

# Computer Experts Help Reduce CAC Expenses

Although they're doing it without fuss and they likely will tell you "it's nothing really!", three Army Missile Command computer men are doing "their thing" for disadvantaged people in Huntsville.

Richard Wright, Eddie Walker and Dennis Henry—who are employed by the Management Information Systems Directorate—are donating time and talent toward the Huntsville poverty program which is supported by the Community Action Committee.

"We're helping CAC design an automated system for maintaining computerized master files on families they assist," said Wright who is Chief

of the Repair Parts Section, Acquisition Branch, of MISD's System Designs and Programming Division.

"At the moment, we're taking data from interviews with needy people and are designing input cards for a small business computer which the Community Action Council purchased recently." (The computer will reduce CAC operating expenses since it can handle a workload requiring several people doing the work manually.)

"We also will help prepare summary reports which must be sent to Washington," he added.

Working at night or whenever they can find time, the trio of Army civilians volunteered in

response to a plea from Charles Ray, Director of the CAC program, who came to Redstone Arsenal seeking help.

Jim Temple, special assistant for Equal Opportunity, took the problem to Austin Couch, Acting Deputy Director of MISD.

After Couch explained the problems to a few of his experts in computer technology, the solution appeared in the form of Wright, Walker and Henry who volunteered their services.

"We understand the CAC has information now on more than 8,000 families," Wright said, "which means we'll have to prepare about 16,000 punch cards. But our job won't take more than a few months to complete."

## The Redstone Rocket

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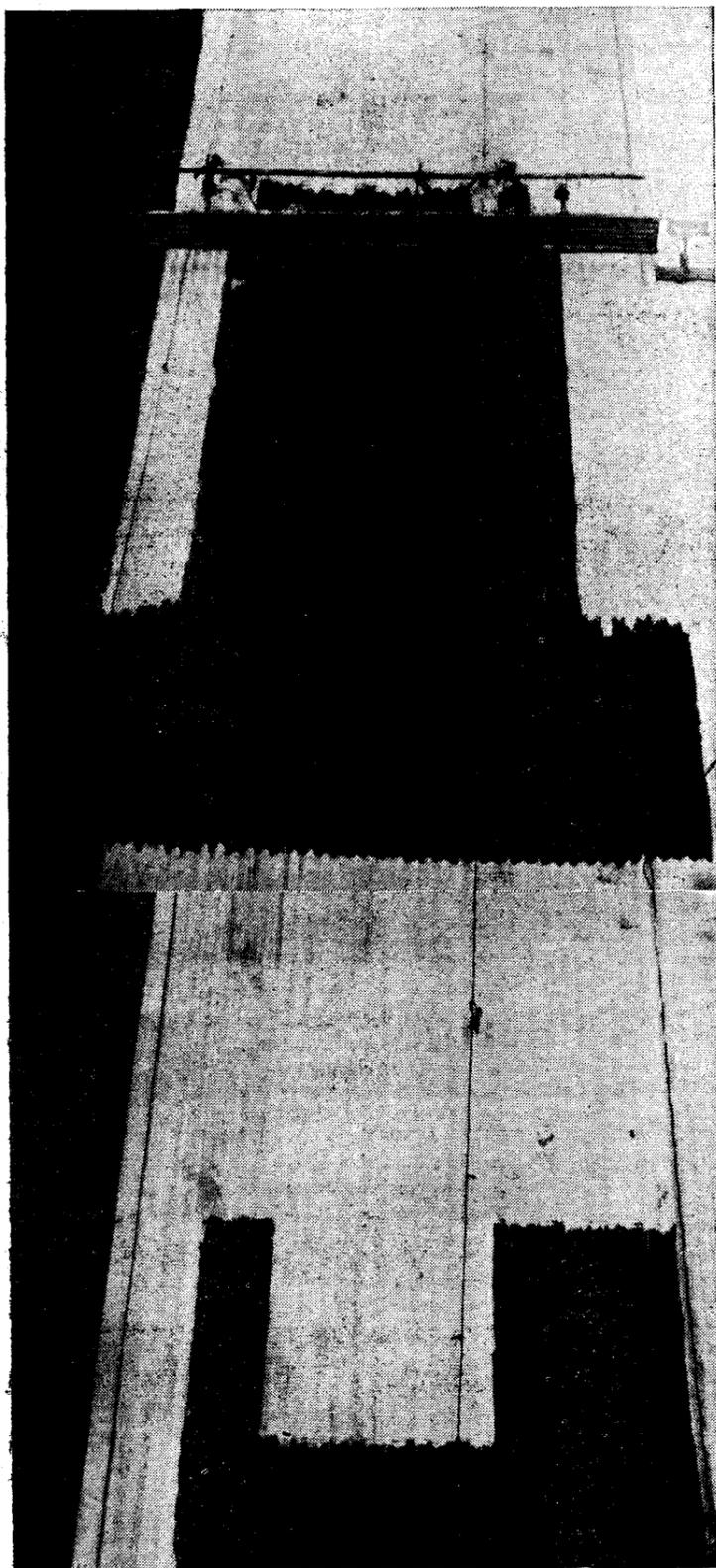
REDSTONE ARSENAL, HUNTSVILLE, ALABAMA 35809

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**Arsenal-Wide**

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### Don't Be Alarmed—

You aren't imagining things and your eyesight isn't failing you.

