

The Rocket

VOL. XXVI; NO. 51
MAY 17, 1978

Armed Forces Day

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For Pot Smokers Only

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Not Enough Savings From Solar Heat

If winter's inflated utility bills have you thinking about installing a solar heating system in your home, you'd better think again.

According to Dr. Oskar Essenwanger, an atmospheric scientist in MIRADCOM's High Energy Laser & Research Lab and an adjunct professor of environment at the University of Alabama in Huntsville, if you relied solely on solar heating the money you saved on utility bills would not begin to offset the heating system's installation cost today.

Even if you used a solar energy system backed up by conventional gas or electric heating, the cost would still far exceed any potential savings, said Essenwanger.

In a technical paper presented to the Third Solar Conference, held at UAH in April, Essenwanger argued that knowledge of regional climatic conditions is necessary to design a solar heating system. "These conditions determine the size of the system's collector and storage areas," he said. "As long as the engineers are not given the climatic conditions to design for, they cannot come up with an efficient solar energy system."

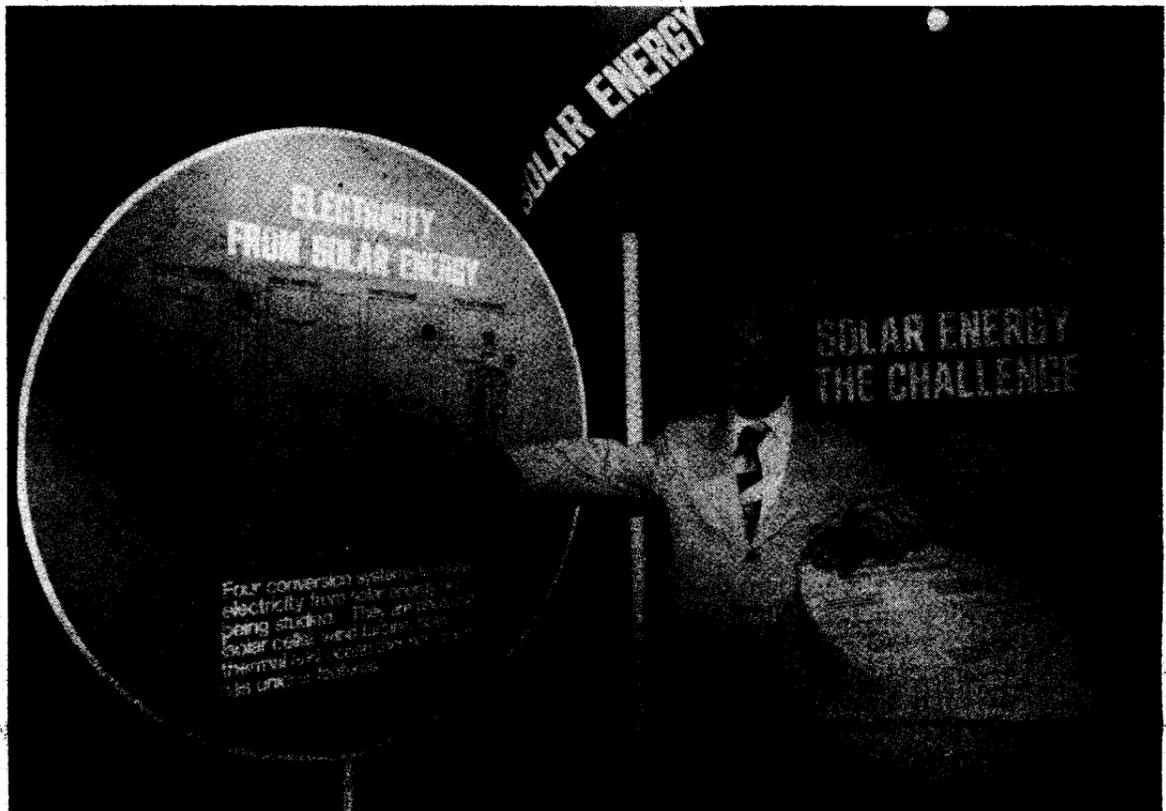
In his position at Redstone, Essenwanger had available detailed, hour-by-hour climatological data for the last two winters in Huntsville. Using that data and a unique methodology which he developed, Essenwanger determined that a house in Huntsville with a daily solar energy requirement of 190 Langleys—a Langley is a heating unit, consisting of about four BTUs per square foot—would need a solar heating system with a 27-day storage capacity. The stored energy is necessary to provide heat during the evenings and on days when the sun doesn't shine.

"This large storage requirement presently makes solar heating impractical in Huntsville," said Essenwanger. "In order to store a 27-day supply of heat, you would need a tank full of water the size of a basement. Such a system is too expensive. It would probably cost about 10-15 thousand dollars."

In addition, said Essenwanger, the full 27-day heating reserve must be available at the beginning of winter, but because of heat loss and storage expense it's uneconomical to store the energy during the summer.

A possible alternative would be to use a solar energy system with a small storage area backed up by conventional gas or electric heating, but this would still be too expensive, said Essenwanger. And if such a system was installed in a large number of homes despite the expense, all would run out of solar energy at the same time, generating a peak load on the utilities, he said. "It would be just like on a hot day in New York City when everybody uses the air conditioner."

Another way to reduce the required storage area would be to increase the size of the collector area. "This system would be feasible, but still not cost efficient com-



MIRADCOM atmospheric scientist Dr. Oskar M. Essenwanger makes a point

while viewing the Alabama Space and Rocket Center's solar energy display.

(Photo by Bill Keller)

pared to conventional systems," said Essenwanger. "At the moment solar heating is just not economical. Research is needed to improve the collecting and storage of solar radiation, to make it more efficient and less expensive."

According to Essenwanger, a lack of climatological data is one of the things inhibiting research on solar heating. "Data collection and preparation must be done for each area," he said. "Research is beginning now, but it takes from five to ten years to get sufficient information on which to base a solar heating design. I was fortunate in that the two winters on which I have data were most severe. A system designed to work in such cold winters will have no problem in an average winter."

According to Essenwanger, most solar heating system designs are based on mean values of solar radiation, or in other words, on the amount of sunshine available on an average winter day. "But my research showed that you cannot design the system based on mean values," said Essenwanger. "You must have daily solar energy values readily available."

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"During winter the sun may not shine on a number of consecutive days. Any solar heating system must be able to store enough energy to heat a home during these days. If you use mean values to determine required storage capacity, you run into trouble," he explained.

"Let's say the sun shines for five days and solar radiation produces 400 Langleys each day. Say we need 200 Langleys a day to heat the house. If the next five days are cloudy, there is no problem, because on the five sunny days we were able to store the one thousand Langleys needed to heat the house on the five cloudy days. But suppose the five cloudy days came before the five sunny days. What would happen then? We would not have any energy. Yet in both instances the average solar radiation available for the ten days is the same."

Studying the climatological data for Huntsville, Essenwanger discovered that the most solar radiation was available in the latter part of winter, when temperatures were rising and less energy was needed to heat homes. Therefore solar heating systems designed on the basis of average daily temperature and average daily amount of solar radiation available would run short of energy in early or middle winter, said Essenwanger.

Recently the nation observed "Sun Day" to draw attention to the potential of solar energy. Ironically, it rained. "Solar energy enthusiasts should have learned a lesson from this," said Essenwanger. "People can declare a 'Sun Day,' but only nature can give us a sunny day."

Big Parade For Armed Forces Day Tomorrow

Local Army commands will observe Armed Forces Day with an open house, tours and visits for clergy, school counselors and retired military personnel and the color and sound of a military review.

The big parade at 4 p.m. tomorrow will wrap up the day's activities. There will be static displays of nine of Redstone's major missile systems on the parade field for spectators to examine before and after the parade. Continuing a tradition begun last year, the flags of all 50 states will be displayed as the troops pass in review to the music of the 98th Army Band from Ft. Rucker.

A low level pass by jet fighters of the Alabama Air Guard will put a cap on the day's events at the end of the parade.

The public is invited to the parade.

Today MMCS is hosting school guidance counselors from throughout the county for a morning tour that will conclude with lunch in the dining facility.

