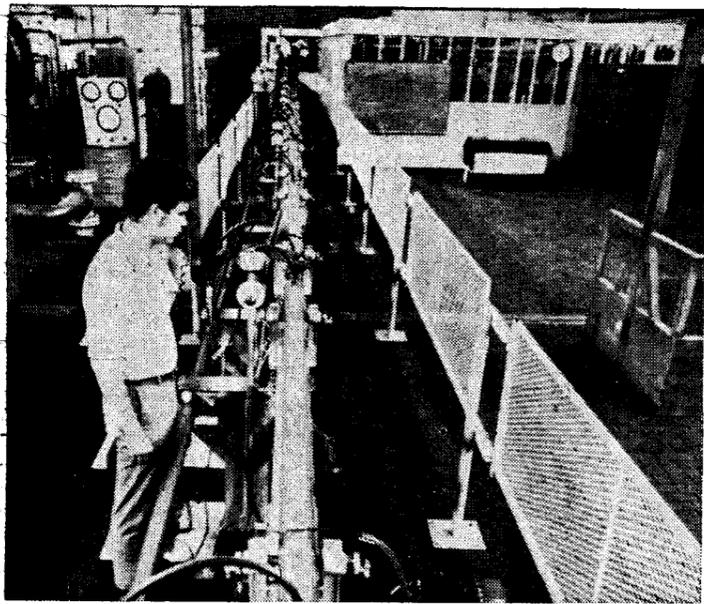


Missile Scientists Declare War On Hyacinths



LASER FIGHTS WEEDS—This 178 foot long laser is being used by Army Missile Command scientists as a possible weapon against aquatic weeds choking waterways. Richard Kendall, University of Tennessee Coop student, listens to directions from T. A. Barr, Jr., as they check the laser tube.

Army scientists at Redstone Arsenal are taking a close look at ways to kill harmful aquatic plants without polluting the water.

Working with Professor Richard W. Couch from Athens College, two Army Missile Command researchers — John J. Ehrlich and Dr. T. A. Barr, Jr. — have been experimenting for two years using lasers to destroy pesky water hyacinths.

Their findings, thus far, indicate that lasers have potential to control these aquatic weeds.

Many Alabama streams, and waterways throughout the South, are threatened by water hyacinths which obstruct water flow, interfere with navigation, prevent fishing and recreation and provide breeding places for disease carrying insects.

Although the Missile Command's primary role at Redstone is management of Army missile and rocket programs, its scientists keep an eye peeled for civilian applications of science and technology gleaned from missile research and development.

The experiment started in 1968 when the Army Corps of Engineers contacted the Plasma Physics Branch, Physical Sciences Laboratory of the Missile Command's Research and Engineering Directorate about the possibility of using a high power CO₂ laser for irradiation of certain water plants as a possible means of control.

Ehrlich, Barr and Couch, utilizing a 178 foot long laser built at the Missile Command for experimental purposes, conducted their first tests on water hyacinths in May 1968.

Water hyacinths were brought in from Lake Seminole, Ga., especially for the tests. Since no previous research of this type had been done with lasers, the team had to establish procedures as they progressed with the experiment.

First they exposed plants a maximum time until wilting and other changes were visible; next they tried minimum exposure well below the range where any visible effect would show up within minutes after the tests.

The first 16 tests involved dif-

ferent exposures and a variety of mirror configurations affecting the laser beam direction and area of exposure.

Following initial tests, 12 plant samples were taken to Auburn University, and to the Corps of Engineers, Washington, D.C. for observation. Four others were kept under observation at Redstone Arsenal along with one sample that had received no laser irradiation.

After six to eight weeks, irradiated plants turned yellow-brown and within two weeks died and sank. The one control plant died several weeks after the irradiated plants, but kept its healthy appearance even after the exposed plants had died.

As part of the experiment, plants were observed and given weekly changes of water and exposure to sunlight and fresh air to record the reaction.

While results of the first series of experiments were far from conclusive, they did indicate a possible control of water hyacinth through laser irradiation.

(See MISSILE SCIENTISTS, Page 3)

The Redstone Rocket

Published by Jack W. Hoffhaus, Hartselle, Ala., a private individual in no way connected with the Department of the Army. Opinions expressed by the publishers and writers herein are their own and are not to be considered an official expression by the Department of the Army. The appearance of advertisements in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

VOL. XIX; NO. 9

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA 35809

JULY 8, 1970

Arsenal-Wide

Spot News

Dial 112

AUSA Will Install Officers

C. C. Lee, an executive of the Thiokol Chemical Corporation, will be installed as president of the Tennessee Valley Chapter, Association of the U.S. Army, tomorrow night during the chapter's annual meeting.

Lee was elected recently in chapter balloting along with: C. H. Grace, first vice president; P. K. Schaepfi, second vice president; H. E. Meyer, Jr. Secretary; and J. J. Weed, treasurer.

Principal speaker for the occasion will be Stephen Ailes who served as Secretary of the Army Under President Lyndon B. Johnson. W. F. Eigenbrod, incumbent president, said Ailes would speak on a civilian subject.

The former Secretary of the Army is presently associated with a (See AUSA on Page 2)

No Fireworks At School Graduation Ceremonies

The Fourth of July is the time for sky rockets, fireworks, and celebrations marking the beginning of our nation. Although there were no rockets at the Fourth of July graduation of the Missile and Munitions Center and School, Thursday, there were two men representing the Rocket City.

JUDGE ALLGOOD SETS HEARING

Federal District Judge Clarence Allgood will hear arguments July 27 on the American Federation of Government Employees' action to enjoin the reduction in force at the U.S. Army Missile Command.

Local 1858, AFGE, has asked the court for a permanent injunction.

Judge Allgood, who refused to grant a union request for a restraining order which would have stopped the RIF, will hold court in Huntsville to hear the case.

Pfc William O. Duncan Jr., son of Mr. and Mrs. William Duncan Sr., 3613 Stagg Run Dr., was graduated in the light air defense system electronic repairman course. Duncan was graduated from Lee High School in 1969 and entered the Army in Sept. 69.

Pvt. Thomas L. Credille, the second Huntsvillian, is the son of Mr. and Mrs. Oliver C. Credille, 3301 Clopton St. Credille was graduated in the guided missile propellants and explosives course. Prior to entering the Army in May 70, he was employed by Automatic Electric, Huntsville. He and his wife, Ima Jean, reside at 2016 Summer St.

Three men captured top honors. Sgt. Lee-Yuan Yu, China, compiled a 96.9 in the Nike high power acquisition radar and radar simulator repair course; Sgt. Lennart Overballe, Copenhagen, Denmark, compiled a 96.1 in the Nike test equipment repair course; and Pfc Robert F. Hoinghaus of Kingston, Mass., achieved a 96.1 in the light air defense system electronic repairman course. Mr. Donald C. Maliskey, representing the Association of the United States Army (AUSA), presented all three with the AUSA award for outstanding academic performance. This award (See GRADUATION on Page 3)

Rohm And Haas Officials Get Army Praise, Awards

The Army honored 20 years of pioneering work in missile and rocket propulsion at ceremonies scheduled today with awards to the Rohm & Haas Company's Redstone Research Laboratories and three company officials.

BG George H. McBride presented the Army's Outstanding Civilian Service Award to Dr. Ralph A. Conner, chairman of the board, Rohm & Haas Company; Orville H. Loeffler, general manager of the Redstone Research Laboratories, and Dr. Henry M. Shuey, propulsion scientist.

The Deputy Commanding General of the Army Missile Command also presented the Certificate of Appreciation for Patriotic Civilian Service to Dr. Conner, accepting for the 250 members of the Red-

stone Laboratories staff.

Rohm and Haas has been engaged in rocket propulsion research for the Army here for two decades. The operation is being phased out during 1970. The Philadelphia based company agreed to undertake the research at the Army's request in 1949 but ruled out any commercial activities in the field of rockets and missiles.

Gen. McBride said: "These people have done the pioneering work on almost every solid propellant advance of the past 20 years. They have worked with us in a spirit of complete cooperation, so closely that other elements of the industry have paid them an ultimate compliment, accepting their evaluation, giving them, as we in the (See ROHM & HAAS on Page 2)



RECEIVES LEGION OF MERIT—MG Edwin I. Donley, Commanding General, U.S. Army Missile Command, presents the Legion of Merit medal to LTC Virgil L. Danielson, Staff Aviation Officer and Chief of the Army Aviation Branch at Redstone Arsenal. LTC Danielson received the award for his "outstanding contributions to the MICOM research and development program and his unprecedented improvements in the operational efficiency of the Redstone Army Airfield."

DASA HONORS JUNE RETIREES

Two employees of the Arsenal Support Operations Directorate were honored by Col. Preston B. Cannady, Director, at ceremonies conducted in the director's office.

Edgar T. Estes received his certificate of retirement for 22 years of federal employment. He was a steam plant operator in the Utility Division, Post Engineer.

Joseph J. Koczky was awarded his certificate for 26 years of employment. He was an aircraft mechanic in the Avia- (See AWARDS on Page 2)



"OVER EASY, CINDY!"—When the mercury hit 100 plus Thursday, Mrs. Cindy Klee, MMCS Protocol receptionist and SP4 Dave Broadway, Co. C, decided to see if it WERE "hot enough to fry an egg." The result? "Eggs-traordinary."

The Redstone Rocket

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

All advertising copy and payments therefor are received by Mrs. Vergie Robinson, P. O. Box 346, Huntsville, Ala., 35804, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wantads—is 10 a.m. Monday before publication.

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for the Rocket are \$7.42 a year, or \$4.00 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Huntsville, Ala. 35640.

Rocket Ruminations

In my opinion we are in danger of developing a cult of the Common Man, which means a cult of mediocrity. —Herbert Hoover

For The Job Hunter

On the first of June, the Department of Defense started a computerized man-job matching program for servicemen and women about to retire. The name of the program is Referral.

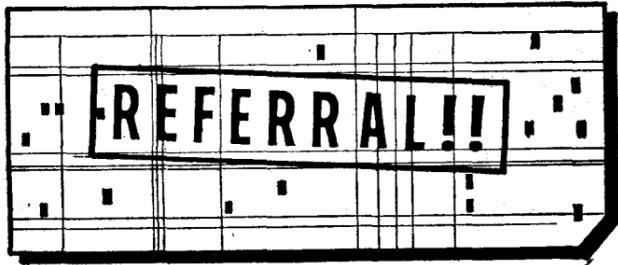
The Referral program was developed to tap the vast reservoir of unique skills and talents possessed by the 60,000 enlisted men and women and officers who retire each year. Most of them need and seek a full time second career.

Basically, Referral offers them a better means of communicating their employment desires to employers nationwide via a computer in Dayton, Ohio.

It works this way: Six months before a man retires, he seeks guidance from a Referral counselor at his base or station on post-service employment objectives, civilian job opportunities and job-seeking techniques.

After this counseling, the serviceman registers his skills and employment desires with the computer activity.

At the same time, employers from both the Government and



private enterprise are permitted access to the computer to list their employment needs.

The computer, after making a man-job match based on the input from the serviceman and prospective employers, will provide the name and brief resume of the retiree to the employers. After that, contact and detailed negotiations are left to the serviceman and the employers.

Referral retiree registration forms may be obtained at most military installations in the United States and in some overseas areas. In any case, base personnel offices should have information on where to obtain them if they are not available locally.

The Referral program is one that should rank high on the list of "things to do" by the man or woman facing retirement.

The program will not guarantee a job—that is up to the retiree and the employer—but it is the closest thing yet to an "electronic resume."

If you are nearing retirement, check into the Referral program. Spread the word on your name and skills to the nation's employers. (AFPS)

ROHM & HAAS

(Continued From Page 1)

Army Missile Command have, complete confidence."

Praising the "very substantial contributions" made to the nation's security by Rohm & Haas personnel, Gen. McBride said they had brought honor to their company and to the Army, "in the manner in which they came, in the manner in which they lived and worked so hard and so well for us and in the manner in which they are leaving."

In presenting the award and medal to Dr. Conner, Gen. McBride said he was the man most responsible for bringing his company into a long and successful partnership with the Army and added: "He honored a commitment

made in 1949 with 20 years of distinguished service."

Loeffler was recognized for his leadership of the laboratories from 1963 until 1970.

Dr. Shuey, who established an internal reputation for his advancement of solid propellant technology during his long tenure at the Redstone laboratories, was cited for "outstanding leadership and personal performance" which "materially aided" development of U. S. Army missiles.

Scotch Foursome

The Officers Wives Golf Group is sponsoring a mixed Scotch foursome on the Redstone Arsenal Special Services Course July 19, an annual event in which husbands participate and which ends with a buffet at the Redstone Officers Open Mess.



STEPHEN AILES
To Be AUSA Speaker

AUSA

(Continued From Page 1)

prominent Washington, D. C. law firm.

Another feature of the meeting will be recognition of and award presentations to local Department of the Army civilians who have served 30 days or more voluntary duty in Vietnam during the past 12 months.