That building you see every day, which for years has been nicknamed, jokingly, the "Jolly Green Giant," is slowly changing color.

One of the tallest Army buildings on Redstone, and one of the most familiar landmarks, Bldg. 5400, which houses many of the Army Missile Command's research and engineering laboratories, is getting a shiny coat of white.

Once finished, the high bay area will match perfectly the decor of other portions of the Research and Engineering Directorate.

Now, anybody know any catchy nicknames us white?

### Among Project Offices

## Shillelagh Again Top Saver

Everyone at the Army Missile Command supports the cost reduction program, but the facts indicate that people in the Shillelagh project office try harder.

Figures for the fiscal year just ended show Shillelagh topped all project offices in validated savings as a result of value engineering for the second year in a row.

Total savings by the project in FY 70: \$2.183 million, better than 200 percent of the assigned goal or an average \$22,275 saved by each of the 98 people the project office had authorized.

Last year they did even better. Shillelagh led all of MICOM by chalking up value engineering savings of \$5.784 million against a goal of \$1.995. The project's FY 69 effort amounted to almost 40 percent of the entire command's accomplishment.

And since FY 65, roughly the time the missile system went into production, Shillelagh has validated \$20.5 million in value engineering savings.

The men and women who run the Shillelagh program see nothing unique in their record.

Asking Jack Sanders, Chief of the Configuration Management Office who has responsibility for the value engineering program, how Shillelagh does it year after year produces an obvious answer.

Sanders listens to the question, reacts as though someone had walked in and asked "How come you wear shoes?", and sums it up in three words: "It's our job."

One of the obvious reasons is that the Army is buying one whale of a lot of Shillelagh missiles—more than any guided missile ever procured by the service. A value engineering change proposal that saves a single dollar, for example, in one of the missile's components, adds up to real money in a hurry when thousands of missiles are being produced.

(See SHILLELAGH on Page 3)

### Sec. Resor Views On EEO Available

The Secretary of the Army outlined his views and objectives for the Army Equal Employment Opportunity Program in a recent address at an EEO Institute held in Washington.

A film of Mr. Resor's address is now available for showings within the Missile Command.

Command elements desiring to use the film in training or orientation sessions may schedule it by calling the Special Assistant for Equal Opportunity, J. T. Temple, at 876-3591.

It is planned to show the film at the Commanding General's staff meeting next week.

### RETIRING? NOW IS TIME TO ACT

The last day of July is the deadline for Civil Service personnel considering retirement who wish to take advantage of a 5.6 per cent automatic retirement annuity increase which becomes effective August 1.

The increase resulted because the cost-of-living percentage rises nationwide was in excess of three per cent over the Consumer Price Index for March, April and May.

The effective date of the increase is August 1, and will be reflected in all annuity paychecks for which the pay period begins on or before that date. However, an individual must be separated or in a non-pay status on or before July 31.

Civil Service Commission policy on granting leave without pay in pending disability retirement cases is as follows:

It is anticipated that there will be some pending disability retirement cases in which the Commission will be unable, by July 31, 1970, to determine, and notify, the agency whether or not the applicant is totally disabled.

In such a case, if the applicant is carried on pay status on sick or annual leave after July 31, 1970, he will not be eligible for the cost-of-living increase.

To avoid loss of the increase, applicant may request, and agencies may grant, leave without pay from August 1. If the claim is disallowed, sick or annual leave with pay may be retroactively submitted for the leave without pay.

(See RETIRING? on Page 3)

### Army Civilians Aid UGF Drive

The Missile Command will once more play a significant role in the conduct of the Huntsville-Madison County United Givers Fund this year.

Mildred Wilkins and Enoch Sparks are two Army civilians who have accepted voluntary assignments with the community organization that will guide the fund raising effort in support of local welfare and social service agencies.

They were named to the UGF's Loaned Executive program joining personnel of other governmental agencies and commercial concerns in helping to administer a sound program that will benefit the entire locality.

After a brief training period, Mrs. Wilkins and Sparks will be on call with the UGF to meet with groups throughout the city in the interests of bettering the public relations aspect of the drive.

Both are long time Department of Army civilians and each has a long history of voluntary service in civic affairs.

Mrs. Wilkins is a Small Business Adviser in the Small Business Office while Sparks is chief of the Cataloging Division of the Supply and Maintenance Directorate.

### In-House Publication Boosts Savings In S&M



MAJ. HUSKINSON

The Supply and Maintenance Directorate's Value Engineering program has once more met its challenge by reducing costs far beyond the Command-adopted goal.

