

The Redstone Rocket

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Arsenal-Wide

Spot News

Dial 112

Seventy-Two Civilians Returned To MICOM Jobs

Army Buying To Improve Through ILS

A long held dream of logisticians is taking solid form at the Army Missile Command in a program titled "Integrated Logistic Support" (ILS).

It envisions a logistics effort that begins as advanced military hardware takes shape on paper under a designers' pen, and lasts until the same item of hardware, after years of reliable service, is finally cut up and sold for scrap.

Complete integrated logistics planning from start to finish should be logical, cohesive, and precise... but as every logistician knows, things have never worked out that way in the past.

Today logisticians find themselves being listened to as never before, however, because of massive cuts in military personnel and funding. ILS, they feel, is the obvious means to a desirable end: improving the Army's equipment, getting better performance, longer life, support delivered on time, and more for every dollar spent on it.

MASSIVE EFFORT

The Army Materiel Command has formalized its part of the Army's effort seeking those desirable ends under the name PROMAP-70, and in one phase of this massive effort, the U. S. Army Missile



MISSES AWARD—Young Frank Milton Crieghton IV (asleep in his Mother's arms) is too sleepy to be bothered with the fact that Grandfather, LTC Frank M. Creighton, Director, Supply & Maintenance Directorate, just received the second oak leaf cluster to the Legion of Merit from Maj. Gen. Edwin I. Donley, Commanding General, Army Missile Command. Mrs. Creighton, right, and daughter-in-law Sheila are happy, but little 1 yr. old boys have to rest.

'Do More For Less'

As it observes its eighth anniversary on Saturday, the Army Materiel Command (AMC) looks beyond its immediate mission supporting combat operations in Southeast Asia to new programs aimed at securing the best military hardware at the lowest cost.

AMC today is responsible for providing the Army's weapons and equipment. It operates with a \$28 billion inventory, spends about \$12 billion each year and employs about 15,000 soldiers and 153,000 civilians in a nation-wide network of more than 180 military installations and activities.

The Command is placing major emphasis on its Program for the Refinement of the Materiel Acquisition Process (PROMAP-70) to find ways to do a better job.

Some of the things envisaged by PROMAP-70 are being undertaken immediately; others involve long range actions. Measurable results already indicate that the program will assure the fielding of better weapon systems and equipment on a more effective and economical basis.

AMC also is engaged in a continuing review of its organization and procedures to streamline its performance in all areas in the face of existing and anticipated budget costs.

(See DO MORE FOR on Page 3)



Command was assigned the specific task to report on progress of implementing ILS.

It was a logical choice. An initial effort on ILS began at Redstone Arsenal as long ago as 1964. An Ad Hoc group, representing all the AMC field commands, was formed in 1967-68, and wrote the basic technical manuals.

In late 1969, the Missile Command wrote the implementing document for ILS. Now logistics experts at the Missile Command's Directorate of Supply and Maintenance, men who have made a career of the care and feeding of Army missiles and rockets, continue to report under PROMAP 70.

Herman Libbe is chairman of the ILS committee and Robert Hull is presently acting as deputy.

SPECIALIZED SKILLS

Each committee member contributes a specialized logistician's skill; Horton Nuchols, Charles Pollard and Pat Lawler are maintainability engineers, Fred Steinman is in charge of the maintenance engineering analysis data system; William Wilkes and John Barnard have specialized in long range development of logistical concepts and Howard Raspilair has specialized knowledge of personnel training requirements.

All of these men know correct answers to a few obvious questions in reducing the ultimate cost of a weapon system and add assurance (See AD HOC on Page 4)

Attrition Helps Others Regain Loss Of Grade

Christmas came on a hot July weekend for 72 individuals who had been downgraded or separated as a result of the recent reduction in force conducted by the Army Missile Command and who had the greatest right to available jobs.

These people were reemployed or repromoted according to their standing in their series and competitive level as of June 29, 1970 with utmost consideration for tenure.

They answered the phone Saturday or Sunday and heard a verbal offer of employment. Those who had been downgraded were offered a higher grade position. Those who had been separated heard the Command had a job for them.

The reaction in almost every case: an immediate "I'll take it."

The calling began Saturday morning at 7 as the Civilian Personnel Office implemented a post RIF plan to make improved

offers whenever possible. Jobs being filled had opened up as a result of resignations, transfers, retirements or deaths, most of which had occurred late in June.

Those who got the happy news over the weekend included 58 class act and 14 wage board employees. More calls were being made this week to fill positions which became available during the early part of July.

A few of those called refused at first to believe the news, apparently convinced someone was playing a cruel joke. One skeptic told his caller: "The Civilian Personnel Office doesn't work on Saturday," listened to her go through her explanation a second time, then drove to the Arsenal to confirm what he had been told.

Actually there's been a lot of Saturday and Sunday night and dual shift work in the Civilian Personnel Office recently. Saturday when the calling began, the CPO staff was augmented with volunteers to get the word out fast.

The reason for the Saturday and Sunday calls: Many of the individuals separated in the RIF on June 29 had gone on annual leave or leave without pay at their own request for a special 30 day extension. By getting them back on the roles before midnight July 29 they will be able to continue their government careers without a break in service.

Those who made the calls over the weekend agreed that it had been a novel experience. Everyone involved in the operation felt good about it.

There were some problems. The most common one was trying to locate people on the phone. Callers in some instances contacted relatives and friends to help locate the people to whom the jobs were to be offered.

Arsenal telephone operators pitched in to help, making call after call to find someone, freeing the Civilian Personnel Office people to contact others in the mean- (See RECALL on Page 3)

Contract Award Goes To Litton

The U. S. Army has awarded the first increment of an \$8,518,000 contract to Litton Systems, Inc., Data Systems Division, for an air defense control and coordination system for air defense missile systems.

Amount awarded was \$6,428,000. Remainder of the contract will be funded on an annual basis.

Under the contract, Litton will develop, manufacture and test a prototype of the new system. Most of the work will be done at Van Nuys, Calif., and Salt Lake City, Utah.

To be known as the AN/TSQ-73 the system is managed by the Air Defense Control and Targets Project Office under Lt. Col. R. P. Loshbough.

Negotiating the contract for the Army was the Missile Command's Procurement and Production Directorate.

Well Known Civilians End Careers

Son Continues Watson Name

"I was a member of the old American Rocket Society in the 1930's when all members were considered as lunatic fringe." These are among the memories of William C. Watson, Director of the Ground Support Equipment Laboratory, Research and Engineering Directorate, who has spent the last 19 years at Redstone Arsenal where the Army missile program developed and reached maturity.

Now, after 33 years, Watson is retiring from government service with the realization that he has seen America's rocket and missile program develop and that he has been a vital part of that development.

One of the most startling facts about Watson's civil service career is that during his 33 years, he has only been assigned to two

places and has spent his entire government career in Research & Development. He started his fed- (See WATSON on Page 3)



BILL WATSON

ADP Expert To Be Consultant

"Just say I am rechanneling my energies in a different direction," was the way Edith Gibbs explained her decision to conclude a career in the Federal service spanning almost 28 years.

One of the Army's foremost authorities in the field of automatic data processing and computer technology, Mrs. Gibbs will leave her post as Chief of the Systems and Programming Division of the Management Information Systems Directorate on Friday.

"I am not getting out of the business completely," Mrs. Gibbs said. She has agreed to serve as a consultant in the computer field at Headquarters, Army Materiel Command. She will also continue to be a guest lecturer at the Army Logistics Management Center at Ft. Lee, Va.

But for the most part she plans to make her home in Huntsville

and to get more involved in voluntary work, and a number of other interests that "I have never (See ADP on Page 4)



EDITH GIBBS

The Redstone Rocket

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Rocket Ruminations

We know too much for one man to know much.
—J. Robert Oppenheimer

EDITORIAL—

Planning A Trip?

What is an antique?
Time was when U.S. Customs declared that an antique, to be admitted duty free, had to be manufactured prior to 1830. For rugs and carpets the date was 1701, and for violins, violas, violoncellos and double basses, 1801.

All of that has changed. Today, Customs says an antique is an antique when it is 100 years old. There is an exception for ethnographic objects made in traditional aboriginal styles. These must be only 50 years old to merit duty free status.

Antiques which are imported for re-sale are given special handling by Customs import specialists.

Antiques imported for personal use can be expedited through Customs by showing an inspector a seller's certification indicating the age of the object.

If a certification isn't available, there are Customs experts who can pass on antiques without delay. Even when a seller's certification is furnished, however, this does not necessarily preclude a thorough Customs examination in order to establish the authenticity and validity of the claim for antiquity.

It is wise to be sure of the seller, not only for Customs purposes, but also for your protection. After all, it is not very pleasant to find out that the antique you purchased had been manufactured only a few days before you bought it!

Watch out for antiques that have been repaired. If the repairs were made within three years and required a large amount of material, you will have to pay duty on the cost of those repairs.

A wilfully false declaration constitutes fraud which could cause you to lose the item and make yourself liable to fines and penalties.

The best advice in buying antiques is the same advice you should observe in all purchases. Be sure of the honesty of the seller. If you are not certain, find a knowledgeable person who will look the item over and issue a certification as to its age.

It is also worth noting that paintings, pastels, drawings, and sketches, executed wholly by hand, are free of duty. So are engravings, etchings, lithographs, woodcuts and other prints, printed by hand. Most original art in any form is included in the Customs free list. (AFPS)

Time To Listen

The first part of the democratic election process is the nomination of candidates. In many states the process is still going on, with some states scheduling their primaries as late as October.

Within the two major parties—and in smaller ones as well—men and women are competing for the right to represent their party and receive its backing in the general election Nov. 3.

Campaigns for nominations, like election campaigns later on, are intended to give each citizen lots of facts about the candidates seeking votes. Each candidate makes sure that his good points and his views on the issues get publicity, and rivals usually air each other's weaknesses.

Now is an excellent time for servicemen to get the picture of the people who will be running for office in November. Newspapers, magazines, radio and television are reporting their actions and statements on public issues. Read, watch and remember.

Above all, keep in mind that the best informed serviceman or woman in the world won't be able to cast his vote this fall if he is not eligible. So find out what the candidates stand for, make sure you meet your state's voting requirements and secure your absentee ballot; then you'll be prepared to exercise one of your most precious rights Nov. 3. (AFPS)



Griffith Jones Lareau Ferrando

Team Effort Pays Off With Suggestion Award

A Missile Command quintet recently proved again that an idea shared can be financially rewarding to the participants as well as being profitable to the Army.

The five, John Jones, Harvey Lareau, Phillip Griffith, Jay Ferrando and Gerald Jamieson, shared equally in an award of \$1,246 for their joint suggestion that will net over \$130,000 in first year savings.

Their team effort provided for a more reliable tube for use in the Hawk system at a substantially reduced unit cost per tube. By exercising a multi-year buy option, the first year savings of \$136,000 were validated by the Army Audit Agency.

Follow-on buy of the same tube is planned with foreseeable annual cost savings equal to the validated first year reduction.

Two of the team members are employed by the Hawk Project Office while the other three are employed by the Supply and Maintenance Directorate.

In presenting the five with their

Minority business firms are "getting the business." The VA has contracted for or, is in the process of negotiation for \$2.5 million worth of goods from minority-owned firms.



JAMIESON

cash awards, Col. John Covert, the Hawk Project Manager, noted, "We sometimes cheat ourselves and waste opportunity because of our failure to dig, question and follow through on ideas. Even the seemingly insignificant day-to-day routine often provides tremendous opportunities if we but take the time to think, grasp, and pursue each idea."

The Project Manager concluded his remarks by stating, "My presentation of these awards at this time is sufficient and obvious proof that ideas DO pay dividends and are very much in demand in these times of limited budgets and tight money."

Jamieson is Chief of the Project Office's System Support Division and Ferrando is a general supply specialist in the same division.

The three S&M civilian employees represent a combined total of 87 years experience in the logistics field. All are assigned to the National Inventory Control Point.

Sigma Xi Taps Dr. Hallowes

Dr. John P. Hallowes, Chief Scientist of the U. S. Army Missile Command, has been named to the committee on membership-at-large of the Society of the Sigma Xi, a national fraternity of research engineers and scientists.

He was elected an associate member of Sigma Xi by the Vanderbilt University Chapter in 1961 and promoted to full membership by that chapter in 1963.

A member of the Army Research Council, Dr. Hallowes has been engaged in Army Missile research at Redstone Arsenal since 1951.

Registration Set For Pre-Schoolers

Registration for the Redstone Pre-School will be held between 7 and 8:30 p.m. on August 4 at the school, Building T-3137, near the Civilian Personnel Office.

An open house and members meeting will follow registration.

