

Redstone Rocket

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Conference-by-satellite users enjoy less travel

BY SKIP VAUGHN

More than \$891,000 in cost avoidance has resulted from use of the video teleconferencing system here.

This system allows for face-to-face conferences by satellite with other sites within the Army Materiel Command network. Users save the government the cost of temporary duty travel.

"We're seeing that people who are using it have found it to be very valuable in their day-to-day operation," said Marvin Solomon, chief of visual information training and services section. His section is part of the Information Management Directorate in the U.S. Army Information Systems Command.

One of the things people may fear is speaking into a microphone or camera, Solomon said. He believes this fear could be dispelled if people would just use the teleconferencing system one time "to find out how comfortable it really is."

Not only is there cost avoidance but users also save themselves the trouble of traveling, according to Solomon. Frequent users of the system also cite these benefits.

"I think we're the biggest user. We love it," said Harriett Tribble, deputy director of the AMC Management Engineering Activity. "The nature of our work is a tremendous amount of travel. Teleconferencing has saved us on orientation briefings, decision briefings. It's never been a problem to us, it's the best thing that's ever happened."

AMC Management Engineering Activity, based at Huntsville's Research Park, has about 130 people locally. "Since Oct. 1, 1986, we've saved \$86,651 in travel" by using teleconferencing, according to Tribble. Her organization has been using it an average of once a week, she said.

"We have used it quite a bit," said Martyn Martin, chief of the integrated logistics support management and evaluation division, part of the Integrated Logistics Support Office. His people have participated in quarterly teleconferences on Manprint (Manpower and Personnel Integration), a new Army initiative to ensure that equipment produced is "user friendly" for soldiers. They also have periodic teleconferences on integrated logistics support with higher headquarters and other subordinate commands.

"Of course the real savings are in not having to travel," Martin said. "The video conferences are normally one to two hours. Sometimes it can take a full day to travel for less than a full day meeting. And then (there is) the convenience that's afforded by being able to video conference. We're able to more or less interface with our counterparts in AMC on a more regular basis than we probably could do otherwise."

There are nine sites in the teleconferencing network.



IN SESSION— Col. Freddie Smith, director of Missile Systems Readiness Directorate, is among participants at a recent teleconference.

The Army Materiel Command headquarters has two studios. White Sands Missile Range, N.M., is expected to be added to the network.

"The only slightly negative experience we've had with the teleconferencing is the time difference we have with Washington—the Eastern Standard as opposed to Central Standard," Martin said. The hour's difference is "just an adjustment we have to make," he added. "Otherwise, it's really been beneficial."

The teleconferencing system, also known as Video Enhanced Network User System, has monitors that enable people to view the signal they are sending out as well as an incoming signal. The conference room seats 14. Cameras are voice-activated so they automatically pan to the person talking. Users can present

videotapes, slides and other graphics; they can make either dry marker or flip-chart presentations.

Since starting April 1986, the system here has been used for more than 400 conferences with about 2,500 participants. The latest cost avoidance figure is \$891,654.

"My total objective is obviously 100 percent use which I never expect to totally achieve," said Solomon, the chief of visual information training and services. "We have some vacant time that could be put to very good use by the conferencing community in lieu of travel."

To arrange a teleconference or tour of the facility, located at room B-300 in Missile Command headquarters building 5250, call 876-5104.

'The Constitution' is Army's theme for 1987

WASHINGTON— Secretary of the Army John O. Marsh Jr. has announced that the Army's theme for 1987 is "The Constitution."

Marsh said it would be up to the leadership at every level to convey to soldiers the message of what the Constitution means to the nation, to the Army and to soldiers themselves.

1987 is the year of the Bicentennial of the U.S. Constitution. The Army is the Department of Defense executive agency for observance of the Bicentennial.

In an address to the annual Army Inspector General Conference, Marsh said that although it was set in motion 200 years ago, the Constitution is today the singular most important force impacting upon the world.

"Our Constitution is the oldest written constitution in the world," said Marsh, "and yet we are considered a young nation. It has impacted on the governments and the structuring of governments of 162 of the world's nations."

As a statement of national purpose, the linkage between

the Constitution and the Army begins in the Preamble. The fourth purpose cited in the Preamble is to provide for the common defense, the sixth purpose is to secure the blessings of liberty. "You cannot have the blessings of liberty unless you provide for the common defense," he said.

The Constitution is many things, said Marsh. "It is a statement of national purpose and a statement of our nation's values; it is a contract between a people and their government, and it is a way of life. Finally," he said, "it is a model for a finely tuned, balanced form of government."

The relationship between the soldier and the Constitution starts at the very beginning, Marsh said, when he raises his right hand and takes the oath: "I do solemnly swear that I will support and defend the Constitution..."

The seventh in the series of annual themes, "The Constitution" will build on previous ones, relating and connecting the messages of each to the present. (Arnews)

Important bicentennial dates

May 25, 1987 - 200th anniversary of the opening of the Constitutional Convention.

Sept. 17, 1987 - 200th anniversary of the formal signing of the Constitution and the adjournment of the Constitutional Convention.

June 21, 1988 - 200th anniversary of the ratification of the Constitution.

March 4, 1989 - 200th anniversary of the day the First Congress under the Constitution met in New York City.

April 30, 1989 - 200th anniversary of the inauguration of George Washington as first president of the United States under the Constitution.

Former astronaut tells about a flight into space

BY SKIP VAUGHN

The Army's first astronaut described his space flight experience for members of the Officers Wives Club last week.

Col. Robert Stewart, an astronaut from 1978-86, has joined the Strategic Defense Command in Huntsville as a special assistant to the program manager. Addressing an OWC brunch meeting Jan. 13 at the Officers Club, he traced a space flight experience from the training to the return trip.

"Launch morning is the first time you really see the vehicle," Stewart said. "Sitting there against that black sky is a beautiful white bird. It's just a gorgeous sight."

He described the feeling of being strapped in and waiting for the countdown. As the time ticks to under nine minutes, he said, "the adrenaline gets to flowing." He described the noise at liftoff— "so loud that your internal organs start vibrating." The force on the body is similar to someone using a jackhammer on the back of your helmet, Stewart said.

"Once those things are gone, then it's a piece of cake," he said, referring to the relief felt minutes into the flight. "All you feel is a steady push back."

Stewart went on to describe how the body feels at "zero G" weight, the experiments that can be performed, and how weightlessness affects food ("strawberry cream crawls out of the container," he said at one point.).

"When it's time to come home, you have mixed emotions," Stewart told the about 125 attendees. "You're going to leave the beautiful view that you have of earth but you're going to come back down and touch it and feel it."

The first indication of the return trip is a "faint pink glow on the windshield," he said, adding that this becomes an orange glow.

"No matter how much you've prepared for this intellectually, it just grabs you when it occurs. It's just so visually impressive."

Upon returning to earth, after eight days of flight, it takes a while to readjust. "We spend about 20 or 30 minutes learning how to stand up again," he said.

Stewart, 44, is originally from El Lago, Texas. A soldier for 22 years, he flew on two Space Shuttle missions (Flight 41B in February 1984 and flight 51J in October 1985). He and his wife Mary have two daughters— Jennifer, 18, and Ragon, 22.

In response to questions before the meeting started, Stewart predicted a bright future for the space program.

"We've had a setback obviously," he said, referring to the tragic Space Shuttle Challenger accident. "But we will recover and continue on. It'll be at a conservative level for a while. Eventually we'll get back to stride and continue along the same paths that we were."



EX-ASTRONAUT— Stewart addresses an Officers Wives Club meeting.

Construction begins on weapon facility

LTV Missiles and Electronics Group has broken ground for a new plant near El Paso, Texas, to produce the Army Tactical Missile System (Army TACMS), a new conventional artillery weapon that can strike targets deep behind enemy lines beyond the range of existing cannons, rockets, and artillery weapons.

Construction on the \$7 million plant is scheduled to be completed late this year and missile production will start in early 1988. The facility will be located on 345 acres in El Paso's Horizon Industrial Park.

Col. Thomas Kunhart, MICOM's Army TACMS project manager, participated in the groundbreaking ceremony with LTV's Tom Guarino, Missiles Division president; Jay Musselman, division vice president; and Don Turis, head of the division's Huntsville field office.

The Army TACMS missile will be fired from a modified version of the Multiple Launch Rocket System launcher. Once fielded, the Army TACMS launcher can also fire MLRS rockets.

Targets for Army TACMS' conventional warhead include enemy troops and materiel but planned follow-on warheads will contain precision guided submunitions for use against armor.



TACMS DISCUSSION— Talking about the Army's new missile system, and the plant to produce it, are from left: Col. Thomas Kunhart, Don Turis, Tom Guarino, and Jay Musselman.

George Washington led Constitutional Convention

Editor's Note: 1987 marks the Bicentennial of the U.S. Constitution. The following soldier-statesman article was prepared by Laurie Viggiano, a public affairs specialist with the Army Training and Doctrine Command.

FORT MONROE, Va.— George Washington stands as the classic example of the soldier-statesman.

After five years of military service during the French and Indian War, Washington loved his quiet life as a family man and farmer at Mount Vernon, Va.

But when resistance to British rule hardened into revolution, he accepted the position of commander-in-chief of the Continental Army.

Serving his country without pay, Washington led his forces in combat in the longest American war before Vietnam. After the Revolution was won, he was called again and again to public service, because people believed in his leadership ability.

For example, many states refused to send delegates to the Constitutional Convention in 1787— until they heard Washington had agreed to preside over the meeting.

For eight years he served as first President of the United States. Only Washington had the prestige, visibility, and quiet authority to transform the promises of the Revolution and the Constitution into reality.

In his presidential farewell address, Washington reminded Americans of the importance of the Constitution: "the Unity of Government which constitutes

you one people...is a main Pillar in the Edifice of your real independence, the support of your tranquility at home: (of) your peach abroad; of your prosperity; of that very Liberty which you so highly prize."



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Log Center group gets ready for new test equipment

Computer programs that will give a machine the "knowledge" to perform thousands of tests on a missile system in a matter of minutes are under development here by a group in Missile Logistics Center.

The programs, known as test program sets, will be employed in a new type of test equipment that will be used to quickly perform troubleshooting sequences so numerous and complex that they would be "impractical if not impossible" to conduct manually, said John Smith, chief of MLC's management office for automatic test equipment and test program tests.

The Army is introducing a new line of automatic test equipment wherein a single system will have capabilities that far exceed those of the proliferation of test equipment that it replaces. Called IFTE, for Intermediate Forward Test Equipment, it is supposed to be capable of troubleshooting the electronics of most Army equipment including missile systems.

Smith's group and their contractors are responsible for writing the computer programs that will enable this new equipment to test missile systems.

"Hawk is the first missile system coming on line to

use IFTE," said Smith. The most likely next candidates are MLRS and Tow-Cobra. The Army is requiring all new systems to use IFTE and also those that undergo major product improvements. "It's a tailorable piece of equipment and can be tailored to the test needs of a system," Smith noted.

A chief advantage of the new equipment is the testing "commonality" it will impart. A "commercial equivalent" version of the field equipment will be used by repair depots, and by contractors for acceptance testing of hardware. "It expands and strengthens commonality of tests performed on the hardware through the production line, depots and field," Smith explained. "Commonality is important; it insures that the system is being tested to the same parameters," he added.

MICOM will spend ABOUT \$30 million annually on test program sets for IFTE and will retain ownership of all drawings and specifications. That way the sets can be purchased competitively instead of sole source at inflated prices from contractors who own the technical documentation.

Capabilities of the new system are such that less work is required to prepare test program sets.

IFTE is faster, more efficient and easier to use than other automatic test equipment (it talks to the operator in a synthesized voice) and combines many capabilities into one system. Training time is reduced because it is easier to learn to operate and it isolates faults so that less technical skill is needed to make repairs.

The field version of the new test equipment is contained in the Army's S-280 shelter mounted on a truck like a van box. In wartime, it is intended for use in the direct support zone close to the battle scene.

Smith said that MICOM thus far is the only command in AMC to have gained approval of its implementation plan for the new testing concept.

The IFTE program is directed by the Program Manager for Test, Measurement, and Diagnostic Equipment, a component of the Communications-Electronics Command at Fort Monmouth, N.J. Grumman Aerospace, Long Island, N.Y., is the prime contractor.

"The program is on go, is looking good and MICOM is going to support it as best we can," Smith asserted.

Hiring preference for military spouses goes worldwide

WASHINGTON— A new program designed to assist spouses in finding jobs at new duty stations has been extended to include GS-05 through 07 and blue collar jobs at similar levels.

The extension went into effect in January and is part of the 1987 Defense Authorization Act. It states that a hiring preference is to be given to military spouses who are best qualified for appropriated fund positions in the Department of Defense at grades GS-05 through 15.

While this policy is not intended to offer a guaranteed job for spouses, it does give eligible spouses an edge when seeking employment in all Department of Defense components, said Cheryl Jacobsen, personnel staffing specialist with the civilian personnel office in the Pentagon. For example, an Army spouse can apply for preference at an Air Force personnel office, or a Navy spouse can apply at an Army CPO.