Scheduled for this recognition are D. E. Spears, W. R. Self, G. R. Crabtree, J. L. Gray and Douglas Holt.

Newly elected directors of the chapter who will also be installed during the meeting are:

J. W. Monger, R. A. Peltier, and W. C. Edwards, Jr., terms to expire in 1971;

W. Slade, term to expire in 1972;

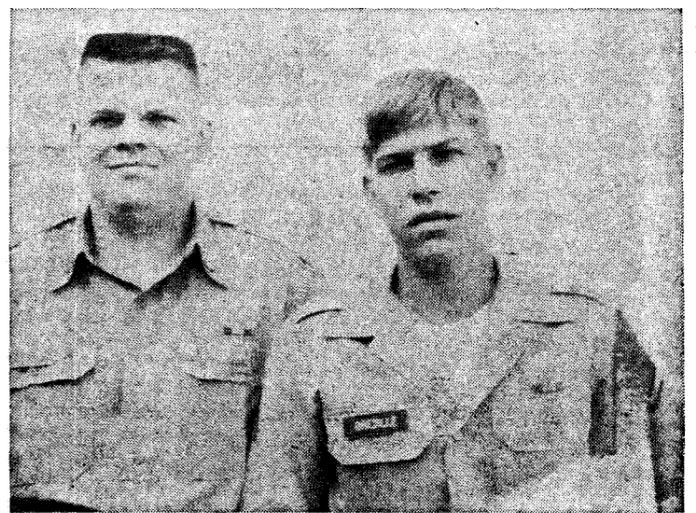
Dr. J. L. McDaniel, L. N. Hightower, D. C. Malisky and J. W. Walters, all with terms to expire in 1973.

Tickets for the annual meeting are on sale by present chapter officers and directors and the Missile Command Information Office.

FLIGHT SUIT TESTS

WASHINGTON (AFPS) — Air Force Aerospace Defense Command pilots may someday be wearing fire-resistant flight suits that are as comfortable as cotton flight garments and the safest ever used by military pilots.

Made from a fiber called polybenzimidazole (PBI), the suits will be evaluated by ADC's 4750th Test Squadron at Tyndall AFB, Fla.



PFC DUNCAN (left), and PFC Credille (right).

GRADUATION

(Continued From Page 1)

is presented only to those students who maintain an average of 96 or higher in their studies here at the school.

Guest speaker Maj. Millard D. Terry, instructor, Munitions Division, Directorate of Individual Training, USAMMCS, presented certificates of recognition to Maj.

AWARDS

(Continued From Page 1)

tion Branch of Transportation Division.

Employees, retiring at the end of June, but unable to be present at the ceremony include Gordon L. Thomas,

Benjamin Berry and Edward Clutts, all of Post Engineer.

Earlier during the month of June DASO employees to retire from federal civil service were Dallas R. Merritt, Reproduction Division;

Jessie Jackson, Consolidated Supply Division; Elise Fusch, Finance and Accounting; Norma S. Gant, Provost Marshal Division; Hubert L. Penn and John M. Tanner, both of Post Engineer; and James E. Harris, Harris T. Taylor and Mildred W. Aplin, all of Maintenance Support Division.

Mir-Mehdie-Sarshar, Tehran, Iran, having a 93.0 in the ammunition storage course; SSgt. Homer Owen Cherry of Scottsville, Ky., with a 95.3 in the Pershing guidance and control repairman course; SSgt. Wolfgang Harbecke of Germany, with a 92.4 in the Nike launcher control repair course; and Pfc David M. Druger, Ann Arbor, Mich., having a 93.1 in the wire missile system repairman TOW/Dragon course.

Maj. Terry concluded his speech with three challenges: "Continue to learn more about your job and the people with whom you work; develop and display individual pride of conduct, and enjoy that inner satisfaction that comes from a strong individual pride of performance."

ORGANIZE TOASTMISTRESS

TRI-NI Toastmistress Club recently organized at Volunteer Army Ammunition Plant, held its charter meeting Tuesday evening, June 9, at the Central YMCA, Chattanooga.

Officers installed were Grace Byrd, president; Mrs. Albert Merritt, vice-president; Mrs. Jack Swanson, secretary; Mabel Young, treasurer; and Mrs. William Frost, club representative. Norl Hamilton, Plant Manager, presented the gavel and LTC Deryl A. Sisson, Commanding Officer, presented the charter.

The club has sixteen members, Army and contractor, and is endorsed by Army and plant officials as a self-improvement program.

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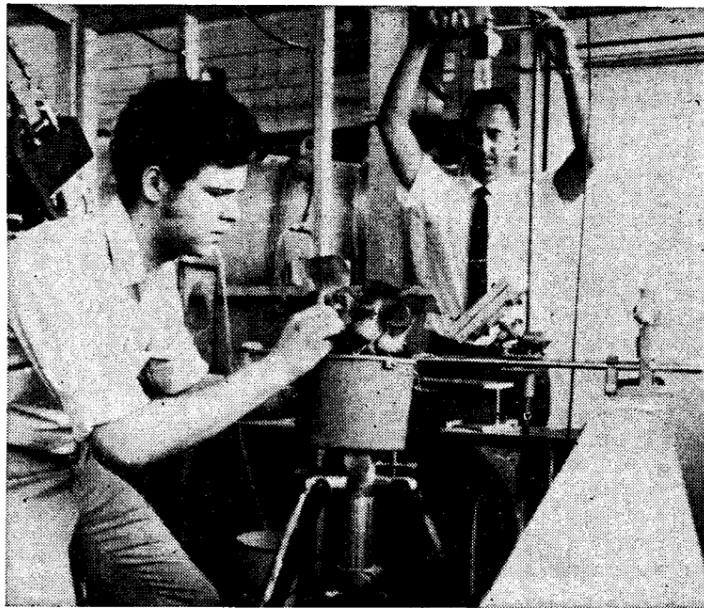
Wage Board Pay Schedule

| GR STEP | *Min Incr | WG-NON SUPERVISORY | | | WL-LEADER | | | WS-SUPERVISORY | | | | |
|---------|-----------|--------------------|------|------|-----------|------|------|----------------|------|------|------|-------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | 5 |
| 1 | .07 | 2.22 | 2.31 | 2.40 | 2.44 | 2.54 | 2.64 | 3.11 | 3.29 | 3.46 | 3.63 | 3.81 |
| 2 | .10 | 2.38 | 2.48 | 2.58 | 2.62 | 2.73 | 2.84 | 3.27 | 3.45 | 3.63 | 3.81 | 3.99 |
| 3 | .13 | 2.54 | 2.65 | 2.76 | 2.80 | 2.92 | 3.04 | 3.42 | 3.61 | 3.80 | 3.99 | 4.18 |
| 4 | .15 | 2.71 | 2.82 | 2.93 | 2.98 | 3.10 | 3.22 | 3.57 | 3.77 | 3.97 | 4.17 | 4.37 |
| 5 | .19 | 2.87 | 2.99 | 3.11 | 3.16 | 3.29 | 3.42 | 3.73 | 3.93 | 4.14 | 4.35 | 4.55 |
| 6 | .18 | 3.03 | 3.16 | 3.29 | 3.34 | 3.48 | 3.62 | 3.88 | 4.09 | 4.31 | 4.53 | 4.74 |
| 7 | .17 | 3.20 | 3.33 | 3.46 | 3.51 | 3.66 | 3.81 | 4.03 | 4.26 | 4.48 | 4.70 | 4.93 |
| 8 | .16 | 3.36 | 3.50 | 3.64 | 3.70 | 3.85 | 4.00 | 4.19 | 4.42 | 4.65 | 4.88 | 5.12 |
| 9 | .16 | 3.52 | 3.67 | 3.82 | 3.88 | 4.04 | 4.20 | 4.34 | 4.58 | 4.82 | 5.06 | 5.30 |
| 10 | .14 | 3.69 | 3.84 | 3.99 | 4.05 | 4.22 | 4.39 | 4.49 | 4.74 | 4.99 | 5.24 | 5.49 |
| 11 | .14 | 3.85 | 4.01 | 4.17 | 4.23 | 4.41 | 4.59 | 4.69 | 4.95 | 5.21 | 5.47 | 5.73 |
| 12 | .13 | 4.01 | 4.18 | 4.35 | 4.42 | 4.60 | 4.78 | 4.95 | 5.23 | 5.50 | 5.78 | 6.05 |
| 13 | .12 | 4.18 | 4.35 | 4.52 | 4.60 | 4.79 | 4.98 | 5.27 | 5.57 | 5.86 | 6.15 | 6.45 |
| 14 | .12 | 4.42 | 4.60 | 4.78 | 4.86 | 5.06 | 5.26 | 5.66 | 5.98 | 6.29 | 6.60 | 6.92 |
| 15 | .07 | 4.64 | 4.83 | 5.02 | 5.10 | 5.31 | 5.52 | 6.10 | 6.44 | 6.78 | 7.12 | 7.46 |
| 16 | | | | | | | | 6.61 | 6.97 | 7.34 | 7.71 | 8.07 |
| 17 | | | | | | | | 7.18 | 7.58 | 7.98 | 8.38 | 8.78 |
| 18 | | | | | | | | 7.80 | 8.24 | 8.67 | 9.10 | 9.54 |
| 19 | | | | | | | | 8.50 | 8.97 | 9.44 | 9.91 | 10.38 |

Shift Differentials: 2d Shift, 10c 3d Shift, 15c

*Upon mechanical conversion to the CFWS each non-supervisory, leader and supervisory employee will receive an increase over his current aggregate rate of pay which is no less than the amount shown for his new grade in this column except that the minimum increase for each supervisory employee in grades WS 11-19 will be \$.14.

If special rates are required by Section 4 of PL 90-560, Oct. 12, 1968, such rates will be authorized later, effective retroactively beginning the first pay period on or after June 22, 1970.



SET THEM UP—Richard Kendall sets a bucket of water hyacinth into place as scientist John J. Ehrlich adjusts a mirror to direct the beam of the 178 foot long laser at the aquatic plants. Experiments in the control of aquatic plants by laser are being conducted at Redstone Arsenal.



WATER HYACINTH—A PEST—Richard Kendall checks water hyacinth plants that are to be exposed to laser irradiation. This experiment is being conducted by John J. Ehrlich and T. A. Barr, Jr., both of the Missile Command and Professor Richard W. Couch of Athens College.

laser irradiation did produce lethal responses and ill effects on water hyacinth. While the exposure did not eradicate the plants, the irradiated plants produced smaller daughter plants and actually fewer numbers.

These experiments conducted on more than 1,200 plants show that laser treatment has potential for the control of spring and early summer-treated water hyacinth plants without pollution of the environment.

New experiments now underway are aimed at a method of treatment that will kill daughter plants along with the parent.

Ehrlich and Barr pointed out that the CO₂ laser currently used in the experiments is capable of killing only the plants above the water. Plans are now underway to construct a copper vapor laser that will be effective against submerged plants.

Although their experiments have been conducted using the 178 foot-long laser scientists say there exists within the state-of-the-art capabilities to make a 10 kilowatt laser that will fit on the back of a 2½ ton truck or on a small barge. This mobility will allow lasers to be taken into remote areas for the treatment of water weeds.

To Fly On Standby, Rules Are Unbendable, Explicit

Airlines have complained that some military personnel are attempting to circumvent the eligibility requirements for flying on reduced military air fares.

To be eligible for the reduced fare, personnel must be on active duty as a member of the armed forces or a cadet of the respective academies, on official leave or within seven days of discharge. They must be travelling at their own expense, in uniform.

To obtain the privilege of traveling military standby on commercial airlines, the individual needs an approved DD Form 1580, military standby authorization for commercial air travel, as a means of identification. The form must be signed by his unit commander who certifies the individual meets the eligibility requirements. Enough copies of the form must be carried by the traveller to furnish one copy to the ticket issuing agency, and one copy with the stewardess on each flight.

The principal complaint of the airlines concerns individuals who try to obtain a waiver from the

requirement that travel must be in uniform. Ingenuity is used by some who produce memoranda and other devices to get around the requirement. It doesn't work.

Another complaint is the improper preparation of DD Form 1580. Airlines are now threatening to withdraw the concession of reduced fares on military standby, a voluntary concession on their part, if abuses continue because it will become too expensive administratively and too time-consuming for airline personnel.

The voluntary concessions of scheduled air carriers explicitly spell out the eligibility requirements with no exceptions included in the tariff provisions.

Another complaint by the airlines, is that some people on temporary duty status attempt to obtain the reduced fare. Unless travelling at their own expense with the proper furlough or pass papers in hand, even in uniform, an individual is not eligible for the reduced air fare.

MISSILE SCIENTISTS

(Continued From Page 1)

As a result of the tests, a research program and a second series of experiments were scheduled at the Missile Command.