The pre-school admits dependent children of active duty and retired military personnel. Youngsters must be three years and six months of age prior to October 1. Children older than six are not admitted.

There is an enrollment fee and a monthly charge.

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DO MORE FOR
(Continued From Page 1)

Numerous management improvements have been launched at the direction of AMC's commander, General F. J. Chesarek, who has personally committed the Command to "do more with less":

Elements Close

By the end of calendar 1970, more than 50 installations, activities, and offices will have been disestablished, inactivated, or placed in a reserve status.

A standard organizational structure is being adopted by the seven commodity commands, scheduled to be completed in FY 1971.

Modernization of the hardware production base and permanent physical plant, particularly in the munitions area, at a cost of \$2.3 billion was begun in FY 1969 and will be carried out through FY 1979.

A Numerical Control/Computer Aided Manufacturing Steering Group, is preparing a plan to implement numerical control machines and the evaluation of computer aided manufacturing systems.

A new materiel coding structure to associate secondary items with the major item or weapon system to which they pertain has been published.

In coordination with U.S. Army, Europe, AMC is preparing to test supplying fast moving repair parts directly from a theater-oriented depot complex in the United States to Direct Support Units (DSUs) in Europe. The initial phase is to be limited to logistics support of one infantry and one armored division. The test is to be expanded incrementally to include all other DSUs in Europe.

Cost Cutting

As part of its overall management improvement program, AMC is engaged in a range of actions aimed at controlling and reducing costs including:

Establishment of a Command wide cost data base system.

Improvement in the review and validation process through establishment of cost control centers at seven major subordinate commands.

Development of a stronger cost analysis capability through increased manpower resources including assignment of cost analysts to project manager offices.

Establishment of a formal training course for cost analysts.

An Improved Cost Estimates

Program, initiated in FY 1970, aims at developing improved life cycle cost estimates, designing the studies to provide meaningful cost information, training cost analysts throughout the Command in preparation of life cycle cost estimates, and establishing and maintaining a bank of current cost estimates on major weapon systems.

Substantial savings in equipment and equipment maintenance costs were achieved in FY 1970 through use of the integrated equipment management program. One large installation reported benefits in excess of \$6 million during FY 1969 and FY 1970 attributed directly to the program which provides effective management and maintenance of AMC's \$1.5 billion investment in installation equipment.

Vietnam Support

AMC continued its support of American and allied combat forces in Southeast Asia.

Typical of the logistical effort was procurement of the tooling necessary for a tire retread facility in Vietnam and provision of technical assistance and raw material. Production at this new facility is expected to result in savings of \$5.3 million the first year and \$5.5 million each year thereafter.

A new weapon being provided to units in the war zone. The Multitish Portable Flame Weapon is lighter in weight and operates at far greater ranges than the standard portable flame thrower.

An expendable mine clearing roller built under AMC direction is in operational use in Vietnam. The tank-pushed roller employs a weight transfer mechanism that puts the weight of the tank on two banks of individually articulated wheels. Buried mines are detonated without damage to the tank or its crew.

AMC supplied aviators and aircrewmembers in Vietnam with improved flight helmets, flame retardant uniforms and gloves, and body armor.

Special footwear items for the comfort and protection of troops operating in wet areas were developed and procured for use in Southeast Asia including rubber-soled canvas shoes for wear during rest periods, nylon cushion-sole socks, and zippers for standard tropical boots.

In response to a request from the battle zone, AMC developed an Integrated Observation System and delivered some for use by the Army and the Marine Corps. The

system, which increases the operational capability of troops in the field, consists of a laser range-finder, binoculars and night observation device mounted on a pedestal/tripod. It provides range and azimuth on targets of interest.

New Materiel Items

In its continuing program to improve the present and future combat capability of the Army, AMC made significant progress in the development and fielding of weapons and associated equipment:

First production items of the 40mm Grenade Launcher for the M16A1 rifle have been completed. This launcher should be available for troop use early in FY 1971 will provide the rifleman with area-fire capability in addition to the point-fire capability of his rifle.

AMC fielded two new armament subsystems for helicopters during FY 1970. One was a 20mm six-barrel gun mounted on the AH1G Hueycobra helicopter. The other was a .50 caliber door gun used on the UH-1D helicopter.

Overseas tactical deployment of the Army Land Combat Support System (LCSS) began with arrival in Europe of the first four production models. The LCSS is a multi-purpose system to test electronic guidance and control components of the SHILLELAGH, TOW, Dragon, and Lance missile systems.

Three air defense artillery battalions armed with the Chaparral/Vulcan have been deployed to Europe. Other battalions have been assigned to active Army divisions within the U.S. CHAPARRAL is an infrared homing missile system in which the missile is fired from the turret of a full-tracked vehicle. VULCAN employs a 20mm automatic Gatling-type gun.

A new sighting device being used on helicopters compensates for vibrations and other motions normally experienced with conventional hand-held viewing devices in aircraft during flight.

The number of co-production projects which AMC manages with foreign countries and NATO increased to 17 in FY 1970 with the signing of an agreement for co-production of UH-1H helicopters by the Republic of China. Sixteen defense items are involved in co-production projects, which involve a gold flow to the United States estimated at \$554 million.

Approval was given in FY 1970 for a modified version of the Main Battle Tank, a joint project of the United States and the Federal

WATSON
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eral career in 1937 at Rock Island Arsenal in Illinois and stayed there until 1951 when he transferred to Redstone Arsenal.

Watson, who attended the University of Illinois and studied Civil Engineering, first worked as a designer for the R. G. LeTourneau, Inc., Peoria, Ill., prior to joining government service.

During World War II, he served with the 347th Infantry, 87th Division and was awarded the Combat Infantry Badge, Bronze Star, Unit Citation, European, African, Middle East Campaign Medal with three battle stars, the Victory Medal and the American theater of Operations medal.

Republic of Germany. Pilot vehicles of the new version, the MBT-70/XM803, will be built and tested. The US/FRG Tank Development Program has been modified to permit each nation to make unilateral technical decisions and to terminate joint funding aspects of the program.

AMC achieved important gains in electronics and related areas during the past 12 months:

All tests on the new laser range finder have been completed and first quantity production is scheduled for FY 1971. The new device is a lightweight portable instrument that determines distance by means of a high-power light pulse and translates it into meters.

Development of equipment to keep the battlefield under 24-hour surveillance is continuing. Devices undergoing intensive study and tests include attended and unattended ground sensors, airborne and ground radars, and infrared and night vision hardware to enable the soldier to locate the enemy at night and under adverse weather conditions.

In support of the Army aviation program, the Command produced new equipment and devices to improve safety characteristics and add to the effectiveness of operations. Included are fuel tanks with increased strength and a self-sealing capability fabricated for the UH-1D/H as part of a program to reduce the hazard of fire. The tanks and additional improvements in the fuel system have successfully completed flight testing. Tanks for other aircraft are being developed.

When Watson retires at the end of July to enjoy his hobbies of bowling, tennis, basketball and spoiling his grandsons, he can rest assured that his name will go on at Missile Command. His son, Cary

Bill Watson's friends and co-workers are gathering for a party to honor him Friday night in the Russe! Erskine Hotel. It begins at 6:30 PM and will go on until the last story has been told and the last missile fired. Those who did not make advance reservations by the deadline can still get in under the wire by contacting Mrs. Naomi Bradley (876-2024) before close of business tomorrow.

J. Watson, is an engineer in the Test and Reliability Evaluation Laboratory and a younger son, Michael is at Georgia Tech working on advanced degree in metallurgy.

RECALL

(Continued From Page 1)

time. One man, staying in a local motel, got out of the swimming pool to take his call. Several were still in bed when the phone rang just after 7 Saturday or Sunday morning.

A call to an outlying area was answered by a boy, who when asked if a certain person was there, said, "Well, she lives about two miles away. I can get her if you want me to, but it will take about half an hour." He did reach her and she returned the call.

A man offered a job in North Carolina asked if he couldn't stay here so he could complete college work for a degree. He had a second call a short time later. CPO had worked something out and offered him a job locally at a lower grade than the North Carolina job. He accepted immediately, telling his contact: "You've really made my day."

And one call went through to a local residence where a tiny voice answered the phone. "Is your daddy there," the caller asked? "Mommy," the child said. "It's a woman calling daddy." Mommy came to the phone, then got daddy.

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AD HOC

(Continued From Page 1)

that it will work. These questions must be asked in early stages of weapon design; "Is it supportable and maintainable?" "Will it be operable?" and "Will the soldiers' requirements be fulfilled 20 years from now?"

"Planning logistics right with hardware design is the only means we know to control and reduce cost to support that hardware during its operational lifetime," Libbe said. "We must have continuous team participation between the Combat Developments Command, the design developer and the support developer."

THE BEST WAY

"The costs to operate and maintain a system must be estimated and projected for the total program life cycle—estimated with a degree of accuracy we have never before achieved—and projected for all foreseeable levels of activity. We must get a handle on these costs. ILS is the best way to do it."

"The bedrock of the ILS concept is recognizing that decisions made during the design of a weapon automatically generate logistic requirements. The key point here is that logistic requirements, and their high cost, are generated by the designer whether he thinks logistics or not."

"From a logistical standpoint, it is essential to realize, that the designer is in the strongest position to affect support requirements. Only when ILS planning is started in the early stages can the logistician influence the designer to design for support. The earlier logistical thinking is injected and considered in a program, the more meaningful and effective it will be."

"We must recognize that the Army has moved from a 'support the design' to a 'design for support' attitude."

Libbe continued:

"This raises the question, 'How does the logistician bring his requirements to bear on the design?' The answer is simple—by talking the language of design—by being able to measure logistic requirements—and by being able to relate design to logistic requirements."

CAREER PROGRAM

"In the past, designers and logisticians just didn't talk the same language. Design uses mathematics as the common tool for communicating and considering design factors. Logistics use 'experience and intuition' as the basis for communicating logistic factors. This difference has created a barrier which ILS will attempt to overcome by providing specialized training—and hopefully — a new career development program for ILS management."

"ILS can be boiled down to cents versus dollars. With proper emphasis placed on logistics considerations early in the life cycle of a

weapon system, we can produce a support package for pennies in relation to dollars it would cost later."

"To produce a support package that does provide all elements necessary for mission accomplishment, it is much easier in terms of effort and other resources, to use an eraser on a drawing than it is to cut metal in modifying operational hardware."

"It becomes the duty of the support manager for a system to integrate and manage the elements of ILS. Although we can acquire elements under today's system, they are seldom adequate and often late. We must consider, in developing support, the integration of all into one cohesive-disciplined support management system, review the support requirements repeatedly, and then analyze their impact on the logistic systems as well as on performance of the hardware."

"It has been found that the most convenient method for analyzing the logistic problems pertaining to a system is by ILS math modeling, Nuckols', Pollard's and Lawler's area of effort. They use math and engineering concepts as a logistic management tool. Their basic function is to get definite parameters involved during the life cycle of a system. They come on board with the design engineer on the earliest studies."

"Their prime purpose is to participate in trade-offs, studies and analyses. Their objective is to reduce the cost of support of a system during its life cycle, but at the same time increase system effectiveness. They also serve as technical advisers to weapons project and product offices."

"We have set the stage for carrying out integrated logistic support programs in the Army by preparing a set of technical manuals to use as guides. The first volume is a management guide and is intended for top managers. The second volume explains what is done to integrate the functions and elements of ILS; the third is a road-map that shows who does what, and when it is done; the fourth explains the analysis procedure and the data file; and the last is the procurement specification guide."

The data file is intended to be run by a contractor except in the case of a missile system developed at the Missile Command. Steinman is presently refining and tailoring it to conform with missile ILS concepts.

OBJECTIVE GUIDE

Barnard's work is aimed toward producing significant information concerning ILS concepts for future development programs. The intent is to establish a document that will provide long range logistic concepts based on the Army Long Range Technological Forecast and the Combat Development Objective Guide.

It will contain such information

ADP

(Continued From Page 1)

had the time that I would like to have put in before."

Mrs. Gibbs is especially interested in working with the elderly and disadvantaged children. There are just not enough people available who will spend their time and energies with these groups, she remarked.

All of Mrs. Gibbs' long career in the Federal service has been spent with the Department of Army and in direct association with business machine operations.

She began her career as a tabulating machine operator at the Lordstown Ordnance Depot in Ohio and in the ensuing 27 years has advanced through every management phase of supply operations and today is regarded as one of the Army's leading authorities in the application of electronic data processing procedures and techniques.

Mrs. Gibbs became the first woman in the Ordnance Corps to head a Depot Stock Control operation when she assumed that responsibility at Lordstown in 1949. A year later she was selected by the Ordnance Corps to help establish the mechanical supply system for the Far East and spent 18 months as Deputy Chief of Stock Control at the Yokahama Ordnance Plant in Japan.

