPCA and registration must be completed 30 days before the primary and 24 days before the general election. If you are registered, an FPCA may be used to request an absentee ballot.

Mississippi has a full slate of state offices up for

election, from governor and lieutenant governor to supreme court and district judges and state senators

and representatives. The primary is August 24 and the general election is November 8. You may reg-

ister or request a ballot by FPCA and registration must be completed 30 days prior to each election.

Absentee voters should register early. When you receive your ballot, mark it, get it notarized if your state requires it, and return it as quickly as possible.

If you have questions on voting, see your local unit voting officer. If your questions can't be answered locally, write Director, Federal Voting Assistance Program, Room 1B457, The Pentagon, Washington, DC 20301. For telephone inquiries, call commercial (202) 694-4928/4960 or Autovon 224-4928/4960.

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Delicatessen celebrates first anniversary

It has been almost a year since the delicatessen opened at Redstone's Commissary with a ribbon-cutting ceremony.

Hopes were that it would help satisfy customers and increase store sales. The deli located next to the meats section has done both, according to Commissary Officer Bill Penney.

"It's increased business by one and a half percent plus satisfying the customers," he says. A first anniversary sale is set for April 18-30.

The deli, which opened last April 27, offers a variety of cold cuts and cheeses with a fresh shipment coming in each week. Items range from German sausages (bratwurst and knackwurst) to pastrami, corn beef, roast beef, bologna, onion loaf, barbecue loaf, and "old fashion" loaf.

Added in the past year were imported cheeses and more meats, according to Elizabeth Bates, the deli manager. Bates, an assistant manager and two part-time workers are all employed by EUROPAC Service Inc.

EURPAC (short for European Pacific), based at

Greenwich, Conn., is a military food brokerage firm that has started deli's on numerous military installations.

"Here specifically there was an overwhelming need expressed by all the patrons," says Penney. "So we decided to go ahead and offer it. It's just another service that we provide."

The deli is part of the commissary's meat department so the meat department manager oversees its operation, according to Mattie Douglas, assistant commissary officer. "We have a lot of happy and satisfied customers," she says. "Plus we have more customers that are coming in due to the fact we have a deli back here, especially German and European customers."

Sales at the deli average an estimated \$1,000 a day. The Army is said to be looking into the possibility of adding fresh pizza to its list of deli offerings.

"It keeps the patrons in a one-store shopping atmosphere," Douglas says of the deli. "We're trying to serve the most deserving."

The anniversary sale April 18-30 will offer 20 cents a pound off for some meats and cheeses and 15 to 30 cents off for certain items. A smoked sausage "demo" or taste testing will be held for two days each week during the sale.

There has been a difference at the commissary since the deli's arrival, says Ina Snell, assistant deli manager. "It's more like your neighborhood store with the deli," she says. "It makes a difference when you come in and see happy faces."

Inflatable Hawk decoys tested

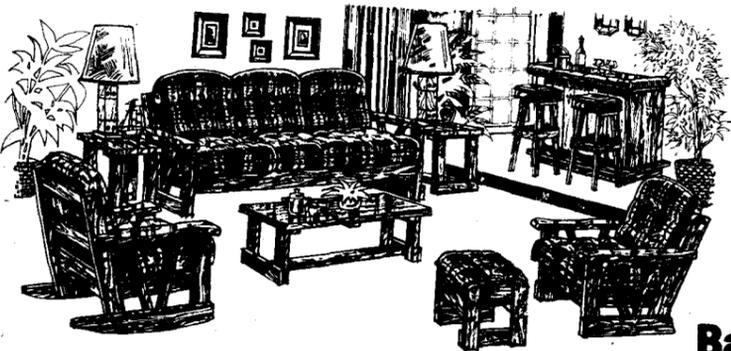
WASHINGTON — The Army is testing inflatable missile decoys designed to impersonate the Hawk missile.

The decoys — intended to confuse hostile groups as to the number and locations of actual Hawk

missiles — have the same shape, size and other identifying factors as the original.

Deployment, retrieval and durability testing of the German-made device will determine its usefulness in terms of Army needs, say test officials. (ARNEWS)

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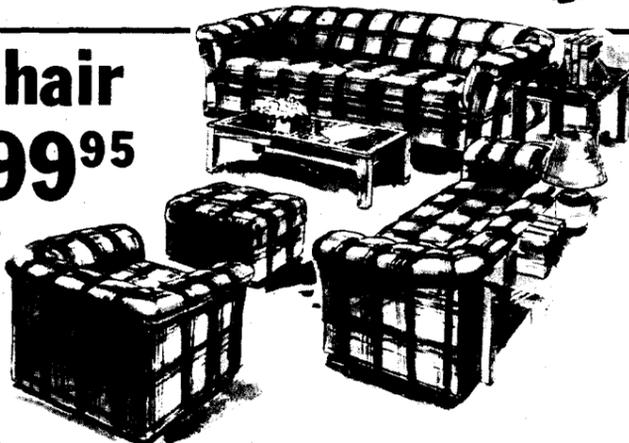
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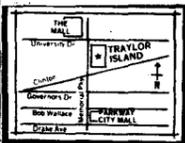
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Rec Center plans more tours

The Recreation Center's extended tours will be increased from five to six per year to approximately one per month because of response to and success of the program.