During the past twelve months personnel of the Directorate were responsible for 25 value engineering studies that resulted in validated cost reduction savings in the amount of \$970,000.

This is 26 per cent above the assigned goal for the Directorate and boosted the four-year record for S&M to over \$12 million in savings to the Army.

Prominent among the programs (See IN-HOUSE on Page 3)

# The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket through the Information Office, Army Missile Command, Redstone Arsenal, Ala., 35809, Bldg. 5230, Room A-134, Extension 876-1400 or 876-1500.

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## Rocket Ruminations

Poverty is a soft pedal upon all branches of human activity, not excepting the spirit.  
—Henry L. Mencken



### WHY?

This thing they call "Program for the Refinement of the Materiel Acquisition Process"—shortened to PROMAP-70; why do we need it and what is it really all about?

The reasoning is simple and sound. Something had to be done to assure that the Defense Department received more value from the dollars . . . American taxpayer dollars . . . that it was spending.

David Packard, Deputy Secretary of Defense, sent a memo to the Secretaries of the Army, Navy and Air Force calling for improvement. He identified five problem areas directly and indirectly associated with cost growth as follows:

- Over-optimism in cost estimates;
- Control of changes made in a program during development and production changes;
- Comprehensive assessment of risk prior to system development;
- Use of competitive prototypes in developments;
- Concurrent development/test and evaluation.

The Army proposed certain immediate measures and 16 long range objectives to tackle the five main problem areas. It also stressed the need to consider the weapon system acquisition process as a whole, rather than attacking individual source, of trouble.

The Army Materiel Command implemented the program with PROMAP-70, an acquisition process plan designed to assure concrete pay-offs in the form of better procedures, hardware, and cost estimates of real and on-going weapon systems and equipment. The goal is to field better weapon systems and equipment on a more economical basis.

Specifically, AMC is seeking improvements in the areas of performance requirements, life cycle cost estimating, better procurement packages, system risk analysis, simplicity, reliability, maintainability, "try before buy", competitive prototypes, contractor performance, cost growth control, automated material, integration of logistical support, improving test and evaluation management information systems, reduction of paper work, training of professionals and project management.

At the Missile Command our responsibility is to apply these goals to missiles and related programs.

It all boils down to this. We are asked to take a hard look and see if we can find a better way to do our job.

This is what PROMAP-70 is all about. The need is obvious. The challenge is great but the rewards could be many . . . self satisfaction . . . a tangible contribution to the national defense . . . and even job security.

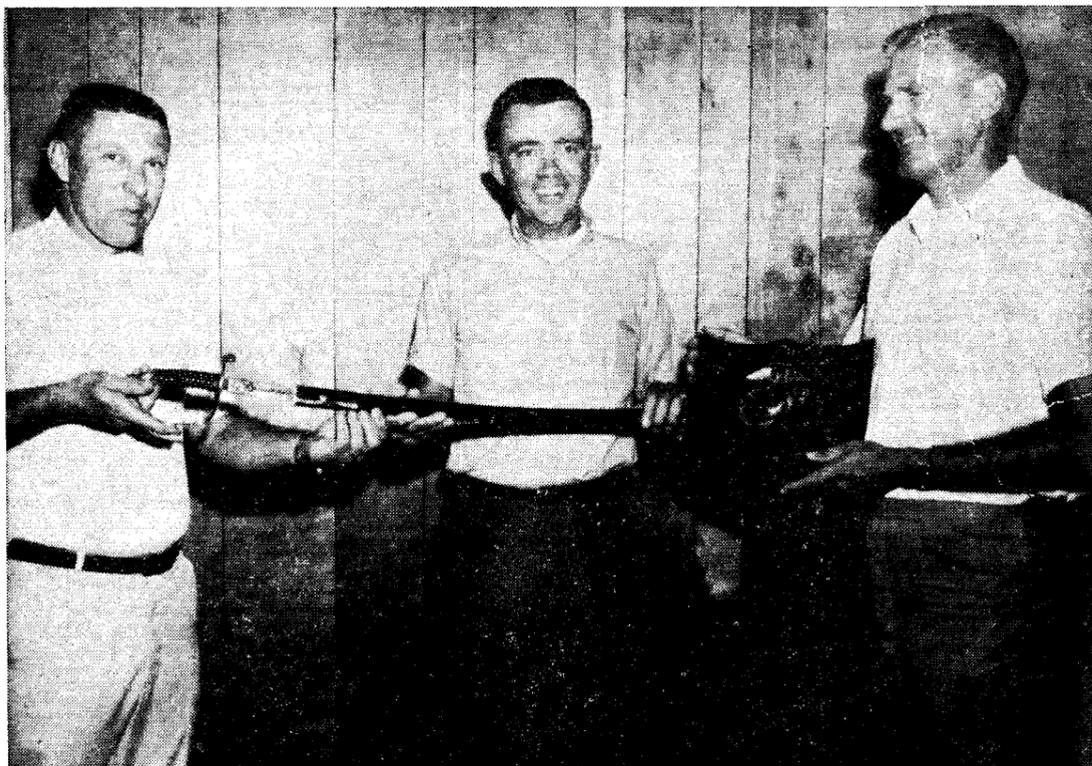
## ACS Is Five Years Old

The 25th of July will mark the fifth anniversary of Army Community Service through which military personnel and their families are provided a central source of information as well as advice and guidance for resolving personal and family problems. It is important to our men in uniform to know that help and support are available to them and to their families during periods of sacrifice and stress.