She came to Redstone in 1956 when she accepted the position of Administrative Assistant for the Federal Cataloging Program. A year later she entered the computer field, the area in which she has remained and gained her greatest acclaim.

At that time a number of Army installations had already installed the equipment and were at varying degrees of development.

However, her work in the field was instrumental in directing an Arsenal program that soon equalled and surpassed most of those installations that had gotten an earlier start.

The accomplishments of the Redstone computer operation under her direction have included: the preparation of the first total concept of publication in the De-

as maintenance, supply and transportation concepts applicable to future developmental items, and will eventually become part of the Army Missile Plan developed by the Research and Engineering Directorate.

Training is presently underway to qualify people for a course in Maintenance Engineering Analysis. In addition it is proposed to have a course in ILS Management to train management personnel in how to make decisions utilizing the various techniques of ILS.

Raspilair said that he is also actively engaged in aiding the Army Materiel Command in setting up a career development program for those who will be engaged in ILS full time.

The ILS committee is programming and applying ILS to all Missile Command weapon systems that will expend RDT&E funds after December 1970. They are also working on a task that involves reducing the range of selection of repair parts during initial provisioning of equipment items.

fense Department by computer for the purpose of pruning DA supply manuals and standard nomenclature lists development of the only cataloging program devised for compatibility with the Armed Forces Supply Support Center; and the first Ordnance Corps program devised to edit all demands received from the field utilizing high speed computers.

By the time the Army Materiel Command was created in 1962 the automatic data processing system of the Army Ordnance Missile Command was recognized as the most advanced within the Ordnance Corps, a reflection of the demonstrated management and technical ability of Mrs. Gibbs.

But despite the many technical achievements that have been attributed to Mrs. Gibbs during her long civilian career with the Army, she insists that her greatest enjoyment has been realized in seeing the advancement of the many personnel in the operation of the most talented group of technicians in the Army.

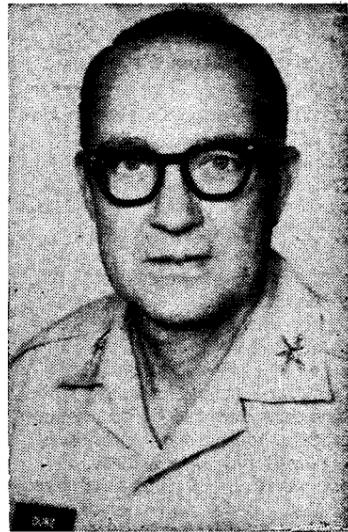
"Together," she said, "we have built a working relationship with the functional managers that is unequalled throughout the Defense Department."

Continuing she added, "The Missile Command has realized a great amount of praise from Army officials in being the first Command to automate the cataloging, commodity and procurement systems."

For her part in the highly efficient operation, Mrs. Gibbs has been nominated by the Missile Command on five occasions for the Barbara Bates Gunderson Award that annually goes to outstanding woman employees of the Army.

She was also named the Ordnance Corps Woman of the Year in 1960, and was presented the Meritorious Civilian Service Award in 1967.

Alaska has more square miles of glaciers than the rest of the world put together, the National Geographic Society says.



COL. T. A. DUKE

Col. Duke Named For Montana Site

The Safeguard System Command has announced the assignment of Colonel Thomas A. Duke, Jr., as Commander of the U. S. Army Safeguard Site Activation Command responsible for Safeguard Ballistic Missile Defense activities in North Central Montana.

Colonel Duke, a native of Ace, Texas, has served in the U. S. Army since January 1943. In addition to a wide range of assignments within the United States, Colonel Duke has served in the Far East Command during World War II, the Philippines, Panama, Thailand and Germany.

His last assignment prior to joining Safeguard was as Commanding Officer of the Missile Support Command, U. S. Army Southern European Task Force in Vicenza, Italy.

June 23—Dateline 1903—The Springfield Rifle was adopted for use by the Army.

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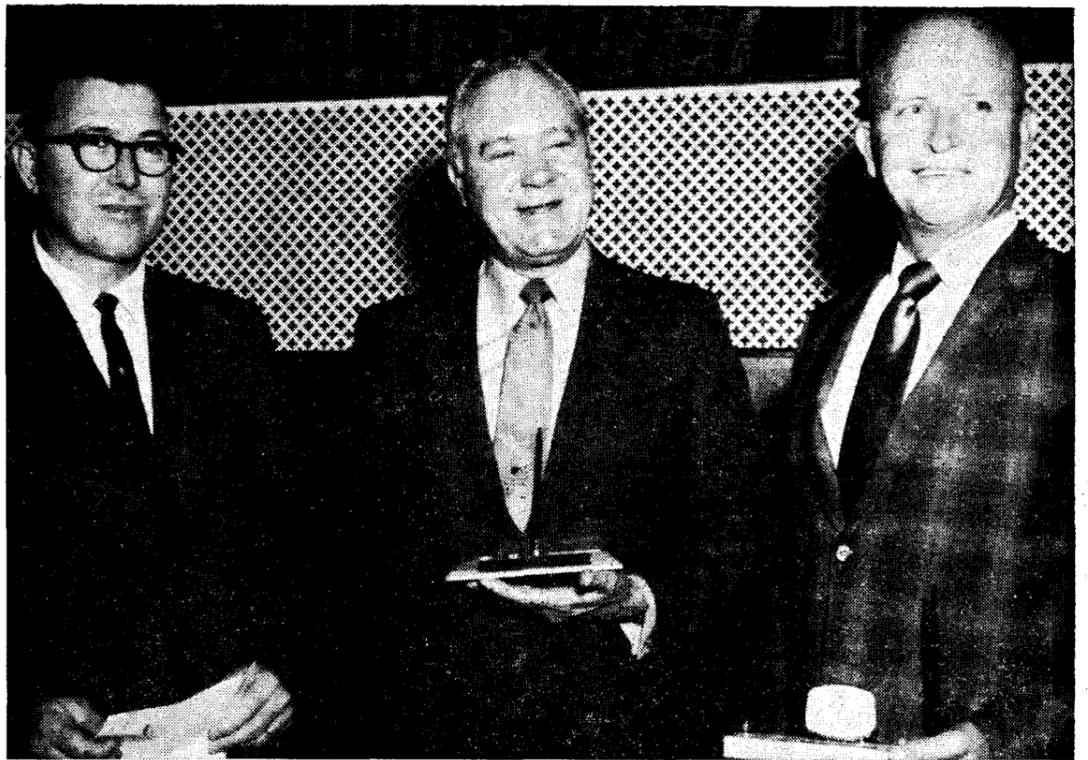
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BETSY ROSS?—No, she is the secretary to the Assistant Commandant, Missile and Munitions Center and School. But, Henrietta White of Huntsville, seems to be doing quite well in sewing the new shoulder sleeve insignia of MMCS on the jacket of the school's Command Sergeant Major. The insignia, approved by the Institute of Heraldry last December, is now authorized for wear by all military personnel and is available in the Main PX and the MMCS Bookstore. The insignia will be authorized for issue to all enlisted men through the normal supply channels and will replace the CONARC insignia now worn on Class "A" and fatigue uniforms. A description of the insignia appears in the MMCS Names in the News column.



HONORARY SERGEANT MAJOR—Redstone Arsenal sergeants major honored, from left, Command Sgt. Maj. Joe L. Pitt, School Brigade, MMCS; Huntsville Police Chief Floyd Dyar, and Sgt. Maj. Robert L. Stinson, School Brigade, MMCS, at a farewell banquet at the NCO Open Mess Friday. Pitt is rotating to Germany, Dyar is retiring after six years as Huntsville's police chief and Stinson is retiring after 31 years of Army service. The senior NCO awarded Dyar the honorary rank of sergeant major.

New Arrivals

TSG and Mrs. William R. Taylor, boy, Ritchie Sanford, July 17.	PVT and Mrs. William G. Carter, boy, William Leland, July 20.	son, girl, Sabrina Ann Marie, July 21.
SP5 and Mrs. Richard L. Metcalf, boy, Arthur Lynn, July 19.	SFC and Mrs. Gilberto Ayala, girl, Benita, July 21.	SP5 and Mrs. Robert C. Carrico, Jr., boy, Robert Lee Carrico.
CPT and Mrs. Jack A. Nunn, girl, Kashana Lee, July 19.	SP6 and Mrs. Wayne A. Morris, boy, Terry Wayne, July 21.	
	MAJ and Mrs. Robert G. Slaughter, boy, Jonathan Hope, July 21.	
	SP4 and Mrs. Michael O. Thompson, girl, Sabrina Ann Marie, July 21.	

July 27 — Dateline 1953 — The Korean Truce Agreement was signed.

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Try Outs Scheduled For Softball All-Stars

Regular Season Nearing End With Sixth In Lead

A full slate of games are scheduled this week in the Arsenal level unit softball competition. In addition to the regular scheduled games on Tuesday, Wednesday and Thursday there will be action Monday and Friday to make up games cancelled due to rain.

According to officials at Special Services, the league should come to a close August 11 in time to select an All-Star team to participate in the Third U. S. Army double elimination championships at Ft. Rucker, August 24-29.

Make-up contests were played Monday and Tuesday evenings, too late for results to be reported in this issue of the Rocket.

Selections for the All-Star team will be made next week. The Sports Office reports that the team will be selected on the basis of try-outs. Fifteen players and one manager will compose the team.

The Arsenal team has hopes of improving its last year's showing. Special Services officials hope that three of the best hurlers on post will be able to make the trip.

Wayne Parks, 6th ETC, MMCS, although hasn't tried for the team, is high on the list. Parks, a Californian with three state championships under his belt, has led the Sluggin' 6th to 13 straight victories. The crafty right hander has struck-out approximately 108 batters, has one perfect game to his credit and several no-hitters. According to the record books from the Sports Office, only three teams has scored a total of 11 runs against the 6th.

The other hurlers expected to

try for the All-Star team are Charles Brooks, Co. A and Gene Cagle from MICOM-I.

The Redstone Arsenal team will battle for the Third Army championship against teams from North Carolina, Georgia, Alabama and South Carolina.

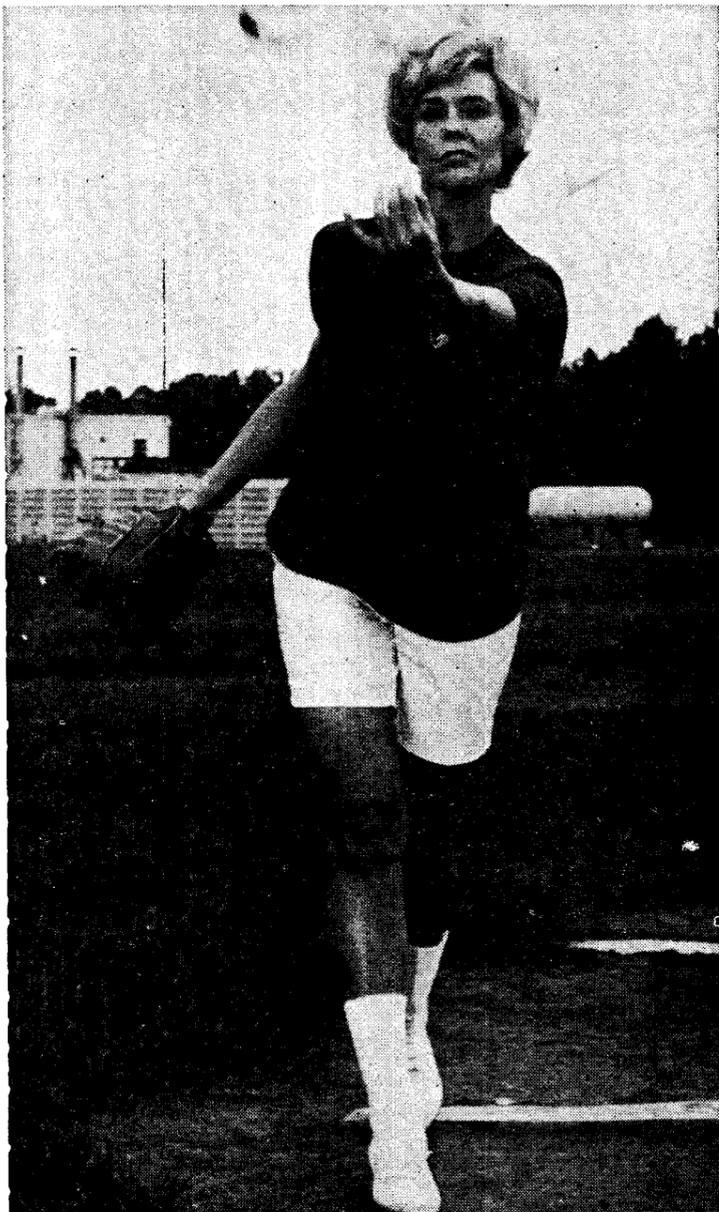
TEAM	W	L
6th ETC	13	0
MICOM I	12	1
B Company	10	3
A Company	9	3
C Company	9	3
D Company	8	3
391st MPs	7	3
UTC	9	4
MICOM II	7	6
1st ETC	5	7
5th ETC	5	7
3rd ETC	5	8
9th ETC	4	8
Marines	4	8
95th Cal.	4	8
SOC	2	9
7th ETC	2	11
227th Ord.	1	11
200th Ord.	0	12

CFC Teams Take Wins In Playoff

Play got underway in the Huntsville Women's Softball league playoff last week with each of the two Civilian Welfare Fund teams scoring a victory in opening round games.