"I think that the tours are something needed here and group travel is good group therapy," says Bill Moreland, the Recreation Center's information travel and tour director at Redstone.

"Europe, Hawaii and various cruises are on the agenda," Moreland says. "We have weekend tours to attractions near Huntsville but the extended tour services will give more variety and should increase interest in future tours."

Itineraries and a briefing are given prior to the tour to help "get acquainted" before leaving. Careful

selection is made of transportation, motels and dining areas available to the tourists.

Active duty and retired military members with guests get priority on tours. Other government employees may participate on a space available bases. Civilians should contact the Center regarding tour information.

Resources are available for groups who need more information or help in planning tours from officials at the center, 876-4531 or 876-5492.

"Vacation paradise of the world," Disney World, Epcot Center and Sea World, will be toured May 13-18 and Moreland urges all those interested to sign up as soon as possible since the tour is filling rapidly.

Cancellation honors WWII journalist

WASHINGTON — The U.S. Postal Service will commemorate World War II news correspondent Ernie Pyle on April 23 with a special pictorial cancellation.

The cancellation will be available from Fort Totten, N.Y., for one day only. Officials say that the cancellation might become a collector's item.

The cancellation may be obtained by mailing a pre-addressed, stamped envelope to: Postmaster, Attn: Fort Totten station cancel — April 23, Flushing, N.Y. 11395.

Envelopes should arrive by April 20. (ARNEWS)

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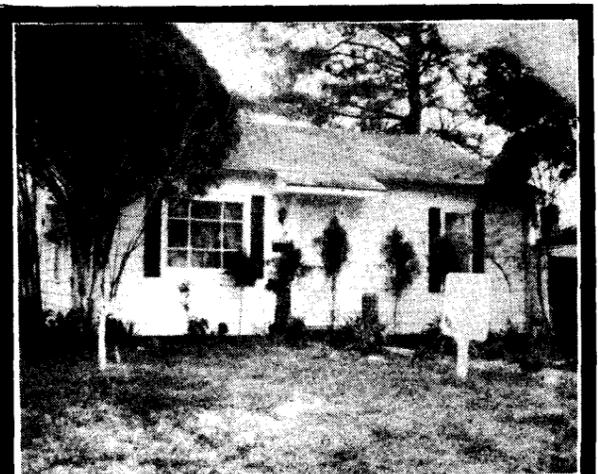
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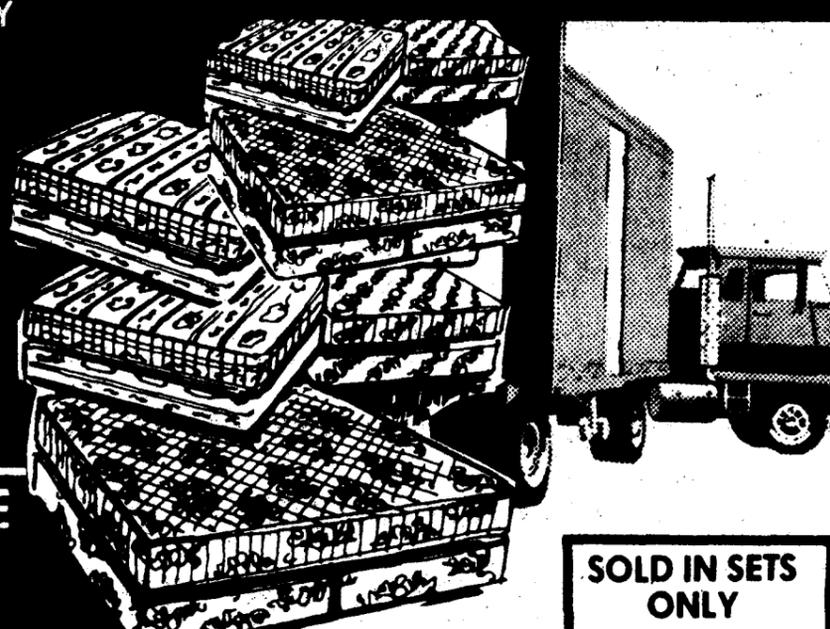