With the expansion of the program to include grade levels starting at GS-05, the job search for more Army spouses of younger soldiers should be easier.

The original initiative was included in the Military Family Act of 1985 and gave preference to military spouses for appropriated fund positions at GS-08 and above. A change to the 1987 Defense Authorization Act includes grade levels GS-05 through 07, she said.

Even though spouse preference is now required worldwide, there are differences between stateside and foreign area rules.

Stateside, spouses request preference by submitting a copy of their sponsor's PCS orders along with the customary application forms when applying for a vacancy. They may exercise preference 30 days prior through six months after a permanent change of station move of the sponsor, or until they accept or decline a job based on preference, whichever is earlier. Preference may be applied only after an otherwise eligible spouse is determined to be among the best qualified group of candidates for selection.

In foreign areas such as Europe, Japan and Korea, military spouses will receive a one-time preference for jobs at the GS-05 through 15 levels if among the best qualified candidates and the job is located in the same

commuting area as the duty station of the sponsor, said Jacobsen.

Within the Department of the Army, civilian spouses and other family members will receive equal preference for grades up to GS-04 and may receive equal preference for GS-05 through 08 in the absence of military spouses in the best qualified group.

To allow administrative processing, applications may be filed 30 days prior to anticipated arrival in the foreign area, although the preference is not applicable until actual arrival, said Jacobsen.

In all locations, spouse preference will be applied in all DoD components. Further, spouses must request preference through the appropriate personnel office according to local procedures.

To be eligible for military spouse preference, the following steps must be met or taken:

- Be married to an active duty servicemember.

— Accompany your spouse on a permanent change of station move.

— Submit proper application forms to the new CPO for job openings at grade levels GS-05 through 15 or comparable blue collar positions. In addition, make sure you have followed the proper procedures required by the new CPO to apply for spouses preference. However, said Jacobsen, requirements may not be the same everywhere.

An important part of the law is that you have to be included in the "best qualified" group after a competitive screening process, said Jacobsen.

Spouses who need assistance, may stop by their installation CPO or Army Community Service office. There they can find out about available jobs, application procedures and other special employment programs for family members. (Arnews)

Town meetings give military families say

BY PAM ROGERS

Military families and other authorized users of service agencies on post will have a chance to speak out at the quarterly Redstone Arsenal Town Meeting next week.

The town meeting will be held at the Bicentennial Chapel Jan. 26 at 7 p.m.

"The purpose of the town meetings is to present an internal forum that provides an opportunity for Redstone residents, as well as authorized users of the agencies, an opportunity to address representatives of the service agencies," said Pat Byrd, a program analyst in the Directorate of Community and Service Activities.

The meetings, sponsored by the Redstone Arsenal Support Activity, feature a panel of representatives from just about every service agency on post, and is a chance for families to make complaints, ask questions, and let the agencies know what they like about their services, Byrd said.

Since they began last February, several problems

brought out at the meetings have been solved. Improvements have been made in housing, playgrounds, the commissary and the gym, just to name a few, Byrd said.

"Unfortunately, we haven't been able to give them everything they want, but we have investigated issues brought up. We can't always change everything immediately," she said.

Attendance has been good at the meetings so far, Byrd said, with about 100 people attending each one.

"We'd like for everyone to attend," she said. "We can't hear them if they aren't there. I think people would gain from coming and voicing an opinion."

Attendees may even win a prize. Organizations on post regularly contribute door prizes for the meetings.

"We have about 25 prizes at every meeting. The people who donate them help make this program," she said.

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Call For An Appointment

People interested in boating have organization here

You don't even have to own a boat to be a member of a Redstone organization for boating enthusiasts.

The Redstone Yacht Club, an activity of the Directorate for Community and Family Activities, is open to all interested active duty, Reserve Component or retired Army people and civilian employees. "It's also open to other individuals approved by the installation commander," adds Dewey Rhodes, club manager.

"The reason we have a yacht club is to provide an opportunity for folks in the military establishment to develop boating skills and learn boating safety, and to experience organized fellowship among the boaters in the community," he says.

A boating skills and seamanship course, sponsored by the club, is being presented by the Redstone Flotilla of the U.S. Coast Guard Auxiliary. Course sessions are being held Tuesday nights for 10 weeks in the clubhouse at the intersection of Buxton Road and Shields Road.

This clubhouse (building 8014) includes a lounge, boating supplies store, kitchen, upstairs meeting room, and limited boat storage space. With the club's warehouses elsewhere on post, there is enough indoor storage room for about 200 boats. "This varies from time to time because storage is provided on a space-available basis from excess space on the post," says Rhodes, referring to some warehouses in the building 7200 area.

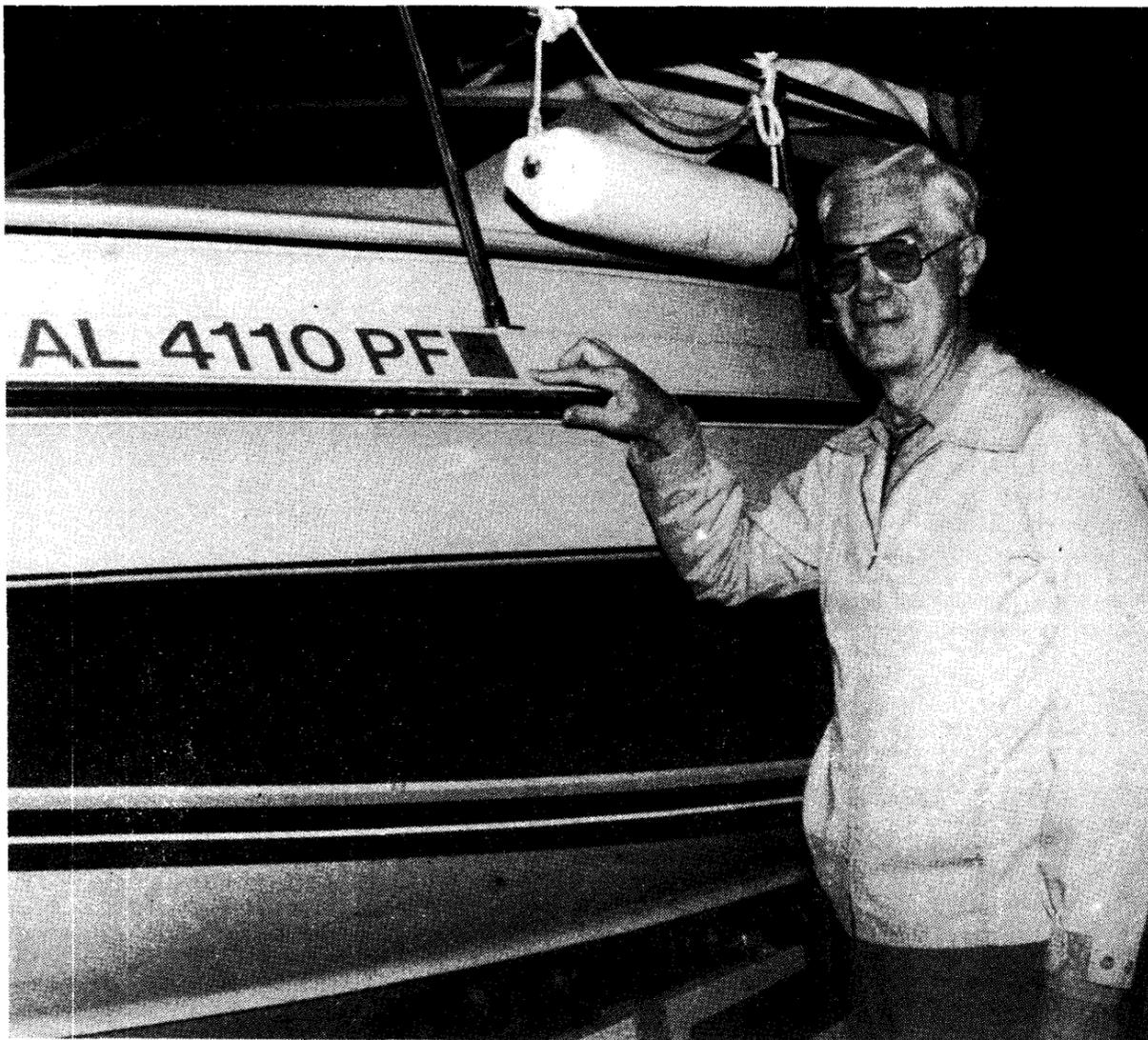
The club owns a pontoon boat, with capacity for 20 passengers (including the operator), that can be rented by any member. The operator must pass the club's operator orientation program.

Meetings are held monthly on the second Friday at 6:30 p.m. "The Yacht Club at its regular meetings provides specific instruction on subjects of special interest to the club members," Rhodes says. Regattas, fun contests for all vessels, are usually held monthly during boating season.

"And then we also have overnight cruises, one-day cruises; and monthly, on the weekend closest to the full moon, we have moonlight cruises," adds Rhodes.

Club officers include Col. Freddie G. Smith, commodore; Col. Edward G. Malone, vice commodore; retired Air Force colonel Charles C. Simpson, rear commodore; retired lieutenant colonel Rhodes, club manager; and retired lieutenant colonel Robert R. Leonard, secretary. Flotilla commanders include retired colonel Tom L. Albertson, civilian employee John J. Wachs, retired chief warrant officer Jerome C. Mitchell, and retired colonel Charles R. Covell.

The Yacht Club, which started in the early 1960s, has about 200 sponsor members. Their families can also attend club activities.



BOATER— Rhodes, club manager for the Yacht Club, shows his boat "The Blue Bonnet."

Last October, the Army consolidated most of its morale, welfare and recreation funds into a single installation MWR fund. "We're no longer a separate financial entity," Rhodes explains. "We're part of the single fund."

Members pay an annual fee of \$24. Besides the opportunity to socialize, the space-available boat storage is considered a main benefit for joining. For more information call SFC F.J. LeBlanc 876-1653, Rhodes 837-6162 or any member of the Yacht Club.

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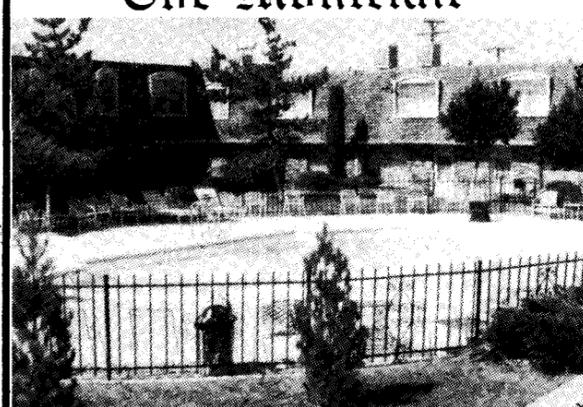
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Army presents awards to its three top journalists

WASHINGTON— Three Army journalists received the 1986 Journalist and Broadcaster of the Year Awards Jan. 12 in a Pentagon ceremony hosted by Secretary of the Army John O. Marsh Jr.

This year's Journalist of the Year winners in the 12th Annual Keith L. Ware Awards Competition are Sp4 Mary K. Hudson, for the Paul D. Savanuck Military Print Journalist of the Year; Leon J. Pantenburg, for Civilian Print Journalist of the Year; and Sgt. Charles Gill, for the John T. Anderson Military Broadcast Journalist of the Year.

The overall Keith L. Ware Awards program selects the Army's top print and broadcast journalists in a competition that considers the best from the Army's major commands in addition to specific honor categories.

The award-winning journalists had their work evaluated in various areas of print and broadcast journalism.

Hudson was selected for her accomplishments while editor of the Castle, the weekly newspaper at Fort Belvoir, Va., between November 1985 and November 1986.

Marsh commended her for her exceptional ability and dedication to the Army's Command Information programs.

On Jan. 7 she was named the second-place recipient of Department of Defense Thomas Jefferson Awards

in two categories — print journalism and special achievement in print media.

Pantenburg, 35, from Ames, Iowa, was selected in recognition for his work as a public affairs writer for the Corps of Engineers' Vicksburg (Miss.) District, where he has worked since 1985.

Marsh said that the Army is proud to have such an outstanding civilian associated with the Army.

Gill, who hails from Florida, reports news, and anchors the Nightly News Update for the American Forces Network in Frankfurt, West Germany. He placed second in last year's Department of Defense Thomas Jefferson Awards competition, as well as first and second in the Army's 1985 Keith L. Ware competition.

Marsh noted that Gill performs an important task for the American soldier and his country in the fine quality of work he does.

The Keith L. Ware Awards Competition is named after the late Maj. Gen. Keith L. Ware, a World War II Medal of Honor recipient. Ware died in a helicopter crash in Vietnam in 1968 while commanding the First Infantry Division. He served as the Army's Chief of Information from 1966-67.

The Paul D. Savanuck Military Print Journalist Award is named in honor of SSgt. Paul D. Savanuck,

an Army journalist who was killed in Vietnam in 1969 while working for the Pacific Stars and Stripes.

The Military Broadcast Journalist Award is named for John T. Anderson. Anderson worked as a broadcaster for American Forces Radio and Television Service. While serving in Vietnam he fell into North Vietnamese hands and was held captive for five years. He was released in March 1973. He currently works for the U.S. Environmental Protection Agency in community relations in Niagara Falls.