Since establishment of the program in 1965, over two million members of the Army community have been given assistance through Army Community Service Centers located at major installations worldwide. Much of the credit for the success of the program goes to the thousands of Army wives, teenage dependents, retired personnel, and active duty soldiers, who volunteer their spare time in service to their community. Together with professional social service and administrative personnel, they have made this relatively young program an important part of Army life.

Their unselfish commitment demonstrates daily the Army's proud heritage of public service. To all volunteers I express my appreciation for their efforts in behalf of soldiers everywhere.

W. C. WESTMORELAND  
General, United States Army  
Chief of Staff



MARINE VETERAN—CPT Charles Darake, (left) XO of the MMCS Marine Det., presents retiring MSG Charles Birdsong (center) with the traditional Marine Corps Sabre as his replacement, MSG Henry Szarek stands by to present him with a plaque of recognition. MSG Birdsong, the first Marine to retire from active duty here, served more than 20 years in the Marine Corps.



CAFETERIA OF THE MONTH—Col. Roy E. Branson (center) chats with Mrs. Blanche Guyton (right), manager and Mrs. Eurdis Gillbreath, shift supervisor of the cafeteria in Building 5400. Their cafeteria is this month's Best Cafeteria, and this is the second time they have won the honor.

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# TACOM Development May Cut Harmful Emissions

Sharp reduction of harmful exhaust gas emission to combat automotive air pollution may now be possible as a result of a combustion system concept developed by the Army Tank-Automotive Command (TACOM).

The concept relies on precise control of combustion within the cylinder itself, not the use of "add-on" pollution control devices. The announcement of the concept was made at an automotive air pollution problem conference held recently at the Detroit-based command.

TACOM's air pollution control process combines the unthrottled, efficient operation of a diesel engine with the soft, controlled combustion in the spark ignition engine. TACOM has labeled the concept: HYBRID.

## FUEL INJECTION

Unlike the conventional spark ignition engine which uses a carburetor to deliver the proper air-fuel mixture to the cylinders, HYBRID features a fuel injection system similar to that used on a diesel.

Injectors at each cylinder inject precisely the amount of fuel needed to operate the engine at any given horsepower output requirement. This results in a leaner air-fuel mixture and lower exhaust emissions at low and intermediate engine loads that can be achieved with the same engine equipped with a carburetor.

Laboratory engineers said the concept cuts fuel costs 20 to 40 percent.

The HYBRID combustion principle has been applied to the Army's ¼-ton M151 jeep, powered with a four-cylinder engine and tests have indicated that with this process, pollution control already meets proposed Federal exhaust emission standards for 1975.

"We have been particularly interested in coming up with an engine that operates on many fuels, including gasoline and kerosene," Dr. Ernest N. Petrick, Chief Scientist/Technical Director of TACOM Laboratories, said.

"During the development cycle, we have continually refined the combustion process. The result of these repeated refinements is a much reduced rate of emission.

We are attempting to reduce pollution rather than trying to clean up an engine that puts out too much pollution," he said.

## Unleaded Fuels

TACOM said advancements now in the works could further reduce pollution from this engine to meet proposed 1980 goals. With unleaded fuel and a catalytic reactor, however, emissions can be reduced to the proposed 1980 levels without any further advances in combustion control. The HYBRID process can operate on the proposed unleaded fuels with satisfactory performance.

TACOM has been engaged in hybrid engine research for more than a decade. TACOM engineers conducted extensive investigations of many hybrid systems, and concluded that two of them looked the most promising. One system was developed by Texaco, known as Texaco Combustion Process (TCP), and the other is the Ford Motor Company's Ford Combustion Process (FCP).

In 1963, TACOM awarded a contract to Texaco to further develop and refine its process and entered a similar agreement with Ford in 1967. By the end of fiscal 1970, contract money to Texaco and Ford will have totaled \$1,269,000.

Recently, the Department of Health, Education, and Welfare has helped to fund this program and has conducted official exhaust emission tests on the hybrid systems. In addition, commercial independent research organizations and prominent universities, under TACOM contracts, have contributed their resources.

It is expected that the TACOM lab will be ready to move into the final phase of the development program, after completion of FY 1970 effort, and a new minimum pollution military engine offering improved fuel economy may be rolling off production lines by 1975.