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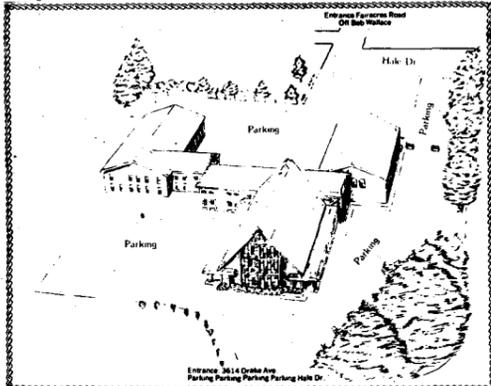


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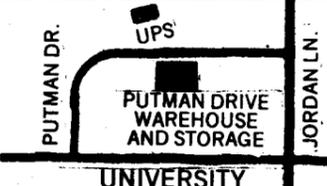
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Announcements

IEEE

There will be a meeting Thursday, April 14 at 7 p.m. in Parlor B of the Von Braun Civic Center about IEEE career activities and service contracts. Carl Bayless, of IEEE's USAB Service Contract Task Force, and Tom Suttle, Washington office staff coordinator for the career activities council, are making fact finding visits to various locations and will testify before legislative committees considering a bill which would repeal the present service contract act. Engineers are not covered by the present act and must depend on contractor adherence to guidelines. Copies of "Guide to Service Contracts" will be available to attendees. For more information call Bill Jones 876-3452.

SOLE

The Tennessee Valley Chapter of the Society of Logistics Engineers (SOLE) will hold its regular business luncheon meeting on April 21 in the patio room of the officers club. A social begins at 11:30 with lunch at noon. The featured speaker is Chris Leachman, Jr., TOW project management office, MICOM. Leachman will speak on recent developments of the TOW Missile System. All present and prospective members and guests are invited to attend. Cost is approximately \$5.00. For reservations call Ken Oard 830-1200 or Jaroslaw Onuszkany 876-1111.

Art museum

Three new exhibitions opened at the Huntsville Museum of Art. They are "Frank Stella: Prints 1967-1982," "Representing Reality: Fragments from the Image Field," and "Red Clay IV: Joanne Felt." The museum is open Tuesday-Saturday, 10 a.m.-5 p.m.; Sunday, 1-5 p.m.; Thursday, 7-9 p.m.; and closed Monday. Admission to all exhibitions is free.

SAME

The Huntsville post of the Society of American Military Engineers (SAME) will hold its regular monthly luncheon meeting Thursday, April 21 at 11:30 a.m. at the officers club. The speaker will be Percy Brewington of the Clinch River Breeder Reactor Project at Oak Ridge, Tenn. For reservations call Mack Proszek 895-5740 and more information call Judy Wilson 895-5740.

Loan forgiveness and deferment

Some soldiers are eligible for loan forgiveness on Guaranteed Student Loans (GSL) or National Direct Student Loan (NDSL) made after Oct. 1, 1975 but before enlistment. Also, active duty servicemen may have a Guaranteed Student or a National Direct Student Loan payment deferred up to 3 years if the loan was made after 1978. For more information call Jan Rosenberg at 876-9141.

Bike-a-thon

The Huntsville 1983 Diabetes Bike-a-thon sponsored by the American Diabetes Association will be held Sunday, April 17 on Redstone Arsenal. Starting points are Whitesburg School and Gate 9 on Rideout Road. Participants may ride any time they wish between 8 a.m. and 2 p.m. State wide prizes include a trip for four to Disney World in Orlando, Fla. and a family weekend at Six Flags over Georgia. Drinks will be provided at the starting points and also along the 22 mile route. For more information or participant envelopes call 533-5775.

Civilian counseling

The Human Resources Development office will give a briefing on the purpose and functions of civilian counseling services on April 19 from 8:30-10 a.m. in room A115, bldg. 5250. The briefing will be of interest to civilian employees, supervisors, and military personnel who supervise civilians. The presentation will be repeated on the third Tuesday of each month.

CVF softball

There will be a meeting of the Civilian Welfare Fund softball league tomorrow at 11 a.m. at Rocket Auditorium (Bldg. 7120) in the second floor conference room. This will be the last opportunity to enter a team in the league this year. If interested in entering a team and unable to attend call Doug McKee 876-1745.

Dining-in

Col. Joseph R. Cote, MMCS commandant, will be guest speaker for the Alabama A&M University Military Science Department's annual dining-in tonight at 7 p.m. at the officers club. This traditional military affair is held at A&M as an enrichment activity for junior and senior cadets and is a part of ROTC Week activities.



Alcoholics Anonymous

The Post Chapel group of Alcoholics Anonymous holds an open discussions meeting each Thursday at 8 p.m. at the post chapel, bldg. 3714. These meetings are open to the public and anyone who is interested in the A.A. program is welcome to attend. For more information call the A.A. answering service at 534-8524.

Operations research symposium

The annual Army Operations Research Symposium will be held Oct. 4-5 at Fort Lee, Va. The theme is "Integration of Modeling and Simulation with Testing to Efficiently Resource the Acquisition Process."