In 1969 the second series of experiments by Ehrlich, Barr and Couch were initiated to determine: (1) minimum laser energy required for damage, (2) type of damage to plant, and (3) variation in damage due to seasonal and/or physiological age of plants at the time of application of laser energy.

During the second series, plants received from Lake Seminole, were acclimated at Athens College and then brought to Redstone Arsenal for irradiation. Some plants were put in a control pool at Redstone to allow for comparison and observation.

One of the problems encountered was that while the exposed and irradiated portions of the plants turned brown and died, new growth began to emerge from the meristematic area of the water hyacinth plant which is located just beneath the surface of the water.

After 10 weeks, irradiated plants were all dead or dying and the only living plants were the daughter plants that had been produced between the treatment time and the time the irradiated specimens died.

The second series showed that

School Record Is Good In Savings Bonds Bought

"A penny saved is a penny earned," so said Benjamin Franklin.

Some hundred years later, the same is holding true. At least at the Missile and Munitions Center and School, where the military personnel are participating in the U.S. Savings Bond program.

According to reports filed with the school's Office of Information

Earn Certificates

Four employees of the Army Missile Command have completed extension courses under the supervision and guidance of the Training and Development Division of the Civilian Personnel Office.

James E. Welch of the Supply and Maintenance Directorate completed the Military Comptroller-ship Extension Course which required 178 hours of study.

Glenda M. Elrod, Christina G. Corder and Paulette E. Steelman, all employed in the MICOM Chief Counsel Office, completed the Defense Procurement Management Extension Course, involving 132 hours.

All were presented certificates of completion and were commended by their supervisors.

several units of the \$100 million global training center have attained 100 per cent participation.

At Unit Training Command, the 509th Ord. Det., has a participation rate of 100 per cent while in School Brigade, Co. D leads the parade with all permanent party personnel participating. Also, 2nd Bn. reports that all units have a 100 per cent participation.

A report from the 2nd Bn. also indicates that 96.3 per cent of the students assigned to the Enlisted Training Companies are participating. The unit has 617 students in residence with 594 saving through the Savings Bond program.

The overall school participation in the program, which includes civilian employees, is 93.1 per cent during the third quarter of Fiscal Year 70. The participation figure tops both CONARC and Third Army figures.



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Everyone Has PROMAP-70 Programs But Ray Walker Has Them Doubled

The Army Materiel Command has PROMAP-70.

The Safeguard System Manager has an allied project called the Safeguard Program for Improvement in Weapons System Acquisition.

And Ray Walker has . . . both.

Walker keeps up with both programs for the Safeguard Logistics Command, concerned with both programs because it is an AMC subordinate command working solely to support Safeguard.

There are primary elements common to both parties.



"Boiled down to simple terms, the goals of both are to get everybody associated with materiel acquisition to do a better job, especially in the procurement area," Walker said. "After all, 50 percent of the logistic function is based upon procurement and our ultimate objective is to obtain what we need at the lowest overall price

to the Government.

"SAFLOG is placing emphasis in the areas of procurement, cost analysis, and personnel selection and development. We're currently establishing a cost analysis capability to develop a data base consisting of the life cycle cost history of similar missile systems and actual experience to date for the Safeguard system. We analyze this historical data and develop cost factors and cost estimating relationships for use in cost estimating for the Safeguard program. In the long run, we feel that cost factors and estimating relationships for Safeguard programs will provide a sound basis for more effectively validating life cycle cost estimates for future systems."

His goal in the SAFLOG Cost Analysis Office is to select exceptionally well-qualified personnel for each job and to keep them abreast in the cost analysis field through training and implementation and use of current business management concepts. As a part of this effort, Walker recently completed a five-week course in "Cost Estimating Techniques for Systems Acquisition" at the U.S. Logistic Management Center, Ft. Lee, Virginia.

He monitors PROMAP-70 to keep informed on what is being done and to take advantage of the experiences gained by other Army

Materiel Command elements."

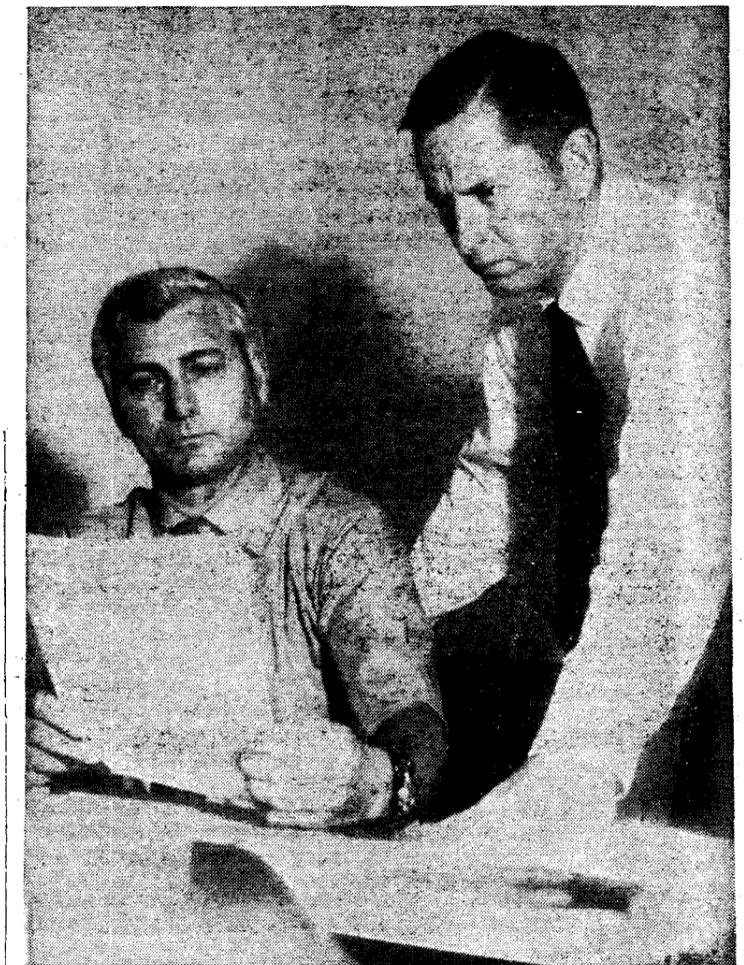
He is the chief of the Cost Analysis Office in the Comptroller and Director of Programs organization at SAFLOG. He has a bachelors degree in accounting from the University of Alabama and a masters degree in comptrollership from Syracuse University. Before he moved to SAFLOG in 1968, he was employed in the Missile Command Special Review Office.

TOASTMISTRESS WILL INSTALL NEW OFFICERS

The Redstone Toastmistress Club will install new officers at the July 15 meeting in the Redstone Officers Open Mess.

The officers-elect were selected at the first meeting this month. The theme of that meeting was "Footprints in the Sands of Time." The charter president, Mrs. Jack McConaha, received the best speaker award with her autobiography. The topicmistress, Mrs. Murray Gibbons, has retired from the Army Missile Command and so served her final assignment as an active member.

Officers-elect are: Miss Belle Wood, president; Mrs. John Pond, first vice president; Mrs. W. W. Seward, second vice president; Miss Wanda Jennings, secretary; and Mrs. Gaston Boyd, treasurer. Miss Barbara Simmons will be the



DO IT BETTER—Ray Walker (standing) and Bob Clancey ponder a problem as they work together implementing both PROMAP-70 and the Safeguard System Manager's counterpart program to improve materiel acquisition. Walker rides herd on both programs for the Safeguard Logistics Command.

club representative.

The Redstone Toastmistress Club is a training organization to develop skill in communication and leadership.

NEW EVALUATION FORM

WASHINGTON (AFPS) — The Army will phase in a new evaluation form for enlisted men beginning July 1.

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Survey Shows Minorities Increasing In Federal Jobs

Negroes, Spanish-surnamed Americans, American Indians, and Oriental Americans are moving upward in Federal jobs, the Civil Service Commission reported recently. They now hold more of the better paying jobs than they held in any previous period covered by a minority survey.

Preliminary results of a minority employment survey conducted last November 30 show that while total Federal employment declined by over 20,000 positions between the 1967 and 1969 surveys, the number of minority employees in Federal jobs increased from 496,672 in 1967 to 500,536 in November 1969 — from 18.9 percent to 19.2 percent of the work force. The overall increase of minority employment reflects an increase of over 4,500 Spanish-surnamed Americans while employment of the other minority groups remains essentially the same. However, Negro employment increased in all major pay plans except Wage System jobs.

In grades GS-5 through 15, the numbers of minority employees increased at a rate three to five times the rate for non-minorities, due in part to the extension of recruiting efforts to additional sources of minority candidates and in part to the promotion of minority employees already on the rolls.

In grades GS-5 through 8 minority employees increased by 16.8 percent, in grades 9 through 11 by 27.1 percent, in grades 12 and 13 by 36.4 percent, and in grades 14 and 15 by 48.4 percent.

At the executive levels of the career service, grades GS-16 through 18, there was a net decline of 173 positions; however, minority group employment increased by 10, from 87 to 97. In the lowest grades of the classified service, GS-1 through 4, there were decreases in total employment, in minority employment (down 10.4 percent), and in non-minority employment (down 17.4 percent).

Commenting on the movement of minority employees into middle and senior level jobs, CSC Chairman Robert E. Hampton said, "These gains by minority employees reflect in part the new efforts under the Executive order signed by President Nixon last August. We must now see that

these advances continue as the new EEO program administered by the Commission achieves full momentum in all Federal installations. To assure this, we will shortly issue new guidance to agencies to further enhance upward mobility of Federal employees." In noting that the number of minorities holding top career positions is still low, Chairman Hampton remarked on the need for continuing efforts at these levels.

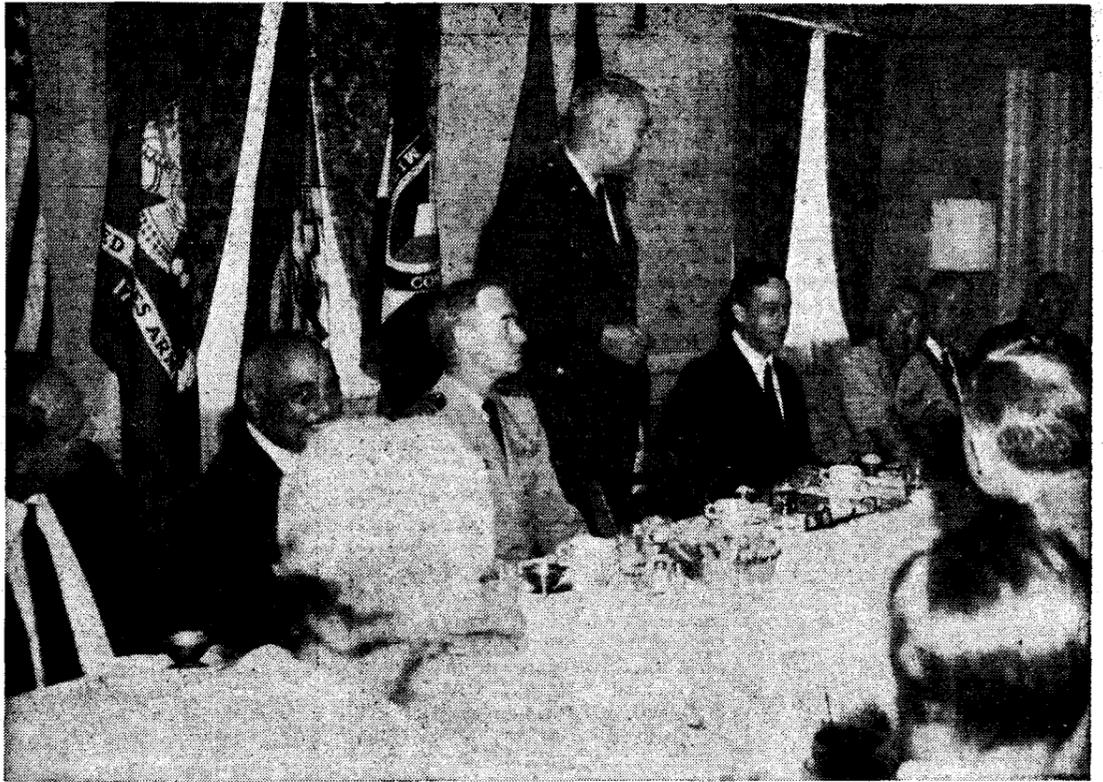
The data released today showed that in the Postal Field Service there were slight increases in both total employment and minority employment. Minority employees made slight gains in grades PFS-1 through 5. At PFS-6 through 9 their rate of gain was significant, with an increase of 45.3 percent over 1967.

Wage System employment (blue-collar workers in trades, crafts, and laboring jobs) decreased by 42,000 positions between 1967 and 1969 surveys. Roughly a third of the decrease (13,500 jobs) was among minority employees. Nevertheless, there was an increase in the proportion of minority employees holding positions at middle and upper salary levels.