On hand for the ceremony were Robert K. Dawson, assistant secretary of the Army for civil works, members of the Savanuck and Anderson families, and family and guests of the awardees. (Arnews)



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El Nino spells doom for some animals, boom for others

BY BOB DROGIN

Special to National Geographic News Service

GALAPAGOS ISLANDS, Ecuador — In an age of high-altitude weather satellites and deep-sea oceanography, scientists here are paying close attention to what ancient land iguanas and sea snakes are saying.

And what the reptiles and other aboriginal animals on these primordial Pacific islands may be saying — in language only they really understand — is that unusually bad weather is coming.

The reason is that a startling number of animals here began mating and breeding months earlier than normal this year. Since heavy rains and storms would disrupt normal nesting patterns, naturalists say the animals may be anticipating harsh weather ahead.

Wild changes

Indeed, some naturalists believe the early breeding is an early warning of another El Nino, the periodic warming of the equatorial Pacific that leads to wild and sometimes catastrophic changes in climate.

"Something is wrong," says Maria Laura Patino, a Galapagos National Park naturalist guide who is studying the animal behavior. "We think it could be El Nino."

If the theory is valid, it wouldn't be the first time that the endemic animals on these famed volcanic islands 600 miles off the Ecuador mainland have helped teach man the laws of nature.

It was here that British naturalist Charles Darwin came for five weeks in 1835 on the HMS Beagle. His astute studies of finches and other flora and fauna in these "eminently curious" islands led to his then-revolutionary theory of evolution by natural selection.

Scientists say the early breeding may be an inbred response to minute environmental changes. Water in the central Pacific has been warmer than usual this summer and fall. And warm dry winds have blown from the northwest, instead of the usual cold "garua" drizzle that blows in from the southeast.

"Those animals are indeed feeling the warmer water," says Gene Rasmusson, who is monitoring the ocean changes at the Cooperative Institute of Climate Studies at the University of Maryland. "Many of these critters are cold-blooded, like the iguanas, and are very, very sensitive to temperature changes."

Galapagos land iguanas usually breed in January. By September this year, dozens of large, leathery lizards already were golden yellow on their short feet and spiny necks and were fighting for food and territory.

"They were beginning to breed," says Ms. Patino, pointing out several goldtinged iguanas sunning near tall prickly-pear cactus on South Plaza, one of 13 large islands in the archipelago. "That is impossible."

Equally unlikely, she says, marine iguanas and green sea turtles began breeding early last summer, months before their usual mating season, around Espanola and other islands.

Similarly, sea snakes typically seen only in January and February were abundant in August. And finches began building nests on Floriana Island months early.

Any help predicting an impending El Nino, a Spanish reference to the Christ Child because the storms usually arrive around Christmas, would be welcome.

Despite satellites and computers, scientists failed to predict the last El Nino, which wreaked havoc across three-fourths of the globe for eight months in 1982 and 1983 and was the worst natural catastrophe in a century.

Torrential rains, mud slides, and destructive tides devastated communities from California to Peru. Typhoons and floods socked Southeast Asia. Record droughts hit Australia and southern Africa. More than 800 people died, and damaged totaled \$8 billion.

Although still little understood, the 1982-83 El Nino started when easterly Pacific trade winds failed, allowing warm water to remain near the surface. Cold, nutrient-rich water usually carried north along the South American coast by the Humboldt Current stayed deep. Fierce storms spun off as the warming ocean pumped enormous amounts of extra heat and moisture into the air.

The Galapagos quickly became a case study for El Nino's effects, according to a recent 534-page study by the Charles Darwin Foundation for the Galapagos Islands, an internationally supported, nonprofit scientific foundation.

Thousands of sea lions and fur seals, colonies of sea birds like blue-footed boobies and albatrosses, as well as penguins, marine iguanas, green sea urchins, and other fauna starved to death as the ocean heated to 10 degrees C higher than normal, the report said.

"The whole marine food chain collapsed," explains Ramon Andrade, a spokesman for the foundation's Darwin Research Station in Puerto Ayora on Santa Cruz Island. "The worst thing was there was almost no nesting. Wildlife couldn't afford to breed. There was almost no food."

"The whole marine food chain collapsed," explains Ramon Andrade, a spokesman for the foundation's Darwin Research Station in Puerto Ayora on Santa Cruz Island. "The worst thing was there was almost no nesting. Wildlife couldn't afford to breed. There was almost no food."

Centuries-old coral reefs died in weeks. "To get back the numbers of coral we had before will take hundreds of years," says Rodrigo Jacome, another naturalist guide.

And while there was no food in the sea, there was too much on land. More rain fell on the Galapagos in six weeks than in normal six years. In all, 130 inches of rain — more than 13 times normal levels — drenched the usually arid islands, the report said.

Thick shrubs, vines, and grasses flourished on lifeless lava. The population of finches and frigate birds, fire ants and mosquitoes, feral pigs and goats, and other land animals exploded amid the sudden bounty.

Even the giant land tortoises, those remarkable reptiles that grow to 600 pounds and live to 200 years (and gave the islands their name: "Galapago" means tortoise in Spanish), were affected.

Spurt of growth

"The Nino left a distinctive ring on every juvenile tortoise's shell," indicating a spurt of growth from the easy access to food, says Tom Fritts, a U.S. Fish and Wildlife Service biologist studying endangered species here.

He says heavy storm systems like El Nino thus may be crucial for long-term survival of the tortoises and other species. "It may be very important to the diversity of the Galapagos," he says.

Today, after a two-year drought, most of the affected species are regaining their former numbers. But scientists are hoping that, a century and a half after Darwin the iguanas and finches haven't finished teaching.

"We still have much to learn here," says Andrade.



A rain-drenched frigate bird huddles on its nest in the Galapagos Islands. Unseasonably early mating by animals on the islands this year have led naturalists to fear a return of El Nino, the periodic warming of the equatorial Pacific that leads to

wild and sometimes catastrophic changes in climate. Torrential rains from the 1982-83 El Nino spawned a population explosion of some forms of life in the Galapagos, including frigate birds.

Photo by Dieter and Mary Plage © 1986 National Geographic Society

New procedures tested for NCO assignments

WASHINGTON— Since December, enlisted career advisors at the Military Personnel Center in Alexandria, Va., are giving two professional development assignment recommendations for each NCO in the Centralized Assignment Procedure (CAP III) special instructions.

The new procedures are being tested Army-wide under a pilot program, according to Lt. Col. Allan Hesters, chief of MILPERCEN's NCO Studies Implementation Team. They are limited at first to the assignment of sergeants first class and master sergeants.

"The CAP III special instructions will show the career development needs of each NCO," Hesters said. "The two recommendations will conform to standard duty titles for the NCO's military occupational specialty."

"Special instructions include whether the NCO should be considered for table of organization and equipment (TOE) or table of distribution and allowances (TDA) unit duties," he continued. "They will also recommend a level of responsibility, such as major command, division or battalion."

Putting professional development recommendations in CAP III should give the strength management officer in the gaining command more management tools to help preassign soldiers. Under the old system, there was no way for the gaining command to know the soldier's career development needs in advance.

"Preassignment decisions are often limited to matching MOS and rank of an NCO with known or projected vacancies," Hesters said. "With these new procedures, strength managers will be aware of an NCO's career development needs and can consider them during the preassignment process." (Arnews)



BROTHERS— A reenlistment ceremony can be a family affair, even if it is held in a decentralized automated support van. 1st Lt. Ernest R. Torres, left, came to Redstone from Fort Benning, Ga., to help his brother SSgt. Albert Anthony

Torres reenlist for six more years. The staff sergeant is an instructor in the ammunition stock control and accounting course at OMMCS.



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Worker honored

A worker in the Advanced Sensors Directorate of the Missile Research, Development and Engineering Center here has received the Decoration for Meritorious Civilian Service.

Waite H. Todd received the medal for his performance as the chief operating official for the directorate from January 1985 until October 1986. He was specifically commended for his work with the SMART Munitions Program.

Todd, a native of Trussville, Ala., has worked as a civilian for the Army since 1956, and has worked in the Advanced Sensors Directorate since 1973.

The directorate is responsible for the research and development of seekers and sensors for Army missile systems.

Maj. Gen. Thomas Reese presented the award to Todd during a ceremony Jan. 8.

Official travelers get new mileage rate

Because of a change to travel regulations, government travelers who are allowed to use their privately-owned vehicles for temporary duty travel and permanent change of station moves must now drive further to be given a day of travel time.

Under the previous rules, travelers were given one day of travel time for every 300 miles they drove. Now, the distance driven must be 350 miles per day.

Here's how it works. If you are ordered to travel to a city 700 miles away, and your orders say you can drive your own car, you are given two days to make the trip, and two more days to come home.

"I suppose they have determined that with all the interstate highways that have opened up, that people can drive further in a day now," said Ann Howard of the Travel Pay Branch.

The new mileage rate is used to determine the amount of travel days allowed, and is based on the official distance. It will not be computed by the mileage submitted in a voucher. If a traveler takes extra time he or she will be charged annual leave, Howard said.

If the distance traveled can't be divided evenly by 350, one quarter of a day will be allowed for each 87.5 miles, or fraction of 87.5 miles. For example, if you travel 810 miles, you will be allowed two days for the first 700 miles, and half a day for the remaining 110 miles.

Travel time is based on the official distance between the place your travel begins and your destination.

Reese says unions can help managers

Unions can help agency managers by providing feedback from the workers, helping to communicate with the workers, and helping to increase productivity, according to the MICOM commander.

Maj. Gen. Thomas Reese, in a speech to union representatives from throughout Alabama, said he meets periodically with the union here to discuss matters of mutual concern and to go over grievances. "And things are all organized and formal in those sessions as they must be. I'm sure those of you from other agencies have the same experiences. And I wonder now and then: is that all there is?" he said.

"I wonder now if you share my view that there ought to be more in our relationship. Let me say it straight out. I'm looking for more from the union that has exclusive representation for most of my work force. What do I want? In a word: help," Reese said.

Feedback from the work force is one of the things an agency manager needs to succeed, according to the commanding general. "We seldom get it from managers and supervisors," he added. "You have your stewards in direct contact with the workers. You know how management decisions and actions are perceived in the work sites. You know if there are issues that concern the workers. Can you be sure that your agency head knows too? If not, I suggest you tell

him. I want to know. I believe other people in my position would too.

"I want to use the union to communicate with the work force. Later this year we will undertake at Redstone a major survey covering every one of our buildings to locate any that contain asbestos. When we find it, we will have to make decisions on whether to remove or encapsulate it. We are going to meet with our union officials and tell them in detail what we propose to do and how we are going about it. We are going to ask for their input and suggestions and when we have them satisfied we are going to ask for their help in surfacing questions that individual workers may have and getting straight answers for them. Without that kind of mutual cooperation, we could frighten people needlessly," Reese said.

"Third, I need help in increasing the productivity of my work force. So does the person who heads every federal activity in this state," he added.

Local 1858 of the American Federation of Government Employees located on Redstone Arsenal hosted the annual Alabama State Council meeting Jan. 15-17 in Huntsville. To highlight the council meeting, a banquet was held Friday night with Reese as the guest speaker.

Some service members exempt from jury duty

RUDI WILLIAMS

American Forces Information Service

State and local officials can no longer require an active duty service member to serve as a juror if the service member's commanding officer determines it would "unreasonably interfere" with the person's military duties or "affect the performance of the military mission or readiness," according to a public law that became effective on Nov. 14, 1986.

In the past, "some state judges and jury commissioners would not grant an exemption for military members, even though the member's commanding officer stated that the member's absence for jury service would impair the ability of the command to carry out its mission in support of the national defense," Secretary of the Navy John Lehman said in a Feb. 6, 1986, letter to Congress. The Navy represented the Department of Defense for the legislation.

This had occurred in many states despite state exemptions for firemen and policemen — and even for members of the National Guard, Lehman pointed out.

Executive officers, department heads, surgeons, dentists, medics, pilots, air traffic controllers, aviation maintenance supervisors, production engineers, judge advocates and training instructors are some key

military personnel who were called to jury duty.

Military personnel were already exempt from jury duty in federal courts. Most states exempted them until about a decade ago, when the U.S. Supreme Court held that "restricting jury service to only special groups or excluding identifiable segments playing major roles in the community cannot be squared with the constitutional concept of jury trial."

"A service member who is permitted to serve as a juror on a state or local jury will not be charged leave or suffer any loss of pay or entitlements during the period of such service," reads the provision Congress added to the Department of Defense Authorization Act of 1987.

"We still hope to have good coordination between commanders and the state and local courts," said another DOD spokesman. "In most instances, if a service member is not available to serve on jury, the legal officer could call and get the person off. But in some places, they're (the courts) not so easy to work with."

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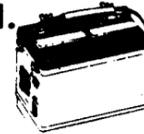
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'I remember Captain...' wins Army essay contest

BY FORREST W. AURENTZ

Pennsylvania — 1776: I remember the Captain.

I was a very young soldier in the Continental Line.