Tomorrow's events begin at 9 a.m. with an open house held by Special Troops, RASA. A barracks and dining facility will be open to visitors until 3 p.m.

The Huntsville Ministerial Association will be the guest of the chaplains for a morning meeting at the Bicentennial Chapel followed by lunch in a troop dining facility. The chaplains will also have a public display of a field chapel set up at the Bicentennial Chapel.

Arrangements have been made for recruiters from all branches of the Armed Services as well as the ROTC unit from Alabama A&M University to set up booths tomorrow in the mall area of the new PX.

The special program for military retirees, their wives and children will begin at 12:30 p.m. in the post theater and conclude in time for the parade at 4 p.m. The Retired Services Office has also arranged to



have representatives from medical and dental services, Social Security, Veterans Administration and the Alabama Employment Service available at the same time to answer questions and advise retirees.

Military personnel retiring this month who will be honored at the parade include: MAJ Charles R. Ritzschke, SGM Lowell Barnes, SFC Billy D. Eubanks, SFC Robert W. Gozia, SFC Daniel J. Klimek, SFC Marlin R. Lay, SFC Owen A. Oleson, SFC Paul A. Smith, SFC Rudolph V. Williams,

SSG Kenneth E. Gann, SSG Jack L. Norwood, SSG Waitman G. Starcher, and SSG John E. Mayercik.

Friday Governor George C. Wallace will present awards in Montgomery as he does annually to honor outstanding soldiers, sailors and airmen from Alabama military installations. Redstone's representative will be SP4 Charles R. Day of MMCS, post soldier of the year. Attending the event will be his wife, parents, BG Patrick M. Roddy of MIRCOC and CSM Clarence R. Bray.

Back Pay For Commissary Baggers

People who have worked for tips as baggers in the Redstone commissary or any other military commissary in the United States for the past four years may get retroactive pay of minimum wage plus overtime.

The Department of Defense said May 8

The Rocket

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

All advertising copy and payments therefore are received by Mrs. Vergie Robinson, P.O. Box 5351, Huntsville, Ala., 35805, telephone 533-2703, as representative of the publisher. The advertising office of The Rocket is located at 2400 Bob Wallace Avenue, Suite 210. Advertising deadline—both display and wanted—is 10 a.m. Monday before publication.

The Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for The Rocket are \$12.72 a year, or \$7.42 for six months, tax included. Mailing arrangements may be made with the publisher, P.O. Box 930, Huntsville, Ala. 35840.

Everything advertised in this publication must be made available for purchase, use, or patronage without regard to the race, creed, color, sex or national origin of the purchaser, user, or patron. A confirmed violation or rejection of this policy of equal opportunity by an advertiser will result in the refusal to print advertising from that source.

that the Civil Service Commission has determined that "individuals who bag and carry out patrons' purchases solely for tips at DOD commissaries located in non-foreign areas are covered by the provisions of the Fair Labor Standards Act.

"These baggers are entitled to the full protection afforded by the FLSA which includes a minimum wage guarantee and appropriate compensation for overtime work.

"Any person who has worked as a bagger since May 1, 1974, is entitled to minimum wage and, possibly, overtime payments under the FLSA. Claims for retroactive wages under FLSA may be filed with the appropriate regional office of the U. S. Civil Service Commission".

The nearest regional Civil Service Office is in Atlanta.

Claims should specify the location of the commissary where the individual worked and should include an approximation of the hours worked, dates worked and amount of tips received.

Claims should also include some means of verification such as the names of commissary officials, copies of PCS orders, copies of federal state income tax returns or other documents covering the period worked.

Persons submitting claims should include a current address, social security number, date of birth and should say whether at the time of the claim he or she was serving in the military or was a dependent. If a dependent, then the claim should include the name of the sponsor.

JETT

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NOTE: Announcements for "Now Hear This" must be received by noon Friday to appear in Wednesday's "Rocket".

Wednesday, May 17:
 The Alabama Section, American Institute of Aeronautics and Astronautics, will conduct a forum on "The Values of Continuing Education," at the Huntsville Library auditorium starting at 7 p.m.
 Dr. Philomena Grodzka of Lockheed will head the panel that includes Dr. Robert Head, UAH; Dr. Larry Kendrick, IEEE; and Dr. Leonard Yarbrough, MSFC.
 The public is invited. There is no charge and no obligation.

Thursday, May 18

The Association of Old Crows meets at one in room A115, building 5250.
 Robert L. Eison of the PATRIOT Project Office will discuss PATRIOT Multifunction Array Radar ECM test evaluation.
 The Association of Government Accountants meets at Michael's Restaurant in the Ramada Inn, starting at 5:30.
 There will be no formal speaker. The meeting will be devoted to entertainment.
 Reservations: Dorothy P. Jenkins, 876-2107 or 881-8934.

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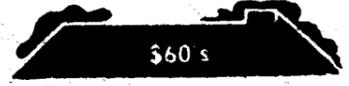
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• **EXECUTIVE 4 BEDROOM RANCHER** ... DEN w/FIREPLACE, king size master suite, inside utilities, fully equipped KITCHEN, Complete Security Alarm System, walk to choice elementary school. So. Huntsville. Low 50's. New Listing. ML



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• **EXECUTIVE CONTEMPORARY HOME OF "roominess"** ... "view" ... and "mint-condition" ... Foil paper, mirrors & Cathedral ceilings ... make this 5 bedroom, 3 bath home a great entertainment home. Den + RECREATION ROOM ... and not 1 but 3 MASSIVE WOODBURNING FIREPLACES ... BIG TREES ... for this wooded home site perched high above GRISSOM ... A real Private world of finer homes. TG 8024. Make your offer. Price reduced.



• **THERE ARE HOMES — AND THERE ARE REMARKABLE HOMES!!!** VIEW from almost every window of this 2-story spectacular home for your family. Quiet cul-de-sac. Dramatic large foyer; sunken formal dining, FIREPLACE + exciting X-large green carpeted screened-in covered "patio" for fun all summer!! DEN, 4 bedrooms, 2 1/2 baths, and MORE, MORE ... MORE!! Come see this new listing — you'll love the home and the price!! \$60's. E-8694.

• **EXTRA LARGE LOT COVERED W/TREES,** Rancher with 3 large bedrooms, 2 baths, HUGE DEN w/FIREPLACE, spacious living room w/picture window overlooking one of two patios, breakfast room, and inside laundry. Many features including central burglar alarm system, privacy fence, extra insulation, workshop, double carport, and built-in gas grill on patio. VA appraised or finance on FHA or Conv. N806. Madison.

• **UPPER JONES VALLEY** — 2700 sq. ft. of fine home in a prestigious neighborhood. The Acre grounds of this 3 bedroom home are within walking distance of Jones Valley Elementary or Randolph School. You'll enjoy the family living in the huge DEN. Double garage. High \$60's. G-2906.



• **FORTIFIED WITH "C"—CLEAN! CHARMING! COMFORTABLE & COZY** ... for your family. Impressive "sunken" foyer, formal dining and terrific DEN w/FIREPLACE, Closets & Storage galore!! 4 Bedrooms (Kingsize on lower level) ... 2 1/2 baths. 2-car heated and cooled garage (terrific for your "teens" parties!! X-large WORKSHOP ... nice enough to be extra bedroom or study. Fully equipped kitchen w/double oven ... & excellent eating area. Front wrought iron entry patio ... Beautiful view of Mountains & TREES. Grissom. Call now, new listing. \$50's. T-10074.

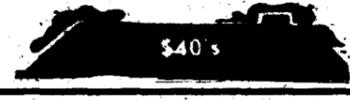
• **HOME RUN FOR MOM** ... Get to first base fast to see this newly listed Southeast brick rancher, 3 bedrooms, DEN, separate dining. Big, super lot w/fruit and nut trees. Pride of ownership is reflected throughout. M-7309.

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• **STOP THE CAR!!** You won't need it to get to this vacation spot! Enjoy complete privacy in your own back yard complete with 18'x36' sparkling inground pool and large patio. Fresh and clean two-story 4 bedroom home, includes many energy saving features. Situated on a large lot overlooking city lights in a well established neighborhood. The price of this complete vacation package will make you smile all year long. Low \$50's. BM-2632.