The percentage of minority employees paid under systems other than the General Schedule (GS), Postal Field Service (PFS), and Wage System increased by nearly 50 percent while non-minority employment decreased by 2.7 percent.

At the time of the 1969 survey, Negroes held 389,251 Federal jobs, as compared to 390,842 in 1967. They comprised 15 percent of the total Federal work force, slightly above the 14.9 percent reported in 1967. Primary gains by Negroes were recorded in the middle and upper grades. For example, Negroes at grades GS-9 through 11 totaled 16,318 in 1969, a 29 percent increase from the 12,631 reported in 1967. At grades 12 through 15 their numbers rose from 4,589 to 6,448 for a 40 percent gain.

Spanish-surnamed workers showed numerical and percentage gains. Their employment increased from 68,945 in 1967 to 73,619 in 1969. They accounted for nearly 12 percent of the net gain in General Schedule jobs although they



LUNCHEON SPEAKER—Brig. Gen. George H. McBride (standing) addresses graduates and guests during recent ceremonies for students completing the National Security Management Course conducted by the Industrial College of the Armed Forces. Left to right are: Paschal Redding, founder of the local Reserve Officers School; Benjamin Keyserling, director of the security course; Capt. P. R. Ray, director of Correspondence Courses for the college; Gen. McBride; T. Martin Phillips, commandant of the Reserve Officers School; Col. Gilbert Levy, commandant of the Missile and Munitions Center and School; Dr. Martin Reichley, educational advisor at the college; and John Hinkle, director of training in the Missile Command Civilian Personnel Office.

Red Cross Offers Basic Safety Tips

WASHINGTON (AFPS) — The millions of sports fishermen are reminded by the Red Cross they should know basic first aid and how to swim before pursuing their sport.

The Red Cross also offers these safety tips:

Before going fishing check the weather and dress properly.

If fishing alone, leave word where you will be and when you will return.

When fishing in a stream, wade cautiously and avoid stepping on slippery or loose rocks.

Fishing equipment such as needle nose pliers, wire cutters and a

pocket knife should be kept in a tacklebox. Fishhooks often hook the angler and others nearby, so keep hooks in a covered container. Learn how to hold a fish properly while extracting a hook, and when casting, be sure there is room to do so without snagging someone.

If a hook becomes deeply imbedded in a person, cut off the line, bandage the wound and seek medical help immediately.

SERVICE CLUB

The Service Club has scheduled a tour to Little River Canyon near Ft. Payne, Saturday for a swim and picnic.

Located in Desoto State Park area, Little River Canyon is the deepest gorge east of the Rockies with Little River meandering on its floor to make it one of the most scenic drives in east Alabama.

The bus will leave the Service Club at 9 a.m.

TV RENTALS

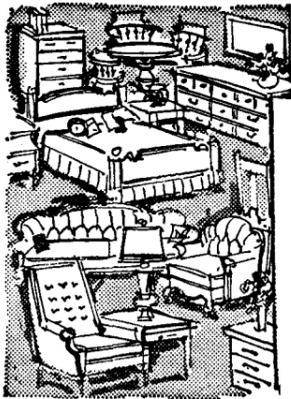
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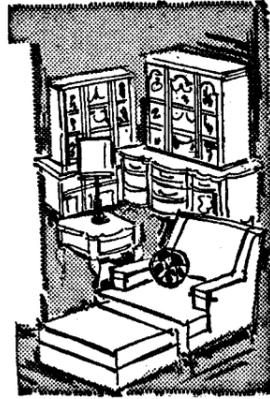


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Co. A Halts Police Behind Brooks' Masterpiece

John Fletcher's Single Ruins Bid For No-Hitter

City councils ban movies; state legislatures remove undesirable books from school libraries; but never has a name been banned.

But at the 291st MP Co. anyone mentioning the name of Charles L. Brooks could end up with extra patrol duty. Brooks, a tall lanky softball player, pitched Co. A to a 3-0 upset of the nightsticks in the Redstone unit level softball competition.

The loss was the first for the MPs this season.

The usually hot and heavy bats of the MPs were silenced as Brooks mowed down the MPs on just one hit and struck out 15 batters.

In other league action, 5th ETC slaughtered 7th ETC 15-1, Hq. Co., UTC stunned Co. D 13-6 and Co. C squeaked past SOC 13-10.

Co. A. scored two runs in the second inning on singles by Ron Morgan, Richard Irons, Jackie Charboneau and General Viverette. After going scoreless for two stanzas the Alpha nine pushed across another run in the sixth when Morgan collected his second hit for the night. He scored on a double by Dick Irons.

The MPs got its hit in the first inning on a single by John Fletcher. The policemen had only one

runner to advance past second base.

The fighting 5th spotted the 7th to one run in the second inning and then turned on the fireworks. The 5th unleashed a barrage of hits that included a double, a triple and a home run by Melvin Calhoun. Also joining the list were singles by Carvis Harlow, Dave Stewart, Clifford Hogan and Richard Neusse. Ralph Elder added a triple and a two-bagger in the 13 hit attack.

The 7th ETC was limited to three hits. The 7th's lone tally was scored in the second inning on Awin Van Zee's single bunched around walks and wild pitches.

UTC sent 14 men to the plate in the fifth inning against Co. D scoring eight runs enroute to a 13-6 win. Singles by Joe Colon, Howard Bakowski, Ray Sweet and Ron Lockwood coupled with five free passes and miscues afield provided the fireworks. Lockwood also had a double.

Co. D scored its runs in the second and third on singles by Dave Armstead, John Pinkerton, Jim Wedge and Steven Wilson.

Bill Marino relieved William Chairsell to put out the SOC fire and save a win for Co. C.

SOC pounded out ten hits off Chairsell before he gave way to Marino. Errors afield and sleeping base runners were the SOC pitfalls.

Co. C was also guilty of sleeping on the base paths. On three occasions runners were doubled up on lingers to the outfield. Co. C collected 11 hits of SOC pitching.

Pitching Rivals Named To Stars

The two pitchers that opposed each other in the final game of the Little League season on post will be team mates when the Redstone All-Stars begin play in the Little League district tournament later this month.

Terry White of the Hawks and Fred Ruttencutter, who hurled for the Ajax in RSA play, are among the sixteen players selected for positions on the All-Star team.

The Redstone youths will take on the Huntsville National League entry in the tourney debut. The game will be played July 24 at Arsenal diamond No. 3.

Each of the Arsenal finalists placed three players on the team as did the Sprints. The Rockets and the Nikes placed two players apiece with the Hercs claiming a single slot.

White is joined on the team by team mates, Kevin and Bill Males, while Ronnie Hollingsworth and John Foster are the Ajax selections along with Ruttencutter.

The Sprints are represented by William Hawkins, Mark Ikemire and Manuel Zaccheus while Jeff McDaniel was named from the Hercs.

Dave Samanigo and Roy Wickersham are Rockets players named and Mickey Willis and Mickey



BIG JUMP—The Safeguard girls softball team has made a big jump to second place in the Huntsville Industrial Girls softball league this season. Winners of ten out of thirteen games, the ABM team trails only the Missile Command with two weeks remaining to be played in the regular season schedule. The two Civilian Welfare Fund-sponsored outfits will close out the regular schedule with a game at the Boeing Field next Wednesday evening. The Safeguard team members are, front row, left to right, Carolyn Cramer, Rosalyn Mood and Janice Noble. In the middle row are, Carolyn Bell, Fay Tapper, Gretchen Bigham, Claudelle Griggs, Barbara Williams and Linda Johnson. In the rear are, coach Bob Bell, Kathy Ranegar, June Childress, coach Tim Cramer, Janice Barnett and Manager Floyd King.

No Fishy Tale—Southern Fish Grow Larger

Old anglers' tales are like old wives' tales in that they are often true.

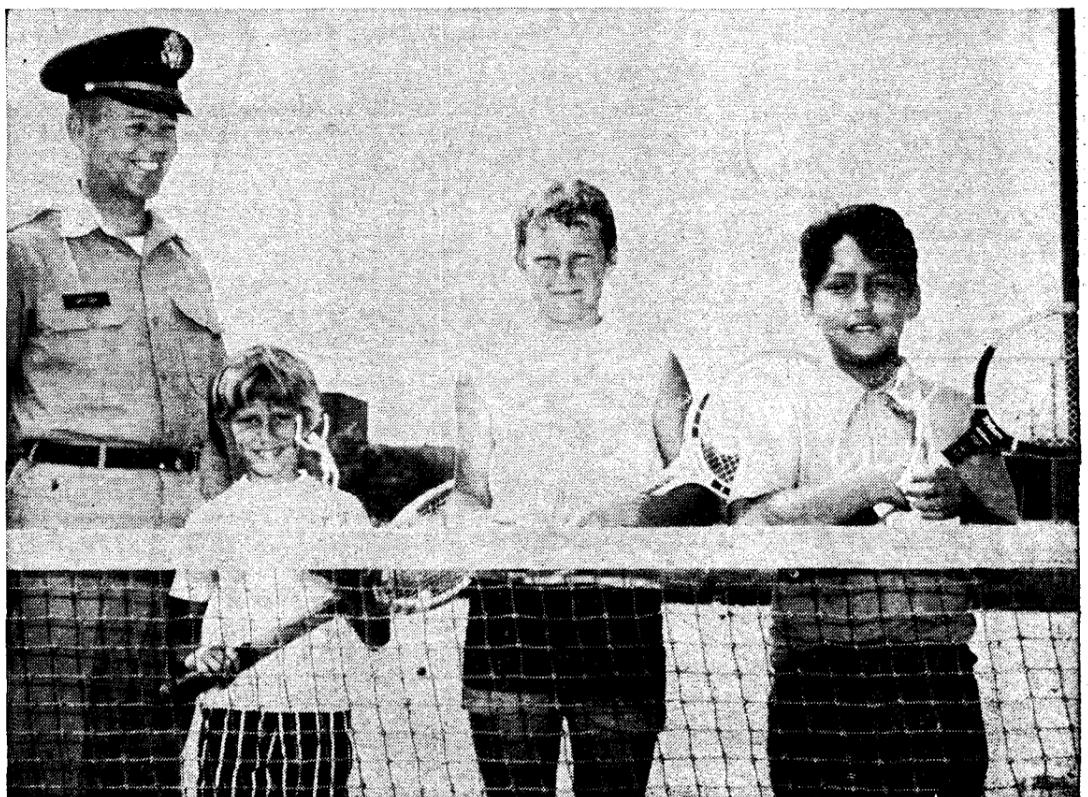
One such fishing adage is the belief that fish in southern states grow bigger than do fish in northern states. While, in many cases, this appears to be true, the angling experts say that it's not because Yankee fish are different from southern fish—it's simply a matter of environment.

Fish growth rates are more flexible than those of most other animals. If conditions are unfavorable, fish may live for years with little or no growth. Then, if conditions change, these same fish may grow again. Fish have the ability to grow rapidly whenever their environment is favorable.

Biologists say that the major cause of slow growth in a fish population is overcrowding. Too many fish in a lake or stream cause a shortage of food. The result is an abundance of small fish, with occasional large fish. Also, like animals, overcrowding has some psychological effect on fish.

A second important factor affecting fish growth is water temperature. Most fish do not grow in winter. Water temperatures must usually be over 60 degrees for bass and sunfish, at least in the upper 50s for pike and trout. And growth rates increase as water temperatures increase, up to certain limits. Bass will feed in nearly 80 degree water, while trout stop feeding at 70 degrees.

Because of longer growing seasons and higher average water temperatures, most fish grow more per year in the south than they do in the north. Despite this, say the experts, northern anglers can take consolation in the fact that northern fish live longer than do southern fish. (AFPS)



TENNIS WINNERS—The best tennis players for the month of June pose for a picture after being presented with trophies. The awards are being made monthly to youngsters who show the most improvement in the game during Youth Athletic Program this summer. Trophies are awarded in two age groups, 8-12 and 13-17 years of age. Col. A. J. Grigsby, director, made the presentations to (left to right) Judy Sullivan, Anne Toothser, and John Sadstrom. The other senior winner was Richard Aldenderfer.