Attendance will be limited to about 200 Army, academic and industrial leaders, with first priority to those presenting papers. Papers on methodology, problem areas and concepts to improve the acquisition process are invited. For more information write the sponsor, U.S. Army Operational Test and Evaluation Agency, ATTN: CSTE-STD (AORS), 5600 Columbia Pike, Falls Church, VA, 22041 or call 202-756-2416 or 289-2416.

Recreation Center

Today — Bumper pool tournament at 7 p.m. Thursday — Movie "Fire Fox" at 2:30 & 6:30 p.m. Bingo at 8:30 p.m. Friday — Movie "Silent Rage" at 2:30 & 6:30 p.m. Saturday — Hot Dog supper at 4:30 p.m. Sunday — Six Flags tour leaves at 6 a.m. Cost \$13.75. Monday — Checkers tournament for 1st & 2nd place prizes at 7 p.m.

Bloodmobile

April 15 — Bus at bldg. 7442, 9-12 noon; April 19 — bldg. 4752 (NASA ACT), 8:20 a.m. - 12:30 p.m.; April 20 — bldg. 3711 Recreation center, 9-12 noon. For more information call Naomi Whitaker 876-3124 or 2759.

Magnolia Ball

The Magnolia Ball sponsored by the officers wives club will be held Saturday, May 7. The Ball will be the first formal event held in the new officers club. Cocktails will be at 7 p.m., dinner at 8 and dancing to the music of Southern Comfort will begin at 9 p.m. Door prizes will be given away during the evening. Tickets can be purchased through May 6 by calling Peggy Rogers 837-7343 or Dottie Cento 837-4583.

Parent medical education course

A parent medical education course will be given Saturday, April 16 at 9 a.m. in the post theater. Two lecturers will speak on the following topics: common asthma problems, common summertime calamities, and sexual transmitted diseases. The presentation will last 3½ hours. For more information or to register call the Parent Assistance Office at 876-8621 or 2857. Parents are asked to not bring small children.

Officers club opening

Officers club operations to be moved to the new facility this week are: Cashier, April 15; Informal Lounge, April 15; Barber, April 16; Lunch will be served, April 18. The club business office moved to the new club April 11. A Grand opening event is planned for May 3.

Handicapped spiritual support

H.E.R.O. is an interdenominational spiritual support group of the handicapped. The first meeting will be on Saturday, April 16 at St. Stephens Episcopal Church on south Whitesburg Drive from 11 a.m. - 2 p.m. A simple lunch will be provided. To reserve a lunch or for more information and/or transportation assistance call Terry Leach at 883-6467 or Lois Render at 882-0909.

Motorcycle club

The Redstone Riders Motorcycle club will host an open house April 16 from 1-5 p.m. Free food, drinks and door prizes will be provided. The open house will be held in the Redstone Riders club house, building 8009, across from the Redstone yacht club on Buxton road (vicinity of the military recreation area). All DOD and NASA motorcycle enthusiasts are invited. Rain date will be April 17. For more information call Tim Bodine 876-5433 or 837-5085.

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VEAP briefing

A briefing for selected soldiers who entered active duty under DOD fiscal 1981 Veterans Educational Assistance Program (VEAP) will be held May 2. The briefing will be in Toftoy, room 229 from 1:30-2 p.m. According to Mary McGough, education services officer, the briefing will explain "cash-out benefits under section 901-PL-342."

Logo contest

A contest to design a logo for Army child development services is being held here for April's "Month of the Military Child." Entries should be submitted to Army Community Services (building 3491) no later than April 15. Prizes include a \$50 U.S. savings bond for first place and certificates for second and third place. Entrants may also submit an accompanying slogan. For more information, call Dr. Bill Resha or Gwen Creel 876-3704.

Astronomy Day

The Von Braun Astronomical Society will sponsor an exhibit at The Mall on Astronomy Day, Saturday, April 23 from 9 a.m. to 9 p.m. The exhibit will feature a variety of telescopes and astronomical photographs, and several local amateur and professional astronomers will be available to answer questions related to astronomy.

ROTC Week

The Alabama A&M University Military Science Department will host the 6th annual ROTC week luncheon at the Huntsville Hilton, April 18 at 11:30 a.m. The speaker will be John Shannon, deputy undersecretary of the Army. Luncheon is open to the public and tickets, \$5.50 each, may be purchased from Alabama A&M Military Science Dept. 859-2650. The theme for this year's ROTC week is "supporting our nation through excellence."

Government accountants

The North Alabama Chapter of the Association of Government Accountants will meet on Thursday, April 21 at Michael's Restaurant, Ramada Inn. Social hour will be at 5:30 p.m., with dinner and the program to follow. Roger Watkins, assistant manager of switched service, South Central Bell, Huntsville, will be the guest speaker. His topic will be "Telecommunications of the Future". Reservations may be made by contacting Aaron Walker 876-1366 or Marilyn Olson, 895-4167.