The regular season winning Missile Command team ran up a 20-0 win over IBM while the Safeguard girls, who ended the season schedule in second place, got away with a 20-7 conquest of Automatic Electric.

The ABM girls opened the meet with a resounding 29-hit attack



IN WOMENS TOURNEY — Southpaw Claudelle Griggs (left) hopes to hurl Safeguard to the championship in the Huntsville Women's League playoffs now being played, while Sharon Rainey (top) and Sandy Phillips are confident that the Missile Command will walk off with all the honors. The two Civilian Welfare Fund-sponsored teams finished one-two in regular season play.



YOUTH SPORTS PROGRAM

Schedule for Week August 3 thru August 8

Time — Activity	Location
8:00 a.m.—Wednesday	Swimming Banquet
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
8:30 a.m.—12 noon Thurs.—Golf Clinic	RSA Golf Course
1:00 p.m. Daily—Rangerette Practice	Baseball Field No. 1
10:00 a.m. Saturday—Bowling Clinic	RSA Lanes
9:00 a.m.—Saturday—Football and Cheerleader Registration	Shack F

that netted the easy win behind the effective pitching of Claude Griggs.

Jan Noble hit for the circuit and added another double for a perfect five-for-five performance and Carolyn Bell hit safely on each of her four plate appearances.

June Childress delivered the only round tripper, Faye Tapper connected for a triple and the pitcher helped her own cause along with three extra base hits.

The Missile Command got shut-out pitching from Gladys Hill to go along with a 24-hit assault in winning their sixteenth victory against a single loss.

Kathie Leeth clouted a three-run homer and added a pair of singles to pace the attack while Barbara Ikard, Jackie Carswell and Sharon Rainey each added three safeties and Gladys delivered a triple.

HERC Trio Tops Golf Standings

The three-man team of Hal Madry, Lloyd Chapman and Paul Spelar owns a commanding seven-point lead on the field going into the stretch run of the P&P Golf League schedule.

Only six weeks of play remains for the rest of the league to pare the lead of the leaders who are trying to regain the league championship that they won two years ago.

The defending championship crew of Rick Shingler, Charles Fickling and Paul Grieb got off to a slow start this year and have lost all chance for a successful defense.

The Howard Andrews-Les Fisk-Jim Turner trio trails the leaders in second place after 14 weeks of action at the Piedmont Par 3 course with Bob Brand and Lloyd Jackson holding down the show position.

One defending champion who appears likely to repeat is Lee Keim who has once more compiled the low individual average. The veteran linkster is doing even better than a year ago when he ended the season with an average round of 56.3. Keim's present average is an even 55 two strokes below the performance of Homer Dew.

Keim and Dew share the low scratch round, each having recorded a 52. Floyd Clark turned in a

S&M Bowlers Set Tentative Plans

An ambitious bowling program is being planned by the Supply and Maintenance Directorate this winter with most of the action tentatively scheduled for Wednesday evenings at the Playmor Lanes in Huntsville.

Mei Webb, president of the S&M Men's League, has taken over the responsibility for the early planning. He indicated that the 30 lanes at the Playmor will be available on that night for both the 6 and 8 o'clock shifts.

His plans call for three leagues, the Men's league, the Women's League and a Mixed league.

Bowlers desiring to affiliate with any of the three setups are asked to contact Webb at 6-2686 or 6-5365.

53 and Tom Whatley shot a 54. Clark has accounted for 23 birdies to lead all Division A golfers while Cecil Bishop has recorded 16 in Division B and Stan Bennett has 8 birds to share the Division C lead with Ray Kelley and Bill Levie.



TO THE WINNER—Mrs. George McBride has the honor of presenting the championship trophy to members of the Redstone Sprints following their win in the recent 8-12 year old girls softball tournament staged in Huntsville. SFC John Dinkel, softball commissioner for the Youth Sports Program, accepted the trophy at the banquet that was staged last week at the NCO Open Mess. SSG Edward Ates, manager of the Sprints, stands next to Mrs. McBride with the team's coaches, Bettina Males and Maj. Martin Warvi, at the right. The Arsenal girls came out of the loser's bracket to hand the Dixie Flyers a pair of final round defeats with Carol Withers getting credit for both of the victories.



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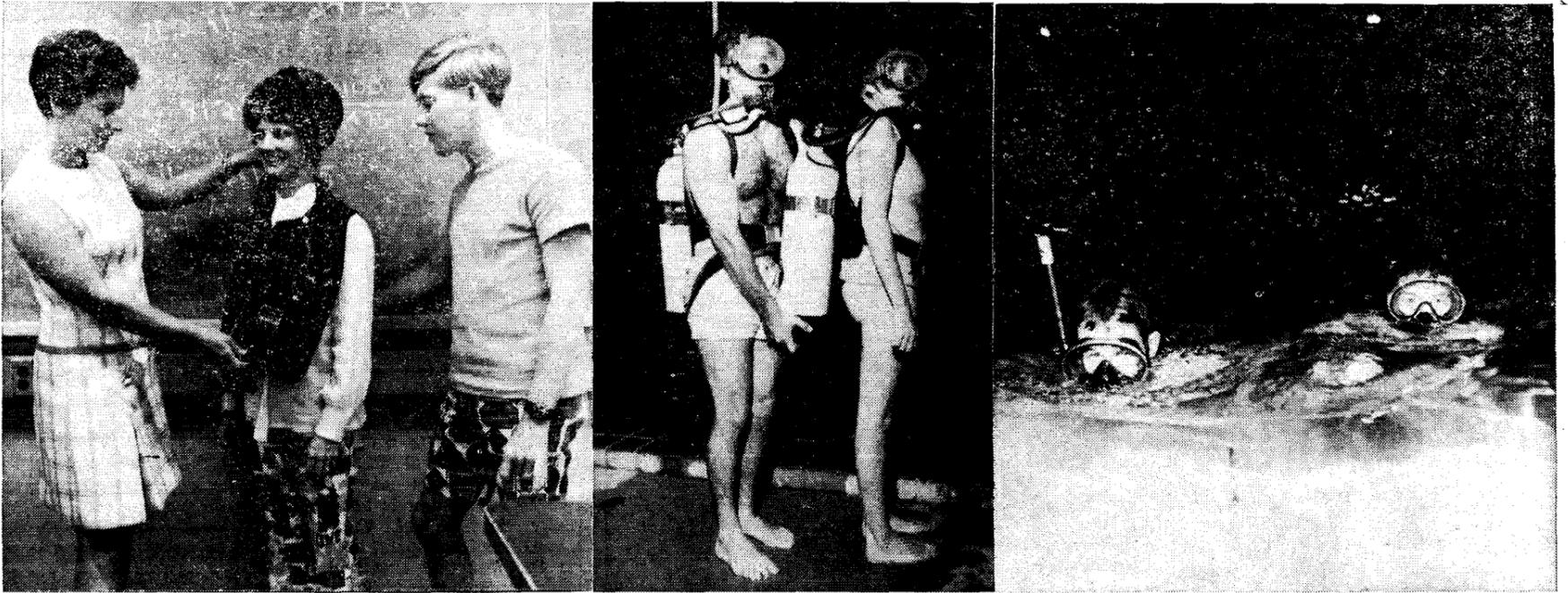
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FIN AND SNORKEL SET—Bobbie McClure explains the operation of a life vest to SP5 Russell Norman and his wife, Margurite, both members of the SCUBA diving course, in the photo on the left. Another couple, Capt.

Bill Covelli and his wife, Carol, show what the well-dressed SCUBA couple is wearing in the center, while two dentists try out their masks and snorkels in the pic-

ture on the right. They are Capt. Robert Gudwin with his snorkel showing and Capt. Bruce Barnhardt in the diving mask.

Club May Be Next—

SCUBA Diving Class Opens

Redstone people who would like to become members of the "Fin and Snorkel" set, can sign up for the SCUBA Diving Course at the Special Services office in Building 3491.

Active duty military and retired personnel and their dependents are eligible to attend the course which covers 20 hours of classroom instruction and 20 hours of equipment instruction in the base swimming pool.

There is a fee for the course and all students must provide their own mask, fins and snorkel. Tanks, regulators, back packs and weight belts used in the course are furnished by Cliff and Bobbie McClure, the instructors.

Classroom instruction covers the physics of diving, water safety, first aid above and below the water and familiarization with the characteristics of sea creatures encountered in diving.

Instruction at the swimming pool includes how to use fins, mask and snorkel, buddy breathing, water entry, how equipment works, and how to use Self Contained Underwater Breathing Apparatus (SCUBA).

Each class is limited to approximately 25 students so that instruc-

tors can provide close supervision and help during the course. Text books are used and class participation is encouraged in the discussion of problems and difficult areas of understanding.

Classes are held on Tuesday and Friday nights from 6 to 10 p.m. From 6 to 8 p.m. classroom instruction is provided in room 114 of Toftoy Hall and from 8 to 10 p.m. the class moves to the swimming pool on Vincent Drive.

According to Mrs. Bobbie McClure, one of the instructors, "Our students must pass the written tests and the course before we will issue a "qualified SCUBA card."

One of the highlights of the course is the final week when the class goes to Panama City or Morrison Springs, Fla. Here the new SCUBA divers get a chance to equalize their ears and get used to deep water.

A new class will be starting soon and interested personnel can get the facts from Capt. Paul Jensen, Special Services Officer at 876-2501.

According to Capt. Jensen, plans are underway to start a SCUBA Club on the Arsenal if there are enough people interested in participating.

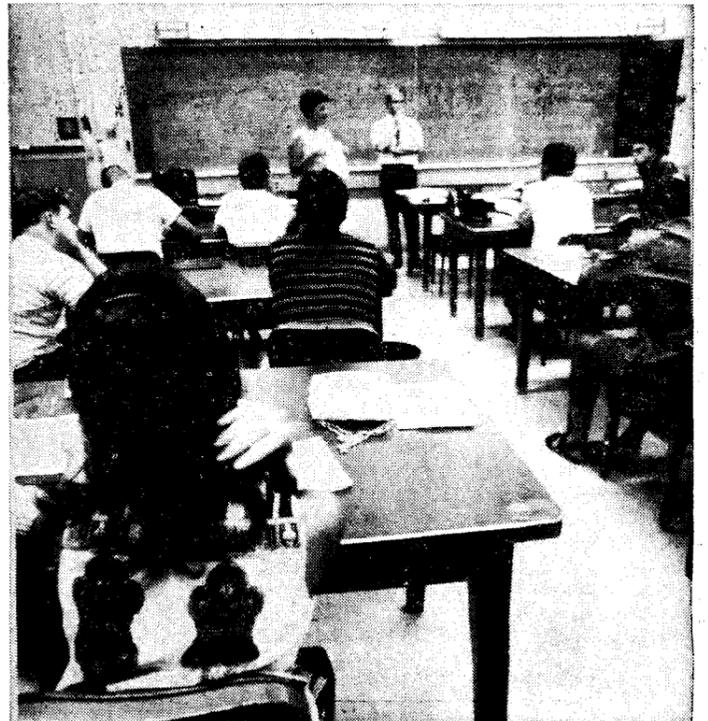
Williamson Cops Low Net Trophy

The first Jim Walters' Open Golf Tournament was played on July 11 with 31 winners posted from a field of 70 players.