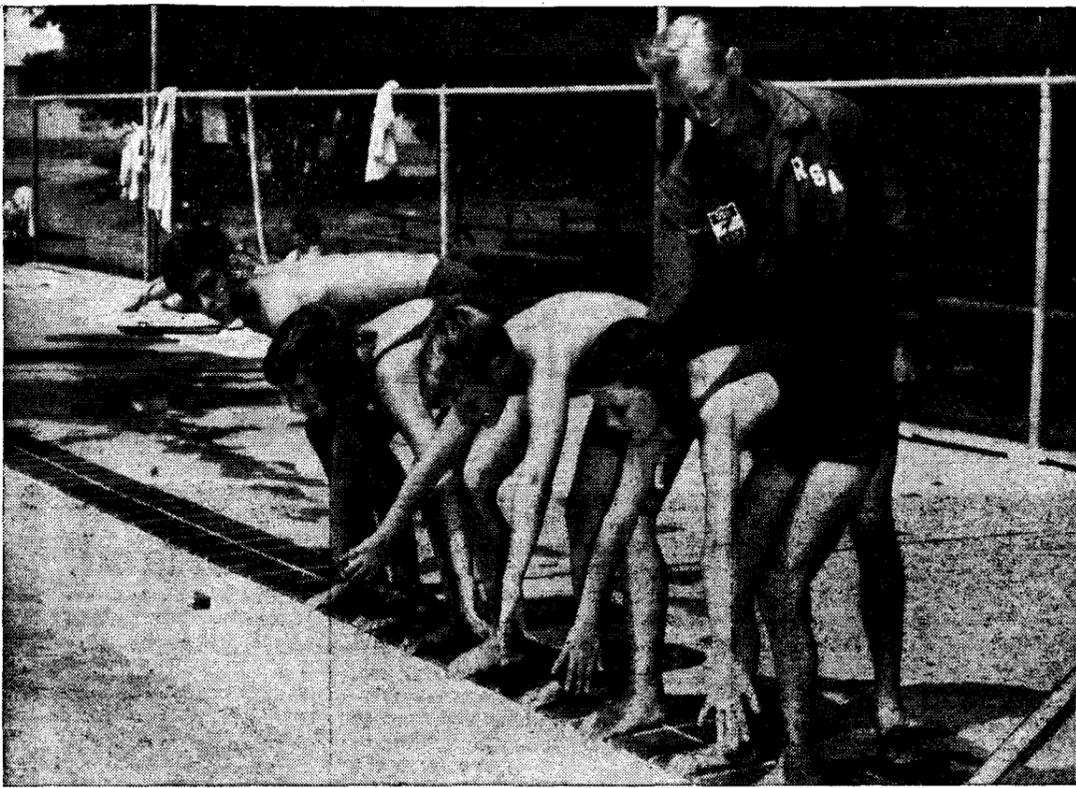
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Huffman are representatives of the Nikes.
 The first alternate named for a place on the team is Ronnie Robinson of the Hawks and Deryl Carroll of the Rockets is the second alternate.



STANDOUT SWIMMERS—This quartet of consistent point makers will be trying to provide the spark for the first Redstone win in the Rocket City Swim League's C Division tonight. The dependent youths will host the McCormick YMCA team in a 6:30 meet at the Entitled Men's pool. Shown with Coach P. F. Thomas during a practice session are, left to right, Don Page and Ginger Stephens, both of whom swim in the 17 and under class, Bill Stephens and Cheryl Sullivan, standout swimmers in the 14 and under category.

Deep Freeze Operation Will Postmark Covers

WASHINGTON (AFPS) — Philatelists may have covers postmarked at South Pole and Byrd Station in Antarctica and aboard Deep Freeze ships which operate a post office during the 1970-1971 Antarctic season.

Collectors are limited to one cover per person to be postmarked at Byrd Station, South Pole Station, and from each Deep Freeze ship operating a post office. If a cancellation is desired from only one station, the word "Byrd" or "Pole" should be written in the lower left corner of the cover.

Byrd and South Pole Station postmarks may be obtained by placing two addressed covers bearing United States postage at the letter mail rate in an envelope and mailing them to:

DEEP FREEZE Philatelic Mail, U.S. Naval Construction Battalion, Davisville, R.I. 02854.

Philatelic mail to be postmarked at Byrd and South Pole Station must reach Davisville not later than Sept. 1, 1970, in order to be processed during the Deep Freeze '71 Antarctic winter. The postmarked covers should be received by the collector between October 1971 and March 1972.

Cancellations may be obtained

McCormick Tests Arsenal Tankers

Redstone Arsenal swimmers will join more than 1,000 city youngsters in a day long program of races Saturday at Big Spring Community Center, the first of two such all-city events this summer.

Sponsored by the Rocket City Swim League and the City Department of Parks and Playgrounds, the meet is an all-relay affair with teams of four boys and four girls in five age groupings competing in five events. Swimming begins at 8 a.m. and will continue throughout

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- USCGC Westwind
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- USCGC Staten Island
FPO Seattle, Wash. 98799

The cutoff date for submitting covers to the shipboard post offices is Nov. 13. The ships will return the postmarked covers during the operating season as "expeditiously as postal backlogs permit."

Philatelic mail will be returned unprocessed when more than the authorized number of covers is submitted, if it appears that a commercial motive is involved, if covers are received after the cutoff dates established above, or when covers are submitted to Deep Freeze ships or units which do not operate a post office.

the day. Redstone's team hopes to find better going in the relay events than it has so far in the RCSL dual meet schedule. Halfway through the season, Redstone is still looking for its first win.

Last week the arsenal squad lost to high-flying Byrd Spring, currently sitting atop the league's "C" division with a perfect record, a position they share with McCormick "Y." Redstone hosts McCormick tonight in a race scheduled to begin at 6:30 p.m.

YOUTH SPORTS PROGRAM

Schedule for Week July 13 thru July 18

| Time — Activity | Location |
|---|-----------------------|
| 8:00 a.m.—12 noon daily—Tennis Clinic | Officers' Club Courts |
| 8:00 a.m.—9:00 a.m. daily—Swimming (Girls) | EM Pool |
| 9:00 a.m.—10:00 a.m. daily—Swimming (Boys) | EM Pool |
| 8:00 a.m.—12 noon M-W-F—Gym Activities (Girls) | Workout Facility |
| 8:00 a.m.—12 noon Tu Th—Gym Activities (Boys) | Workout Facility |
| 8:00 a.m.—12 noon daily—Playground Activity | Playgrounds 1 & 2 |
| 1:00 p.m.—5:00 p.m. daily—Playground Activity | Playgrounds 1 & 2 |
| 1:00 p.m.—5:00 p.m. daily—Water Safety Tenn. River Boat Docks | |
| 5:00 p.m.—7:00 p.m. daily—Baseball (11-12 year olds) | Baseball Field 1 |
| All-Star Practice | Baseball Field 1 |
| 8:30 a.m.—12 noon Thurs.—Golf Clinic | RSA Golf Course |
| 1:00 p.m. Daily—Rangerette Practice | Baseball Field No. 1 |
| 6:30 p.m. Wed.—Swimming Meet | RSA at Holiday Homes |
| 10:00 a.m. Saturday—Bowling Registration | RSA Lanes |

Redstone Youth Cops Third Place In Junior Golf

Two regular members of the YSP's golf clinic at Redstone distinguished themselves recently with their play in the Southeastern Junior Tournament staged in Atlanta.

The two 14-year olds, Brad Shuput and Joel Lau, were among the 78 junior players invited to participate in the 54-hole meet at the Flat Rock Country Club. The meet is sponsored jointly by Athletes in Action and the Georgia Presbytery.

The Redstone youths both qualified for the first flight and each was among the leaders after the first two rounds. Shuput finished

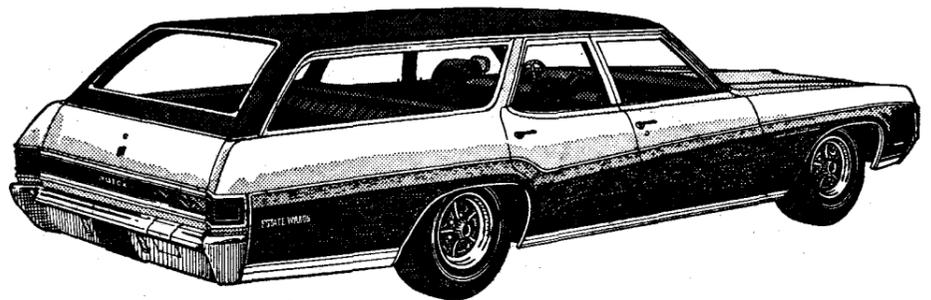
strong with an 84 to take third in his flight while Lau faltered in the final 18-hole round and failed to place.

Qualifying Set For Medaris Cup Tourney

Qualifying rounds in the Ginna Medaris Annual Golf Tournament are scheduled July 17 despite the uncertainty about the regular greens being playable.

The Arsenal course, like others in the area, has been using temporary greens while new grass is being cultivated on the regular greens.

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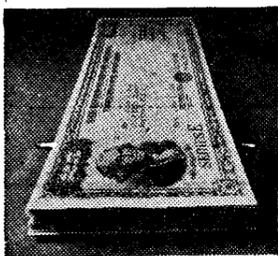
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Wildlife Refuge Spills Onto Arsenal And Offers Safer Wildlife Sanctuary

DECATUR—"If we had a welcome sign over the gate, I guess it should read 'Welcome to Wheeler Refuge, the land of geese and rockets'."

The words are those of Thomas Z. Atkeson, manager of Wheeler Refuge, and they accurately summarize a relationship formalized almost 30 years ago that linked waterfowl and guided missiles in a unique bond.

Running eastward along both banks of the Tennessee River from Decatur, the 34,500 acres of Wheeler Refuge include about 4,000 acres of Redstone Arsenal, home of the Army's missile and rocket program.

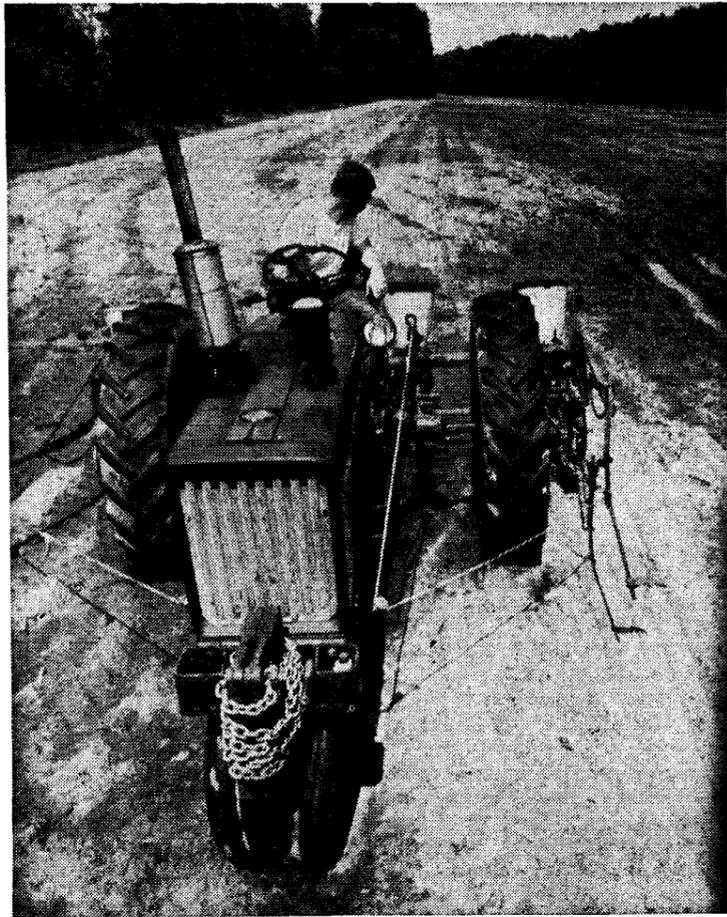
Each fall myriads of migrating ducks and thousands of Canada geese find their way unerringly back to Wheeler. Many of them settle happily on the mud flats of Huntsville Spring Branch and Indian Creek two streams which cross the Arsenal, come together and flow south into the Tennessee River.

Resting there, they are safe for the winter inside the refuge boundary, perhaps rising in momentary alarm occasionally when small Army missiles and rockets flash down nearby firing ranges and detonate their warheads against armor-plated targets.

The relative quiet afforded the migrating waterfowl on Redstone becomes increasingly important with each passing year as civilization pushes elsewhere against the once wild boundaries of the wildlife refuge. An interstate highway is being built across prime waterfowl areas of the refuge at Mooresville, a large recreation complex will soon open at Point Mallard across the backwater in sight of the refuge headquarters on Highway 67.

The guarded confines of Redstone provide a secure haven for Wheeler's winter guests and continued assurance to the growing number of people who fear the day when man and his works might end for all time the majestic sight of "Vees" of big honkers trading up and down the river in the fading light of a winter afternoon. The flocks fly off the Arsenal to feed, return to rest.

There's a certain irony in all this because when the Army first acquired land southwest of Huntsville in 1941 to build adjoining arsenals—Huntsville and Redstone—later consolidated, no one was quite sure how compatible the re-



LATE PLANTING—A very wet Spring caused late planting on the Wheeler Wildlife Refuge lowlands. Crops are grain designed to appeal to the approximately 100,000 wild ducks and geese which use the Refuge as a Winter resort.

fuge, just getting started then itself, and its waterfowl would be with their military neighbors.

Ducks and geese had been migrating into the Tennessee Valley long before men first came to the banks of the big river. But when the refuge was first set aside in 1938, there was no substantial concentration of waterfowl. The birds spread out when they came south, hunting food and a secure, resting place. The two requirements could seldom be met in the same place. Wheeler set out to concentrate the migrants by offering them both in the sprawling land area marked off by the distinctive refuge sign which features a Canada goose in flight.