All was dark and silent as we stood close to the river's edge waiting for our call to move forward. As a private, I knew little of where we were going. Our dark clothes, not really uniforms, were turning white as a fine sprinkling of snow fell upon us. We could look down from our positions in the column on the riverbank and see murky figures steady long, strange-looking boats as ragged soldiers boarded. They huddled forlornly in the bitter cold.

In uneasy shuffles, we moved closer to what we all dreaded. Regardless of where it would happen, we knew that within a few hours the calm would vanish in terrible shouts and exploding flashes. Men would die — we were all very afraid.

While we waited our turn to enter the boats, I saw the Captain near a group of finely dressed officers. A tattered piece of white ribbon in his hat was the only visible sign that he was an officer in the Continental Army. His skinny legs were shaking violently from the cold wind coming from the river.

We continued to move carefully down the slopes that hundreds of men had transformed into a muddy mire. As we got closer, I could see that the Captain was with our regimental commander and several staff officers. Although the Captain was near this small group of important men he was paying little attention to their fitful gestures and low-toned commands.

He was smiling, at least we all thought he was smiling, and his voice quivered with excitement. He greeted each of us in turn. We knew that he was making a final effort to relieve our fear. As I approached, I could hear him say to the man in front of me how proud he was of our company. Still, due to the cold, I was not paying much attention to his encouragements. I had a gaping hole in the bottom of my right shoe, and the freezing mud was my main concern.

I stepped forward and felt his uncovered hand on my shoulder. I could just make out his face as he asked in a quiet voice whether I had gotten the hole in my shoe fixed. I lied and said that I had. There were men in other companies who had wrapped linen around their feet to serve as shoes, so I was not about to complain.

"Fine, no soldier in our company should go without good shoes," he answered in a firm voice.

"Merry Christmas, Captain," I said.

"Merry Christmas," he replied.

Trenton was our destination. We won a crucial victory for our faltering revolution. Many things happened in that battle, but the things I remember most were the Captain's hand on my shoulder, his smile, and his concern for us as individuals. We were afraid and he was concerned. Officers sometimes spend too much time looking up the chain of command and not enough down it. Not my Captain.

Texas — 1877: I remember the Captain. I was a corporal in his cavalry troop.

He was courageous, forthright, competent, and possessed a quick mind; but he was not a person you would pick out from a crowd as a born leader. He had all the qualities of a good officer, but he was also rather quiet.

I remember the time we conducted a patrol in the New Mexico territory. One of the sergeants described our location as 100 miles from trees, 30 miles from water, and one mile from hell. We were all filthy, bearded, hungry, and thirsty from the grueling pursuit of a small raiding party of Comanches.

Congress had not seen fit to pay the Army for over five months, so the men were not too anxious to find, much less fight, any Indians. As we were returning to Fort Davis, the Captain rode down the column to check on us. One young

trooper immediately in front of me couldn't control his built-up anger and frustrations. He shouted out as the Captain rode past, "Cap'n, we could die out here and nobody would give a damn,"

The Captain wheeled his horse and rode beside the young soldier. He never said a word for over 20 minutes. He brushed the dust from his uniform and adjusted his yellow scarf. He always like to keep his uniform in perfect order.

I could tell the trooper was getting anxious. He gave the Captain nervous, fleeting glances and began adjusting perfectly situated items on his saddle.

Finally, the Captain said, "I would. Is that enough?"

"Yes sir," the trooper meekly responded.

"I think," the Captain began. Then he paused, and remained silent for a moment. He removed his hat and mopped his brow. I noticed how blond his hair was in the bright sunlight.

"I think you're an awfully brave soldier," he said.

I saw a faint smile on the young soldier's face as their eyes met. The Captain then returned to the head of the column.

I remember the Captain. I remember how he could have told that trooper to keep quiet or have given him some long patriotic harangue. He could have been impatient; instead, he took the time to tell an impetuous recruit what we veterans already knew. Some captains merely tell soldiers to be quiet. Not my Captain.

France — 1918: I remember the Captain. I was the administrative sergeant in his company. "Rock of the Marne" is what the newspapers called us.

Bewildered and exhausted, we had settled into the village of Passelle only two days prior. After fighting for three straight weeks, rest was our main need.

The Captain had slept the first day, but he had been drafting letters to mothers, fathers, and wives since then. He was new at writing condolence letters, and he was not making much progress. There were so many letters to write.

I read the first letter that he wrote. It contained a lot of phrases such as "finest traditions of the United States Army," sacrifice above and beyond," and "I was proud to lead him into battle." After writing that letter, he asked me to make copies of it for his signature. He said that it would serve as the pattern for all others.

As I was about to finish the first copy, the Captain entered my tent and politely asked me to return the letter. He left and began to write again. I never copied another letter for him.

I saw one of his later letters. You should listen carefully to his words:

July 7, 1918

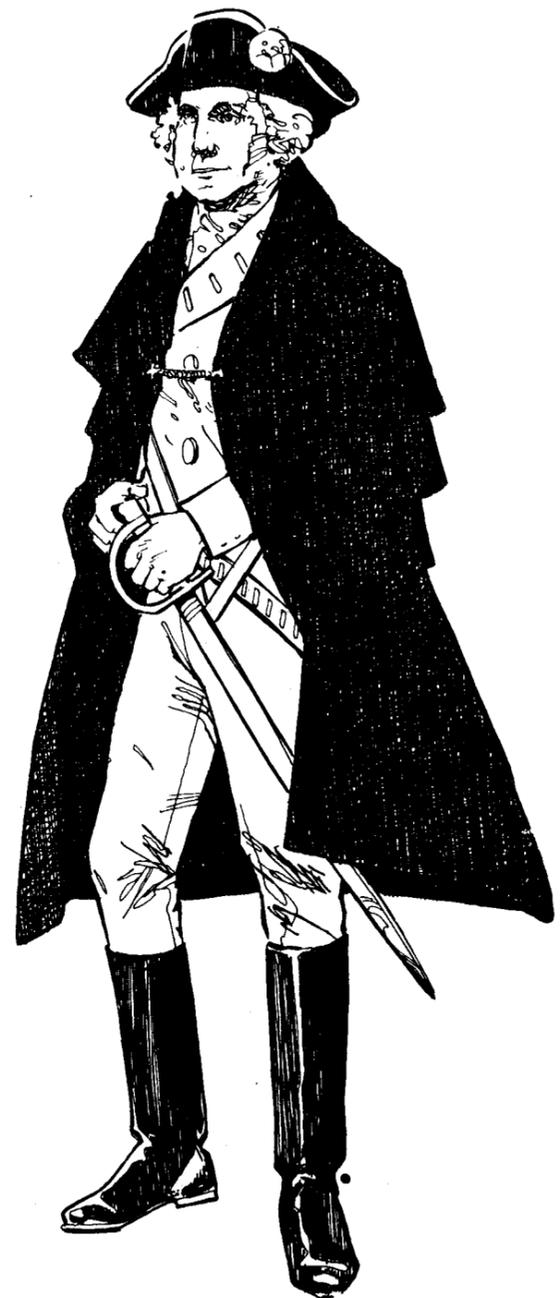
Dear Mr. and Mrs. Haroldson,

I have the very sad task of informing you of the death of your son Sgt. Steven Haroldson on July 2, 1918, near Vaux, France. We will all miss him dearly.

I know that these few words will do little to help you bear the grief of Steven's death, but I would like to share some of my thoughts of him.

Steven did not like "soldiering." I knew that. He was, however, proud to be a soldier. I remember his wide-eyed excitement at being in France, his roaring laughter, and his sincere concern for the soldiers in his squad. I remember his love of poetry. Only last week, he gave me a book of poetry by Rudyard Kipling. I shall always treasure it.

The saddest thing is for a soldier to die anonymously. To die is hard enough, but to give your life for others and not be individually



recognized is truly sad. I want you to know that we have not forgotten Steven. None of us ever will.

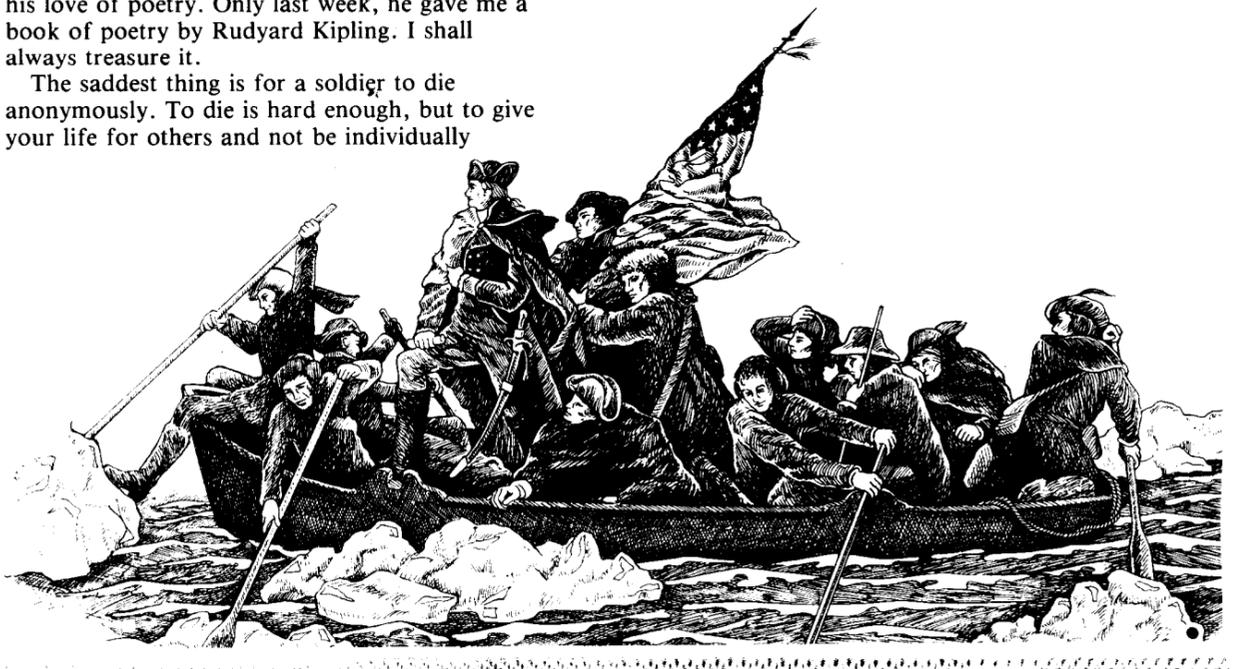
Company Commander

I remember the Captain. We all knew that he would not let us be forgotten. That means a lot to young soldiers, and old ones too. He could have sent a standard letter, or no letter at all. Not my Captain.

Norfolk — 1986: I remember the Captain. I was his first sergeant.

I first met him at Kasserine Pass in North Africa when he was a lieutenant and I was his platoon sergeant. We were getting our butts kicked, and several of the men were running anywhere the Germans weren't. I looked up from my foxhole and saw two skinny legs attached to a second louie's bar in front of me.

(See Captain, cont'd on page 14)