Women's softball

Players are needed for the Redstone Arsenal Women's Softball Team. Women interested in competing on this post-level squad should contact SSgt. Prentiss Thomas at the Post Gym, 876-2943. The women's team began practice Monday and will practice daily at 4:30 p.m. at Field 13.

Obituary

Dr. Burton S. Shook

Dr. Burton Shook, chief of occupational health services here for 22 years before joining the Madison County health department, died in Huntsville April 10. He was 62. Shook was with the county health department for six years, first as assistant county health officer and then as chief health officer for two years. He retired in March 1981. Survivors include his wife.

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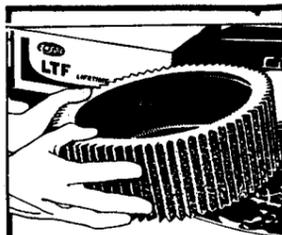
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AUCTION

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SATURDAY APRIL 23rd-10:30 AM
LACEY'S SPRING, AL.

SALE #1 HICKS MOTORS—

1.8 ACRES OF LAND—BLDS. & EQUIPMENT

Location: From Highway #231 South, take Highway #36 at Wavaho Service Station. Go 1.8 miles to property. See auction signs.

This 1.8 acres of land fronts on Highway #36 and has 2 buildings. One building is 30x50' with 9' ceiling. This building is used for an office and repair shop. One building is 36x65' with 14' ceiling, one ceiled room is presently used for paint shop. Both of these buildings are heated and have county water.

1972 Sinclair mobile home, 12x52' + 2 bedrooms, 1 bathroom, heated and has 2 window air conditioning units.

Portable office building, 14x20', heated, air conditioned, bathroom and water heater.

Equipment: Two 5-HP air compressors; one 3-HP air compressor; Airco mig welder; stick welder; 5 floor jacks; 3 bumper jacks; porta power set; misc. air tools; and hand tools and socket sets; air hoses, import body parts; 1978 model and up; fail sections, doors, fenders and other misc. parts and salvage. One 1959 Studabaker, and several used cars; Coin operated coke box; 1981 Honda 650 motorcycle; and Red Devil paint shaker.

SALE #2 1:30 PM—VALHERMOSA SPRINGS, AL.

30 ACRES — MOBILE HOME — EQUIPMENT

Location: From Highway #231 South go west on Highway #36 6.6 miles, turn left on gravel road, go approx. one-fourth mile to the 30 acres. See auction signs.

This 30-acres is a beautiful tract of land with a large horse barn with several stalls, and tack room. This acreage will be offered for sale in three 10-acre tracts and as a whole.

Equipment: 1975 Marietta Mobile Home, 12x60', with 12x24' back porch, storm windows, Central heat and air, fenced in back yard. 1980 30-B Massey Ferguson backhoe, bought new, November 13, 1980, A-1 condition; John Deer tractor, with a 3-point hitch; bushhog, grasscutter; hammer mill; 10x12' portable bid., with heat. Pre-inspection is invited. Plats are available on real estate.

TERMS ON REAL ESTATES: 20% down payment sale day. Balance due within 30 days. Financing available on real estate to qualified buyers.

TERMS ON EQUIPMENT: Cash, certified funds or letter of bank credit. Phone: (205) 539-0626.

Auctioneers: Frank E. Strawn #SL226 — Arthur L. Cole #SL617



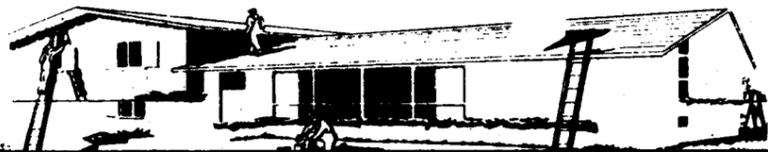
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EARLY REGISTRATION APRIL 14-27

WHO IS ELIGIBLE TO REGISTER IN EARLY REGISTRATION:

- ★ Any CURRENTLY ENROLLED student who is in good academic standing (except graduate non-degree students)
- ★ Any RETURNING student who has attended UAH during some prior term, provided he has submitted re-entry forms (available at Morton Hall)
- ★ Handicapped students are advised to register early. Newly admitted handicapped students, or others who miss early registration, should contact the Office of Admissions and Records for special consideration

LOCATION: Early Registration packets are available at Morton hall, room 232. (Only packets of properly completed forms received in the office of admissions and records from eligible students on or before 5:00 p.m. April 27 will be processed in this registration.)

APPLICATION DEADLINE DATE: May 12, 1983

Deadline Date for Application for Admission to The University for Summer Term is Thursday, May 12, 1983. Application can be made at the Office of Admissions and Records, located in Morton Hall 232. For more information about admissions to The University call 895-6210.