The beginning years were tough ones. Department of the Interior experts first tried growing a variety of aquatic plants to attract waterfowl, but constant water

fluctuations in the Tennessee River thwarted their efforts.

Wheeler then switched to the system it follows to this day, planting and harvesting a variety of field crops; soy beans, corn, millet, oats and other grains on both high and low ground. The word spread quickly among the waterfowl since most varieties of ducks found in the Mississippi flyway and the geese will feed in fields, and the wintering population on the refuge began to show a steady increase each year. Recently it has levelled off at about 60,000 ducks and 40,000 geese, the number remaining here largely dependent on winter weather and the amount of food to be found on the refuge.

When the Army came to Redstone, an agreement was worked out between military authorities, TVA and the refuge in negotiations that Atkeson attended and recalls.

"It was agreed that Wheeler would be responsible for managing the land and timber on that portion of the Arsenal within the refuge boundaries. The Army agreed not to erect permanent buildings on the land. The Army put up boundary fences and began security patrols which helped protect the wildlife. The land was to be used by the Army until the emergency ended," Atkeson said.

The World War II emergency ended in 1945, but Redstone came back to life as a missile and rocket installation in the late 40's and the arrangement worked out almost 30 years ago continues in effect. The Army enforces state and federal laws on the Arsenal governing fishing and hunting, refuge personnel manage the timber and plant some feed crops for waterfowl on portions of the refuge within the arsenal.

Visiting a waterfowl refuge in Alabama in the summertime appears at first to be the equivalent of going to a ballroom after the dancers have gone. But although

the seasonal geese and ducks are the primary attraction at Wheeler, the refuge teems with life and activity at all seasons of the year.

The secluded areas on the Arsenal, for example, also provide a haven for a rapidly growing herd of whitetail deer. A few bucks and does were liberated on the Arsenal more than a decade ago and the deer multiplied. Protected from hunters so long as they remain within the refuge confines, the deer have no natural enemies to fear.

Doves, quail, rabbits and squirrel abound on the refuge, both on and off the arsenal. Iranian pheasants have been released on the refuge in attempts to introduce the birds in the state. Muskrats, possums, racoons, foxes, and beaver can be found everywhere.

Hampered by a wet spring that kept lowlands near the river soggy well beyond the normal planting season, farmers and refuge personnel are now busy getting in a crop designed to appeal to the Winter visitors.

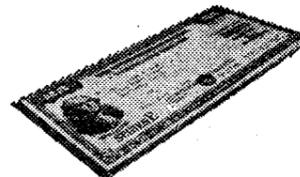
Wheeler is a bird watcher's paradise. Song birds of every variety fill the air. Owls, hawks and occasionally a visiting eagle have all been duly recorded.

Fishing is fine. Every pond and slough outside the limits of Redstone Arsenal is open to any angler.

Lists of birds and animals sighted on the refuge, others enumerating the almost infinite variety of trees, bushes and vines, still others on the many types of fish that can be taken from its waters, all are maintained at refuge headquarters. Atkeson has hopes that someone will turn up willing to undertake a study of the many wild flowers, classify them and record the approximate blooming times. Visits to the refuge are encour-

aged—provided guns are left at home — and can be arranged through the refuge office. Some limited hunting, and that strictly controlled, is allowed during the winter. Controlled shoots for geese and ducks were discontinued last year. Atkeson has no official word on whether they will be resumed. Chances are not considered bright.

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AWARDED BRONZE STAR—CW4 Jack F. Ray was awarded the Bronze Star Medal by BG George H. McBride, Deputy Commanding General, at a ceremony recently at the U.S. Army Missile Command. CW4 Ray, shown above with his wife, received the award for meritorious combat duty in Vietnam.



DACOWITS BRIEFING—SFC Richard Piercy, chief instructor, Missile Components Department, explains a transistor circuit to members of the Defense Advisory Committee on Women in the Service (DACOWITS) during their two-day tour of Missile and Munitions Center and School and Redstone Arsenal. The women also toured billeting, recreational and messing facilities at the Arsenal as well as the Alabama Space and Rocket Center. At left is Mrs. Vivian Davenport, librarian Atlanta Public Schools and Mrs. Mary M. Stokes, civic leader, Orangeburg, S.C.

● State of Legal Residence ●

Armed forces members and their dependents now have the right in all states to adopt that state as a legal residence if they so desire, meet other residency requirements, and reside off a military installation. Living on an installation has traditionally prevented most armed forces members from taking up

legal residence in a state in which the installation is located. This can work a hardship for the military careerist and his family.

In the interest of removing such possible hardship, the Congress enacted Public Law 90-344 in 1968, suggesting to the states that a military family be allowed to change

its state of legal residence if so desired, even though all or part of a residency requirement was met while the family lived within a military installation.

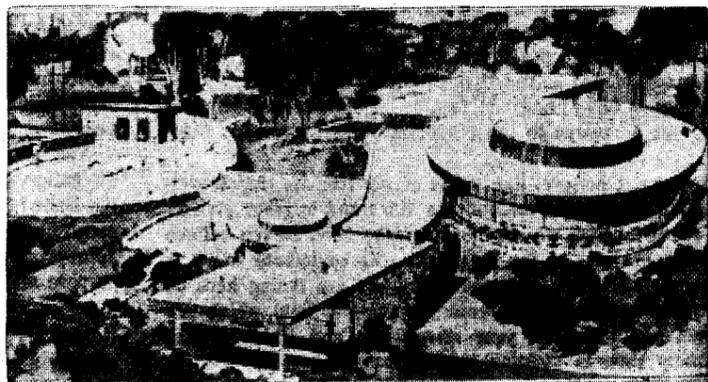
Several states have been able to adopt this suggestion in time for the 1970 elections. As yet, however, the matter is far from standardized throughout the country.

Detailed information should be sought either by voting assistance officers or interested armed forces members from appropriate local officials. Bona fide intent to regard the state as one's legal residence and for the family to return there during a member's hardship tours or following his separation from active service is generally de-

termined on the merit of the individual case. (AFPS)

July 10 — Dateline 1943 — Lt. Gen. George Patton began the invasion of Sicily.

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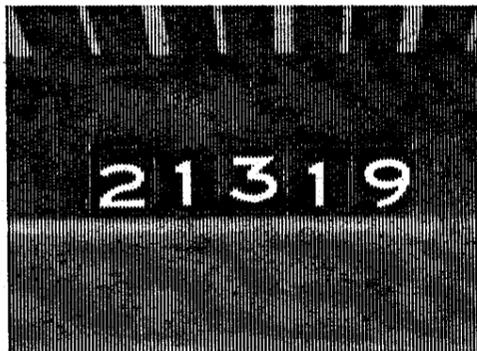
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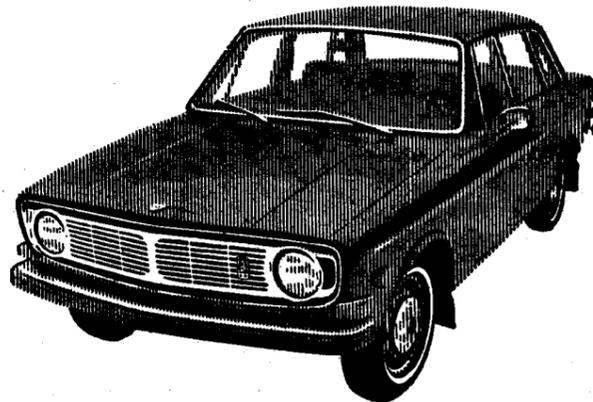
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Micro-organisms Are 'Oil Eaters'

WASHINGTON (AFPS) — The Navy is studying "oil-eating" bacteria in a search for ways to control oil pollution of beaches and harbors.

The study, conducted by Rutgers University for the Office of Naval Research, is focusing on the decomposition of oil through natural processes, including biodegradation—the breaking down of oil's organic matter by the action of micro-organisms.

The Navy hopes to learn how to speed up the process of biodegradation. Previous work indicates the process can be hastened by seeding oil with mineral nutrients, particularly nitrogen and phosphorus, which promote the growth of microbes.

However, at the moment there is no known way to add the nutrient "fertilizer" to oil slicks with-

Carrier Eisenhower Under Construction

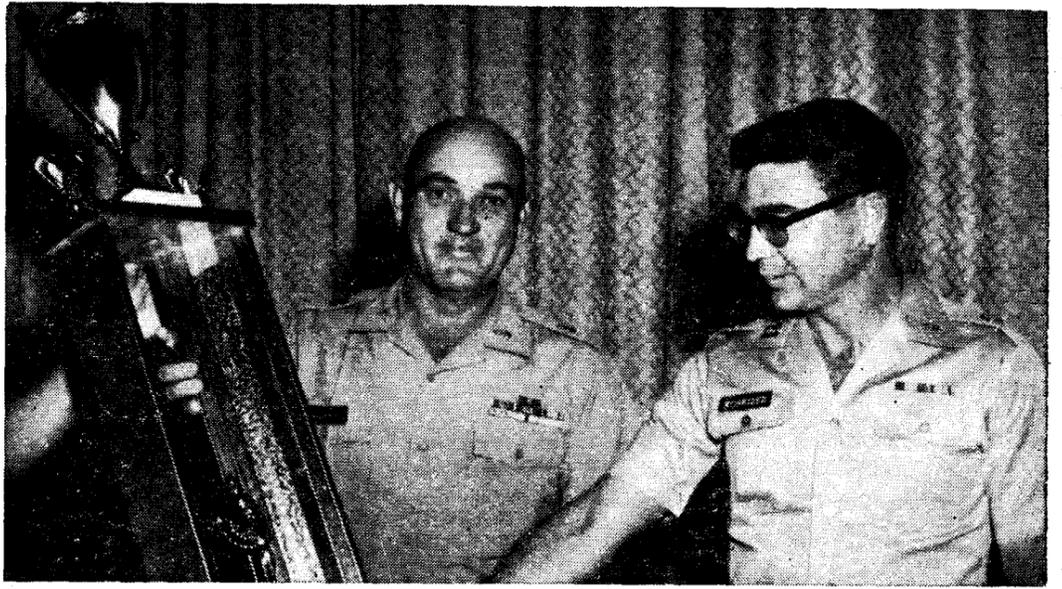
WASHINGTON (AFPS) — The keel of the nuclear powered aircraft carrier USS Dwight D. Eisenhower was laid April 18 at Newport News, Va.

Construction of the 1,092-foot carrier is expected to take about five years.

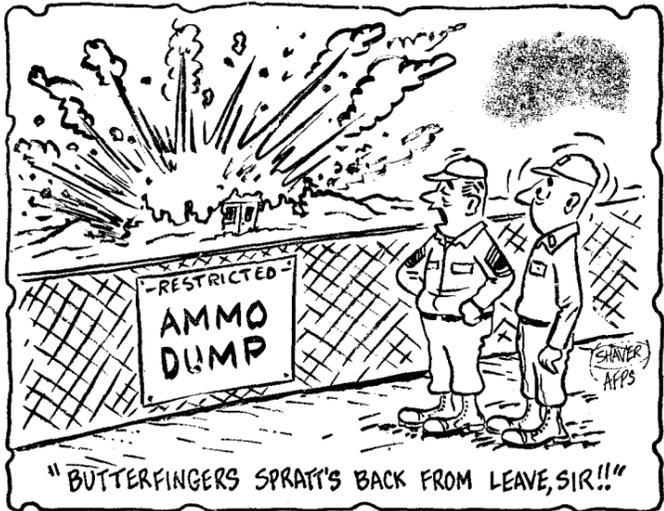
It will be the most modern ship in the world, equipped with an automatic carrier landing system, a naval tactical data system, an integrated operational intelligence center, and automated equipment for some areas of ship propulsion and ordnance handling.

out having it dilute quickly.

Some Rutgers researchers think a probable solution is to use a "binder" material to hold the nutrient as the oil is needed. This could be done, the scientists believe in conjunction with a biodegradable chemical which would break the oil into small particles the bacteria could easily attack.



MERITORIOUS UNIT AWARD—The Commander's Meritorious Unit Trophy is awarded to 249th Ord. Det. for being named the best unit at Unit Training Command. The unit was selected on the basis of administrative inspections, participation in bond and blood programs and the number of AWOLs and DRs during a six month period. LTC Rhesa Bostick, UTC Commander (center) presented the trophy to the winning unit during ceremonies at the Post Theatre. Commander of the 249th Ord. Det. is Cpt. Daniel T. Workizer, Jr.



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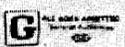
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Dr. Foster Outlines Solutions To R&E Problems

The Director of Defense Research and Engineering has outlined the necessary solutions to meet the challenge facing this country in the technological field.