## SHILLELAGH

(Continued From Page 1)

Sanders credits this, of course, but he feels there's a lot more to what makes value engineering work in the Shillelagh project. Until the recently completed reduction in force pared the project's manpower down to 65, Shillelagh had an engineer in the configuration management office — Donald R. Bollenbacher — spending full time on managing its value engineering effort. "One of the functions of configuration management is to get required changes into the program as cheaply as we can," Sanders said. "What better place to put a value engineer?"

He feels Bollenbacher's administrative effort, particularly the time consuming process of assuring that savings resulting from value engineering are validated, is still another factor.

"The best job in the world has to be validated by audit before you get credit for it, and Don's done a fine job in following up on every action, but don't get the idea that this is a one man show," Sanders said. This has been a real team job all the way.

"This project has always emphasized value engineering," he continued, Col. Proudfoot (project manager) his predecessors, and the deputy, Ray Edmundson have pushed it hard. There's been a climate here all along to find ways to do this thing."

Sanders makes the point by producing figures to prove that much of the Shillelagh savings have come from value engineering change proposals, those which involve savings other than those made directly in the hardware.

It was a value engineering change proposal by James L. Huie of the project office last year that accounted for several million of Shillelagh's \$5.784 million total. Huie questioned what seemed to him to be an excessive number of conduct of fire trainers scheduled for procurement when Shillelagh assumed management of the item from another commodity command.

His big savings resulted when he built a case proving all the trainers were not needed and the Army cancelled a large part of the order.

During FY 70, a value engineering change proposal by Harvey White and Thomas V. Kennemer added up to a savings of \$2,048,100. They suggested substitution

## IN-HOUSE

(Continued From Page 1)

completed during the past year is one completed by Maj. William Huskinson, a Missile Maintenance Officer who is scheduled to leave Redstone in August for a European tour.

Maj. Huskinson made a study of the quality control inspection criteria for guided missile systems that had previously been prepared by contractors.

He determined the feasibility of preparing the publication in-house. The initial in-house effort was published last fall with an estimated savings of \$40,300.

Headquarters, Army Materiel Command, has since accepted the study completed by Maj. Huskinson with a view toward expanding the application to other weapons systems.

## RETIRING?

(Continued From Page 1)

If the claim is allowed, the annuity commences August 1, accumulated annual leave is payable in a lump sum and unused sick leave is used in computing the annuity as in other retirement cases.

Additional information on the increased annuity benefit may be obtained from Lester Himes, Chief, Retirement Activities, Civilian Personnel Office, at 876-3902 or 876-2076.

of less costly practice heads for warheads on missiles used in a variety of special tests and exercises.

Sanders figures value engineering saved Shillelagh \$20.5 million to date. Roughly one third came from contractor value engineering change proposals, the remaining two thirds originated in house.

"We did that with no decrease in system reliability," he said, thought about it for a moment, and added: "In some cases, we've increased it."

Disabled veterans are being trained to serve other veterans under a joint Veterans Administration/Disabled American Veterans' program. Their DAV pay is supplemented by educational allowances from VA.

## Seven Honored At Score 'n Ten



Cutsinger Knight

Seven employees of the Army Missile Command received recognition for more than 210 years of Federal service during a recent ceremony at Redstone Arsenal.



Phifer Sawicki

BG George H. McBride presented each with a certificate of service and a pin honoring 30 years of government work.

Recipients of the 30 year awards



Whitaker

William H. Hodges of the Research and Engineering Directorate, and



Hodges Forehand

John T. Forehand of the Inspector General's Office.



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# Persistence Pays Off For Engineer

"I'm so stubborn," asserts Angel Padilla, "I can't leave anything hanging." The stubbornness, if it is that, pays.

Last month he received his master of science degree from George Washington University, having written his thesis around work he has been doing in the U.S. Army Metrology and Calibration Center. Padilla is an electronics engineer.

"I couldn't have done it so quickly," he explains, "without the backup from the men with whom I work and the professors at George Washington."

One of the things that makes his degree outstanding is that it is the first earned among the men in the Electronic Standards Laboratory in the science of measurement. He titled the thesis "Voltage Injection Techniques for Industrial Voltage Divider Calibration." Others have completed classroom work, but have not completed compilation of a thesis.

This is not Padilla's first encounter with Army help in getting an education. He claims he was a failure at 15, having completed only the sixth grade before leaving Puerto Rico with his family and settling in the Brooklyn section of New York where he worked as a grocery clerk.

One day after his 17th birthday he joined the Army as a happy-go-lucky individual with no thought for the future. Meantime, he had acquired a Brooklyn accent with a soft Spanish inflection and was the first man in his unit to learn to speak German with the unique combination blended into that language.