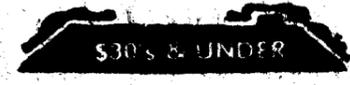
• **NEW LISTING** ... Close-in Williamsburg Townhouse S.E. situated at the foot of Monte Sano on a tree covered lot. Carpeted throughout, all built-ins, 3 bedrooms (2 Kingsize), DEN, living room, 2 1/2 baths and large storage area. 1850 sq. ft. with Lawn Maintained. Equity or refinance. Beautifully decorated in an excellent Southeast neighborhood. TG-2219. Low \$50's.



• **16,'x32' INGROUND POOL** ... PRICED TO SELL ... LOW \$40's ... New paint for this 4 bedroom, 2 bath terrific TRI-LEVEL home, central heat & air, X-large foyer, whooping large DEN ... Carpeting & draperies throughout. Fully equipped kitchen. Fantastic POOL ... w/all equipment. Fenced (the neighborhood park is 1 block away) ... terrific for your family ... Call now to see. B-3313.

• **SHERWOOD PARK**...2-story colonial with 4 bedrooms, study, playroom, formal living and dining, redwood deck, fenced yard w/large storage shed. Plenty of room for the whole family and their hobbies. F-6006.

• **BASEMENT** ...Lovely WOODED grounds w/VIEW! 742 sq. ft. of partially finished BASEMENT. Entire home and double garage are equipped with central heat and air. This home sports a price y'all will LOVE!! \$40's. V-2614.

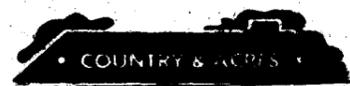


• **PERFECT STARTER HOME IN PERFECT LOCATION**—Walk to school from the 3 bedroom, 2 bath rancher. Carpets, draperies, large eat-in kitchen with built-ins. Single garage. P-3886.

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Saving Energy Through Water Conservation

Expecting electric bills as high as \$1 million per month this summer, utilities officials here are exploring new conservation methods that may include cutting back on use of water.

Conserving water will save energy by requiring less frequent operation of three 450 horsepower electrically-driven pumps that deliver water from treatment plants at the river, said Ron Harmon, Utilities Branch Chief. Water conservation will be aimed at reducing consumption in the arsenal's northeast sector, where summer demand requires constant operation of the big pumps. It is planned to water the golf course less, and place some restrictions on watering lawns.

In other matters touched on at a meeting of the energy conservation committee last week, an official said energy consumption here last fiscal year was unchanged over the previous 12-month period. Failure to meet conservation goals prompted a "chastising" letter from DARCOM Commanding General John R. Guthrie, the official said. A goal of three per cent energy reduction for FY 78 is being met, he noted, but may not continue to be unless strict controls are kept on air conditioning this summer.

The controls will be accomplished by computer where possible. An energy management computer controls air conditioning in about 300 large building here. When electricity consumption begins to exceed preset levels, the computer automatically shuts down air conditioning to sections of buildings for brief periods in a programmed sequence according to outside temperature, position of the sun and other factors.

Harmon said consideration is being given to increasing the duration of air conditioner shutdowns from the customary 4-5 minutes to as much as 15 minutes if necessary to hold down electricity consumption and demand.

He pointed out that only about half of the arsenal's electricity costs are for energy actually used. The remainder is demand charge levied by Tennessee Valley Authority for maintaining enough generating capacity to supply electricity to the arsenal during periods of peak demand. The charge is based on the highest volume of electricity used during any 30 minute period during the billing month.

Anticipating that it may be called upon to deliver that volume again in succeeding

months, the utility supplier charges for having the electricity available whether or not it is needed. The effect is that Redstone pays many thousands of dollars for the availability of electricity that may not be used.

Disabled Vet Tax Break

(ARNEWS) — Retired service members who receive retroactive disability pensions from the Veterans Administration may now get a tax break for taxes paid before retroactive disability was granted, according to the Internal Revenue Service.

The IRS said it will abide by a 1976 decision by the Fourth U.S. Circuit Court of Appeals.

In that case, a retired soldier sought a tax break to compensate for taxes paid before his tax exempt disability was awarded. The court ruled that the former soldier could exclude the disability income from taxable income for the retroactive period.

More information on the exemption may be obtained by contacting local IRS officials.

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719 Acre Farm

offered in 9 tracts, then as a whole.

Owners: Mr. and Mrs. John W. Vandiver.

To be sold on the farm 2 1/2 miles southwest of Pulaski on Minor Hill Road (Tennessee Highway 11). Ideally located close to Pulaski with total of approximately 2 miles of road frontage on Minor Hill Road, Ridge Road and Chicken Creek Road.

This 719 Acre Ponderosa is being offered for purchase for the sincere cattleman. Also wonderful investment property or may be purchased in tracts from about 30 Acres to 170 Acres.

The productive rolling land is well established in fescue and clover with about 200 acres in wood land, 200 acres crop land. Adequate land for row crops and hay production. Extremely well watered by numerous springs, 5 large ponds, branch and public water along the front portion of the property.

This picturesque cattle/crop operation has 3 houses and 3 barns with several outbuildings. The farm has excellent corral and penning operations for livestock along with a lot of new net wire fencing. Offered in tracts and combinations then as a whole, selling by the tract, not by the acre.

TERMS OF SALE: 20% down day of sale with balance in full on or before July 1, 1978. Possession with delivery of the deed. 1978 taxes to be assumed by purchaser.

For further information and a preliminary plat of the property, contact either of the Co-brokers.

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Stop Thieves

(ARNEWS) — Thieves are able to determine which homes are likely to be empty while the occupants are on vacation by looking at addresses on luggage, according to the DOD Vacation Service publication.

Suggested ways to foil them are to buy names tags with covers, or to use a business rather than your home address.

Single women should use their initials or first name and middle initial. Using "Miss" is a tipoff that you might live alone.

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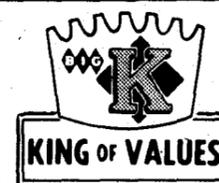
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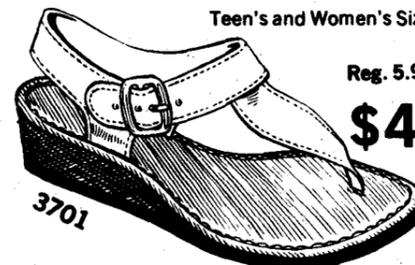
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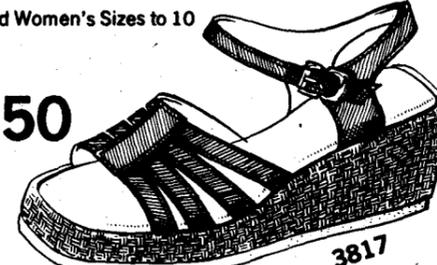
Sunny New Canvas 'n Rope Sandal

- ★ Strippy canvas uppers with comfort cushioned sole
- ★ Rope wrapped wedge and platform; crep-type sole

Teen's and Women's Sizes to 10

Reg. 5.99

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3817

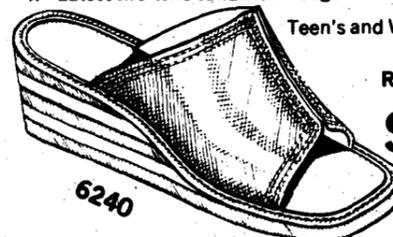
Leather-Look Wedge for Women and Teens

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From Blackboard To Badge, Atwood Makes Choice

In 1975 Lynn Atwood traded black boards for Army green. He had spent 19 years of his life in classrooms either as a student or as a teacher, and he wanted to change his routine.

Now SP4 Lynn Atwood of the 291st MP Company is changing his routine again. He is returning to civilian life.

But after three years in the Army, Atwood



Atwood

thinks it unlikely he will ever go back to the blackboard.

Since his enlistment Atwood has seen duty in Korea and at Redstone. In 1977 he was named Special Troops Soldier of the Year and was runner-up for Redstone's Soldier of the Year.