Smell: the most intimate of senses, the most underrated

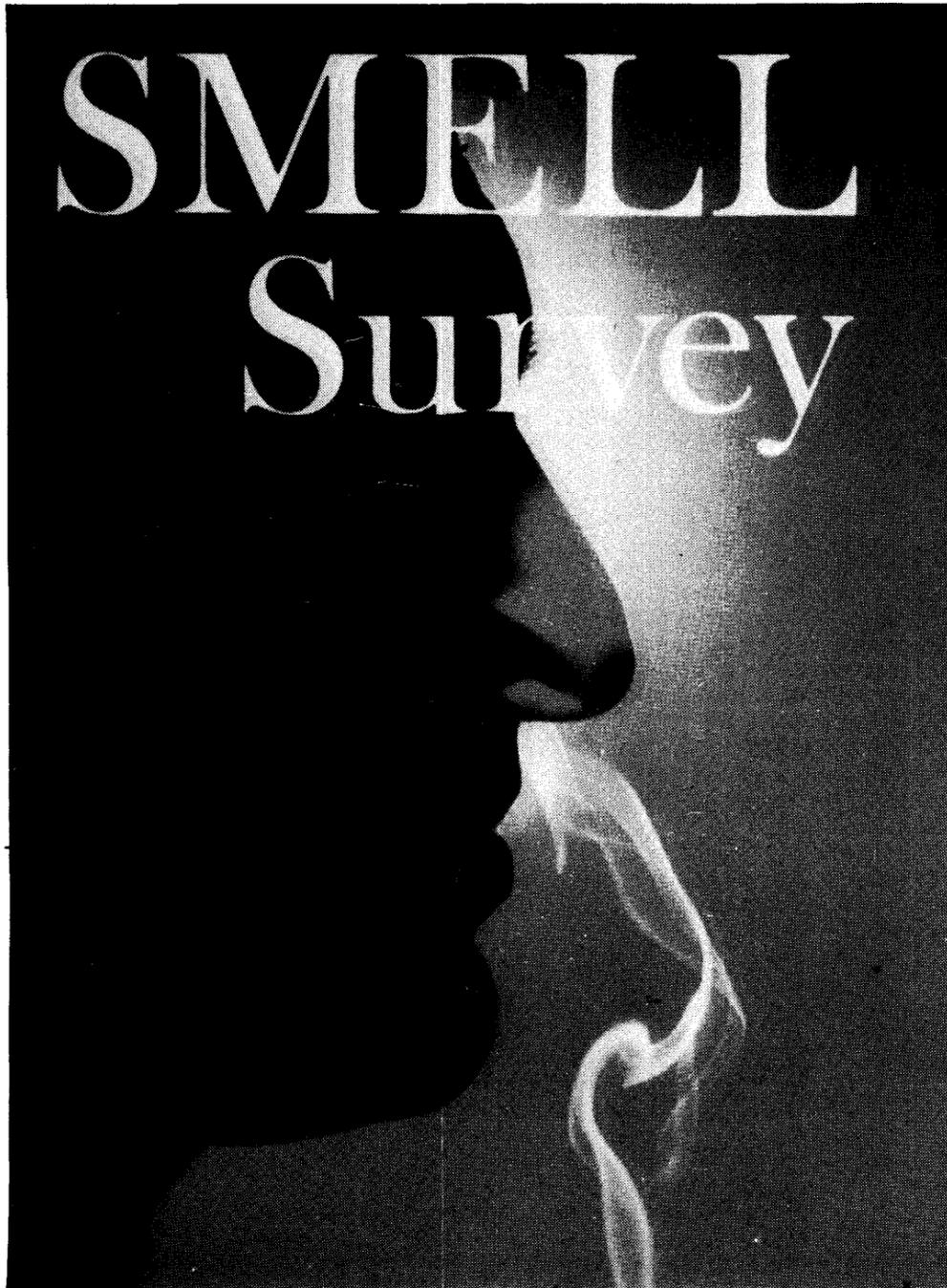


Photo by Louise Pishoyos © 1986 National Geographic Society

The largest and most comprehensive scientific test on smell ever conducted was sent worldwide to the nearly 11 million members of the National Geographic Society. A brochure containing six scratch-and-sniff panels was inserted in the September issue of National Geographic magazine.

BY NATIONAL GEOGRAPHIC NEWS SERVICE

WASHINGTON — "Odors reach into our emotional life, drawing from the deepest caves in our minds," Boyd Gibbons writes in the September National Geographic.

Of all the five senses, smell is the most intimate, the most underrated, and the least understood.

"We think our lives are dominated by our visual sense," says Gordon Shepherd, a Yale neuroscientist, "But the closer you get to dinner, the more you realize how much your real pleasure in life is tied to smell. It taps into all our emotions. It sets the patterns of behavior, makes life pleasant and disgusting, as well as nutritious."

Gibbons recounts the stirring of vivid memories of his late grandfather, evoked solely from a impulsive sniff of the man's old deerskin hunting vest. "Such is the involuntary power of the sense of smell, my boyhood was recalling me," he writes.

Nuances of sniffing

All nuances of flavor come from sniffing aromas or exhaling them as we drink or chew food. "Most of the identification of wine is in the nose, and the taste is only confirmation," a French vineyard owner told Gibbons. To enjoy its full benefits, he slurped and gurgled it, sending its aroma up the back channel to his nose.

Over millennia dating back at least to the ancient Egyptians, people have used perfumes to improve the way they and their environment smell. The Egyptians 4,500 years ago sniffed aromatic smoke from frankincense and myrrh. They burned incense to please their gods. Their pharaohs' bodies were embalmed with fragrant spices.

At early Roman banquets and orgies, the fluttering of perfumed white doves scented the air. Rose water helped raise the Roman bath to its apogee of sensuality.

With the rise of Christianity, the church banned public baths. Yet even in the Middle Ages the rich wanted their perfumes, if only to obliterate odors of the lower classes. Perfumery gradually rose to new heights of sophistication.

Napoleon drenched himself with eau de Cologne. As he lay dying on the island of St. Helena, scented smoke from burning pellets suffused his room.

Today, only a few of the old Paris perfume houses still make their own perfumes. More common than the classical independent perfumers are chemical wizards such as Bernard Chant, chief perfumer for International Flavors & Fragrances of New York City, the world's largest company of its kind.

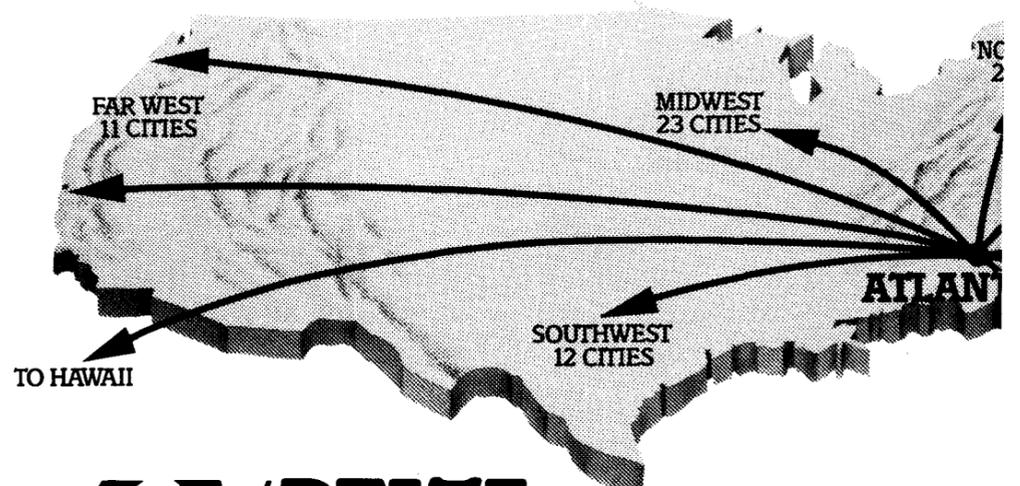
The company creates everything from perfumes to flavorings for taco chips. On any day, Chant may be

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ed, and the least understood

orking on fragrances for clients' products as diverse as shampoos, colognes, or plastic trash bags.

Shopping by scent

Large soap companies are the biggest users of fragrance; one brand uses more than two million pounds of scent each year. "Fragrance is the strongest drive in consumer soap preferences," an executive of a major soap company told Gibbons. "Among all the tributes, I would probably rank performance at the top."

Men and women alike spend a great deal of time and money suppressing body odors, which are the smell of acids produced by bacteria metabolizing skin secretions. The most repellent odors come from the apocrine glands, associated with underarm and genital hair and activated when people are frightened, excited, or aroused.

In the days before modern medicine, physicians depended on their noses to help diagnose illness. Typhoid smelled like baking bread, German measles like plucked feather, scrofula like stale beer, yellow fever like a butcher shop.

Some two million Americans suffer from anosmias, disorders of smell, but medical textbooks offer little guidance for treatment. Some anosmias are genetic, but most result from head injuries, viral infections, allergies, aging, or nasal obstructions.

Most animals have far more sensitive noses than do humans. They put them to good use. Because they have to protect themselves against being poisoned, animals rarely touch food that smells like something that once made them sick.

Natural odors that induce all manner of psychological or behavioral changes in a species are called pheromones. Nowhere do pheromones have a more profound effect than among insects, who use the odors to organize their complex societies.

Salmon may roam thousands of miles at sea, then return to the river of their birth and swim upstream, following an odor imprinted years earlier.

Territorial odors

By defecating, urinating, and marking with scent glands, mammals maintain their territories and identify each other. They use odors to give alarm, to select food, and as an integral part of mating.

Beavers keep strange beavers out of their neighborhoods by strategically depositing smears of a substance called castoreum. Thomson's gazelles mark their territory by depositing tarry stuff from glands beneath their eyes. Reindeer have scent glands behind

their hind toes. Rabbits mark with chin glands. Cats rub against people with their eyebrow and rump glands.

Dogs' acute sense of smell makes them useful for sniffing out everything from drugs and bombs to termites and iron ore.

Or tracking down fugitives. "There's nothing like the thrill of hunting a man," Lanson Newsome, warden of the Georgia State Prison, told Gibbons. "I've pulled a dog off a scent, thinking the man went this way or that, and the dog was almost always right."



Photo by Louie Psihoyos © 1986 National Geographic Society

"You smell to recognize, to be prepared, and, of course, to enjoy," says Bernard Chant, chief perfumer for International Flavors & Fragrances of New York City. Utilizing the sense that we least understand, he sniffs a cologne he is creating for a perfume company. The art of perfumery began with ancient civilizations, probably the Egyptians, who used numerous aromas in inventive ways. The art of creative odors thrives to this day.

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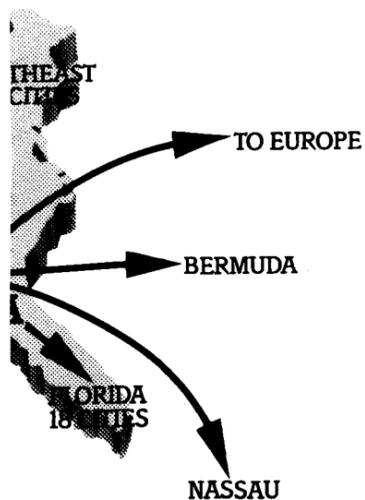


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Childress-Cooper a winning combo in CWF women's basketball

The Childress-Cooper show has pushed the Cougars to an undefeated record in women's basketball.

Rhonda Childress, among the league's top scorers, tossed in 18 points and grabbed eight rebounds in a 53-37 win over the D-73 All-Stars team. Crystal Cooper, the league's leading scorer, struck for 12 points and 10 rebounds. The D-73 All-Stars were led by Michelle Byars with 18 points and Lenise Walton 11. It was the Cougars' third straight win.

In other women's basketball action, Security clobbered COE 60-20. Toni Kelley led the way with 18 points followed by Denise Crutcher and Ava Woodward, 12 each. Sandra Mosley scored 14 for COE.

The men's 35 years and over league is led by the Untouchables, who upped their record to 4-0 with a forfeit over the RD&E team. In other action, Bill Noel scored 14 and Grey Young 11 to lead the COE team to a 50-39 win over the Missile Systems-2 team. Earl Fitchard scored 16 for the losers.

Missile Systems-1 leads the men's 34 years and under league with a 7-2 record. James Love and Dave Harris each scored 18 and Bobby Lightner 17 in a 92-84 win over Green Machine. Dave Kellems and Dave Smith each hit 29 points for Green Machine.

In other men's 34 and under league play, the P&P-2 team massaced MIA 77-29 and won by forfeit over PAO; PAO rebounded with a forfeit over MISD; the MISD team came back with a 85-62 win over P&P-1; P&P-1 rebounded by nipping MSIC 59-56; COE hammered MSIC 72-58; and Reproduction grounded Green Machine 70-57.

Willis Epps scored 23 and Dante Emanuel 17 to pace the P&P-2 team past MIA. John Largoht tossed in 12 for MIA.

John Petty pumped in 28 while Tommy High hit for 23 and Terry Whitman 15 to lead MISD over the P&P-1 team. Joe Carter scored 25 for P&P-1.

Randy Story's 16 points led a trio of teammates in double figures— Joe Carter, 13, and Gary Ridgell and Tyron Sumlin, 10 each —to pace the P&P-1 team past MSIC. Don Carver scored 24 and Ken McCormick 18 for the losers.