When the bug of ambition hit Padilla, he applied to the educa-



EARNs Master's Degree . . . Angel Padilla

tion advisor for assistance. With only a sixth-grade education, the advisor expected to learn his weaknesses through the G.E.D. test and Padilla—surprised himself and the advisor by passing the high school equivalency test. The Board of Regency in New York City granted him his high school diploma.

Having experienced clean air in the United States, Europe and Korea as a soldier, New York lost its glamor when Padilla returned to Brooklyn. He took off for Ft. Wayne, Ind., to enroll in the Indiana Technical College. It took seven years to earn a bachelor

degree. He married and went to work to support a family at the end of the first year; but that bug about unfinished business kept biting him. After three years, he returned to earn his degree.

His two older daughters learned to be quiet while he concentrated on his studies, but the youngest one has no such inhibitions. She came along later. So did the family dog with the markings of a St. Bernard and the nose of a collie.

The Padilla family moved to Huntsville with a local industrial firm. He joined the staff in the Metrology Laboratory two years ago.

# Brookshire Earns Degree In Undergraduate Program

The Missile Command's career development program reached an important milestone early this summer when Jerry Brookshire was granted a Bachelor of Liberal Studies degree by the University of Oklahoma.

A computer specialist in the Management Information Systems Directorate, Brookshire was the first Army employee in the area to receive his degree under the BLS program.

He is one of the 139 Army personnel enrolled for the program that is highly recommended by the Army Materiel Command as a means of furthering the education of employees by enabling them to update their knowledge in preparation for career progression.

The program is a combination of intensive home study and local testing with an additional requirement of 13 weeks resident study at the campus in Norman, Okla.



JERRY BROOKSHIRE

Basically the BLS program consists of studies and campus seminar attendance in four areas: natural sciences, humanities, social

# Service Club Sets Folk-Rock Program

Jan Elkins will entertain with Folk-Rock music and songs at the Service Club on Sunday evening, July 26.

The theme of Jan's program will be "Tune in With Jan". Songfest time is 8 o'clock.

Coffee and punch will be served.

sciences, and a combination known as inter-area in which relationships between the other three basic areas are developed.

Entrance into the program at the Missile Command is on a competitive basis, with such factors as, position, length of service, performance, accomplishments, previous college training, and potential, taken into consideration.

The program is administered by the Training and Development Division of Civilian Personnel.

A Missile Command employee since November 1963, Brookshire enrolled in the BLS program in June of 1967. He completed the requirements for his degree in three years, a full year less than usually required. He maintained his full-time employment while completing his study requirements.

Brookshire is now planning to pursue graduate study at the University of Alabama in Huntsville.

# Redstone Toastmistress Club Installs Officers

The Redstone Toastmistress Club held its luncheon meeting in the Safeguard Room of the Redstone Officers' Open Mess last Wednesday.

Mrs. Jack McConaha, the retiring president, presided over the meeting. Miss Dudley Williams gave the invocation, and Miss Barbara Simmons led the members in the pledge of allegiance to the flag.

Serving as Toastmistress was Mrs. Alfred Czachowski. She introduced Mrs. John Ballou, who gave her autobiography. Mrs. Dana Sperr led table topics, soliciting discussions from members on the subject of their most memorable moment as members of the Redstone Toastmistress Club since its inception in November.

A special guest at this meeting was Miss Annette Bohn, a student-teacher from Copenhagen. Miss Bohn is a representative of the

Experiment of International Living, a program sponsored by the Pilots Clubs of the State of Alabama. She gave a most interesting speech on the educational system in Denmark, and touched briefly on other subjects, such as Denmark's form of government. Other guests were Miss Rita Fagan of the John Hunt Pilot Club, and Mrs. R. P. Hearn of the Huntsville Toastmistress Club.

Three new members were introduced: Mrs. Judy Hanson, Mrs. Leola Agee, and Mrs. Loretta Suttles.

Mrs. Hearn installed the newly-elected officers of the club. These officers were: Miss Belle Wood, President; Miss Wanda Jennings, Secretary; and Mrs. Gaston Boyd, Treasurer. The Vice-President, who was absent, will be installed at a later meeting.

# Weekly EM Tour Takes In Tri-Cities

A tour through the cities of Muscle Shoals, Tuscumbia and Sheffield, Ala., has been scheduled for enlisted men by the Service Club for this Saturday.

The first stop of trip will be Muscle Shoals for a tour of Deer Forest Park for sightseeing and a picnic. A stop is scheduled at Helen Keller's birthplace and another at Worley's Museum of Indian artifacts, both in Tuscumbia.

The bus will leave the club at 11 a.m. and return around 4:30. A picnic lunch will be furnished.

# MSFC Astronomer Presents Program

"Solar Investigations Through Eclipse Expeditions" is the theme of a presentation of the Rocket City Astronomical Association tonight.

James McGuire, an experiment scientist with the Marshall Space Flight Center, will be in charge of the 7:30 presentation at the Monte Sano Planetarium. The public is invited with no admission charge.

The speaker will show films depicting the results of five recent solar eclipse expeditions.