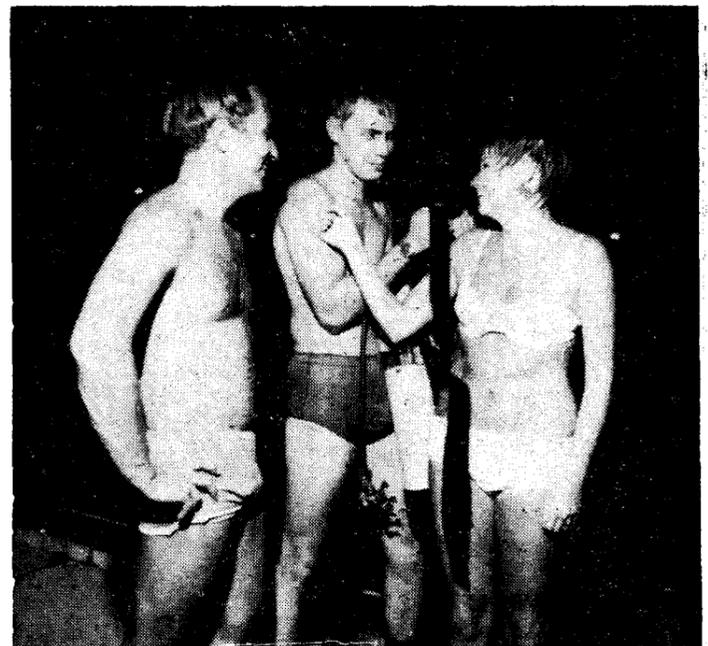
This tournament has been named in honor of Colonel Jim Walters, present chief of staff of Safeguard Command, who will retire from active federal service this month.

Col. Walters presented first through fourth place awards to tournament winners in his office. The first place winners were: CW4 Patrick G. Keefe, ARADCOM, (138) (Championship Flight—"A" Division); Chuck Richardson, SAFSCOM, (144) (Championship Flight—"B" Division); Lt. Col. R. Williamson, HND, (134) (First Flight—"A" Division). Col. H. L. Nolan, SAFSCOM, (145) (First Flight—"B" Division); Charles Stephens, SAFSCOM, (146) (Second Flight—"A" Division); Al Simpson, SAFSCOM, (153) (Second Flight—"B" Division); and C. J. Kibodeaux, SAFLOG, (149) (Third Flight).

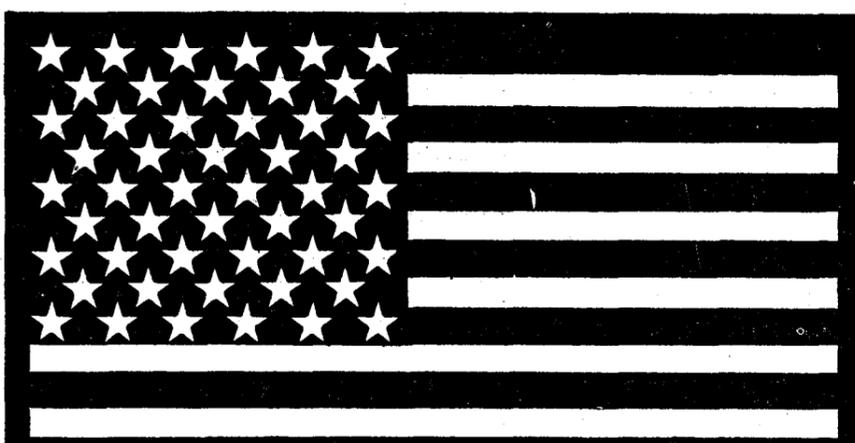
The Jim Walters' Low Net Trophy was won by Lt. Col. Williamson.



FISH OUT OF WATER—Members of the SCUBA Diving Course sit in class and learn about the physics of diving from instructors Bobbie McClure and Steve Rosing. Personnel interested in SCUBA diving can get information from Special Services 876-2501.



IT'S SO HEAVY—Instructor, Steve Rosing, left, laughs as Capt. Paul Jensen helps his wife Jory slip an oxygen tank on prior to entering the water. Members of the SCUBA diving course get to try out their equipment during classes on Tuesday and Friday evenings as part of the Special Services program.



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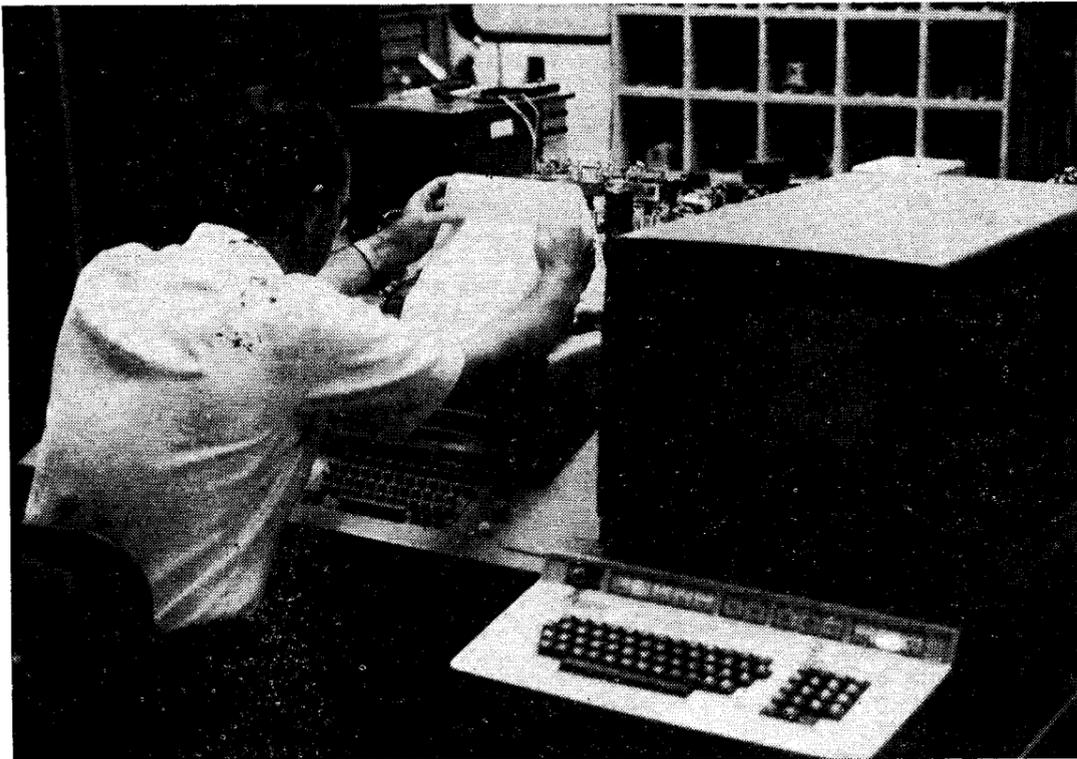
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AUTOCAL—H. Jack Moore reads the results of a calibration test performed on the Automated Calibration System being developed for use of calibration technicians wherever the Army has equipment in the field. Eventually it will be housed in a van or shelter.

Would Revolutionize— Calibration May Soon Be Automated

Fred Seeley, a physicist, and Malcolm Shelton, an electrical engineer, are currently developing at the Army Missile Command an automated calibration system for physical and electronic instruments and devices that could revolutionize Army measurement procedures.

In the modern Army, missile systems, aircraft instruments, checkout equipment and any device that records a measurement on which the Army must rely, is the responsibility of metrologists at the Army Metrology and Calibration Center on Redstone Arsenal.

As new measuring devices and systems come into the inventory, the Metrology Development and Engineering Division, headed by

M. L. Fruechtnicht, designs and ultimately purchases all standards used in Army calibration systems.

Since the U.S. Bureau of Standards is the ultimate authority in measurement technology, Fruechtnicht and his engineers work closely with them in their research and development of Army calibration systems.

Much of the Army's calibration now is being done manually which means that a man has an instrument on the work bench and physically turns the knobs to calibrate and certify the accuracy of the instrument.

While this manual calibration is dependable, it requires more skilled technicians in the field and a longer time to perform the job. These individuals have to follow set procedures and deviations caused by field conditions and surroundings could result in faulty calibration.

Seeley and Shelton's main objective is to design and develop a system that is automatic and will also correct and certify, by reference to fundamental standards built into the system.

Such automation would provide

failure detection and analysis which would save the technician time and work in system maintenance.

With much of the Army's operations conducted in field buildings or mobile trailers, Seeley and Shelton would like to make calibration less dependent on temperature, humidity and other environmental factors that exist under those conditions.

In their development phase, Seeley and Shelton have created a situation where an experiment is programmed into the computer for solution. When quitting time comes, the operator goes home and the computer continues to work on the program unattended. Next morning the operator checks the completed program and then moves on to another phase of the experiment.

With this experiment the computer can be programmed to detect irregularities, modify the program, continue, or quit the experiment, all automatically and without benefit of an operator.

The advantages of automation are that calibration is well controlled, faster, and requires less

MEDIHC Now In 25 States

WASHINGTON (AFPS) — Department of Defense officials report that 25 states are now participating fully in MEDIHC, the program that guides departing servicemen and women into civilian health centers.

MEDIHC (Military Experience Directed Into Health Careers) was started in Texas. The other states are:

Alabama, Arkansas, California, Colorado, Connecticut, Florida, Idaho, Indiana, Iowa, Louisiana,

Maine, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New York, North Dakota, Oklahoma, Pennsylvania, Rhode Island, Tennessee, Utah and Virginia.

Through MEDIHC, qualified enlisted men and women with less than 90 days left on active duty are referred to educators and employers in civilian health fields.

The program is administered within the framework of the Project Transition program which operates at more than 200 military installations in the United States. Service personnel interested in the MEDIHC program should visit their Project Transition office or unit personnel office.

skilled personnel on hand to accomplish the job.

While complete automation would be an ideal situation, there are some facets of calibration where automation is not economically feasible at the present time. One such point in question is the fact that non-electrical or electronic equipment is much more difficult to automate.

A gauge block (a standard of length) for example, is less economical to calibrate than a voltage ohmmeter, like the average electrician uses in everyday work.

Even so, the time is fast approaching when many of the Army's difficult calibration problems will be solved by systems with self-calibrating capabilities.

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All power and air, rack on top. Country Squire.

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Unit Training Command Authorized Own Guidon

The Institute of Heraldry, U.S. Army, has authorized a distinguishing flag and guidon for Unit Training Command of the Missile and Munitions Center and School.

The flag and guidon will be manufactured in accordance with drawings furnished by the Institute to the Army Support Center at Philadelphia.

The flag has a crimson base, fringed in yellow for Ordnance with the authorized shoulder sleeve insignia of MMCS centered thereon. In the upper fly end of the flag a monogrammed "UTC" is embroidered in yellow.

Same As Insignia

The guidon for Headquarters Company is of the same color and pattern as the flag with the shoulder sleeve insignia 8½ inches in height.

Unit Training Command was organized as a separate command June 1, 1967. Prior to that the

mission of the command was conducted by an instructional department of MMCS called Directorate of Unit Training.

The mission of the unit, as stated in the organizing General Order, is to "provide control, administration and supply functions for personnel and units assigned or attached."

Three missile maintenance support detachments are currently attached to the battalion-sized unit. Also attached to the command are deploying units which are activated, equipped, and trained by personnel of UTC.

Unit Per Week

Thus far the command has trained and equipped over 180 units for deployment. The figure also includes some 66 Allied missile support units.

In addition to training deploying units, Unit Training Command also conducts training for explosive ordnance units. The units come to Redstone Arsenal on an average of one per week to be tested on all phases of explosive ordnance techniques.

During the summer months the training load of UTC is increased as Ordnance units of the Army National Guard and Reserves make a trip to Redstone Arsenal for two weeks summer training. UTC is primarily responsible for providing administrative and training assistance to these units.



2,000 Reserve Posts Open In Many Fields

WASHINGTON (AFPS) — More than 2,000 Air Force Reserve positions in a wide variety of career fields are open at Defense Department, Air Force, major command and field extension unit levels, according to the USAF Directorate of Reserve Personnel.

Officers and airmen at bases around the world about to leave active duty will be the primary subjects of a concentrated recruiting campaign to fill the openings for mobilization augmentees.

Among other openings are positions with the Data Systems Design Center, Department of Defense agencies, Hq USAF, USAF Field Extensions, and HQ COMD USAF and its subordinate units. Most sought after candidates are doctors, nurses and medical technicians, plus intelligence, weather, supply, engineering, field maintenance, data processing, personnel and administrative specialists.

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DOD Extends Recruiting Efforts For D.C. Police

WASHINGTON (AFPS) — The special effort to recruit servicemen for the District of Columbia Police Department — originally planned to end June 30 — has been extended to Aug. 31, Defense officials have announced.

In a message to all participating commands, officials said, "All personnel who complete their term of military service between now

and Jan. 28, 1971 are eligible to apply for the program."

Servicemen accepted by the DC PD will be released as early as 150 days before their normal enlistment expiration, but "deferred personnel who cannot be separated by Aug. 31 are not eligible for this program."