Speaking at the Air Force Materials Symposium in Miami Beach, Fla., Dr. John S. Foster said, "Our collective responsibility is to maintain a strong defense posture for our nation. This is becoming increasingly difficult as the Soviet Union and other technically advanced nations rapidly diminish the technological superiority we once enjoyed. But just as the challenge is growing, our R&D (research and development) and military budgets are declining. This is due to many factors, including competing national priorities, but most important, is the result of an erosion of public confidence in our ability to design and build reliable military hardware at an acceptable price.

"This is a problem of mutual concern. Those of us in the Department of Defense cannot meet the challenge alone. We must all be part of the solution—just as all of us have been part of the problem."

Dr. Foster emphasized, "We must insist that all the technological work we do is not only economical and effective but also necessary. I don't mean useful or good to have or desirable. I mean necessary. . . ."

"Let's start with the problem. Research, development and production costs are escalating. This is true with materials as it is true with every other element of defense cost. I am particularly interested in materials . . . because the very integrity and honesty of every military weapon depends on the performance of the materials that go into it. And the materials, of course, are no better than the human beings—you people here tonight—make them. Furthermore, the materials must do the job within more restricted defense budgets.

"To put it another way, we need improved materials in the weapons, but we must get them at a lower price.

"Materials technologists have made significant achievements in the past and will continue to do so in the future. But in the present austere environment, they have to be more responsive and responsible if our weapon systems are to be as effective and economical as they must be.

"Changes must be made in the work that you and I are involved in.

"First, it is not sufficient for the technologist to look at the price per pound of a new material. He must also understand the cost of design with the new material, of production, inspection, installation, operation, maintenance and replacement costs. This is one of the ways we can get a handle on the over-all cost problem. We must avoid the pitfall of developing new materials whose "cost to use" is out of balance with the rest of the equipment.

"Secondly, materials testing has to be emphasized more heavily than before, and we have to do more of it in the early stages of materials development. It is too late and too costly to test the materials after design decisions have been made and they are incorporated in the system.

"Finally, we must eliminate three syndromes which have developed over past years: (1) overestimating the true value and underestimating the real cost; (2) getting glued to "fads" at the expense of new or modified conventional materials; and (3) being entranced by sophistication and forgetting the more straightforward approaches. If we abandon those syndromes, we will have made an immeasurable contribution to the problems that face us now.

"In the future we must not start engineering development of a new system without having thoroughly tested its new ma-

terials. Testing of the materials in all configurations has to be done very early in their development cycle. It might take more time and cost more in the short run, but it will save much more money downstream.

"In general, all of us, and you people in particular, must ensure that defense work is genuinely cost-effective.

"And I mean real cost, and real effectiveness. In your work, materials, cost can no longer be regarded as the number of dollars per pound. The materials cost which you and the system managers and the decision-makers must consider, is the cost of the material in R&D plus its cost in production, its cost in fabrication, its cost in inspection, in installation, testing, maintenance and in replacement. A total figure is difficult to estimate, but everyone who develops new materials, uses them, manages defense hardware or sets defense policies must learn to think of costs in those total terms.

"The same for effectiveness. It is not enough just to be pleased that a new material gives us twice the strength per pound. We must calculate the true effectiveness of the material as it will be used and maintained in combat.

"Since defense budgets will be tighter, effectiveness must be a truly impressive gain per unit of cost, or we just can't buy it. Five or 10 per cent better performance for equal cost is interesting, but more often our managers will have to wait until the effective improvement is substantially greater before he can justify using the new material.

"Now, I don't want you to have the mistaken impression that all of the burden of adjusting to these new times will fall on those of you who are dedicated to the work of improving defense-related materials. The responsibility to do better exists all up and down the line. Let me tell you some of the steps that we in the Department of Defense are taking to come to grips with the conflicting pressures of the diminishing American technological superiority and restrictive R&D budgets.

"First, we have reviewed, and will continue to review, our R&D programs to find dollars which can be saved. The pressures on dollars will increase in the next few years.

"Second, action is being taken to achieve tighter programming and even more relevance in our research and technology efforts.

"Third, we are modifying the basic philosophy of weapons acquisition, and the processes by which we will procure these weapons. I will talk about each of these in turn.

"We are reviewing the various performers in our R&D programs. We cannot jeopardize the future by reducing our support to first-class scientific groups whether they be inhouse, industry or universities. So with tighter budgets, we must stop supporting less-productive groups and programs.

"We have first examined our own operations. As an example, last year we announced the closing of three in-house laboratories, either because they had become less productive or because the mission for which they were originally established is no longer necessary.

"At the same time we are taking steps to increase the involvement of Department of Defense laboratories in systems development problems. There is a tremendous reservoir of knowledge and experience in these laboratories.

"Some of our problems exist because in-house expertise has not been used when it should have been. For example, you are aware of a recent system problem which might have been prevented had the concepts of fracture mechanics been used early in the system development. To avoid this sort of shortcoming in the future, we intend to use every resource we have. And we must act as soon as

a problem is found—not wait until a problem becomes a crisis.

"We have initiated some innovations in management which we believe will increase the effectiveness of defense R&D. As you know, for the past several years we have been placing more and more emphasis on the Development Concept Paper which must be approved for each major system before a major development is initiated. We have recently introduced an extension of the DCP concept to the technology areas.

"We refer to these new papers as Technology Planning Documents. We are experimenting with this concept now, but in the long run we intend that one will be prepared for each technology area. Each document will (a) identify future potential system needs; (b) describe the technology required; (c) ana-

lyze whether necessary technology is on hand; (d) describe the various technical approaches which could satisfy the needs; (e) estimate the cost and time of each approach; (f) project the costs of application; (g) set priorities to ensure that we support our most pressing needs.

"One of the first of these Technology Planning Documents is on materials. We hope this document will be available soon. It will describe the technical developments that the DoD materials and structures community must achieve in order that our forces will be equipped with the best possible weapons in the late 1970s and early 1980s. It will identify the greatest materials inadequacies in light of future needs, the critical and pacing problems, and the specific milestones.

As an example, we know that

our technological capabilities in strategic missiles for the 1975-1980 time period will be constrained by materials and structures technology. Strategic offensive and defensive missiles need more cost-effective materials."



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Hazards A Vet Meets Outweighed By Challenge

A scared patient is one thing but when that patient has sharp teeth, four hoofs and 1,000 pounds of determination not to be examined, then a doctor's life can be challenging.

That's one reason Capt. William L. Spangler likes his job as Post Veterinarian at Redstone Arsenal. There's seldom a dull moment.

As part of his workload at the Army Missile Command, Capt. Spangler is responsible for food inspection, sanitary conditions of dining halls and arsenal facilities as well as evaluations of drinking water.

But one of his additional duties is the examination and inoculation of all horses belonging to the Saddle Club at the Arsenal. The Missile Command specifies that

these animals have to be examined and free of all zoonotic diseases (diseases that can be transmitted from animals to man), before they are permitted on the Arsenal.

Sometimes the additional duties can live up a day as was the case recently when Capt. Spangler received word that a mare and colt belonging to an Army colonel were ready to leave quarantine. Armed with his big black bag and instruments, the Captain set out to make an examination.

Unlike people, many of Capt. Spangler's patients are not very cooperative. The mare was such a patient. Each time the Captain approached she bared her teeth and then turned her dangerous back hoofs towards him.

Finally with the help of the colonel, Capt. Spangler was able to calm the mare and give the necessary examination and inoculation. However, the young colt had seen the treatment his mother got and wasn't about to submit peacefully.

He rolled his eyes, bared his baby teeth, put his four long legs in reverse, and started a tug-of-war with Capt. Spangler around and around the corral to escape the awesome looking stethoscope and needle.

After he was wrestled to a standstill and after neighing and "telling the news to mother," the young colt submitted to Capt. Spangler's stethoscope and needle.

While this examination took less than two hours, it is indicative of the variety of jobs performed by the Post Veterinarian at the Missile Command.

With Redstone Arsenal covering approximately 38,000 acres, the Veterinarian also has the duty of controlling diseases in the wild-life population which includes all the types of animals found in this area of the state.

Capt. Spangler, who celebrated his first year in the Army on July 1, has been at Redstone Arsenal since October 1969. Following his graduation from the University of Missouri, June 1969 he entered the Army and attended the Fort Sam Houston Medical Field School at San Antonio, Tex-



NO DOC—NOT THAT—Capt. William L. Spangler, Redstone Arsenal Veterinarian, plays tug-of-war with a young colt that doesn't want an examination or inoculation even if it is the regulations. Capt. Spangler, who hails from Mexico, Missouri, proved to be more stubborn than the colt and won the battle.

as, and the U.S. Army Veterinarian School in Chicago, Ill.

Though Capt. Spangler has been at Redstone only a short time, one

little horse colt already knows that the veterinarian gets the job done and is as stubborn as the "proverbial Missouri Mule."

Rumors, Doubts Squelched At Army Personnel Office

WASHINGTON (ANF) — "Can I be assigned more than one involuntary tour in a hostile fire zone? ... I am a sole surviving son. Must I serve in a hostile fire area? ... I have a brother in the Republic of Vietnam. Must I go, too?"

These and similar questions are subjects of discussion and causes of many rumors throughout the U.S. Army.

Although the Army's assignment policies and regulations have not changed recently, some confusion has resulted about them.

Repetitive Tours

Why does one soldier serve repetitive RVN tours while another has yet to serve his first? The reason is due to military requirements. Basically, personnel are assigned according to the needs of the Army, Military Occupational Specialties (MOSs) and grade.

For instance, a UH-1 helicopter repairman (MOS 67N) might expect to serve multiple RVN tours while a nuclear power plant mechanic (MOS 52H) might never be assigned there.

Army Regulation (AR) 614-30 provides the basic guidelines for overseas assignments.

Sole Surviving Son

Questions also arise on exclusion from service in a combat zone of a "sole surviving son."

Some interpret this to mean a person who is an "only" son. Not true! AR 614-57 defines a sole surviving son as "one of a family which has suffered the loss of the father or one or more sons or daughters in the military service."

The regulation clearly states that such a person may apply for this status. He may also request a discharge as a sole surviving son, or can waive his rights as a sole survivor and accept an assignment to a hostile fire zone.

While the sole surviving son may not be assigned to a hostile fire zone, he can be sent to other overseas commands. The best sources of information on the subject are the regulation and the unit personnel officer.

Temporary Deferments

Soldiers may be granted a temporary deferment from duty in a hostile fire zone when a family member is on orders to or serving in the RVN. AR 614-30 (paragraph 3-5) spells out the terms of tem-

Movie Schedule

WED., July 8
"The April Fools" (GP)
THURS.-FRI., July 9-10
Walt Disney's "In Search of the Castaways" (G)
INCREASED ADMISSION: adults 50c, children 25c.
SAT., July 11
"Lost Flight" (G)
SUN.-MON., July 12-13
"Chisum" (G)
INCREASED ADMISSION: adults 75c, Children 25c.
TUES., July 14
"The Flim Flam Man" (GP)
Two shows nightly at 6:00 and 8:30 p.m. Sunday matinee at 2:00 p.m.

porary deferments for family members.

The same regulation provides that a soldier will not be assigned to a hostile fire zone if a member of his family has died as a result of service in the RVN.

In either of the two instances, the soldier must initiate the action. Reason for this is that the blood relative might be a member of another service branch. The soldier may also waive his deferment and accept an assignment to a hostile fire zone.

A consultation with the unit personnel officer can clear up the many questions arising from overseas assignment orders.

One unit personnel officer provided a pointed message to his troops in the form of a sign on his front door which read: "Rumors Stop Here."



EASY DOES IT—Capt. William L. Spangler, left, checks a mare after quarantine period, as her owner Lt. Col. Robert E. Wesson lends a hand. The mare was quite nervous before and during the examination.