"I've enjoyed the past three years. I've also learned a lot about basic law enforcement, especially overseas where the MP's have less civilian assistance," Atwood said.

In Korea, Atwood explained, MP's must fill the posts usually manned here by civilian guards. MP's must also bear more responsibilities in criminal investigations, because there are fewer CID investigators and less interaction with the local police.

At Redstone, Atwood has seen more lost dogs and people locked out of their houses than criminal investigations. He has found he enjoys working with honest citizens more than working with crooks, although manning a traffic control point on wet winter days leaves much to be desired.

"For the past two months, however, I've done nothing but desk duty," Atwood said.

When he is not manning the telephones at MP headquarters, Atwood and his wife Mijie enjoy fishing in the Guntersville lake and the many fishing streams in this area.

But Atwood misses the faster streams and higher mountains of his native Washington, and hopes to settle in that state. But he doesn't miss his old teaching job. When Atwood hangs up his fatigues he hopes to work in Security, not in the classroom.

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Ceramists Win In Show

Seven Redstone ceramists won ribbons at the Ceramics Juried Show held at the Mall in April.

Patsy Chandler, Mary Hall, Marquerita Lyles, Dorothy Pointiviant, and Xa Rambo won blue ribbons in their categories. Jo Ann Trainer placed second in her category. Trainer's daughter, Maureen, placed first in her category in the Youth Division.

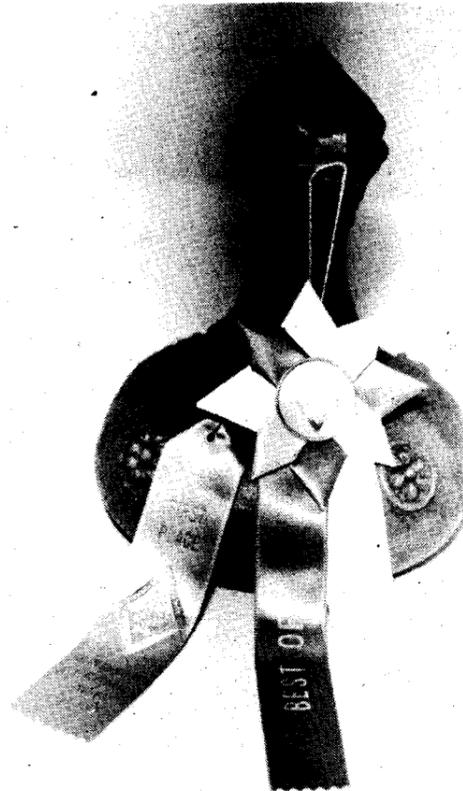
The ceramics juried show is an annual competition open to amateur and professional ceramists in the Huntsville

area. Entries are judged by professional ceramics instructors on their design and decoration.

Redstone has traditionally been well-represented at the show, and past ceramists have won many prizes for their work.

This year all Redstone's winning ceramics were poured in molds from the Small Crafts Shop, bldg. 3491.

The facilities at the Small Crafts Shop are open to all soldiers and their dependents. For further information call 876-7740.



A winning entry by Pointiviant

Service And Sick Leave Awards

Department of Army received sick leave certificates of Service for 30 and 35 years went to 23 MIRCOC employees last week. Seven individuals

Production; Cora A. Martin, Equal Employment Opportunity; and David L. Kutz and Charles B. Rymer, Maintenance and

Engineering. Thirty year certificates went to: Laurie V. Atkinson, and Joseph A. Cannon, Product Assurance; Gaylon Boyd, Axel Davidson, Joseph B. Fisher, Major R. Howell, Evelyn G. Kitchen and Dorothy S. Sherrill, Materiel Management; Austin Couch and Sidney L. Counselman, Management Information Systems; Harris R. Cox, and Melba H. Ledbetter, Hawk Project Office; India Lou Esslinger and Nell I. Goins, Comptroller; William D. Gardner, John H. Irvin and Elmer F. Rufe, Maintenance and Engineering; Clifton A. Lipscomb, Procurement and Production; and Ward V. Jensen and Harold A. Martin, TOW-Dragon Project Office.

Sick leave certificates for 2,000 hours or more were awarded to: Frank O. Ball, Ernest W. Friz, Grace L. Pilgrim and Thomas J. Smith, Materiel Management, Willis M. Roberts, Maintenance and Engineering; and Wallace K. Thomas, and George E. Woodward, Chaparral FAAR Project Office.



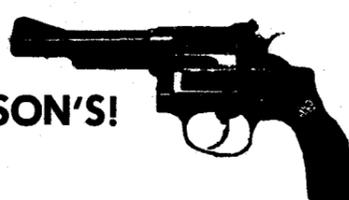
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Multi-National Testing Slated

A shipment of European Roland air defense weapons and support equipment was welcomed ashore at New Orleans Thursday where it arrived for a joint test program being conducted by the United States, Germany and France.

Equipment, including French and German fire units mounted on tracked vehicles, missiles, and associated support equipment, is bound for White Sands Missile Range. During the coming months, the three countries have scheduled an extensive test program to demonstrate the compatibility and interchangeability of U.S. and European equipment, components and personnel.

Colonel Carl Steimle, representing Brig. Gen. Frank Ragano, U.S. Roland Program Manager, greeted representatives from the French and German embassies and test communities, along with Army, Hughes and Boeing attendees, at the Military Traffic Command's Gulf Outport Terminal.

The equipment left Europe aboard the Merchant Marine vessel, Meteor, on April 26 and arrived in New Orleans May 8.

Roland, a short range, all-weather air defense system developed by France and West Germany, is the first major European system selected for production in the United States and deployment with the U.S. Army. Hughes and Boeing, under license to Euromissile to transfer European technology to the U.S., are building U.S. Roland in this country and mounting it on the M-109R tracked vehicle.

Except for the markings and slightly different vehicles, U.S. Roland is almost an exact duplicate of the European original. In fact, U.S. built missiles and approximately 90 percent of the fire unit replaceable parts (body, turret and electronic equipment) are interchangeable with European counterparts.

Army acquisition of Roland is a significant step toward greater standardization of weapons improving the combat readiness and cost effectiveness of NATO forces.

U.S. Roland will protect troops, air bases, fortifications, supply depots and other battlefield targets against low level air attack.

Restitution Made In Midnight Ride

Remember that October morning when you came to work on Martin Rd. and every sign on both sides had been smashed or run down.

The story had a sequel.

Friday afternoon LTC Edward C. Smith Jr., Provost Marshal, and LTC Richard E. Cumming, Staff Judge Advocate, picked up checks from Juvenile Court authorities in Huntsville reimbursing the United States in full for damages caused by the vandals.

The total tab: \$2,991 which included \$2,317 required to repair or replace damaged signs, the remainder, fees to repair damaged arsenal gates, cover material and labor.

Three teenage boys caused the damage early on October 15 in the course of a wild ride in a stolen truck. They wrecked the truck and left it abandoned on Whitesburg Drive.

Military police and city police investigated the incident. Cumming later swore out petitions in Juvenile Court against the individuals involved.

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- 9:00-12:00 Aspects of hypnotic suggestion, mental rehearsal, mental imagery, practice in administering and responding to suggestion.
- 1:00-3:00 Inducing altered states of consciousness, new induction techniques.
- 3:00-5:00 Suggesting altered states, deep hypnosis, super aware state, relaxation, practice sessions.

- 8:00-10:00 am Research in hypnosis, effects of attitudes, motivation, expectancies, creative imagination, relaxation.
- 10:00-12:00 Characteristics of good and poor hypnotic subjects, post-hypnotic behavior, personal growth through hypnosis.
- 1:00-3:00 Losing weight through hypnosis, breaking habits (smoking), building confidence
- 3:00-5:00 pm Practice Sessions and individualized instruction: Developing effective suggestions, experiencing the sub-consciousness, developing skills in self-hypnosis.

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1. An examination of the latest techniques and applications of hypnosis and self hypnosis.
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3. Applying hypnosis toward achieving personal goals — personal enrichment, losing weight, increasing creativity, quitting smoking, reducing anxiety.
4. Individualized instruction and practice sessions in administering useful suggestions.