Defense officials said the DCPD requested the recruitment program

be extended because the goal of 5,100 policemen by the June 30 deadline was not reached.

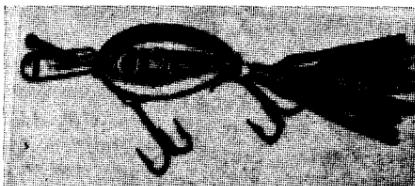
A serviceman interested in the program should check with his commander or personnel officer to determine whether he meets the general requirements. An applicant should be between 20- and 29-years-old, less than 6 feet 5 but more than 5 feet 7 in height, weigh at least 140 pounds, have at least 20-60 vision correctable to 20-20, have clean civilian and military records, be a high school graduate or equivalent, and be willing to live within 21 miles of the Capitol.

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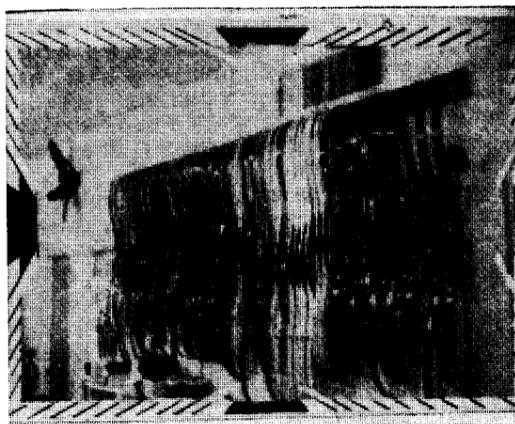


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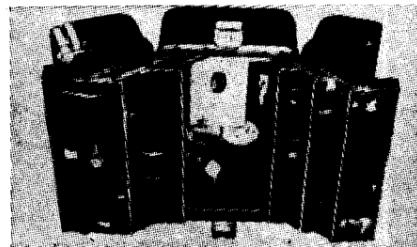


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A TOMATO GETS THE EYE—Mrs. Myrna Sharpe eyes a weird shaped tomato that looks strangely human with a little help. The strange tomato was grown by Sam Wood, an illustrator with the Audio Visual Branch. Mrs. Sharpe is an Administrative Assistant in the Lance Project Office.

CLEANING CATCH IS FISHY STORY

One of the most troublesome parts of fishing is having to clean what you catch. Some anglers get around this chore by returning fish they catch to the water. But, if you enjoy eating fish, this is no solution.

There are three basic methods of cleaning and preparing fish for eating or storage, according to fishing experts, and the methods vary according to the kind of fish caught.

A method favored for walleye, white bass and northern pike is to remove the head and internal organs, split the body along the backbone, and then filet the fish by running a sharp, slender knife between flesh and skin. The remaining meat is ready to cook and nearly bone-free.

A second cleaning method is to remove only the outer scales, leaving the skin attached. This is commonly done with sun fish, bass, crappie and other game fish which have few bones—or at least bones large enough not to be a problem.



It's easier to clean these fish if the head is left attached and the body cavity is unbroken until the scales have been removed.

Catfish dictate a third method of cleaning. Here, the skin must be removed before preparing. Cut the skin completely around the fish behind the head. Using pliers, pull the skin toward the tail, being careful not to tear flesh as it comes loose. After this is done, remove the head and viscera. Then cut catfish into "steaks" or rounds,

Railroaders Meet Tomorrow Evening

The Redstone Division of the North Alabama Railroad Club will hold its next meeting in the conference room of the Huntsville Public Library at 7:00 p.m., Thursday, July 30.

A fellowship period will begin at 6:30 p.m. The program will feature slides of the Mobile and Gulf Railroad.

All persons having an interest in railroading are invited to attend. Additional information on the Club, its objectives and goals may be obtained by calling 881-3629 or 852-8917.

making each cut between the large bones of the rib cage. These chunks of meat should be three-quarters of an inch thick. (AFPS)

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Free VA Pamphlet

WASHINGTON (AFPS) — Free pamphlets on veterans' government life insurance programs are available at Veterans Administration offices.

Each pamphlet contains a section about National Service Life Insurance policies. Other sections cover designation of beneficiaries, optional settlements, and total disability income provisions.

The VA stressed these pamphlets contain only general information, and that specific information about individual policies should be requested from the VA Center where the veteran's insurance records are kept (or personal affairs office).

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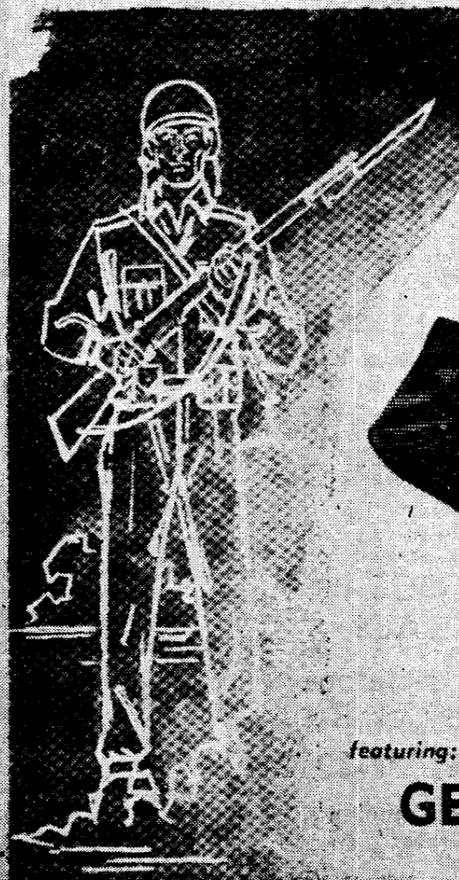


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Cantrell Services Held Sunday

Funeral services for Marlon Wade Cantrell, who was employed by the Army at Redstone Arsenal, were held Sunday at Gallant Funeral Home in Fayetteville, Tenn. Burial followed in Riverview Memorial Gardens there.

Cantrell, who worked in the Army Missile Command's finance and accounting center, was killed in a three vehicle collision on Redstone last Thursday morning. He was 35.

Two military policemen and another Army civilian were injured in the accident but were released after treatment at Redstone Army Hospital.

Cantrell was assistant chief of the Disbursing Division at F&A and Chief of the Cash Control Branch.

Military Police said an Army sedan, in which Cantrell and two MPs were riding, collided with an Army truck at the intersection of Buxton Road and McAlpine Road. After colliding with the truck, the sedan continued east on Buxton and struck a tractor towing a road sweeper, investigators said.

Cantrell was pronounced dead at the scene of the accident. Both MPs and the driver of the tractor were injured while the truck driver apparently was not hurt.

Cantrell is survived by his wife, Mrs. Sue Carol (Hughes) Cantrell and two daughters, Candice Lagay and Carmen Sue; his father and stepmother, Rev. and Mrs. Dewey Cantrell, also of Fayetteville; two brothers, Kenneth, of Fayetteville and David, stationed with the Army in Germany; and a sister, Mrs. Carolyn Nickols, of Fackler, Ala.

Enlisted Men Look Over Russell Cave

A tour of Russell Cave National Monument, located at Bridgeport, Ala., has been scheduled by the Service Club for Saturday.

One of the most important archaeological strikes of the century is exhibited in a natural cliff shelter at the edge of a river valley. Russell Cave National Monument, in whose soil is being uncovered tools, weapons, charcoal, bones and other relics of prehistoric population.

Discovered in 1953, excavations are directed by the Smithsonian Institute and National Geographic Society. A museum displays the artifacts.

The tour bus will leave the Service Club at 1100 hrs. A picnic lunch will be furnished.

Unique Show Tops Service Club Fare

Enlisted men at Redstone will be entertained at the Service Club with a unique show of folk songs, satire, humor, caricatures by Joe and Penny Aronson of Philadelphia on Sunday evening.

Joe and Penny feature audience participation with songs of many countries including Chinese love songs, traditional ballads of the British Isles, Poland, Nigeria and Israel.

Their original caricatures of dignitaries and humor gives stimulating entertainment for the entire audience.

Showtime is 8 o'clock.

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<p>'66 PONTIAC Lemans 2 dr. H.T., factory air, full power, 4 speed. \$1495.00</p> <p>'66 RAMBLER American 2 dr. H.T. 6, auto trans. \$695.00</p> <p>'66 OLDSMOBILE Delta 88 4 dr., full power, factory air, local one owner. \$1495.00</p> <p>'66 DODGE Coronet 440 2 dr. H.T., V-8, straight shift. \$895.00</p> <p>'66 MUSTANG Conv. V-8, auto trans., new top, sharp. \$1195.00</p> <p>'66 COMET Cyclone 2 dr. H.T., full power, factory air., auto trans., real sharp. \$1495.00</p> <p>'66 PONTIAC Bonn. 4 dr., full power, factory air, green with black V. top. \$1495.00</p> <p>'66 FORD Fairlane Squire 9 pass. sta/wgn. V-8, power steering, factory air, rack on top. \$1495.00</p> <p>'66 FORD Galaxie Conv., power steering, auto trans., real sharp. \$1195.00</p> <p>'65 CHEVELLE 4 dr. "6" auto trans., real sharp. \$995.00</p>	<p>'65 CHEVELLE Malibu SS 2 dr. H.T., 327 auto trans., full power, local car, like new. \$1295.00</p> <p>'65 FORD Galaxie 500 4 dr., V-8, auto trans., power. \$995.00</p> <p>'65 PONTIAC Catalina 2 Jr. H.T., full power, auto trans., local one owner. \$995.00</p>
<p>'64 CHEVELLE sta/wgn., factory air, auto trans. \$695.00</p> <p>'64 VALIANT V 200 4 dr., "6" auto trans., real nice. \$695.00</p> <p>'64 RAMBLER 4 dr. American "6" auto trans. \$495.00</p> <p>'64 FAIRLANE 500 4 dr., 289 V-8, auto trans., local one owner. Like new. \$795.00</p> <p>'64 FALCON 2 dr. "6" auto trans., factory air, local car. Like new. \$795.00</p> <p>'64 VW A-1 Cond., local car. \$795.00</p> <p>'64 T-BIRD full power, factory air. \$695.00</p> <p>'64 FALCON Conv., six cyl. auto trans. \$495.00</p> <p>'63 MERCURY Meteor 4 dr. V-8, a to trans., local car. Like new. \$595.00</p> <p>'62 OLDSMOBILE 88 4 dr., full power, factory air. \$495.00</p> <p>'62 CADILLAC Coupe DeVille full power, factory air. \$795.00</p> <p>'57 CHEVROLET ¾ ton truck. Stake bed. A-1 condition. \$395.00</p>	<div style="border: 1px solid black; border-radius: 50%; padding: 10px; text-align: center;"> <p>Always Over 100 Cars in Stock</p> <p>ROYAL MOTOR CO.</p> <p>1000 WHITESBURG DR. Across From Hospital PHONE 539-0446</p> <p>"Everyone Drives A Used Car"</p> </div>

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NAMES IN THE NEWS
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MAJ. C. M. MITCHELL
ARCOMS AWAY

The official word has come down from Third Army Headquarters that eight individuals who were stationed at MMCS have been awarded the ARCOM. They are Cpt. Richard V. Lowe, CWO William C. Ramsey, SGM Walter J. Brennan, SFCs Adrian L. Samson, Jay H. Arnold, Jr., and Mario J. D'aquila; also included were SSG Roy G. Donica and Sp6 George H. Hubbard. Cpt. James H. Konicki, now enroute to RVN, also received an ARCOM from Col. Gilbert P. Levy, Commandant, MMCS, on July 22.

CIVIL SERVICE AWARDS

Ten-Year Service Pins were the order of the day on July 22 as six were awarded by Col. Norman L. Holland, Chief, DIT, and three were given out by Col. Levy. The Commandant also presented Bobby L. Shaw with an Outstanding Performance Rating Certificate.

Those receiving the service pins from Col. Holland were Tommy E. Adams, Arthur Decker, Carol C. Houser, Douglas G. Moore, Seth W. French and Howard B. Moore. The three individuals getting theirs from Col. Levy were Lon Arnold, Jr., Daniel C. Monroe and John W. Verbeek.

... AND THE RED FLOWS ON
 It was bloodmobile time again

for MMCS on July 22 and the school came through with their contributions very enthusiastically. The total number of pints collected for July was 237. According to the unofficial tally, the 7th ETC was the heaviest contributor with 96 men participating. For the letter companies, Co. D was the highest with 17 pints. A fair showing was made by civil service personnel with 10 pints donated. The overall total was 261 pints, but 24 of these were considered unusable. The assigned quota for MMCS was set at 112 pints, and the American Red Cross send their thanks to all those who participated for more than doubling this figure.