CWF standings

WOMEN'S LEAGUE

	W	L
Cougars	3	0
Security	2	1
D-73 All-Stars	2	1
Redstone Rockets	0	3
COE	0	4

Player	Team	Avg.
Crystal Cooper	Cougars	19.9
Sandy Mosley	COE	18.3
Len Bolden	Cougars	16.9
Toni Kelley	Security	16.7
Michelle Byars	D-73 All-Stars	16.6
Daphne Fortenberry	Redstone Rockets	16.6
Pam Grath	D-73 All-Stars	15.1
Denise Parker	Redstone Rockets	14.8
Rhonda Childress	Cougars	14.5
Mary Young	COE	11.3

MEN'S 35 AND OVER LEAGUE

	W	L
Untouchables	4	0
COE	2	1
RD&E	1	2
CPO	1	2
Missile Systems-2	0	3

Player	Team	Avg.
Bill Noel	COE	18.4
Grey Young	COE	15.8
George Boone	Untouchables	15.8
Robert Nichols	Untouchables	14.9
Earl Fitchard	Missile Systems-2	14.8
Leonard Farbman	CPO	14.6
John Watson	Missile Systems-2	12
Joe Winston	CPO	11.3
Mose Hall	Untouchables	9.8
Gary B.	Untouchables	8.7



Troop basketball

Here are the troop basketball standings as of Jan. 16:

Eastern Conference		
	W	L
515th-1	4	0
HHC-1	3	1
A Company 832nd	2	1
C Company 832nd	2	1
C Company 73rd	2	2
A Company 73rd-2	1	2
D Company 832nd	1	2
Marines	0	3

Western Conference		
	W	L
A Company 73rd-1	4	0
B Company 73rd	3	1
95th Maintenance	2	3
Meddac	1	3
B Company 832nd	1	3
HHC-2	0	3

Over 30 League		
	W	L
HHC-3	2	0
B Company 73rd-1	1	0
Army Recruiters	1	0
515th-2	1	1
Readiness Group	0	2
B Company 73rd-2	0	2

Troop bowling

Here are the Redstone Arsenal intramural bowling league standings after last week's games:

Tuesday's Conference		
Team	Won	Lost
A Co. (E&TTD-1)	342	58
HHC-1	266	134
C Company 73rd Ord Bn-1	262.5	137.5
A Company 73rd Ord Bn	254.5	145.5
B Co. (B.D.T.)	242	158
Meddac-3	239	161
C Company 832nd Ord Bn-3	209.5	190.5
D Company 73rd Ord Bn	179	221
TMDE	168.5	231.5
C Company 832nd Ord Bn-2	137.5	262.5
Marines-2	134.5	265.5
291st MPs-2	134.5	265.5
C Company 832nd Ord Bn-1	112.5	287.5
291st MPs-3	100	300

200 games bowled on Jan. 13:

Rich Collins	232
Gerald Sommers	222
Alex Lee	210
Bob Tanner	208
Felix Rodriguez	207

Thursday's Conference		
Team	Won	Lost
B Co. (S.A.D.)	300	100
B Co. (L.C.D.)	286.5	113.5
Meddac-1	263.5	136.5
515th-2	262	138
A Co. (E&TTD-2)	223	177
Marines-1	222	178
515th-1	214.5	185.5
Meddac-2	200.5	199.5
HHC-2	184.5	215.5
C Company 73rd Ord Bn-2	163.5	236.5
B Co. (E.O.D.)	153	247
D Company 832nd Ord Bn	109	291
291st MPs-1	104	296
*A Company 832nd Ord Bn	102.5	297.5

200 games / 600 series bowled on Jan. 15:

Tom Rahn	238, 211 & 608 series
Dan Harris	234, 200 & 602 series
Tim Villanueva	232
Ron Lamon	213
Ernie Kurotobi	211
Angel Santos	210
Jim Dixon	208
George Parker	207
Ray Glace	205

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"LOOK FOR THE BRIGHT ORANGE BUILDING"

Less light affects humans during winter season

BY DOROTHY MOORE

Inside The Turret, Fort Knox, Ky.

Most of the leaves have fallen, covering the ground with their splendor. Inside, some people are having trouble getting out of bed. Both could be suffering from the same problem — not enough light.

"This is the time of year when it is hard to get out of bed," according to Dr. Willard Whitehead, instructor of psychiatry at the University of Louisville, Ky.

"The sun is not up and the colder temperatures don't invite the person to rise. But a few are affected even more than normal.

"Some feel so slowed down that they can't do their jobs effectively, and are significantly depressed. These people might be suffering from a rare problem," said Whitehead.

Seasonal Affective Disorder was first observed in Scandinavia and other northern latitudes where the amount of light is less.

"The problem has been talked about since the turn of the century, but one of the first American formal reports came out in 1983," Whitehead said. "Dr. Norman Rosenthal, staff psychiatrist at the National Institute of Mental Health, ran that study."

The effects of SAD were explained in "S.A.D.: Shedding Some Light on the Winter Blues," in the January 1985 issue of **Feeling Great**.

"During winter, affected individuals feel

depressed, slowed down, and generally oversleep, overeat, and crave carbohydrates," Rosenthal said. "In spring and summer they are elated, active, energetic, and generally function well."

Many people with SAD blame the cold weather. Some even move to a warmer climate. The seasonal depression may not stem from cold, but lack of light.

The majority of sufferers are women and the symptoms first occur in their 20s, according to the study. A family history of depression was also found in 70 percent of those studied.

Scientists think that seasonal rhythms in animals that cause hibernation can also be felt by humans. Even though only a few are extremely affected, Whitehead believes that most of us feel some of the effects.

The seasons also affect other disorders. Major depression peaks in the fall and spring. Other illnesses that have seasonal onsets include muscular dystrophy and diabetes, according to Whitehead.

SAD has been linked to the hormone melatonin, which is secreted by the pineal gland at night. It appears that higher levels of melatonin are related to the feelings of lethargy and depression. The melatonin production has been found to be inhibited by bright light.

The prescription then is a daily dose of bright lights. Artificial lengthening of daylight relieved the symptoms in two to four days for most patients in the study — but, not normal light.

The lighting apparatus used was a rectangular

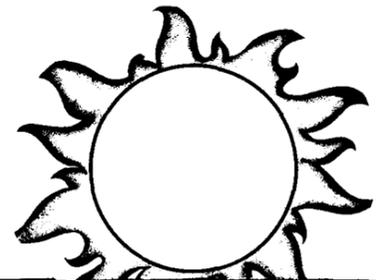
metal fixture containing eight fluorescent tubes behind a plastic diffusing screen. The lamps were originally used to help plants grow. They simulate the full color and ultraviolet spectrum of sunlight plus skylight, according to Rosenthal.

But as the light it uses is 10 times the brightness of normal light, only a health professional can use the treatment safely, Whitehead warned. Also, people should avoid self-diagnosing, and look for a specialist's help when feeling depressed.

At this time, Whitehead and the University of Louisville are looking into doing research with less extreme light exposure to help prevent the illness. They are designing the research to use daily light inside the office or home.

Other studies are being done to find other factors in the cause of SAD and to examine other potential neurochemical causes.

For more information about SAD, write to the Seasonality Study, National Institutes of Health, Building 10, Room 4S239, Bethesda, Md. 20205. (TRADOC News Service)



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Captain

(Cont'd from page 9)

"Sergeant," he said to me in a calm voice, "good men are acting like cowards. We only have good men in our platoon — not cowards. Now get up from there and let's remind them of that."

He was as scared as the rest of us, but we believed that he was brave. I asked him about it later. He smiled and quoted a Frenchman — something about realizing that the courage of troops must be reborn daily. But, you should have seen those skinny legs shaking after the battle was over.

I also remember the high standards of appearance, discipline, and training that he set for us. We were just plain "dogface" infantrymen — nothing special like the marines or airborne. But, he made us think that we were special; and we all knew that he was someone very special.

He could have used his rank for privilege; instead, he served with us. He was firm, but also fair; he was proud, but not vain; he was

courteous, but not timid. He was an extraordinary leader of ordinary men.

The Captain always carried a small book of poems by Rudyard Kipling. I found it on his body when they brought him down from the mountains. Marking the poem "If —" was an old tattered white ribbon and a torn piece of yellow cloth with crossed cavalry sabers on it. I later found out that they were relics from his father and grandfathers who had served as soldiers all the way back to the Revolution. I sent them, along with his captain's bars, to his son.

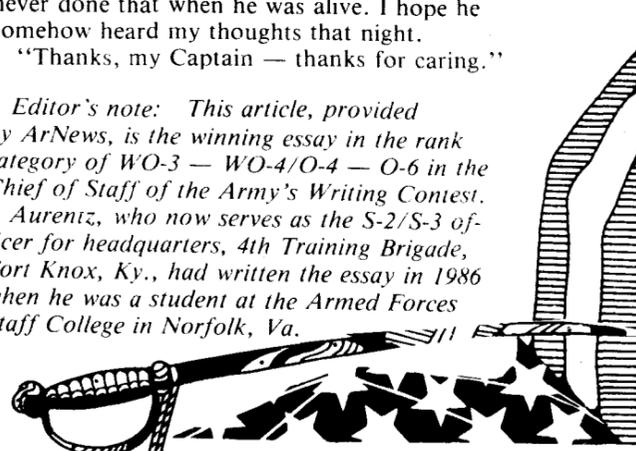
Yes, I remember that night in Italy over 42 years ago when they brought his body down. I

held his hand, gazed into his face, and silently thanked him for being such a fine soldier. I had never done that when he was alive. I hope he somehow heard my thoughts that night.

"Thanks, my Captain — thanks for caring."

Editor's note: This article, provided by ArNews, is the winning essay in the rank category of WO-3 — WO-4/O-4 — O-6 in the Chief of Staff of the Army's Writing Contest.

Aurentz, who now serves as the S-2/S-3 officer for headquarters, 4th Training Brigade, Fort Knox, Ky., had written the essay in 1986 when he was a student at the Armed Forces Staff College in Norfolk, Va.



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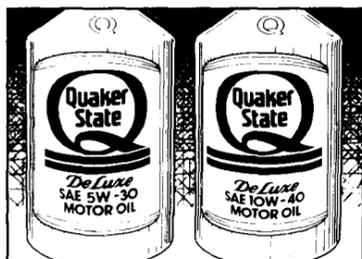
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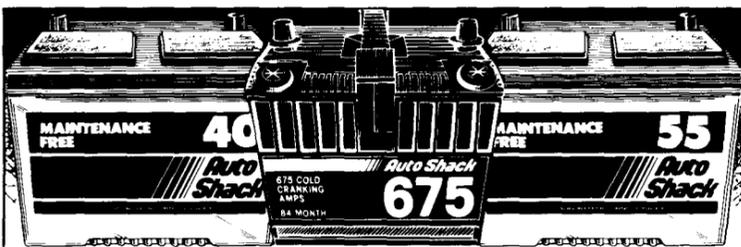
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Household goods shipments delayed

WASHINGTON— Some soldiers who have recently had a permanent change of station may see a delay of up to eight weeks in the delivery of their household goods.

The delay is the result of the financial failure of United States Lines', a major cargo carrier for the Department of Defense.

According to Col. George Kaine of the Military Traffic Management Command in Falls Church, Va., "we know where everything is and the transportation offices are given a daily update as to the status of household goods."

U.S. Lines filed for bankruptcy in late November, resulting in about 2,600 metal cargo boxes with no carrier.

The boxes, containing everything from household goods to commissary goods to other military cargo, were located throughout U.S. Lines transportation system at the time of the failure. Some of the boxes were on ships while others were on trucks moving to their destinations, said Kaine.

Other carriers are picking up U.S. Lines' cargo and delivering it based on a priority system set up by the shippers, said Kaine. Kaine expects there to be no long term impact on either soldiers or the Army's supply system.

For more information on the status of household goods, soldiers should contact their local transportation office. (Arnews)



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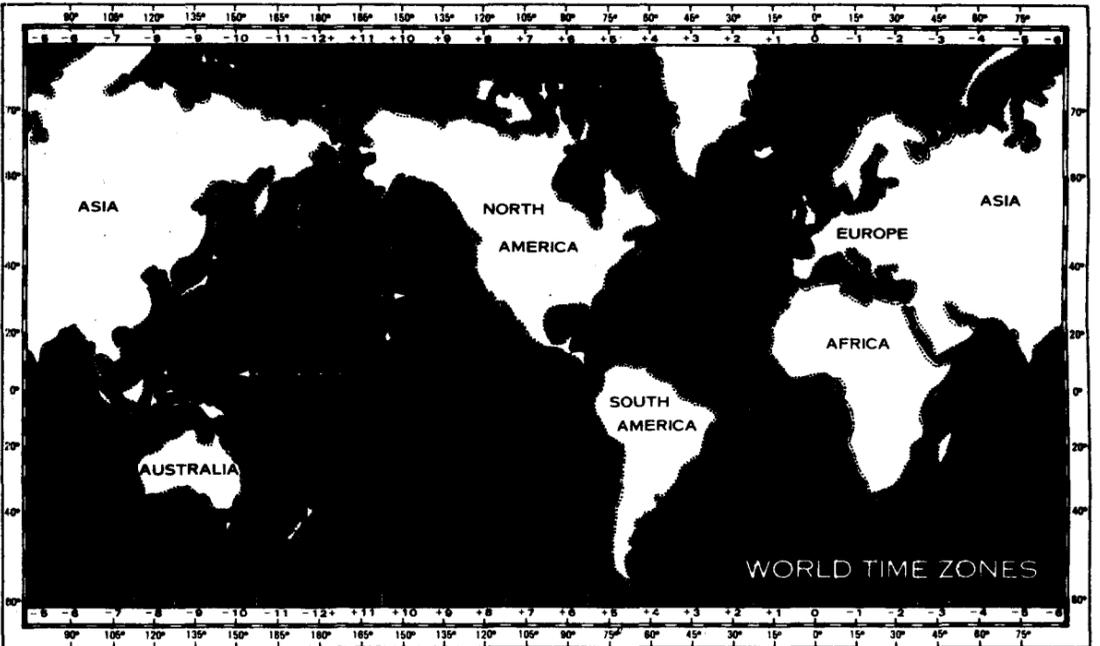
Do you know that when you're assigned overseas, even to a remote location or aboard ship, there's a good chance you can keep up with most of what's happening back in the United States?

The Armed Forces Radio and Television Service (AFRTS) provides news reports, play-by-play sports, and command information via shortwave radio broadcasts 24 hours a day, seven days a week.

Because of atmospheric changes, the shortwave frequencies used to transmit AFRTS programming are changed periodically. Announcements of those changes are distributed by the AFRTS Programming Center.