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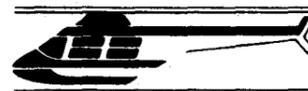
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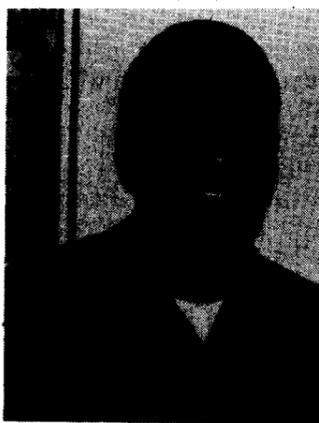


ROOP TALK

QUESTION: What do you think of the Army's new program to teach basic reading and math?



Pvt. Mark Dodd, 8th SC—"I think it's a fine program. Some of the people who enlist need the extra schooling because they didn't learn that much in grade and high school. For instance, in some of the electronics courses they teach here, you've got to know math. And if you can't read, you're really in trouble."



PFC Roosevelt Rodgers, 6th SC—"It's a good program. The Army needs to teach the poorly educated people who come in how to read so they can perform their jobs well. It will help the Army in a lot of ways overall."

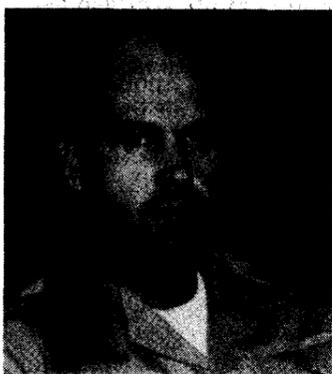
Spec. 4 Eddie Mae Harris, Meddac—"I think it's a good idea because it's a fact that a high percentage of soldiers are reading at something like the seventh grade level. They need the program because Army courses are taught at the eleventh grade level. When this program comes out, it may help soldiers to appreciate the Army more."



Spec. 4 Mark Kennely, Co. A—"I think it's unnecessary. People should be educated before they come into the Army, and the quality of troops is way down because many of them aren't. It is nice that it's available to the troops, but people should have a high school education before coming into the service."



Pvt. Dorthea Quinn, Co. A—"I think it's a good program because it gives people who aren't very good in math and reading a chance to improve their skills in those areas. If they plan to enter college later on, it will help them. A lot of people come into the service that have a high school education could use it also."



SFC David Elliott, Mircom—"It seems like a regression to me. The Army should maintain a higher level of education requirements for people wishing to enlist. I don't think they should start this new program, they should make sure the recruit has a tenth or eleventh grade education before joining the Army."

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For Pot Smokers Only

Attention Marijuana Smokers! This article is for you. It took nearly a week to collect and arrange this information. The writer hopes you will think about it.

Have you ever wanted to talk to some of the local brass and find out where they stood on the subject of marijuana use? Of course it might be a ticklish situation for an outlaw so we did it for you.

For example, the Commander of Special Troops, Lieutenant Colonel Norman C. Propes, might have some news for you. He said, "Our position is established by Army regulations. Marijuana use or possession is illegal and it is not condoned or tolerated."

His position, by the way, is also held at School Brigade, MMCS. There, the Deputy Commander, Lieutenant Colonel Wayne C. Allen added, "Duty requires every commander in the Army to enforce and carry out Department of Army policy."

And he explained that because of one particular policy of "even-handed justice," you can expect about the same punishment as another soldier caught in similar circumstances anywhere in the Army. Even if you're on pretty good terms with your company commander!

And speaking of punishment, the legal office said that the final word from a general courts-martial can be five years at Ft. Leavenworth (the federal prison), reduction to E-1 and a bad conduct discharge. And a first offense can get you there.

We also called the District Attorney's Office in Huntsville for you. They gave us the following maximum penalties: First offense involving an amount of marijuana for personal use (misdemeanor)—one year and \$1,000; first offense involving possession with intent to sell (felony)—15 years and \$25,000. On a second felony conviction the prosecutor can seek 30 years of your future and \$50,000 of your money.

Everything considered, we got the impression that when people say marijuana is against the law, they are very serious.

The company commanders and first sergeants are also interested in the legal aspects. Of course, there wasn't time to talk to them all, but Captain Linton Laverne and Sergeant First Class James K. Laignel of the 8th Student Company, MMCS,

probably spoke for many of their peers. Their legal views go hand in hand with what has already been said.

However, they pointed out other interesting ideas. It seems that your commanders and first sergeants distrust a dope smoker. Laignel noted, "By using pot, a soldier indicates that he is not concerned with abiding by the regulations—that he is willing to do only those things he wants to do. Can I trust him to do what needs to be done?"

And Laverne asked, "If you don't trust him, how do you let him work on a three million dollar piece of equipment?" Luckily, he didn't expect an answer.

Do the company commanders and first sergeants know who you, the marijuana smokers, are? That was a very uncomfortable question for them. Speaking carefully, Laignel explained that it would be unfair to talk about people already caught, specifically, or to lump all of you into a stereotype.

"However," he said, "I do have a mental list of suspects. But suspecting people and

them, we don't even try to bust him. We have programs and specialists here just to give help to people who need it and ask for it. That's what we're here for—the chain of command and the Human Resources and Development Center." He was sincere. No joke.

He was also serious when he said, "Sixteen years of counseling has convinced me that the use of marijuana will affect a soldier's attitude and ability to do his job much the same as alcohol."

Dr. Robert Strong, clinical director of the Human Resource and Development Center and head of its counseling staff agrees, but with proper scientific caution.

He explained, "There are conflicting reports regarding the harm and damage of using marijuana. But my personal observations, both objective and subjective, lead me to believe that smoking large amounts of it over a long period of time is associated with the Amotivational Syndrome." This syndrome is characterized by a person's lack of interest in his future, past, and to some degree, present.

Strong added, "It's something of a 'chicken or the egg' situation though. Do unmotivated people tend to smoke a lot of pot, or does heavy marijuana usage demotivate people? I suspect both."

Still with us, Smoker? You know, both Lt. Cols. Propes and Allen expressed similar concerns for your attitudes and lack of motivation.

As a matter a fact, almost everyone expressed some concern for the dope smoking soldiers. They are concerned that you may kill yourself or others while driving or operating hazardous equipment. They worry that the people selling you marijuana will sweet-talk you into their more expensive and dangerous line of illicit drugs.

Perhaps your illegal kicks will leave you vulnerable to foreign spys. A conviction for possession of a controlled substance will definitely prevent you from holding many jobs in the Army and in the civilian field.

Do you ever think about getting caught, Smoker? How would it effect your life? Your family? Your future?

Do you care?

Amotivational what??

A
POOR
RISK



catching people aren't the same thing. You have to have solid proof to take disciplinary action against a guy. You can't bust a guy just because he walks up and says, 'Hi, Top. I smoked a joint last night.'

"In fact," he added, "if a guy is having personal problems and comes to me with

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WAYNE TATE, Mgr.

40 Years And Still Going Strong

One day recently about 25 people gathered to receive length of service awards, a few for 35 years, still more for 30 years, but only one for 40.

The 40-year man was Joseph M. Wilce who isn't about to end his career at this point. "I intend to keep working as long as I'm able and God is willing," he says. He's an equipment specialist in the RASA Logistics Services Division where he has been working for more than 20 years.

His acquaintance with Redstone predates his civil service employment, however. In 1947 he was in the Army as a supply officer who had a hand in closing Redstone and putting it on standby. Then in December, 1949 he was a member of the original cadre that came to re-open the Arsenal.

When he retired from the Army in 1954, he enrolled as a sophomore in Huntland, Tenn. High School. "I graduated with honors in 1957," he recalls.

"I started to work at Redstone as a civil servant in 1958, and my, how Huntsville and the Arsenal had changed since I'd been here in the 40s. I actually got lost in town a couple of times."

Wilce had entered the Army in 1933, been sent to Panama, and then back to the U. S. until the beginning of World War II. He was in Europe at the end of the war and was sent home as a high point man—a man who had been in Europe so long that he had accumulated enough "points" for an early return to the States by air.