TRANSFER OF INSIGNIAS

July 27 has been set as the date when school personnel are to make the switch from the CONARC patch to the newly approved MMCS shoulder patch. The Institute of Heraldry describes the MMCS patch as being "On a crimson lozenge with rounded corners, three inches high and two inches overall." The design on the patch is "a yellow torch of knowledge surmounted by a yellow missile and a yellow cartridge saltirewise, the

missile crossing over the cartridge and the torch separated from the missile and cartridge by crimson finbrations, all within a 1/8 inch border." If you haven't made the change yet, be sure to do so before too long.

PROMOTION OF GRADUATION SPEAKER

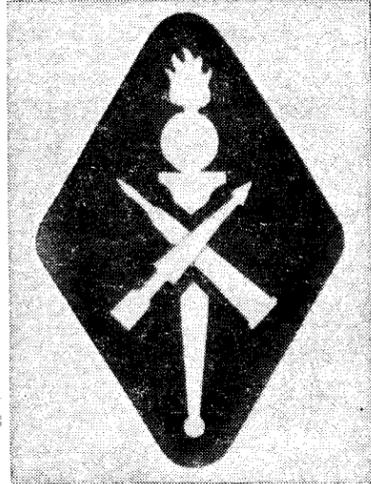
This week's graduation speaker, presently the Commanding Officer of the 3rd Bn., MMCS, was promoted to the rank of Major recently. Maj. C. M. Mitchell will speak to the students graduating from MMCS on Friday at the post theatre. Prior to coming to RSA, he was a member of the 87th Advisory Team, RVN. He came to MMCS in Sept. 1969 and was assigned to the Land Combat Missile Branch, Plans and Operations Office, and assumed his present duty as CO of 3rd Bn. on June 19, 1970. His promotion took place on July 20.

SOLE FEMALE INSTRUCTOR
 For the second time, Miss Mar-

garet Morgan has become the only instructor in an MMCS department. The first time was in 1966 when she was hired to teach in the Missile Components Division and recently, in Dec. 1969, she became the first feminine teacher in LCSS, Redeye Missile Branch.

Miss Morgan holds a Masters degree in mathematics from Birmingham Southern College. Before coming to MMCS, she instructed in Albertville, Ala., and in Birmingham. In 1962 she volunteered for the Peace Corps and spent two years teaching the young people of Ethiopia.

Miss Morgan came to MMCS in Sept. 1966 and has been working with the students who went through MCD for 3½ years and then was transferred to the Redeye Branch where she is now instructing.



MMCS SHOULDER INSIGNIA



HOSEA CHANEY
 "Your Metropolitan Man"



AAI Corporation
Gets Redeye Grant

The U. S. Army has awarded two contracts, totaling \$1,580,363, to AAI Corporation for work related to the Redeye air defense guided missile system.

One contract, for \$798,529 calls for moving target simulators for the shoulder-fired plane killer and the other, for \$781,839 is for engineering services.

Most of the work will be done at Cockseyville, Md.

Redeye is the Army's man-portable weapon system that gives soldiers an effective defense against low-flying enemy aircraft.

Negotiating the contracts was the Missile Command's Procurement and Production Directorate.

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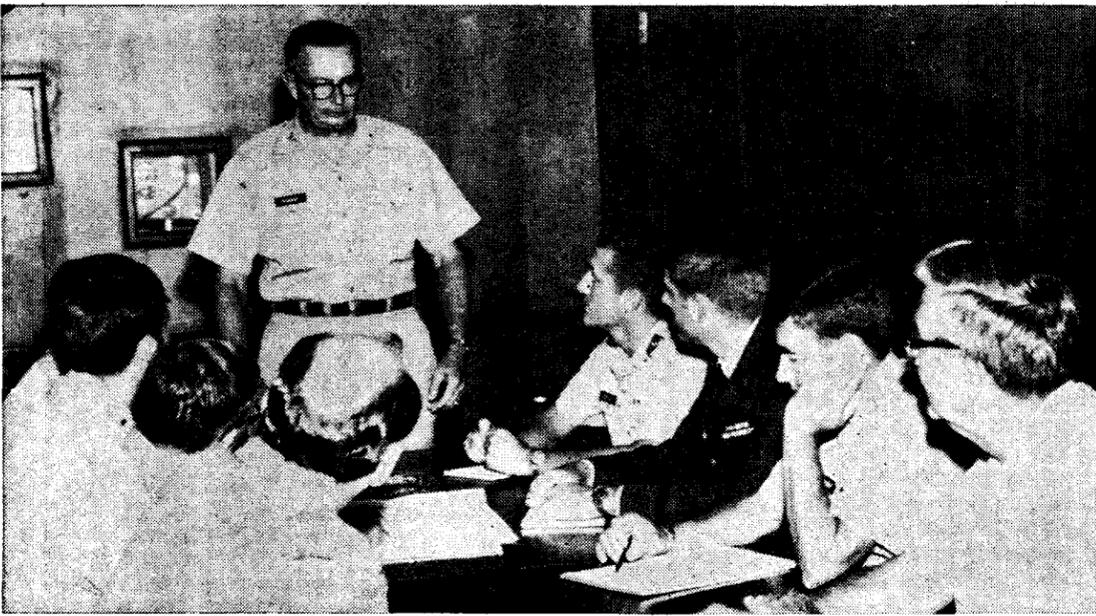
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JUNIOR OFFICERS—COL Preston B. Cannady, director of Arsenal Support Operations, reviews pertinent problems that have come to the attention of Redstone's higher echelons of command through the Junior Officer Council (JOC). Seated with JOC members are representatives from the housing office, Provost Marshal, Post Engineers, and DASO Safety Division. The group met to discuss possible solutions to the parking dilemma in Redstone's junior officer housing area.



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President Signs Increase In Insurance Coverage

WASHINGTON (AFPS)—Service- men's Group Life Insurance coverage for everybody in the armed forces was automatically increased from \$10,000 to \$15,000 by legislation signed into law by President Nixon.

The law also extends coverage to Reservists, National Guardsmen, and ROTC cadets during drills, summer camp duty, and while traveling to and from training.

Servicemen on active duty will pay \$3 a month for the \$15,000 coverage, while premiums for Reservists, Guardsmen and ROTC cadets will be \$1.80 per year.

The coverage is effective for all deaths occurring after mid-night June 24, according to Veterans Administration Director Donald E. Johnson.

Servicemen who want \$10,000, \$5,000, or no coverage at all, will have to say so in writing. Such requests, Defense officials said, may be made through unit personnel offices.

The rate on \$10,000 coverage is \$2 monthly for a man on active duty, while the \$5,000 coverage is

\$1 per month.

Premiums for Reservists, Guardsmen and ROTC cadets will be \$1.20 annually for \$10,000 coverage and 60 cents annually for the \$5,000 policy.

The law also extends from 120 days to one year the insurance of active duty men who are totally disabled at the time they are separated from the military.

New Desert Uniforms

WASHINGTON (AFPS)—A light-weight desert uniform made of ventilated weave design has been approved by the Army for development.

The uniform, proposed by the Army's Combat Developments Command, Fort Belvoir, Va., has dust-proof flaps on jacket and trouser pockets and a jacket collar to guard the head and neck from the sun.

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\$100 DOLLARS DOWN—1969 Chevy 4-door, white with black vinyl top, auto, air, power steering and brakes, brand new tires, pay \$100 down and bank will finance the balance of \$2075, phone 837-5352. ttc

3. Miscellaneous

SUMMER WEAR — shorts, blouses, slacks, swim suits 50 cents ea. Over 100 men's suits \$2 ea. Bargain prices on all household items. RUMMAGE CENTER 3320 Triana Blvd. 7-22 c

CUSTOM FITTED BRAS, girdles and swim wear, look your best at the pool in a bathing suit that fits, slims, flattens and curves. Phone Pat Robinson 852-2053. tffc

FOR SALE—Springer Spaniel puppies, six weeks old 9 Aug. males \$100, females \$50. (2) 18 ft. Fiberglass runabout, 55 hp motor, trailer, \$1,000 (3) 1966 Supersport 396 Turbojet air, AM-FM Instruments \$1300 (4) For Rent Beach Cottage, Panama City, write Ray Werden, Rte. No. 1, Guntersville, Ala. 35976. 7-29 p

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5. Houses, Lots - Sale

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ARMY HONORS HUNTSVILLE SOLDIER—Maj. Gen. Edwin I. Donley, Commanding General of the Army Missile Command, presents to Mr. and Mrs. Howard R. Andrews, Sr., of Huntsville, medals awarded posthumously to their son, Capt. Andrews was killed April 17 in a helicopter crash in Vietnam. As a civilian employee at Redstone prior to entering the Army in 1968, Capt. Andrews worked as a patent adviser in the Missile Command patent center. His father presently is employed by the Lance Project Office. Among medals were the Bronze Star and Purple Heart.

Management Essay Contest Announced

WASHINGTON (ANF) — The Fund for the Advancement of Management in the Armed Forces, a private association of the U.S. Army Management School (USAMS), has announced its third annual essay contest.

Purpose of the contest is to promote better management in the

Harris, ADCAT Project Office; Pershing Project Office; and E. R. Edmondson, Shillelagh Project Office.



armed forces by encouraging military personnel (active, retired and reserve) and Department of Defense civilians to write on subjects within the general management, functional management and managerial analytical technique areas.

First prize is \$300 while second and third place winners will get \$200 and \$100, respectively.

Completed essays must be post-marked not later than Sept. 30, 1970 and sent to the fund; care of USAMS, Ft. Belvoir, Va. 22060. Further information is available at the same address.

Ten Enroll For Off-Post Study

Ten employees will be away from Redstone Arsenal attending educational courses this week.

Attending the University of Oklahoma management course are James R. Cissell, Procurement & Production Directorate; James O. Cole, Hawk Project Office; Truman W. Howard III, SAM-D Project Office; and Kenneth P. Jones, Research and Engineering Directorate.

Charles D. Whitener, Missile Intelligence Directorate, is attending a course in tropospheric radio propagation engineering at the University of Colorado.

Glen B. Nicholas, SAM-D Project Office, is to attend a three-day symposium to be conducted at the Georgia Institute of Technology.

Those attending a procurement seminar at the Army Logistics Center, Fort Lee, include H. H.

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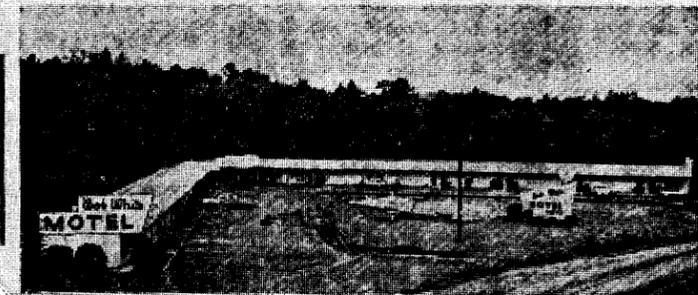


Phone 539-8115

2 BIG SALES AUCTION FRIDAY, AUGUST 7TH 10:30 A.M.

SALE NUMBER ONE 10:30 A.M.

BOB WHITE MOTEL



ALEXANDER CITY, ALABAMA, The Property of Mr. and Mrs. C. C. Hardy

Located one quarter mile west of the intersection of heavily traveled highways 280 and 63 on 280. This motel consists of 22 rental rooms; 13 singles and 9 doubles . . . PLUS a 3 room living quarters. The entire complex is centrally heated and air conditioned with individual room controls. All rooms have wall-to-wall carpet, television and phones and ceramic tiled baths. Available for customer use is a large washing machine and dryer and also Coke and candy machines. There is a LARGE SWIMMING POOL located front and center and the parking area has just been resurfaced and is well lighted. To further promote tourist business, there are approximately 40 billboards up on roads leading into the Bob White Motel and they are in excellent condition. The motel has city water and sewerage and has approximately 325 ft. frontage on Highway 280. Everything is included in the sale of this motel except for the furniture in the living quarters. This motel is in A-1 condition and the average rate of occupancy is approximately 85%. This prime piece of real estate and booming business will be sold to the highest bidder and you set the price!

TERMS: 29% down day of sale. Balance to be paid in 30 days. OR the owners will finance 71% for 10 years at 7 1/2% simple interest.

SALE NUMBER TWO 12:30 P.M.

Commercial Property

ALEXANDER CITY, ALABAMA, The Property of Frallice Sanders

Located on Highway 280 East in the city limits. There is approximately 173 ft. frontage on Highway 280 and the property runs approximately 240 feet deep with 227 ft. across the back side. Situated on this property is a dwelling and a small commercial building and several trailer spaces. This prime piece of commercial property is ideal for most any type commercial operation. To be sold to the highest bidder and you set the price!