LATE REGISTRATION: JUNE 2, 1983

Only individuals who have been admitted to the University of Alabama System will be eligible for registration on the above date.

SCHOOL OF ADMINISTRATIVE SCIENCE

Crs No.	Sec No.	Lab Chg	Course Name	Days	Period	Cr Hrs.
AC 212	02	(2)	Princ of Accounting II (Also register for AC 222 Section 03 or 04)	MW	6-8 pm	3.0
AC 222	03		Laboratory, AC 11	M	4:50-5:50 pm	0.0
AC 222	04		Laboratory, AC 11	W	8:10-9:10 pm	0.0
AC 312	01		Intern Accounting III	MW	6-8 pm	3.0
AC 313	01		Income Tax I	TT	6-8 pm	3.0
AC 314	01		Cost Accounting	TT	6-8 pm	3.0
AC 415	01		Advanced Accounting	MW	6-8 pm	3.0
ARH 109	01		Art Appre. for non-Majors	TT	6-8 pm	3.0
ARS 265	01	(2)	Inter Photography W/shop	TT	7-10 pm	3.0
ARS 270	01	(2)	Inter Painting Workshop	MW	6-9 pm	3.0
**AS 621	01		Intro. to Admin. Science	MW	6-8 pm	3.0
**AS 623	01		Organizational Theory	MW	8:10-10:10 pm	3.0
**AS 624	01		Organizational Problems	TH	5:00-7:00 pm	3.0
**AS 624	02		Organizational Problems	TT	6-8 pm	3.0
**AS 625	01		Labor Rel. & Ext. Environ	MW	6-8 pm	3.0
**AS 626	01	(2)	Appld Managerial Dec Ec	TT	6-8 pm	3.0
**AS 629	01		Leadership & Motivation	TT	8:10-10:10 pm	3.0
**AS 634	01		Seminar in Admin Science	MW	6-8 pm	3.0
BUS 231	01	(2)	Statistical Analysis	MW	6-8 pm	3.0
All 300 level courses require jr. standing and prerequisites						
BUS 321	01		Business Law I	TT	6-8 pm	3.0
BUS 420	01		Business Policy	MW	6-8 pm	3.0
EC 142	02	(2)	Princ of Economics I	TT	6-8 pm	3.0
EC 143	02	(2)	Princ of Economics II	TT	6-8 pm	3.0
All 300 level courses require jr. standing and prerequisites						
FIN 301	01		Principles of Finance	TT	6-8 pm	3.0
*FIN 554	01		International Finance	MW	6-8 pm	3.0
(With approval of instructor)						
All 300 level courses require jr. standing and prerequisites						
MGT 301	01		Princ of Management	MW	6-8 pm	3.0
MGT 362	01		Management & Labor Rel	MW	8:10-10:10 pm	3.0
MGT 363	01		Human Resource Mgt	MW	6-8 pm	3.0
MGT 385	02	(2)	Operations Management	TT	6-8 pm	3.0
*MGT 570	01		Seminar in Management	TT	3:50-5:50 pm	3.0
All 300 level courses require jr. standing and prerequisites						
MKT 301	01		Princ of Marketing	MW	8:10-10:10 pm	3.0
*MKT 342	01		Promotional Strategy	MW	6-8 pm	3.0
*MKT 515	01		International Marketing	TBA	TBA	3.0
*MKT 560	01		Seminar in Marketing	TBA	TBA	3.0
PR 301	01		Intro to Procurement	MW	6-8 pm	3.0