"I'm from Pennsylvania, but was stationed at Camp Forrest, Tenn. before I went to Europe, and had met my wife there. She waited for me and we were married when I got back from Europe. That's how I happened to go to school in Huntland, and we still live there," he says.

Looking back over his experiences with civil service supervisors, he says by far the best one he ever had, out of five different people, is Charlotte Bagwell. What makes her such a good supervisor? "She's considerate, kind, doesn't jump at you, gives you a fair break and puts herself in your place, then decides what to do. She's great," he says.

His work has been recognized with Sustained Superior Performance and Outstanding ratings. "That's happened every three years," he says, "I've gotten six of them—never missed."

While he was in the Army he was a coat artillery, anti-aircraft and medical ad-



Joseph M. Wilce gets 40-year certificate from BG Patrick Roddy

ministrative officer.

He says experience has taught him that other people have feeling and should be treated with consideration. Also that the road to success is just plain hard work and clean living. He believes people should keep working as long as they can, that their experience is valuable.

Other RASA employees honored included Homer Brown, Escoc B. Henley and James A. Johnson, each with 35 years service.

Those with 30 years were: Lillieus L. Almond, William E. Black, Lemuel E. Boggs, William A. Burroughs, Arthur E.

Freeman, Tommie Ford, Otis Golden, William B. Hargrove, Lester P. Keller, Walter Malone, Robert N. N. Maples, Peter Merrell, Hurshel B. Rousseau, William P. Smart, James Toney and Thomas H. Townson.

Billy Brown, Jr. and Willie R. Carter, Meteorology and Calibration Center also received 30 year certificates.

Sick Leave conservation certificates for 2,000 hours or more went to Monroe F. Carmichael, William S. Lanford and William F. Smart of RASA, and to Arlie R. Parker of Metrology and Calibration.

Burnell Elevated To Deputy Chief

The Army Corps of Engineers announced this week the assignment of MG Bates C. Burnell to the post of Deputy Chief of Engineers. General Burnell had been assistant Deputy Chief of Staff for logistics for the Department of Army since January of this year.

The former Huntsville Division Engineer and later, Commanding General of the Ballistics Missile Defense Systems Com-

mand, will be the principal assistant and adviser to the Chief of Engineers for both military and civil missions of the Corps.

General Burnell came to Huntsville in 1970 after having served as commanding officer of the 159th Engineer Construction Group in Vietnam.

He spent three years with the Huntsville Division before being named to the BMD-SCOM post in 1973.

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SATURDAY, JUNE 17
AT THE SHERATON

A picnic will be held earlier that day. For further info contact Pam McCormick, 539-0092 or Vivian Pylant, 533-3103.

MPs Tape Calls

All incoming telephone calls to the Military Police desk will be automatically recorded beginning May 30.

The taped conversations will eliminate the need for written records of calls now kept by the MPs on duty and can be used as verbatim record of conversations.

Tapes will be destroyed after 60 days. Portions required for evidence will be retained. The tapes cannot be used for purposes other than to establish a true record of conversations that took place.

Many civilian police departments use the same procedure. Huntsville, for example, tapes all incoming calls.

MPs and police have long become used to having individuals say one thing on the telephone and later deny it. Someone who tries that one after May 30 may be invited to listen to an interesting piece of tape.



MERIT AWARDS — Winners of Officers' Wives Club merit award scholarships received their grants at the May luncheon of the Club. The winning students are: Janet Oberg, Kathryne

Anne Opel, Robert Russell, Jr. Carol Colane and Carol Stout. Russell received \$500 and the others, \$250 awards. Carl M. Poe, III, not present for the picture, also received a \$500 award.



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REMINGTON 552A .22 Auto. Rifle	Retail 99.95 SPECIAL 71.95

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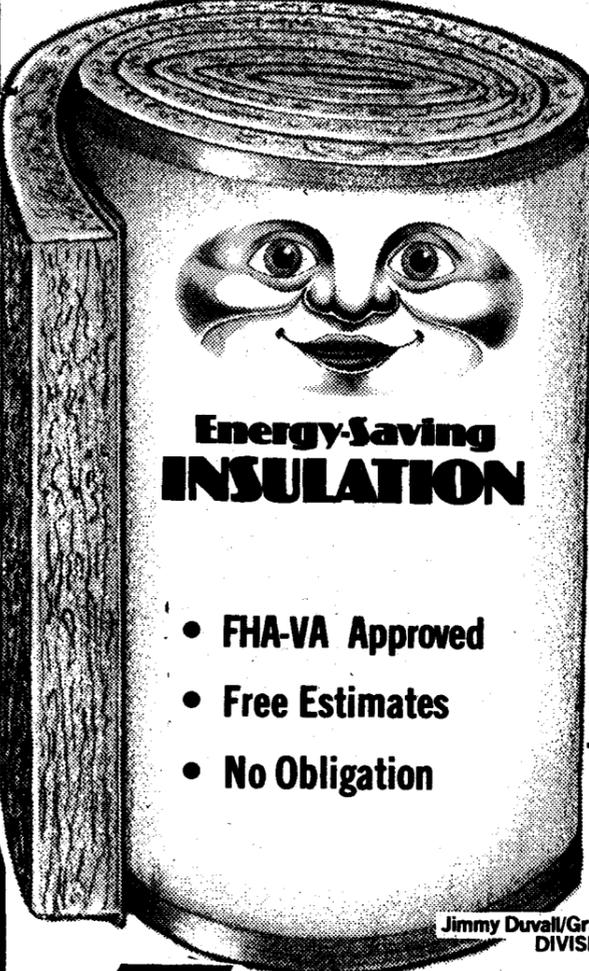
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Model Soldier

A member of the MMCS Explosive Ordnance Detachment No. 1 has been chosen Service Person of the Quarter for April May and June 1978 at the Naval School, Indian Head, Md.

The selection of Staff Sergeant James C. Wright, III was based upon his demonstrated excellence in leadership, technical competence, knowledge of command's organizational structures, command and host tenant's regulations (as applicable to all services), military customs and courtesy, current events, military bearing and appearance, desire for self-improvement, self-expression and military-civic duties and responsibilities.

Wright has been assigned to the staff of the Nuclear Ordnance Division since January 1974.

Rocket Run

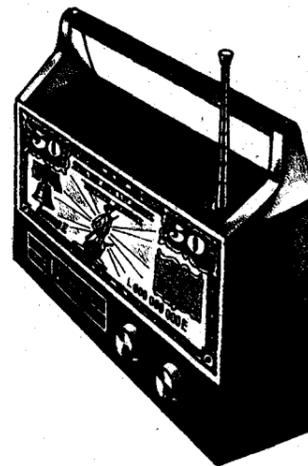
Those interested in participating in jogging competition are invited by the Huntsville Track Club to enter the "Rocket Run" being conducted on the Arsenal, Saturday, May 27.

The Run will feature a 10 mile road race, 3 mile joggers race, 3 mile road race, and a 1 mile fun run. In the 3 and 10 mile runs there will be division by ages and sexes.

Registration begins at 8:00 a.m. and the first running event is scheduled for nine. Registration and the race beginning points will be at the new Post Gym.

Additional information may be obtained by calling Al Black at 895-3530 or Tom Bolt at 895-5670.