TERMS: 25% down sale day and the balance to be paid in 30 days.

All information contained in this ad was derived from the property owners mentioned above and is believed to be correct, but is not guaranteed by Cole Auction Company.

—FOR FURTHER INFORMATION CONTACT—

COLE AUCTION CO.

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Corner Jordan Lane & Governors Drive

We Buy And Sell Used Cars!

1968 VW SEDAN \$1395.

1968 OPEL KADETT, One Owner \$1395.

1967 OPEL KADETT, Nice \$995.

1966 PONTIAC, 2 door hardtop, V-8, auto., vinyl top \$1395.

1967 GTO 4-speed, vinyl top, real sharp. \$1695.

1966 OLDS CUTLASS, 4 dr., V8, auto., power and air. \$1595.

1964 CHEVY MALIBU Wagon, V-8, auto., one owner, local car. \$995.

1963 CADILLAC SEDAN DeVille, fully equipped, really nice, local car. \$1195.

1963 CADILLAC CPE. DeVille, fully equipped, local lady driver \$1295.

1965 MUSTANG 6 cyl., 3 speed \$895.

1966 PLYMOUTH WAGON, V8, auto., air & power. \$1195.

1965 CHEVY IMPALA CPE., V8, auto., power & air \$1195.

1966 OLDS 98 Luxury Sedan, fully equipped local car. \$695.

1968 FORD GALAXIE, 2 door hardtop, auto., radio, heater, air, power, vinyl roof, local one owner. See this one. It is really priced right at \$1895.

Approximately 25 Others in Stock to Choose From

FRANK CLARK MOTORS

Corner Jordan Lane & Governors Drive — Pho. 837-3490

LCSS Pair Form Song Writing Team

Edward R. Kahrs, an Electronics Engineer at the Army Missile Command, is a man who goes about his work "with a song in his heart" and it really pays off.

When he is not performing his job with the Land Combat Systems Product Office, Kahrs is busy writing songs and selling them to a music publishing company.

Though he has been in the business for only 18 months, Kahrs has already written the lyrics to more than 50 songs and 30 of them are now under consideration for musical scores.

Actually his career in song writing started as a joke . . . one of his co-workers was telling him about troubles on the job, and Kahrs came out with the line, "Don't Tell Me Your Troubles." He liked the line so well, he wrote the words to a song around them and a new career was started.

His first song came so easy, he bought some books on song writing, joined the National Song Writer's Guild, and then started turning out the lyrics. He has received letters from other composers in different states who want to write music to his lyrics.

One of his collaborators is a secretary in the office, Mrs. Barbara Reed. She plays the piano and is currently writing music to three sets of lyrics: "The Sound of You", "No Love Left To Save", and "Home Again."

For Mrs. Reed, the collaboration with Kahrs is a return to music. Over ten years ago she sang with the Rythmettes Gospel Trio and was a female disc jockey with one of the Huntsville radio stations.

While Kahrs has been prolific in turning out lyrics, his songs range from country and western and re-

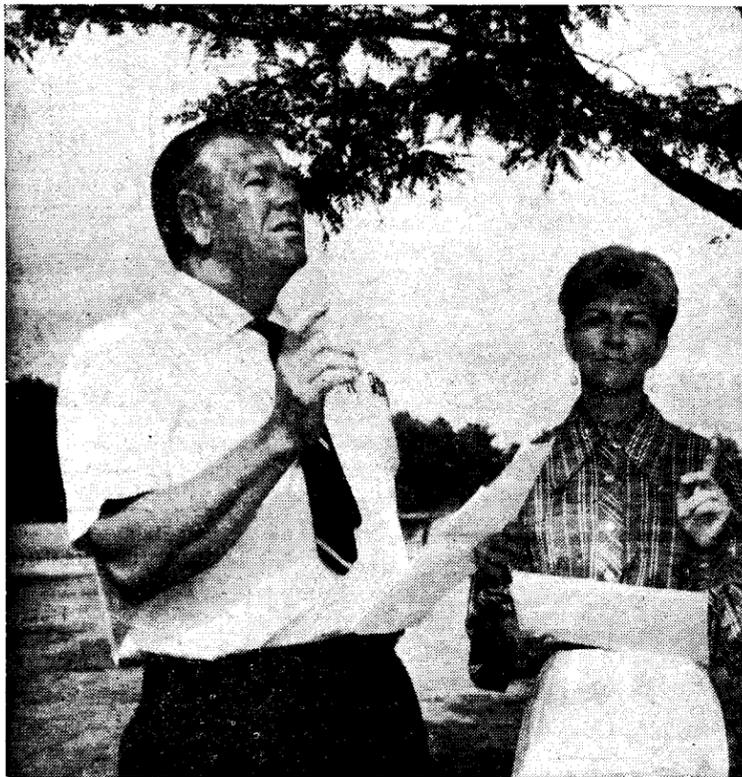
Top Rated Club Seeking Members

The Redstone Toastmasters Club, one of the Top Ten in the world, is seeking new members. The club meets weekly on Tuesday evenings at Lloyd's Restaurant on Mastin Lake Road in Huntsville.

Although membership is limited, the Redstone Club at the present time has vacancies for approximately 20 interested persons.

Toastmasters is for all men who seek to improve themselves in public speaking, oral communications and business practice. The Redstone Club is composed of men from various professions whose aim is to help themselves to become better management material and at the same time to improve their civic responsiveness.

Those individuals who may have a desire to affiliate with the Redstone Club, or seek to learn more about the organization, are asked to contact John Kaisner (881-7843) or Hugh Michaels (383-2672).



JULY RHYMES WITH SKY—Ed Kahrs and Barbara Reed match words and music to a song they are working on together. Kahrs, an electronics engineer, and Mrs. Reed, a Secretary, are in the Land Combat Support Systems Product Office. He writes lyrics as a hobby and has signed a contract with a local music publishing company. Mrs. Reed heard the words to several of his songs and is now writing the musical score.

ligious to the popular ballads of the day.

One of his collaborators, Rick Richmond, a disc jockey in Decatur, is working on the musical scores for "Stolen Pleasures", "Saddled With Sorrow", and "Mortgage on My Heart."

Looking to the future, Kahrs plans to work at fulltime as his song writing career when he retires from government service. In the meantime he is writing and getting ideas from members of his family, from friends, acquaintances and business associates.

For Ed Kahrs, the sound of music sets his pen to moving to provide the lyrics.

Movie Schedule

THURSDAY-FRIDAY, July 30-31

"Bloody Mama" (R)

INCREASED ADMISSION: adults 50c, children 25c

SATURDAY, August 1

"Popi" (G)

SUNDAY-MONDAY August 2-3

"Goodbye, Mr. Chips" (G)

INCREASED ADMISSION: adults 75c, children 25c.

TUESDAY, August 4

"Scream and Scream Again"

(GP)

Two shows nightly at 6:00 and 8:30 p.m.

Sunday matinee at 2:00 p.m.

Army Pair Finish Extension Courses

Two Army employees have recently completed extension courses under the supervision of the Civilian Personnel Office's Training and Development Division.

Robert Craig of the Army Missile Command's Procurement and Production Directorate completed the Defense Procurement Management Course which carries 132 hours of credit.

Horace Russell of the Safeguard Logistics Command completed the Defense Depot Operations Management Course and received 196 credit hours.

Both men were presented with certificates of completion and were commended by their supervisors for taking advantage of this self-development opportunity.

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Minnesotans Score High In Missile School Work

Graduates of the Army Missile and Munitions Center and School last Friday were told that the educational program for service veterans can pay as much as \$243 per month toward the cost of a college education.

Heading the class of 28 was Pfc Stephen E. Arnold of Minneapolis, Minn., who compiled a 97.17 average to lead his class in the ammunition records course and qualified as a recipient of the Association of the United States Army (AUSA) award.

The plaque, awarded only to those students who achieve an average of 96 or higher in their studies, was presented by Mr. G. S. Moshkoff, AUSA representative for the Tennessee Valley Chapter.

Sp4 Harold A. Larson, a native of Moorhead, Minn., seized second place recognition with an average of 94.2 in the Nike radar and computer repair course.

In addition to the educational benefits provided by the government, guest speaker Cpt Warren F. Hodge discussed the individuals responsibility to protect a morally-based free and productive society.

"Man's freedom," commented Hodge, "is essentially a moral issue . . . and the duty to protect this freedom is in fact the ultimate morality."

Hodge said that "although dissent is all well and good, individuals must realize that only in a free society does one have the opportunity and guaranteed right to dissent; to voice his opinion." If individuals want to retain this right, they must be willing to make the necessary sacrifices to keep our society free.

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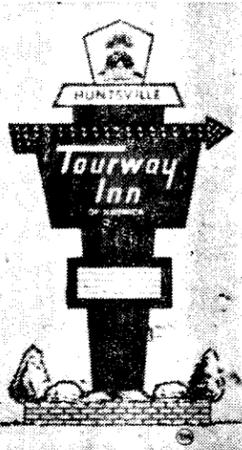
Here are some big cars who are tough enough:

*engine, transmission, rear axle, front axle assemblies, brake system, electrical system.

- 1966 CHEVROLET IMPALA** \$1795.00
4 door H.T., loaded, baby blue.
- 1966 CADILLAC SEDAN DeVILLE** \$2295.00
4 door, all power and air, white and sharp.
- 1966 PONTIAC CATALINA** \$1595.00
4 door H.T., Loaded and air, extra clean.
- 1969 CHEVROLET NOVA** \$2195.00
2 door, light green, automatic dr.
- 1966 MUSTANG** \$1395.00
3 speed shift, air, radio, yellow in color. Nice.
- 1966 PONTIAC LEMANS** \$1595.00
2 door H.T., air cond., power steering, automatic, extra clean.
- 1969 S. BACK** \$2895.00
Automatic with air, radio, red in color and sharp. 9,000 miles.
- 1969 VW STATION WAGON** \$2495.00
(Bus) Light blue in color. 12,000 miles.
- 1969 GHIA CPE** \$2295.00
Automatic stick shift, radio, yellow. 13,000 miles.
- 1968 FASTBACK** \$1895.00
Air condition, radio, dark green.
- 1966 GHIA CPE** \$1395.00
4 speed, radio, baby blue in color, whitewall tires.
- 1969 VW SEDAN** \$1895.00
Sunroof with radio and red in color.
- 1966 VW CAMPER** \$1495.00
White with camping equipment and tent.

Universal Volkswagen

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Fit many Barracudas, Camaros, Chevies, Chevy IIs, Comets, Cougars, Darts, Fairlanes and Mustangs. Plus \$2.25 or \$2.23 per tire Fed. Ex. tax and 4 tires off your car.

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Fit many Ambassadors, Chevys, Dodges, F-85s, Fords, Plymouths and Specials.

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Whitewalls 4 for \$112
Plus \$2.44 or \$2.40 per tire Fed. Ex. tax and 4 tires off your car.

G78-14 or G78-15 Blackwalls
Fit many Chevys, Dodges, Fords, Mercurys, Plymouths, Pontiacs, Specials and T-Birds.

4 for \$109

Whitewalls 4 for \$122
Plus \$2.60 per tire Fed. Ex. tax and 4 tires off your car.

H78-14 or H78-15 Blackwalls
Fit many Buicks, Chryslers, Mercurys, Oldsmobiles, Pontiacs and T-Birds.

4 for \$120

Whitewalls 4 for \$134
Plus \$2.80 per tire Fed. Ex. tax and 4 tires off your car.

J78-15 Whitewalls
Fit many Buicks, Cadillacs, Chryslers, Lincolns and Oldsmobiles.

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L78-15 Whitewalls 4 for \$154
Plus \$2.93 or \$3.20 per tire Fed. Ex. tax and 4 tires off your car.

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88¢ with this coupon

Coupon Expires July 31, 1970

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Coupon Expires July 31, 1970

Repack Outer Front Wheel Bearings This service should be performed every 10,000 miles

88¢ with this coupon

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Brake Adjustment (Drum-type) Performed by skilled brake mechanics

88¢ with this coupon Cars & Light Trucks, we'll add fluid if needed

Coupon Expires July 31, 1970

Precision Wheel Balance Prolong the life of your tires

\$1.88 PER WHEEL with this coupon

Coupon Expires July 31, 1970

Air Conditioner Sale As Low As

5000 BTU ----- \$99.00

8000 BTU ----- \$144.95

CLOSE-OUT SALE ALL LAWN MOWERS

Front End ALIGNMENT Performed by skilled mechanics using precision equipment.

\$6.88 Most American Cars And Light Trucks Parts extra if needed

Cars with torsion bars or air conditioning slightly higher.

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