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# Deposit Or Redeposit, That Is The Question

**Editor's note:** The following information concerning retirement from Civil Service, especially in regard to deposits and redeposits in the retirement fund, is reproduced for the benefit of personnel, and is taken from Civil Service Commission Pamphlet 18.

**What classes of civilian service may be credited for retirement purposes?**

Credit may be given for all service performed as an employee of the Federal Government or the District of Columbia Government, including such service which was covered by social security. There is one minor exception to this rule: No credit may be allowed for service in which an employee acquired social security coverage under the Social Security Amendments of 1954. This exception applies only to service of a comparatively few individuals most of whom are temporary or indefinite employees in the field service of the Post Office Department.

**Must the service involved be consecutive, or may separate periods of service be counted?**

All service is creditable, regardless of breaks in employment.

**May periods of separation from service be counted?**

No, except that any separation which is 3 calendar days or less is counted. Such a separation is not considered a break in service.

**May credit be allowed for service for which no retirement deductions were taken?**

Yes, provided the employee became a member of the retirement system after such service was performed.

**How is credit given for service which was performed before there was a retirement system?**

This service is free. Full credit is allowed without any deposit for service performed before August 1, 1920 (the date deductions were first taken as provided by the original retirement law).

**Is there any other period of free service?**

Yes. Service performed for the Panama Railroad Company (now known as Panama Canal Company) before January 1, 1924, is creditable in full without any deposit.

**Is deposit required to obtain credit for periods of service for which no retirement deductions were taken?**

Deposit is required in order to receive the maximum annuity but not to receive time credit. Full credit in counting total service is allowed for all civilian service with or without deposit.

**How is the annuity affected if the deposit is not made.**

The annuity is reduced by one-tenth of the amount due as deposit. For example, if a retiring employee has an unpaid deposit which amounts to \$500, the yearly reduction in his annuity will be one-tenth of \$500, or \$50.

**How is the amount of the deposit determined?**

The deposit is made up of the regular deductions (2½ percent from August 1, 1920, to June 30, 1926; 3½ percent from July 1, 1926, to June 30, 1942; 5 percent from July 1, 1942, to June 30, 1948; 6 percent from July 1, 1948, to October 31, 1956; 6½ percent until Jan. 1, 1970 and 7 percent thereafter) plus interest at the rate of 4 percent to December 31, 1947, and 3 percent thereafter, compounded annually. However, no interest is charged for periods of separation which began before October 1, 1956. Interest is charged for periods of separation which began on or after October 1, 1956, as well as for periods of employment.

**Is it to the employee's advantage to make the deposit?**

This question cannot be answered by a simple "Yes" or "No." There are good reasons for making it, and there are good reasons for not making it. The same arguments, however, do not necessarily apply to each individual case. It is a personal matter which each employee must decide for himself, just as he would in making any other investment of his money for the future benefit of himself and his family. Here are some facts that should help an employee to make the right decision:

(a) If the deposit is made, the retiring employee, and his widow (or widower) who may qualify for annuity after his death, will receive the maximum rates payable based on his total years of service. However, if the deposit is small enough, it is possible that it will provide no increase at all because of the requirement that the final monthly rate be adjusted to the nearest dollar. For example, a deposit of \$500 will give the retiring employee an increase in round figures of only \$4 a month. A surviving widow's annuity will be increased by only \$2 a month. A deposit amounting to \$80 or less will in many instances, result in no increase in the final annuity of a retiring employee.

(b) The amount paid in as a deposit becomes a part of the employee's retirement account. If the employee dies in service and there are no qualified survivors entitled to annuity, the entire amount credited to his account is payable to the designated beneficiary or next of kin. However, the deposit is frozen in the retirement fund and may not be withdrawn by him unless he is separated and can meet the requirements for payment of refund.

(c) The value of a deposit as an investment depends on the number of years over which annuity will be paid. In other words, it depends on the length of life after annuity begins. While the span of life is an unknown factor, experience indicates that the average employee who retires for reasons other than disability has an expectancy of life as follows:

Age	Life expectancy	
	Men	Women
	Years	Years
55	21	26
60	17	22
62	16	21
65	14	18
70	11	14

The actual amount of a deposit made at retirement will be returned to the annuitant in 10 years. Thus, in the average case, the retired employee will live long enough to get his investment back in the form of the increased annuity, and he will continue to benefit from this increase for the remainder of his life. Also, upon his death, a widow (or widower) entitled to annuity will receive the benefit of the deposit in the increased annuity. However, making the deposit can be a losing proposition. This is possible because—

(1) A deposit becomes a part of

the employee's retirement account.

(2) All annuity payments are charged against this account. It now takes between 1 and 3 years of annuity payments to a retired employee to exhaust his account.

(3) If all annuity payments terminate before the account is exhausted, the balance of the account is payable in a lump sum.

(4) It takes 10 years for the retired employee to get back the amount of his deposit in the form of increased annuity payments.