SCHOOL OF ARTS, HUMANITIES AND SOCIAL SCIENCES

Crs No.	Sec No.	Lab Chg	Course Name	Days	Period	Cr Hrs.
CJ 304	01		Criminal Procedure	TT	6-8 pm	3.0
CM 113	05		Basic Speech Communica	MW	6-8 pm	3.0
**DL 602	01		Psychopa & Pre-Scrip Tch	MTWT	3:50-5:50 pm	3.0
**DL 630	01		Statistics & Methodology	MTWT	1:40-3:40 pm	3.0
**DL 650	01		Practicum in ECEH (Taught 6/6/83 thru 7/16/83)	TBA	TBA	3.0
**DL 650	02		Practicum in LD (Taught 6/6/83 thru 7/16/83)	TBA	TBA	3.0
**DL 650	03		Practicum in Psychometri (Taught 6/6/83 thru 7/16/83)	TBA	TBA	3.0
*ED 500	01		Boating Safety Instruct (Taught 5/26/83 thru 6/2/83)	MTWTF	8 am-5 pm	3.0
*ED 510	01		Foundations of Ed Evalua	MTWT	3:50-5:50 pm	3.0
**ED 606	01		Princ of Curriculum Dev	MTWT	6-8 pm	3.0
**ED 601	01		Public Sch Organ & Admin	MTWT	10:10 am-12:10 pm	3.0
EH 101	04		Freshman Composition	TT	6-8 pm	3.0
EH 205	03		Survey of English Lit	MTWT	6-8 pm	3.0
*EH 530	01		Spec. Studies in Am Lit	MTWT	10:10 am-12:10 pm	3.0
*EH 540	01		Sp Topics in Literature	MTWT	3:50-5:50 pm	3.0
**EH 639	01		Spec Studies in Amer Lit	MTWT	3:50-5:50 pm	3.0
FH 202	01		Intermediate French II	MTWT	6-8 pm	3.0
GN 202	01		Intermediate German II	MW	6-8 pm	3.0
HBS 392	01		Eg Ethics & Prof Behavior	MW	6-8 pm	3.0
HY 101	03		Ori & Dev Cont Wild Pt I	MW	6-8 pm	3.0
HY 102	02		Ori & Dev Cont Wild Pt II	MW	6-8 pm	3.0
HY 249	01		Current World History	TT	6-8 pm	3.0
**HY 611	01		Sp Top: History Internship	TBA	TBA	3.0
**HY 698	01		Directed Readings in HY	TBA	TBA	3.0
MU 110	01		Intro/Mu Listening	TT	6-8 pm	3.0
MU 321	01		Piano Technology (Taught 6/14/83 thru 7/7/83)	TT	6-8 pm	1.0
*MU 520	01		Arts in the Elem Sch Cur	MTWTF	8 am-12 pm	3.0
**PA 620	01		Intergovt Relations	MW	3:50-5:50 pm	3.0
PHL 102	01		Intro to Logic	TT	6-8 pm	3.0
*REC 500	01		Boating Safety Instr (Taught 5/26/83 thru 6/2/83)	MTWTF	8 am-5 pm	3.0
SH 202	01		Intermediate Spanish II	MW	6-8 pm	3.0
SOC 102	02		Anal of Social Problems	MW	6-8 pm	3.0
SOC 106	02		Marriage & The Family	TT	6-8 pm	3.0
SOC 450	01		Medical Sociology	TT	6-8 pm	3.0

SCHOOL OF ENGINEERING

Crs No.	Sec No.	Lab Chg	Course Name	Days	Period	Cr Hrs.
EG 197	02	(4)	Comp Methods in Engineer	MW	6-8 pm	3.0
EG 198	01	(3)	Engineering Graphics	MW	6-10 pm	2.0
EG 294	01		Nature + Prop of Matis	TT	6-8 pm	3.0
EG 295	01	(4)	Nature & Prop Mtrls Lab	M	6-10 pm	1.0
EG 295	02	(4)	Nature & Prop Mtrls Lab	W	6-10 pm	1.0
EG 301	01	(3)	Electronics & Instru Lab	TU	6-10 pm	1.0
EG 301	02	(3)	Electronics & Instru Lab	TH	6-10 pm	1.0
EG 303	02	(3)	Electrical Engr Lab	M	6-10 pm	1.0
EG 315	01		Electronics I	MW	6-8 pm	3.0
EG 362	01		Dynamics	MW	6-8 pm	3.0
EG 364	01	(3)	Kinematics + Dyn Machine	TT	6-8 pm	4.0
EG 364	02		Laboratory	M	6-10 pm	0.0
EG 406	01	(3)	Electronics Lab II	TU	6-10 pm	1.0
EG 416	01		Electronics II	MW	6-8 pm	3.0
EG 446	01		Anal & Des of Energy Sys	TT	6-8 pm	3.0
EG 478	01		Civil Engineer Proj II	MW	6-8 pm	3.0
EG 488	01		Analysis of Engr Systems	MW	6-8 pm	3.0
*EG 502	01		Adv. Logic Circuits	TT	6-8 pm	3.0
*EG 504	01		Instrumentation	MW	6-8 pm	3.0
*EG 505	01		Automatic Control Theory	TT	10:10 am-12:10 pm	3.0
*EG 509	01	(3)	Microcomputers	TT	3:50-5:50 pm	3.0
*EG 526	01		Design & Anal of Exper	TT	3:50-5:50 pm	3.0
*EG 539	01		Selected Topics in Ise (With approval of instructor)	TBA	TBA	0.0
*EG 543	01		Ener Conv & Power Gen I (With approval of instructor)	TT	3:50-5:50 pm	3.0
**EG 636	01	(4)	Systems Modeling	MW	3:50-5:50 pm	3.0
*EG 708	01		Digital Signal Process	MW	3:50-5:50 pm	3.0
**EG 710	01		Sel Top In Elec & Com Eg	TT	6-8 pm	3.0
**EG 711	01		Antenna Theory	TT	3:50-5:50 pm	3.0
**EG 735	01	(4)	Discrete Optimization	MW	6-8 pm	3.0