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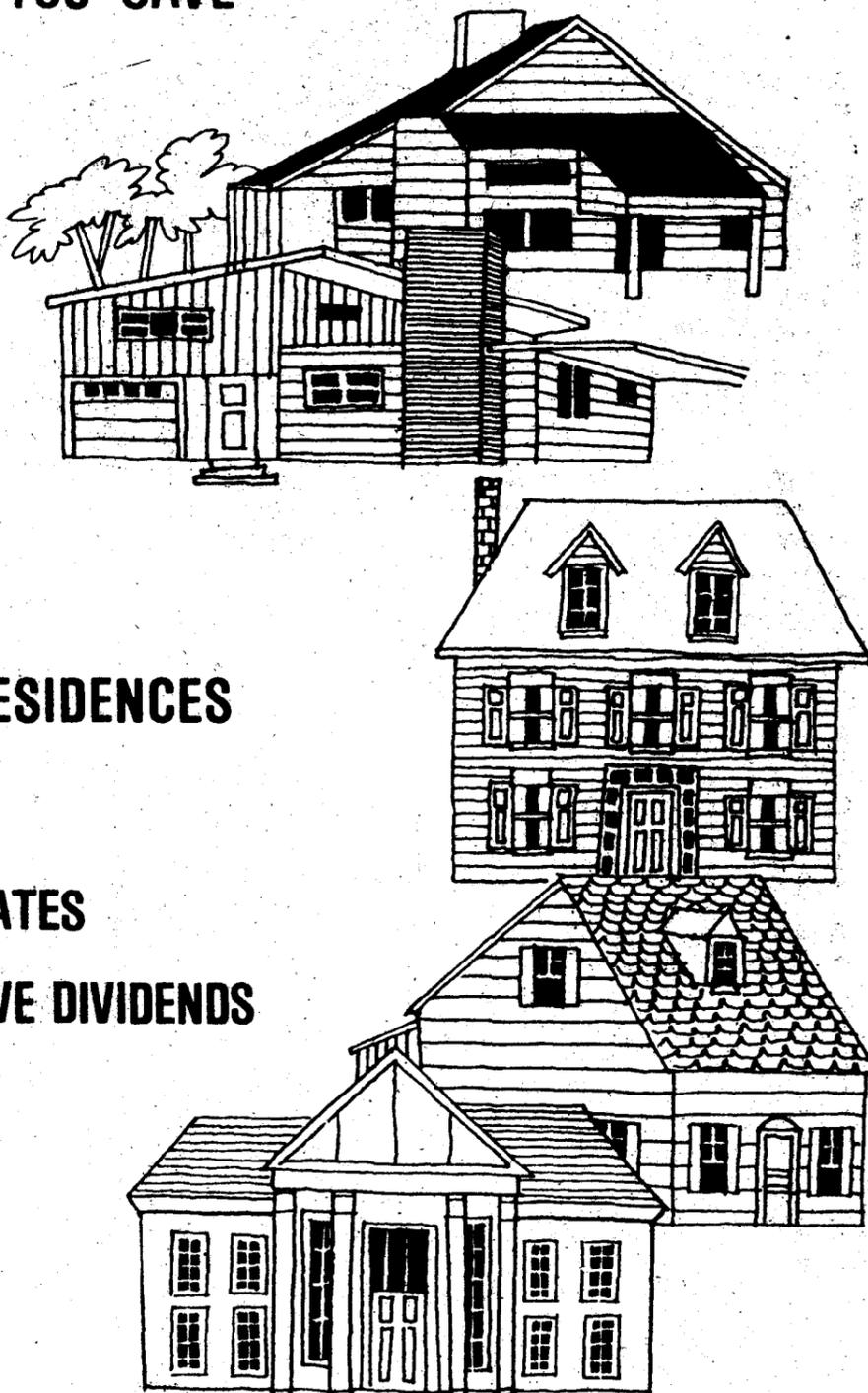
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Faught Retires With 37 Years

Kermit Faught says it wasn't easy for him to decide on a retirement date, that he had been considering it for the past three years. Now, mid-May is when he is leaving the MIRCOCM Directorate for Product Assurance after more than 37 years of government employment, first with the Navy, and the last 22 years with the Army at Redstone.

"Lots of things were different about working for the government when I started in 1940," he recalls. "My first job was at the Navy Yard in Charleston, S. C. In those days we weren't permitted to accumulate annual leave unless the supervisor asked us to. A Wells Fargo wagon would go from building to building dispensing our pay every Friday, and as soon as we were paid, we took off on

annual leave, usually about four hours of it.

"Sick leave was a different matter. If you called in sick, a foreman, and Navy doctor or nurse would come to see you, armed with their little black bag to find out if you were really ill.

"We didn't have to have badges, either — just a little disc with a number on it was used for everything."

Faught was visiting his sister in Charleston when it was suggested he apply for a job at the Navy Yard. He did, but didn't hear anything from his application as time dragged on. After three months, he was in a store where he knew the proprietor who asked him if he had started to work at the Navy Yard.

"When I said I hadn't, the man picked up the phone and

made a call — it was on Friday — and they told him to have me report for work on Monday, and that the delay in not calling me was an oversight on their part."

Originally from Jasper, Ala., and some 17 years later, he was back visiting in 1956 when someone said, "Why don't you apply for work at Redstone?"

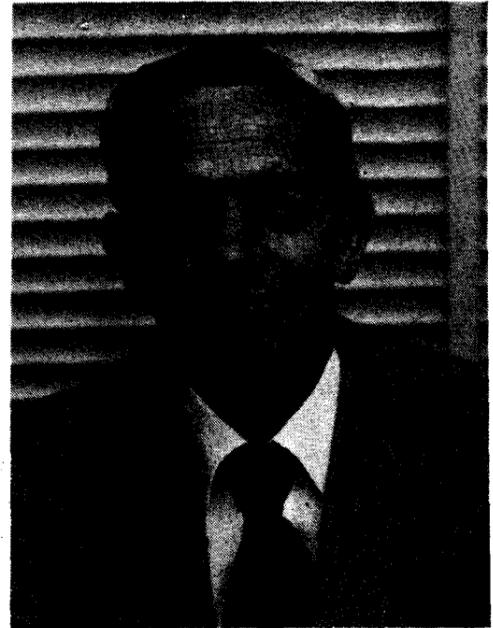
"I came over to the Personnel Office and talked to Rufus Porter. He told me they were looking for someone with calibration experience to help set up and operate a primary electronics laboratory, and I was hired for that job," he says.

In 1946, after serving two years in the Navy, Faught had returned to work at the Shipyard where he served as an electronics instructor in the area of underwater

sound, radar and radio communications.

"My prize memory of those days was the installation and check out of the first combination Air Defense and Navigation Radar System for use on Navy ships. The radar system was manufactured by the Sub-Signal Co. which later became a part of the present Raytheon Company," he comments.

He came to Redstone as a calibration specialist, but most of his time was spent as a quality control and a quality assurance specialist. During his initial years at Redstone he served as a team member in the laboratory and later as Calibration Coordinator for the Procurement and Production Directorate.



During the later years of his career he has been a supervisor of the Repair Parts Quality branch, MICOM, and is retiring as supervisor of the Quality Acquisition branch in Product Assurance.

THE UNIVERSITY OF ALABAMA IN HUNTSVILLE DIVISION OF CONTINUOUS EDUCATION

Come join us at UAH this summer for our first annual Summer Program. The Division of Continuous Education is offering a varied, exciting, and fun program, with something just to your taste and pleasure.

You can find offerings in such recreational activities as basketball, soccer, backpacking/camping, and many other active participation programs on the campus of UAH.

You may also participate in academic workshop offerings in the areas of drama, dance movement, foreign languages, and horsemanship. Enjoy field trips in our "Spaceship Earth" Seminar.

Accept our invitation to enroll in this great UAH Summer Program and explore many different and stimulating recreational and educational interests on your university campus.