Copies of the current shortwave program schedule and frequency listing may be obtained by writing:

AFRTS - PC
Radio Programming Branch
1016 No. McCadden Place
Los Angeles, Calif. 90038
USA



AFRTS SHORTWAVE FREQUENCIES

UTC (Coordinated Universal Time)	KHZ	Meter Band	Transmitter Site	Beam Direction
EUROPE				
0900-1100	9590	31.28	Greenville, N.C.	45°
1100-0100	15430	19.44	Greenville, N.C.	45°
0100-0700	6030	49.75	Bethany, Ohio	66°
MIDDLE EAST				
0800-1100	15400	19.48	Munich, West Germany	118°
1100-1400	15265	19.65	Munich, West Germany	115°
AFRICA				
0900-1100	9530	31.48	Bethany, Ohio	74°
1100-1700	15330	19.57	Bethany, Ohio	87/74°
1700-2300	15345	19.55	Bethany, Ohio	74°
2300-0700	11790	25.45	Bethany, Ohio	74°
CARIBBEAN				
0900-1300	6030	49.75	Greenville, N.C.	175°
1300-2200	15330	19.57	Bethany, Ohio	168°
2200-0700	6030	49.75	Bethany, Ohio	168°
EAST ASIA				
1000-1500	6140	48.86	Delano, California	302°
1500-2200	11805	25.36	Delano, California	311°
2100-2400	15345	19.56	Delano, California	296°
0200-0700	11730	25.58	Delano, California	311°
1000-2100	9700	30.93	Delano, California	296°
2200-0200	17765	16.89	Delano, California	311°
SOUTHEAST ASIA				
0100-0245	21670	13.84	Poro Point, RP*	260°
0300-1400	21670	13.84	Poro Point, RP	260°
1400-2200	11890	25.23	Poro Point, RP	248°
2200-0100	9700	31.25	Poro Point, RP	264/290°

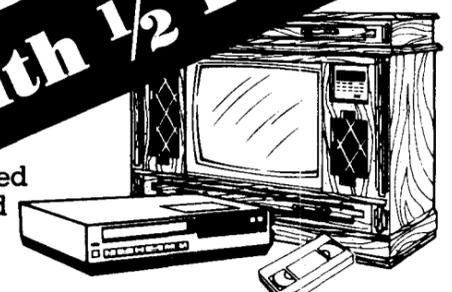
*RP - Republic of Philippines



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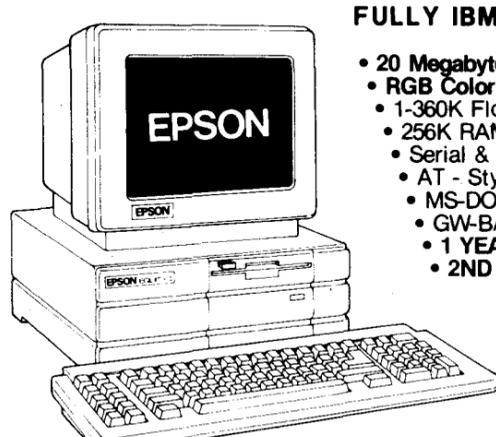
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Free lodging guide offered by AT&T

WASHINGTON— Military personnel assigned to temporary duty or moving between stations can save time finding temporary lodging by using a new, free guide provided by AT&T.

AT&T's Military Lifeguide on Temporary Military Lodging is also handy when planning a vacation. The guide lists temporary lodging and child care facilities for most military installations in the U.S. The 58-page guide is organized by state with sections for each branch of the service.

The guide also lists the addresses and telephone numbers of each military lodging facility, and the number and type of units available. Other information, such as reservation guidelines, also is included.

People interested in getting AT&T's Military Lifeguide on Temporary Military Lodging can call toll free (800) 225-5288, ext. 952. If you're stationed overseas, write: AT&T, Post Office Box 12, Springfield, N.J. 07081-0012.

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January 28, 1987

Announcements



Engineering society

The Engineering Management Society will meet Jan. 22 at 11:30 a.m. at the Carriage Inn. Scheduled speaker is Col. John Stieglitz of the Strategic Defense Command. He is the project manager for the terminal imaging radar. His subject is to be: "Managing an R&D SDI program." For reservations call Linda Hooper 895-6316.

Electrical and Electronics Engineers

IEEE professional activities meeting will be held Friday, Jan. 23 at 11:15 a.m. at the Officers Club. Scheduled speaker is Dr. John David Hall, a counselor with the Key Pastoral Counseling Center. For reservations call Willy Albanes 883-1169.

Retired officers

The Huntsville Chapter of The Retired Officers Association (TROA) will hold its installation of officers for the 1987-88 term on Wednesday, Jan. 28 at the Officers Club. Retired vice admiral Thomas J. Kilcline, national president of TROA, will be the main speaker. The installing officer will be retired colonel Glen Dunlap, president of the Alabama State Council of Chapters, TROA. Dunlap and his wife will travel from Ozark, Ala., to perform the installation. All members and their wives are invited to attend. Social hour, with no host bar, begins at 6 p.m., dinner to be served starting at 7, and the program begins at 8:15. For more information and reservations, call retired Colonel Art Ousley 539-3222 or retired Colonel Brandon Parker 881-5487.

Preseparation orientation

The next preseparation orientation—not retiree orientation—for military people with ETS or release from active duty dates through May 31 will be held from 8-11:30 a.m. Feb. 2 in Toftoy Hall building 3495, auditorium room 119. Representatives from Veterans Affairs, Employment Services, Military Pay Division and others will be present. Spouses are encouraged to attend. Specified personnel are required to attend.



Chapel events

Protestant Women of the Chapel will have its annual retreat from 9:30 a.m. to 2 p.m. Jan. 22 at Bicentennial Chapel. Scheduled speaker is Sheila Elder of Atlanta. Lunch is included and child care is available if reservations are made at the Child Development Center. Widows Or Widowers group meets at 7 p.m. Jan. 23 at the Olive Garden in Huntsville for dinner. Catholic Youth of the Chapel will participate in a special "Hunger Banquet" from 6:30-8:30 p.m. Jan. 25 at Bicentennial Chapel.

Family practice clinic

People who are enrolled in the Family Practice Clinic, and have an assigned family physician, are reminded to update their files. They must re-register with the FPC in order to remain in the system. People not registering by April 1 will automatically be dropped from the clinic rolls. Those who retired after March 15, 1986 were automatically dropped from the rolls. For more information, call Lt. Anderson 876-4220.

Stop-smoking classes

Smoking Cessation Classes will be held 6-7:30 p.m. Feb. 23 through Feb. 27. Sign up by calling 876-5780.

Money management

The Alabama Cooperative Extension Service will sponsor a course entitled "Financial Management for Family Stability" for families in Madison County. The course will meet three consecutive Tuesdays, beginning Jan. 27, from 9 a.m. until 1 p.m. at the Extension Auditorium, 819 Cook Avenue. Topics will include setting goals and financial priorities, budgeting, record-keeping, taxes, credit and savings. The course is free. To register, call 532-3578.

Office furniture display

Federal Prison Industries, a government corporation known by the trade name UNICOR, will display office furniture plus dorm and quarters furniture from 8 a.m. to 4:30 p.m. Jan. 21 and 8 a.m. to noon Jan. 22 at the Officers Club. Everyone at Redstone is invited to the free event. For more information call RASA's Directorate of Community and Family Activities, Services Division, 876-2501/3030.



Swim meet

The 12th annual Groundhog Swim Invitational, sponsored by The Mill and Pepsi, will be held Feb. 13-15 at the Huntsville Natatorium. More than 700 participants from 42 teams are expected. They will come from throughout the southeastern U.S. The Huntsville Swim Association is coached by Brooke Pate. This swim competition is open to the public. Age groups range from 5 years old through senior swimmers. For more information, call George Clark 882-0976.

Quartermaster insignia

All Quartermaster soldiers are authorized to wear the Quartermaster regimental distinctive insignia upon completion of the officer basic course, warrant officer candidate course or advanced individual training. No special ceremony is required for presentation of the insignia.

Materiel maintenance management careers

The next DA Materiel Maintenance Management Career Program Ad Hoc screening panel will be March 2-4. The panel will review initial submissions, additions and reconsideration requests. Forward original and five copies of the MMMCP career appraisal to AMSMI-LC-ME, Vickie Gist, building 5681, no later than Jan. 30. For more information call Gist 876-4580.

Post exchange

The post exchange will conduct inventory Jan. 26. Here are the hours of operation for that day: Main store, closed; shopette, closed; snack bar, open 7:30 a.m.-2 p.m.; bakery, closed; troop store, closed; service station retail store, open until 1:30 p.m.; pump island, open regular hours; Burger King, open regular hours; all concessions open.

Logistics engineers

The Tennessee Valley Chapter of the Society of Logistics Engineers will meet at Hopper's Lounge at the Holiday Inn, Madison Square Mall, Jan. 22 at 11:30 a.m. Guest speaker will be Dr. John Caufield of the University of Alabama in Huntsville. He will speak on the laser optics laboratory at UAH. For reservations call Marsetta Bearden 876-2429 or Teri McGinnis 876-8186.



Boating course

The U.S. Power Squadron will present a boating class beginning at 7 p.m. Jan. 29 at Westlawn Community School at 9th Avenue and Jordan Lane. Instruction is free; the manual costs \$10. For more information call David Montgomery 837-7796.

Army learning center

The following computer-based, self-paced courses are offered at the Army Learning Center. "DC Power" is a one-hour activity that defines power and states the relationship of power, current and voltage in direct current circuits. "Electronic and Electrical Symbols" is a 30-minute activity that illustrates and describes the symbols that are used in electronic circuit schematics. Both courses are available in English and Spanish. For more information call 876-1061/1416. To enroll in these courses, send a DD Form 1556 to building 7446, AMSMI-CP-TC/ALC, Attn: Army Learning Center.



Red Cross blood program

Here's the Red Cross blood program schedule for the rest of this month: Jan. 21—9 a.m. to noon, building 3711 (Recreation Center); Jan. 23—7:30 a.m. to 12:30 p.m. building 4505; Jan. 24—8 a.m. to noon, building 3210; Jan. 27—2 to 6 p.m., building 3436 (Marines); and Jan. 30—8 a.m. to noon, building 5455 (Bus). All donors are reminded to put their complete office symbol in the Employer/Donor box. For more information, call Ruth Miller 876-3723.

Found property

The Investigations Section of the Security Directorate has a bracelet found on post. The owner can identify and claim the bracelet by visiting the Investigations Section in building 3649, phone 876-2090/3449.

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Rogersville

Carpool member wanted from Rogersville to 4488, hours 6:30-3. Teresa Burroughs 876-1238.

CLASSIFIEDS

FEDERAL LAW Makes it illegal to Advertise Any Preference, Limitation Or Discrimination In Housing Based On Race, Color, Religion Or National Origin. The REDSTONE ROCKET Will Not Knowingly Accept Advertising That Is In Violation Of The Law. And Readers And Advertisers Are Hereby Informed That All Dwellings Advertised In This Newspaper Are Available On An Equal Opportunity Basis.

FOR RENT: Video camera recorder. \$20 per day. Also Fischer VCR, less than one year old for sale. \$250. Call 852-4328.

FOR SALE: Priced below market value at \$59,000. Three bedroom home in NW, 1 1/2 baths, formal living and dining rooms, large den and one car garage, fenced yard. 3809 Cary Rd. Call 852-4328.

FOR SALE: Refrigerator \$125. Washer and dryer \$125 each. Up right freezer, 18 cubic feet, \$150. Black and white TV \$25. All excellent condition. Call 533-3697.

FOR SALE: New \$3600 solar hot water heating unit, latest configuration. \$600. Call 876-1135 or 539-3853.

FOR SALE: 1976 Olds 98, four door sedan, tan, new tires, excellent condition, trailer hitch. \$1250. Call 881-6230 or 876-1135.

FOR SALE: 1981 Mercedes Benz, four door, 380 SE, new tires, excellent condition \$19,000. Call 539-3853 or 876-1135.

FOR SALE: Snow Ski Outfit, like new, very high quality, Rossignol Strato 102 ski, 159 cm. Nordica Boots size 10 medium with carrier, also Spademan safety bindings. Outfit lists for over \$700. Will sacrifice for \$375. Call 776-3405.

FOR SALE: 1984 Pontiac Fiero, four speed, 19,500 miles, new red paint, \$5500. Call 895-5610 days or 837-9257 nights and weekends.

FOR SALE: 1985 Mercury Cougar LS, two tone black and charcoal, 302 V8, auto overdrive, loaded, new Dunlop radials, very nice car with 23,000 miles, priced below wholesale at \$7550. 1983 Toyota Supra, 2.8 L OHC 6 cylinder, five speed, power steering and brakes, cruise, tilt, power windows, locks and mirrors, new paint, electric sunroof, factory sound system with equalizer, Bridgestone radials, new Supra bra. Call Below average wholesale at \$7650. Call 895-5610 days or 757-4219 nights and weekends.

FOR SALE: Minolta SRT 101 35 mm camera, F 1.4 lens \$59. Minolta autopak super 8 DG movie camera, 1-8ZCOM \$59. Sony tape deck, TC-FX44 stereo Dolby NR Type C, auto play, auto sensor \$69. Video control center \$10. In freezer ice cream machine \$15. Table lamp wood base \$19 each with shade. Metal plant stand \$6. Chairs \$6. Ceiling light fixture \$5. Big wheel \$9. Assorted toys \$2. Assorted plexiglass pieces \$5. Call 883-6951.