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6. Pets

WANT A FAMILY PET? — Support your local Greater Huntsville Humane Society, adopt a kitten or puppy. We have no shelter and these pets need a home now, just call 536-2481. tfnc

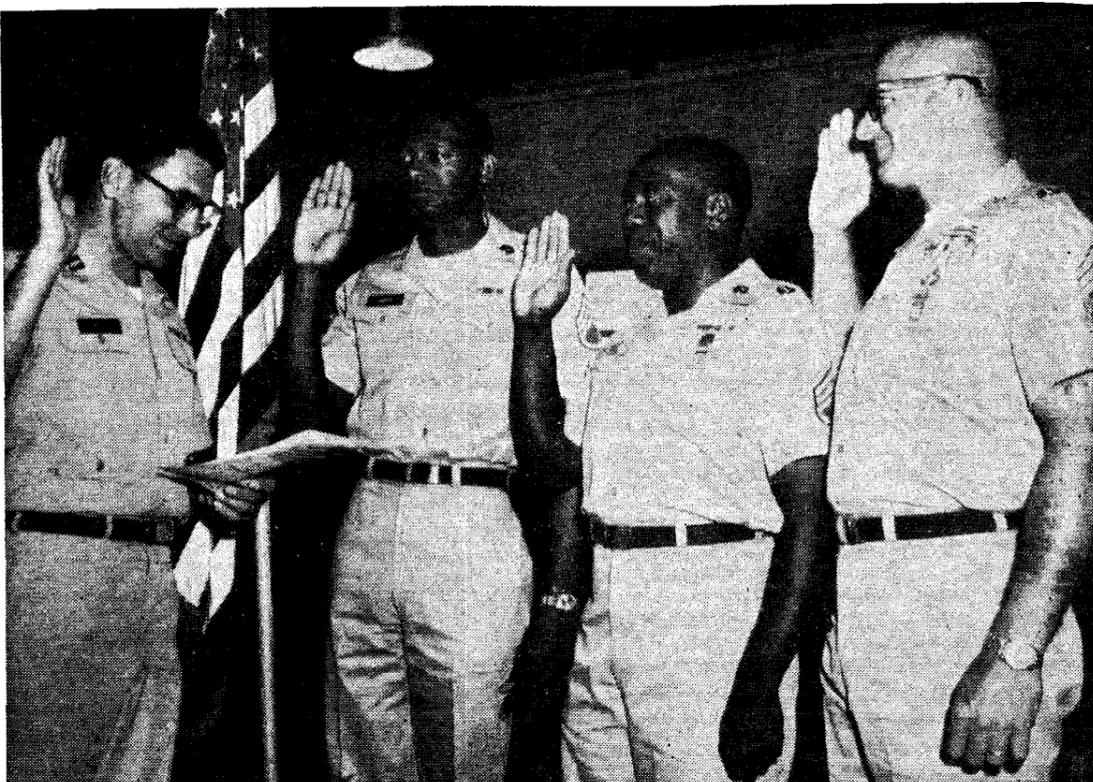
Army To Train U.S. Air Force Helicopter Pilots

WASHINGTON (ANF) — The Army will begin helicopter flight training for the Air Force starting in October, the Department of Defense has announced.

The training program will be conducted at Ft. Wolters, Tex., and Ft. Rucker, Ala., the two major Army helicopter training centers.

Approximately 225 helicopter pilots will be trained annually by the Army plus a certain number of currently rated fixed-wing pilots. All students will be Air Force officers.

Impetus for the new training arrangement stems from a recommendation by the House Appropriations Committee.



THREE REENLISTMENTS were enough to push Co. D in front of Co. B for the MMCS Reenlistment Trophy for the second quarter of the Calendar Year 1970. The trophy is awarded to a unit that has compiled the largest number of points in reenlistments. Co. D earned 15 points while Co. B, last quarter winner, had 14. Two points are earned for a First Term reenlistment while one point is given for a career soldier reenlistment. From left to right, the award winning trio are SSG Walter Enoch, SSG Joseph Allen and SGM Herbert Crim.

Men Work Harder If Friends Watch

WASHINGTON (AFPS) — Young American men seem to try harder when their friends are watching.

At least that is one conclusion drawn from research at the Army's Medical Research Laboratory, Ft. Knox, Ky.

Investigators at the laboratory tested 85 military volunteers to

see whether an audience would have any effect on a soldier's walking speed.

Trudging along, but going nowhere on a variable-speed treadmill, the volunteers were watched by a single technician or at least six fellow volunteers.

Researchers found that generally the men walked about six per cent farther, and about a quarter of a mile an hour faster when they were watched by fellow soldiers.

HUMAN DYNAMO

Harold C. Baer, better known as "Mr. Electric" or "Human Dynamo," will perform feats with electricity at the Service Club Sunday.

During his performance Baer sits in a chair and wires himself for voltage serves as the source of fluorescent light bulbs. His act will include an electrocuted hotdog, a hot seat and audience participation.

Show time is 8 o'clock. Enlisted personnel are invited to bring guests.



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The total program consists of 15 modules, semester equivalents, that have been sequenced for maximum transfer of learning. This modular construction also permits the individual student to enter the program at his particular point of readiness.

THE FOURTH SESSION WILL BEGIN ON JULY 20, 1970. REGISTRATION WILL BE CONDUCTED DURING THE HOURS OF 9-5 IN THE COMPUTER CENTER, CARVER COMPLEX FOR THE PERIOD JULY 13 THROUGH JULY 17. THE FOLLOWING COURSES WILL BE OFFERED:

| Course Number | Course Title | Meetings Times | Days |
|---------------|--|----------------|------|
| S300 | Introduction to Automatic Data Processing (Theory) | 6-10 p.m. | TTH |
| S310 | Introduction to Computer Science (Theory) | 6-10 p.m. | TTH |
| S320 | Introduction to COBOL Programming (Theory-Lab) | 6-10:10 p.m. | MW |
| S330 | Introduction to FORTRAN IV (Theory-Lab) | 6-10:10 p.m. | MW |
| S340 | Advanced COBOL (Theory-Lab) | 6-10:10 p.m. | TTH |

CREDIT

Certificates of completion will be presented for each module successfully completed by the student, as well as a letter grade reflective of his achievement in that module. After completing one or more of the certificate modules, and a student decides to enroll in a degree producing program at Alabama A&M University, he may present his certificate(s) for evaluation in the same manner as he would transcripts of credit from other institutions.

For Further Information, Contact:

Robert H. Hilton, Program Director
Department of Industrial Technology
Alabama A.&M. University, Normal, Alabama 35762
Telephone: 859-0800, Ext. 212

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MONDAY THROUGH FRIDAY
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**MISSILE & MUNITIONS
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NAMES IN THE NEWS

By SFC Ben Casey

**3RD BATTALION
AWARDS CEREMONY**

The 4th of July holiday weekend was ushered in by the 3rd Bn. with an awards ceremony at the Post Theater last Thursday. CPT C. M. Mitchell, battalion commander, presented awards to three deserving individuals. Tops on the list was SSG William J. Travis, 9th ETC. SSG Travis received the Bronze Star for meritorious service in connection with military operations against a hostile force in the Republic of Vietnam from January 69 to January 70.

Certificates of Achievement went to SP6 Kenneth Gilbert and SSG Colin Gordon. SP6 Gilbert was cited for his meritorious service while assigned to White Sands Missile Range and SSG Gordon was assigned at Ft. Bliss. Both are students and are assigned to the 6th ETC.

REENLISTMENTS

The school reenlistment office reports that MMCS exceeded its quota for the second quarter. MSG Blackstock, reenlistment NCO, reports that the 150 per cent objective reached was the highest figure recorded at the school. Co. D nudged out Co. B for the MMCS Reenlistment Trophy. Co. D reenlisted 14 men during the quarter while Co. B had 15 taking the oath. The trophy is awarded to the unit that earns the most number of points. Points are awarded on the basis of two for a First Term reenlistment and one point for a career reenlistment. Co. D reenlisted four First Termers and 10 career soldiers while Co. B's figure was 13 career and two First Termers. Three reenlistments on the last day of the month provided Co.

D with the necessary points for the trophy.

ACADEMIC HONORS

CPT Allen K. Rosson was presented a Certificate of Achievement and Letter of Commendation for being selected the number one graduate of the EOD Refresher course at Indian Head, Md. COL Rhesa Bostic made the presentation at UTC.

INSTRUCTOR OF THE MONTH



SSG WALTER ENOCH, Co. D
SSG Walter C. Enoch, Co. D, has been selected Outstanding Instructor in the Pershing Division. Enoch has been with Co. D since 1968. SSG Enoch has also earned the Bronze Star Medal with "V" device.

VISITORS

BG Theodore H. Andrews, Office of Deputy Chief of Staff for Individual Training, CONARC, visited the school Monday. The general was met at the Arsenal Air Field by the commandant, COL Gilbert P. Levy and received an extensive briefing on training activities. He was accompanied by MAJ Robert S. Wendt, Training Officer, Safeguard Systems Command, Huntsville.

DACOWITS, Defense Advisory Committee on Women in the Service, completed a two day tour of the school last week. The women were given briefings on missile training and toured several departments. The group also visited a troop barracks and had lunch in Mess No. 1.

BLOODMOBILE RESULTS

The official word is out! MMCS exceeded its quota for the June Bloodmobile visit last month. So what else is new? Elements of the school donated 351 pints to go over the assigned quota of 128. The Red

**Twelve Employees Study
Better Ways To Do Jobs**

Twelve civilian employees of the Missile Command have been named to pursue career development studies this week and have departed for their class room work at governmental schools and leading colleges located in six states and the District of Columbia.

They will be away from the normal duties for periods extending from one day to four weeks under the Command's career development program administered by the Training and Development Division of Civilian Personnel.

Three of the Missile Command civilians are in Ohio for four weeks for classes at the School of Systems and Logistics, Wright-Patterson AF Base.

Alton Sarge (S&M) is enrolled for Logistics Management while Raymond Gardzinski and Eugene Rode (P&P) are studying contract administration at the Ohio installation.

William T. Anderson (Q&RA) is in Atlanta today attending a career program seminar at the Atlanta Army Depot, and David Jones (R&E) is at Ft. Sill, Okla., this week and next for a training course on azimuth gyros at the Field Ar-

Cross monthly best unit participation was the 227th Ord. Det. with a 77.41 per cent participation.

FOURTH OF JULY

"Stay alive . . . Take Five" is heard every Friday at approximately 1525 hours at the close of the 5-min. newscast over the closed circuit television facilities. Over the 4th of July weekend MMCS employees certainly took the advice of MMCS's Chet Huntley and David Brinkley. It has been reported that there was not a single serious incident over the holiday period.

tillery School.

In Durham, N.C., this week for an introductory course in Air Pollution Control is Robert Seavers (DASO), while Earl McCain (M&I) is spending the week in Rockville, Md., for master analysis at the Control Data Corp.

Norman Kaufman (P&P) is enrolled at the University of Connecticut in Storrs for reliability and quality control and Laurie Atkinson (Pershing) is attending a seminar in problems of motivation at the main campus of the University of Oklahoma in Norman.

Completing the list is a trio of civilians who are attending classes this week at the University of Oklahoma facility in Washington, D.C.

The three, Robert Nelson (C&DP), Harvie White (Shillelagh) and Edwin Hart (P&P), are enrolled for American Foreign Policy since 1900.

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80-ACRE LAKE WELL-STOCKED WITH MOST VARIETIES OF FISH

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Mountain Lake Resort

Is a private Country Club and permanent residential region designed for complete and enjoyable family living. Mountain Lake Resort is reserved exclusively for Mountain Lake lot owners. Every member of your family is provided a variety of recreation. Happy families play together.



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A delightful way to unwind tensions and enjoy your vacation home is with a plunge in the nightlighted championship pool—certainly the fun-center during the summer months at Mountain Lake Resort.



TENNIS ANYONE!

How can anyone help taking up this cry with the invigorating mountain air making this one of the most popular sports at Mountain Lake Resort.



HORSEBACK RIDING

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Mountain Lake has developed approximately 200 lots and approximately 150 of these have been sold and several homes have been built in Mountain Lake leaving approximately 50 unsold developed lots and approximately 100 partially developed lots. The property owners in Mountain Lake agree to pay the owners \$14.50 on a monthly basis for water, sewer and for the use of Mountain Lake facilities.

TERMS: 20% day of sale. Balance in 30 days. Financing available if needed. All information in this ad was derived from the Mountain Lake Resort owners and is believed to be correct but is not guaranteed by Cole Auction Company.

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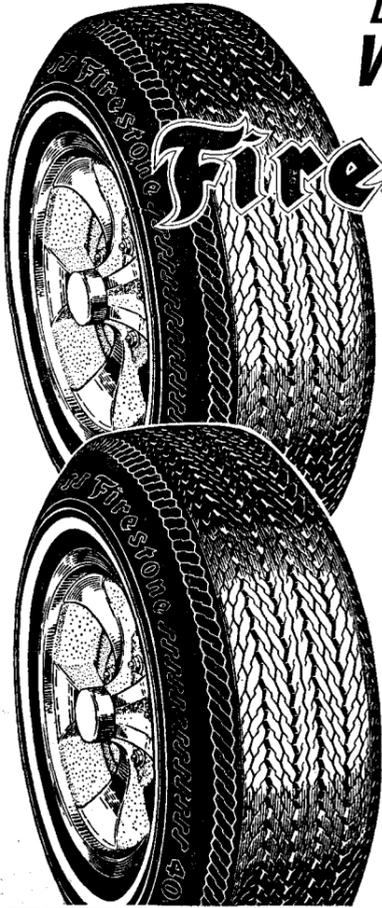
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| E78-14 | \$32.00 | \$19.00 | \$2.25 |
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| G78-14 G78-15 | 37.25 | 22.00 | 2.60 2.60 |
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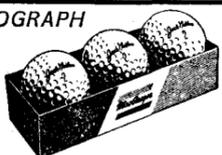
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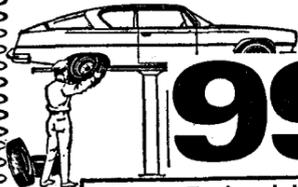
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