COURSE	DATES	INSTRUCTOR	FEE
Introduction to the Theatre	July 30-Aug. 11	James	\$35.00
Dance Movement Workshop	July 3-14	Collins	35.00
All-American Soccer School	June 12-July 28	Stromecky	25.00
• (six one-week sessions, by grades, 1-12)			
"Spaceship Earth" Seminar	3 days in June	Plant tours	35.00
• (teachers & high school students)			
Horse and Stable Management	July 15-Aug. 12	Alison	30.00
Foreign Language Workshop	July 10-Aug. 4	Mitchell	35.00
• (French, German, Spanish for ages 6-13)			
Backpacking Workshop and Camp	July 11-Aug. 3	Beatty	40.00
Basketball Camp	June 5-Aug. 18	Willis	50.00
• (seven one-week sessions, by ages, 7-17)			
Ice Skating Clinic	June 16-July 20	Davies	25.00
• (toddler, beginning, intermediate and adult)			
Summer Swimming Clinic	June 12-Aug. 18	Vijil	35.00
• (tiny tots, beginners)			
Beginning Tennis—1 sem. hr. (adults)	June 12-July 7	Pike & Phillips	\$38.00
Beginning Golf—1 sem. hr. (adults)	June 12-Aug. 16	Willige	38.00
Bowling—1 sem. hr. (adults)	June 12-July 7	Willis	38.00
Physical Fitness—1 sem. hr. (16 & older)	June 13-Aug. 17	Williamson	35.00
Beginning Swimming—1 sem. hr. (adults)	June 13-Aug. 17	Vijil	50.00
Intermediate Swimming—1 sem. hr. (adults)	June 13-Aug. 17	Vijil	50.00
Advanced Lifesaving—1 sem. hr. (adults)	June 12-Aug. 16	Vijil	50.00
Water Safety Instruction—2 sem. hrs. (adults)	June 13-Aug. 17	Vijil	50.00
Swimnastics—1 sem. hr. (adults)	June 17-Aug. 19	Vijil	50.00
Self-Defense—1 sem. hr. (adults)	June 12-July 7	Cucksee	35.00
Handball—1 sem. hr. (adults)	June 12-Aug. 16	Bossong	38.00
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Intermediate Tennis—1 sem. hr. (adults)	June 12-Aug. 16	Morris	38.00
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Archery—1 sem. hr. (16 & older)	June 12-Aug. 16	Shavor	35.00
Jogging for Fitness and Weight Control—1 sem. hr. (all ages)	June 12-July 13	Tinsley	35.00
Weight and Circuit Training—1 sem. hr. (16 & older)	June 13-Aug. 17	Williamsor.	35.00
Frisbee—1 sem. hr. (16 & older)	June 12-July 7	Monroe	35.00

To register, please fill out and return this registration form along with the proper tuition fee for the desired course. Some information concerning courses offered is not complete; please call the Division at 895-6010 for further necessary information. You may also write—send all inquiries and registration forms to the Division of Continuous Education, The University of Alabama in Huntsville, P.O. Box 1247, Huntsville, AL 35807.

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OFFICERS INSTALLED — Catholic Ladies of the Chapel recently installed new officers. L to R are; Cornelia Collette, Jeanette Schlernitzauer and Nancy Goss, who are leaving office, and new

officers Anne Jolinek, secretary; Millie Moore, vice prefect; and Jo Walker, prefect. With them is Chaplain (Col.) Frederick W. Straub, Staff Chaplain.

VA Counseling

The Veterans Administration has announced financial counseling services available without charge to veterans who fall behind in payments on their VA-guaranteed home mortgages.

William D. Davis, Director of the VA Regional Office in Montgomery, urged all veteran home owners to take advantage of the free financial counseling. "This new emphasis on person-to-person help could make a difference between successful home ownership and a veteran losing his home," he said.

The agency seeks to help veterans plan family budgets so they can keep current with their home mortgage payments.

Counseling services are available in the Montgomery Regional Office. This service may also be available in the veteran's home at the convenience of the VA traveler. Appointments may be arranged by calling 832-7083 in Montgomery.

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Time to Register Will Be Reduced

Voter registration has been made easier in Madison County.

Forms that could reduce registration time to five minutes are now available at the Madison County Courthouse and through the Huntsville Chamber of Commerce.

Applicants are asked for their name, address and social security number. They are also asked for the name, address and phone number of two other people who can verify the prospective voter's address.

If this information is available, registration time at the Board of Registrars is cut considerably.

The Huntsville Board of Registrars is located in the Courthouse. Hours are 8:30-5:00 Monday through Friday.

In 1978 the deadlines for registration are: 5 p.m. August 18 for the first primary, 5 p.m. September 15 for the run-off, and 5 p.m. October 27 for the general election.

This year Alabama will elect a Governor, Lt. Governor, a U.S. Senator, U.S. Representatives, State Senators and Representatives, and numerous state and local officials.

To qualify to vote in Madison County an applicant must be at least 18, a citizen of the U.S., a resident of the county, and free of conviction for a disqualifying offense as defined by Alabama law.

If a prospective Madison County voter is qualified, and is overseas, working,

enrolled in college or in military service outside Madison County he may register in his home county by mail.

Absentee registration forms are available as early as 60 days before an election from the Madison County Board of Registrars, Box 392, Madison County Courthouse, Huntsville, AL 35801.

Voters unable to vote at their regular polling place because of absence from their home county, or illness or infirmity that prevents them from attending the polls, may vote by absentee ballot.

Absentee ballots should be requested in writing not more than 60 nor less than 5 days prior to election.

Soldiers and their dependents may apply for absentee ballots on Standard Form 76 (Post Card Application for Absentee Ballot).

All absentee ballot applications must list the voter's age, sex, the polling place where he last voted, and the address where the ballot is to be sent. Separate applications must be submitted for each election in which the voter wishes to vote.

Requests for Alabama state and county ballots should be sent to: Registrar of the Circuit Court, Room 200 Madison County Courthouse, Huntsville, AL 35801.

Requests for City of Huntsville ballots should be sent to: Clerk-Treasurer, City of Huntsville, P. O. Box 308, Municipal Building, Huntsville, AL 35804.

Volleyball Champions

The German Air Force, playing a spirited and disciplined style of volleyball, came from behind in the final game of the play-offs to defeat Company B 15-13 to capture the company volleyball championship at the Post Gym Thursday night.

Trailing 11-3 at one point, the Germans called a time out to regroup the team. The move payed off as they scored eight straight points to tie the game before finally winning it a few plays later.

After posting a 14 win, no loss record in the regular season, the GAF went into the play-offs as favorites. But Company B played very well through the play-offs also, and gave the German team all the competition it could handle.

The first game played Thursday night was also a hard fought, close contest, as the Germans edged Bravo 16-14 in overtime. Clutch serving and good blocking at the net by both teams highlighted the game.

With the championship, the German Air Force moved into first place in the commander's cup standings. The cup will be awarded to the unit with the best overall sports record in 1978.



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Thiokol Tests GSRS Motor Design

Thiokol-Huntsville has completed a series of development rocket motor firings to evaluate low-cost materials and concepts, and to formalize the motor design for the Army's General Support Rocket System. Motors tested were flight weight and employed low-cost case and nozzle materials, a simplified ignition-closure concept and used low-cost HTPB (hydroxyl terminated polybutadiene) propellant.

All motor firings in the test series were successful, with ballistic performance close to prediction and high frequency pressure data confirming stable combustion. The

tests also proved the structural integrity of nozzles and other components.

In addition, the tests demonstrated that the propulsion system is compatible with the combined requirements of the U. S. Army and NATO nations. GSRS is being developed to complement cannon artillery during intense and sudden battle conditions.

Thiokol is part of a GSRS team with Boeing Aerospace Company as prime contractor, and Teledyne Systems Company and Honeywell, Inc., as team mem-

bers. The Boeing team is competing to develop the GSRS system and preparing for a "shoot-off" for a follow up contract. The program is directed by MIRADCOM.




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AFGE At ADPCP

Officers and shop stewards of AFGE Local 1858 attended a four hour Alcohol and Drug Abuse Prevention Control Program training session May 1.

The session was part of a continuing effort by AFGE to work with Redstone management to stem the abuse of alcohol and drugs on post.

Informed shop stewards and officials are essential to combatting this problem, according to Raymond Swaim, President of

Local 1858.

The primary responsibility of a shop steward is to help his colleagues with their careers. Although alcohol and drug abuse are personal problems, abuse often creates

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Carrier	38RQ027/28MQ030	16,500	2.03

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General Electric	BWR936A/BWE936C	22,000	2.57
York	CHPO36/CHPA36-A	21,000	2.66
Carrier	38RQ034/28MQ036	21,000	2.66

4 ton

HEAT PUMP MANUFACTURER	MODEL OUTDOOR/INDOOR	HEATING CAPACITY AT 17°F*	OPERATING COST 24 HRS./2.7¢ KWH
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Carrier	38RQ046/28MQ048	26,500	4.15

5 ton

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