SCHOOL OF MATHEMATICS AND NATURAL SCIENCES

Crs No.	Sec No.	Lab Chg	Course Name	Days	Period	Cr Hrs.
BYS 113	02	(3)	General Biology (Lab section must also be scheduled)	TT	6-8 pm	4.0
BYS 114	02	(3)	General Biology (Lab section must also be scheduled)	TT	6-8 pm	4.0
*BYS 690	01		Seminar	TBA	TBA	1.0
CH 101	01		Intro to Chemistry (CH 105 must also be scheduled)	MW	6-8 pm	3.0
CH 105	01	(3)	Intro Chemistry Lab	TU	6-10 pm	1.0
CH 105	02	(3)	Intro Chemistry Lab	TU	6-10 pm	1.0
CH 113	01	(3)	Elem Organic Chemistry Lab	MW	6-8 pm	4.0
CH 125	01	(3)	General Chemistry Lab	TU	6-10 pm	0.0
CH 126	01	(3)	Qual Inorganic Anal Lab	TT	6:30-10:30 pm	1.0
CS 113	02	(3)	Intro to Computing	MW	6-8 pm	3.0
CS 113	03	(3)	Intro to Computing	TT	6-8 pm	3.0
CS 208	02	(3)	Comp Org & Soft Sys I	TT	6-8 pm	3.0
CS 309	01	(3)	Switching Theory	TT	6-8 pm	3.0
*CS 501	01	(3)	Systems Software	TT	10:10-12:10 pm	3.0
*CS 511	01	(3)	Assembly Lang Program	MW	6-8 pm	3.0
*CS 517	01	(3)	Data Structures	MW	3z;50-5:50 pm	3.0
**CS 681	01	(4)	Sel Topics in Comp SCI	TBA	TBA	1.0
**CS 681	02	(4)	Sel Topics in Comp SCI	TBA	TBA	2.0
**CS 681	03	(4)	Sel Topics in Comp SCI	TBA	TBA	3.0
**CS 687	01	(3)	Data Base Systems	MW	3:50-5:50 pm	3.0
**CS 781	01		Adv Selected Topics	TBA	TBA	3.0
MA 004	02		Basic Algebra	TT	6-8 pm	0.0
MA 105	02		College Algebra	MW	6-8 pm	3.0
MA 119	01		Precalculus I	TT	6-8 pm	3.0
MA 121	02		Precalculus II	MW	6-8 pm	3.0
MA 153	03		Calc & Analytic Geometry	TT	6-8 pm	3.0
MA 154	02		Calc & Analytic Geometry	MW	6-8 pm	3.0
MA 251	01		Calc & Analytic Geometry	MW	6-8 pm	3.0
*MA 502	01		Intro to Real Analysis	MW	6-8 pm	3.0
*MA 521	01		Intro to Complex Analysis	TT	6-8 pm	3.0
*MA 544	01		Linear Algebra	MW	3:50-5:50 pm	3.0
*MA 551	01		Func of Several Variable	MW	6-8 pm	3.0
*MA 590	01		Sel Top: Tensor Anal	TT	3:50-5:50 pm	3.0
**MA 625	01		Calculus of Variations	MW	3:50-5:50 pm	3.0
**MA 640	01		Graph Theory	TT	6-8 pm	3.0
*ES 593	01		Directed Studies in ES	TBA	TBA	3.0
PH 337	01	(4)	Electronics	MW	6-10 pm	4.0
*PH 521	01		Thermal Physics	MW	6-8 pm	3.0
**PH 671	01		Intro to Elem Particles	TT	6-8 pm	3.0
**PH 732	01		Electromagnetic Th II	MW	3:50-5:50 pm	3.0

SCHOOL OF NURSING

Crs No.	Sec No.	Lab Chg	Course Name	Days	Period	Cr Hrs.
**NUR 601	01		Develop of Nur Theory	TU	9:40-12 noon	3.0
**NUR 601	01		Lecture Continued	TH	12:30-2:50 pm	0.0
**NUR 602	01		Seminar in Research	M	9:40-12 noon	3.0
**NUR 602	01		Lecture Continued	TH	9:00-11:20 am	0.0
**NUR 606	01	(7)	Adv Health Assessment (Lab section must also be scheduled)	M	1:00-4:30 pm	4.0
**NUR 606	02		Laboratory	W	8:30 am-5:00 pm	0.0
**NUR 606	02		Clinical Experience	TBA	TBA	0.0

SCHOOL OF PRIMARY MEDICAL CARE

Crs No.	Sec No.	Lab Chg	Course Name	Days	Period	Cr Hrs.
MED 255	01		EMT - Paramedic Training	MW	6-10 pm	6.0

*Indicates graduate program courses: graduate course fees applicable except for undergraduate students working on first degree.

**Indicates a student must be admitted to the School of Graduate Studies in order to take the course.

THIS IS NOT A COMPLETE LISTING OF ALL OFFERINGS AT UAH.

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