FOR SALE: 1986 Chevy Truck, lwb, power steering and brakes, air, auto, rally wheels with radial tires, fiberglass camper shell included \$9200 or best offer. Call after 5 p.m. 721-1469.

FOR SALE: Eureka vacuum cleaner, used approximately six months. \$40. Three matched pieces of antique onyx ladies jewelry with semi precious stones \$100. 1979 Mustang Turbo, has extra set of wheels and tires, 84,000 miles, silver grey, new brakes, and AM/FM tape deck. \$1800. Call 536-4718 after 5:30 p.m.

WANTED: To buy set of used P205x15 or P215x15 radial tires. Prefer set with evenly worn tread. Call 876-3715 work or 536-0109 home ask for Jerry.

FOR SALE: Cemetery lot in Garden of Apostles, Huntsville Memory Gardens. \$350 plus transfer fee. Call 883-6214 after 1 p.m.

FOR SALE: 1987 Mazda B2000 LX short bed pick up truck, fully loaded with all extras, excellent condition, 12,000 miles, two tone black and silver, five speed, must see to appreciate, asking price \$9999. Call 876-6283 or 615-433-8039.

FOR RENT: Beautiful two year old house, 3 bedrooms, 2 baths, walk to Mt. Gap School, Grissom School district, fireplace, garage door opener, central heat and air, fenced backyard, no pets, 15021 Branscomb Road SE. \$495 per month, lease plus deposit. RSA area. Call 883-6676.

FOR SALE: One bedroom Cobblestone Condo, with fireplace, heat pump, miniblinds, ceiling fan, large deck, outside storage area, 6x12 walk in closet and more. Contains all appliances including dishwasher and microwave. Great location, low utilities, and in a very well maintained complex. \$46,500 or \$4,500 equity. Call 830-9698 after 4 or on weekends.

FOR SALE: 14kt yellow gold 1/4 ct. diamond engagement ring; size 5. \$325. Call 536-6991 after 5.

FOR SALE: 1981 Datsun 280, 2 plus 2, auto, air, 1-tops, asking \$6000. Call 852-7386 after 5 p.m.

FOR SALE: Living room suit, couch, two chairs, ottoman, two end tables, and two lamps. \$350. Excellent condition. Call 830-9441.

FOR SALE: Roof-top carrier. Sears 18 cubic foot, beige. Used twice. Asking \$60. Call 837-9299.

FOR SALE: Three 10-inch chain saw chains, all for \$20. Moped, like new, for \$350. Child's 12-inch bicycle, \$35. Downhill skis, 6 1/2 foot, for \$25. Two H78-15 snow/mud tires with rims, \$80. Six-plus acres of dry level land in Hazel Green—paved road, water, electricity available—for \$30,000. Call 882-0173.

FOR SALE: 12.7 wooded acres, three bedroom, 1 1/2 baths, double wide mobile home on concrete, big covered front porch, fireplace with insert, out buildings, well, paved road, Morgan County. Call 533-6971.

FOR SALE: 1983 Honda 650 custom with Hondaline saddlebags, cover, 19K miles, \$1299. Mongoose KOS Cruiser, 5 speed, 26" wheels, \$180. Call 876-4086 or 881-9942 after 6 p.m. ask for Brian.

FOR SALE: 1975 Datsun 280Z, air, one owner, excellent condition. \$4000. Call 533-0162.

FOR SALE: By Owner, 3 bedroom brick rancher, greatroom, 1 3/4 baths, full basement, two fireplaces, storm windows, 1600 sq. ft. central heat and air, approximately one acre wooded lot. 13 miles south of Huntsville. \$69,500. Call 1-498-3086 after 5 and 1-498-3316 anytime.

FOR SALE: Bell & Howell 8 mm movie camera with projector, screen on tripod, and light attachment, \$100. 1978 Olds Delta 88 Royale, four door, power steering and brakes, cruise, air, 63,000 miles, one owner, \$1995. 1977 Olds Cutlass Supreme, two door, power steering and brakes, tilt, good transportation, \$1295. Call 883-6214 after 1 p.m.

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- Sign the ad.
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If you submit more than one classified at a time, place each one on a separate piece of paper.

Mail Redstone Rocket Classifieds to Sara Grant & Associates, Attn: Redstone Rocket Classified, P.O. Box 5351, Huntsville, Alabama 35805.

The Redstone Rocket will not accept classified ads by telephone.

The Redstone Rocket is not responsible for typographical errors or omissions in this section.

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REGISTRATION: Continuous through first session. Reservations are required (telephone 837-9726 or 837-9769).

FEES: **NOTE INCREASE:** Full-term 300/600 level: \$270 tuition per course plus \$5 registration, or as noted. 700-level: \$120 per credit. Application (one-time): \$5 special (non-degree); \$25 regular. Textbooks additional.

FINANCIAL ASSISTANCE: Approved for tuition assistance from most governmental and industrial organizations; limited VA assistance. Half-tuition scholarships are available from Southeastern for qualified attendees. NOTE: Most training offices require assistance requests 30 days prior to course start.

INFORMATION: Telephone (205) 837-9726/837-9769 or write P.O. Box 1485; Huntsville, AL 35807.

11-672 ADVANCED RADAR SYSTEMS II MW 4:30-6:40 p.m.
A detailed study of advanced topics in radar systems. Background: basic knowledge of radar. Instructors: Stephen M. Gilbert, Ph.D.; Dynetics, Inc.; Larry D. Bennett, D.Sc.; U.S. Army Missile & Space Intelligence Center.

14-544 MISSILE GUIDANCE & CONTROL TT 4:30-6:40 p.m.
A study of control systems and techniques for guided tactical missiles. Background: basic knowledge of aerodynamics and control systems desirable. Instructor: Christopher E. Kulas, Ph.D.; System Dynamics, Inc.

17-512 SYSTEM SOFTWARE MW 6:50-9:00 p.m.
An examination of assemblers, loaders, macro processors, compilers, and operating systems. Background: good knowledge of programming. Instructor: Bobby C. Hodges, M.S.E.; NASA Marshall Space Flight Center.

17-522 ADA PROGRAMMING Sat. 8:00-12:00 noon
An examination of the structure and applications of the Ada programming language. Background: good knowledge of programming; Pascal desirable. Instructor: Marvin Polan, M.Sc.; Teledyne Brown Engineering.

17-634 AUTOMATED REASONING TT 4:30-6:40 p.m.
A study of logic programming with applications in computer-based reasoning. Background: knowledge of programming; artificial intelligence desirable. Instructor: Robert R. Covelli, S.M.; John M. Cockerham & Associates.

17-662 ADVANCED DATA NETWORKS MW 4:30-6:40 p.m.
A detailed study of topics in advanced digital networking, including local-area networks. Background: basic knowledge of data networks. Instructor: William J. Barksdale, Ph.D.; South TEC Associates.

21-623 STRATEGIC MANAGEMENT MW 4:30-6:40 p.m.
A study of decisions and actions needed to achieve organizational objectives. Background: basic knowledge of management. Instructor: Richard H. Shuford, Jr., D.B.A.; Management Consultant.

24-656 FEDERAL PROCUREMENT LAW MW 6:50-9:00 p.m.
A study of the legal aspects of Federal government contracts and the procurement system. Background: basic knowledge of contracts. Instructor: W. Lane Strong, J.D.; Legal Office, U.S. Army Missile Command.

27-624 SYSTEM ENGINEERING FUNCTIONS TT 4:30-6:40 p.m.
A study of the planning, design, and analysis of large-scale, man-made systems. Background: basic knowledge of quantitative methods. Instructor: Thomas P. Tytula, Ph.D.; U.S. Army Missile Command.

31-504 QUANTITATIVE ANALYSIS METHODS Sat. 8:00-12:00 noon
A survey of mathematical methods, including elementary calculus, for applications in management. Background: knowledge of basic mathematics. Instructor: Raymond C. Watson, Jr., Ph.D.; Southeastern Inst. of Technology.

31-565 DISCRETE MATHEMATICS TT 6:50-9:00 p.m.
An introduction to discrete mathematics with computer-related applications. Background: good knowledge of college-level mathematics. Instructor: J. B. White, Ph.D.; General Electric Military Data and Information Systems.

31-617 APPLIED STOCHASTIC PROCESSES TT 4:30-6:40 p.m.
An intensive study of stochastic processes, emphasizing informational applications. Background: knowledge of probability and random variables. Instructor: Mervin C. Budge, Ph.D.; Dynetics, Inc.

34-645 FIBER AND INTEGRATED OPTICS MW 4:30-6:40 p.m.
An examination of the theory, fabrication, and applications of integrated optical devices. Background: knowledge of basic optics; electro-optics desirable. Instructor: Paul A. Ashley, Ph.D.; U.S. Army Missile Command.

34-504 APPLIED ELECTROMAGNETICS TT 6:50-9:00 p.m.
An introduction to the theory/applications of electromagnetics, primarily as background for advanced study. Background: basic knowledge of calculus and physics. Instructor: Vernon W. Ramsey, Ph.D.; Boeing Military Airplane Co.

90-601/702 RESEARCH AND COMMUNICATIONS *Tu 6:50-9:00 p.m.
A seminar on in-depth literature research and the preparation of professional research reports. Primarily for persons writing master's project or doctoral qualifying project. (*) Three meetings only; other times arranged.

SHORT-TERM COURSE

RADAR PRINCIPLES AND APPLICATIONS April 13-17, 8:00-12:00 noon
An intensive introduction to radar theory with applications in tactical and strategic defense systems. Primarily for non-radar engineers, system analysts, and technical managers. Instructor: Stephen M. Gilbert, Ph.D.; Dynetics, Inc. Fee: \$400.

TECHNICAL AND MANAGEMENT PROGRAMS

Southeastern offers specializations in the following areas for professional programs at the master's level:

- Applications Programming
- Applied Mathematics
- Business Management
- Computer Engineering
- Contracts Management
- Defense Systems
- Electronic Systems
- Electro-Optical Systems
- Engineering Management
- Human Systems
- Intelligent Systems
- Missile Systems
- Operations Research
- Radar Systems
- Signal Processing
- Software Engineering
- Space Systems
- Systems Engineering
- Systems Management
- Telecommunication Systems

At the doctoral level, professional specializations are available in the following areas:

- Computer and Software Systems
- Defense Management and Technologies
- Management and Business Systems
- Missile and Space Systems
- Optical and Electro-Optical Systems
- Research and Engineering Management
- Sensor Systems and Signal Processing
- Systems Engineering and Analysis

For persons with considerable prior studies toward the doctorate, other specializations might be developed for degree-completion programs.

NEW PROGRAMS IN SYSTEMS ENGINEERING

Southeastern now offers master's and doctoral programs in the area of systems engineering. The curricula center on the tools, processes, and skills needed for the orderly evolution of large-scale, man-made systems. Participants should have a background in engineering, science, or technical management and a good knowledge of applied mathematics.

During the Early Spring Term, System Engineering Functions (27-624) will be taught by Thomas P. Tytula. Dr. Tytula is chief of the Systems Engineering Analysis Division, U.S. Army Missile Command. This is a required course in both the master's and doctoral programs.

BUSINESS MANAGEMENT PROGRAMS EXPANDED

Southeastern now offers expanded program offerings leading to master's and doctoral degrees in management of business operations. The Master of Science in Management (M.Sc.Mgt.) degree can be earned in business management, contracts management, engineering management, and human systems. The Master of Business Administration (M.B.A.) degree has options in general management as well as the following:

- Human Resources
- Management Science
- Law and Contracts
- Systems and Programs

At the advanced level, the Doctor of Management (D.Mgt.) degree now has a specialization in management and business systems, with options in

- Acquisitions Management
- Organizations/Human Resources
- Executive Processes
- Program Management

During the Early Spring Term, emphasis courses are Strategic Management (21-623), Federal Procurement Law (24-656), and Quantitative Analysis Methods (31-504). All of the program courses are taught by professional practitioners and provide a balance between theory and applications.

WIDE SELECTION IN COMPUTERS AND SOFTWARE

An outstanding selection of courses is offered by Southeastern for master's and doctoral programs in computers and software. The master's degree may be earned with specializations in applications programming, computer engineering, intelligent systems, and software engineering. The doctorate involves advanced courses in these same areas.

AN INDEPENDENT PROFESSIONAL SCHOOL

Southeastern Institute of Technology is an independent, nonprofit institution of higher education, providing continuing education and professional degree programs for mature, working adults. Fully approved by the Alabama Department of Education, Southeastern offers programs leading to the following degrees:

- Master of Science
- Master of Science in Engineering
- Master of Science in Management
- Master of Business Administration
- Doctor of Science
- Doctor of Engineering
- Doctor of Management

Southeastern's central facilities are located at 200 Sparkman Drive, Cummings Research Park. The mailing address is P.O. Box 1485, Huntsville, AL 35807. For additional information, telephone

(205) 837-9726/9769

Southeastern Institute of Technology admits attendees of any age, sex, race, color, or national and ethnic origin.