(5) The deposit is a losing investment if all annuity terminates after the retirement account is exhausted but before the amount of the deposit has been returned as increased annuity.

(d) The longer the payment is delayed the higher the amount will be because of the running of interest. However, if the deposit is not made until time of retirement, the employee will have had the use of his money during the interim. And, if the employee should die before he retires, his widow (or widower) may make the deposit and receive the maximum survivor annuity.

(e) Deposit for all noncontributory service after July 31, 1920, must be completed before any voluntary contributions (see sec. V, Voluntary Contributions) may be made. This may make it advantageous for an employee to complete his deposit in order to be accorded this privilege. However, the employee may decide that making the deposit is a high price to pay for the voluntary-contribution privilege.

**Under what conditions may credit be allowed for service for which an employee has received a refund of deductions?**

Such service may be credited in determining length of service for the purpose of computation of annuity only if the redeposit is made. It may, however, be used in determining the "high-3" average salary even if the redeposit is not made (see sec. VIII, Annuity Computations). It is also used, even though the redeposit is not made, in determining whether an employee has sufficient service to make him eligible for retirement.

**How is the amount of the redeposit determined?**

The redeposit is made up of the exact amount refunded plus interest at the rate of 4 percent to December 31, 1947, and 3 percent thereafter, compounded annually. However, no interest is charged for periods of separation which began before October 1, 1956. Interest is charged for periods of separation which began on or after October 1, 1956, as well as for periods of employment.

**Is it to the employee's advantage to make the redeposit?**

Generally, yes. Usually a redeposit should be made because otherwise the employee will receive no credit at all in the computation of his annuity for the time covered by the refund. If the employee retires on account of disability and is entitled to the 40 percent guaranteed minimum annuity (see questions 171 to 173), failure to make the redeposit would not affect the retiring employee's annuity; similarly, the survivor annuity payable to a child would not be affected (see question 212). Should the employee die before he retires, his widow (or widower) may make the redeposit and receive the maximum survivor annuity.

**Does the date of payment affect the amount of the redeposit?**

Yes, just as it does in the case of a deposit. The longer the payment is delayed the more it will cost, because of the running of interest. For example, if a redeposit amounted to \$200 on June 30, 1957, and the employee does not make payment until 15 years later, the amount will have increased to \$311.

**What effect does nonpayment of a deposit or a redeposit have on granting service credit for employment purposes other than retirement?**

It has no effect at all. Full credit is granted, regardless of whether deposit or redeposit has been made, for such purposes as leave, promotion, pay increases, retention credits in reduction in force, and continuance of life insurance and health benefits after retirement.

**How is deposit or redeposit made?**

The employee submits his application to make deposit or redeposit

on Standard Form 2803 through the employing department or agency to the Civil Service Commission. The Commission makes the computation and informs the employee as to the amount of the payment and the manner of making it.

**May deposit or redeposit be made in installment payments?**

Payments may be made in a lump sum or, if the employee so desires, in installments of not less than \$10 each, paid direct to the Civil Service Commission. However, prompt payment in full will eliminate further interest charges because of deferred payment. After the deposit or redeposit has been paid, the employee is notified if any additional interest is due because of deferred payment. Payment cannot be made through payroll deductions by the employing agency.

**If an employee is unable to complete his deposit after paying a number of installments, what action is taken?**

The employee is credited with the sum paid, and the annuity otherwise payable is reduced by one-tenth of the unpaid balance (including interest) due the fund or, in event of death, the employee's widow (or widower) may complete the deposit.

**If an employee is unable to complete redeposit of refund after paying a number of installments, what action is taken?**

The sum redeposited is applied on any full period or periods of service to the best advantage, and any amount not so used is refunded or, in event of death, the employee's widow (or widower) may complete the redeposit.

**If an employee does not wish to make a deposit or redeposit, may he elect to waive credit for the service?**

He has the option of eliminating any such complete period or periods of service for annuity computation purposes.

**Under what conditions would it be desirable to eliminate credit for such service?**

Only if, because of the 80-percent limitation in annuity computation the service would produce no increase in basic annuity.

**May an employee make deposit or redeposit after his separation from service.**

Yes, if he has present or future annuity rights. Payments in such a case may be made at any time before his annuity claim is finally adjudicated.

**May an employee make deposit or redeposit after retirement?**

No deposit can be made after final adjudication of an annuity claim.

**In case of death of an employee, may a survivor entitled to annuity benefits make the deposit or redeposit?**

Yes.

**Do the deposit provisions apply to a period of service when the employee was under the retirement system but the employing agency, through error, misunderstanding, or for any other reason, failed to withhold retirement deductions from his salary?**

Yes.

## New Arrivals

- SP4 and Mrs. William O. Dorsey, girl, Bianca Monique, July 10.
- SSG and Mrs. Jewell W. Hayes, girl, Jennifer Nicole, July 10.
- PFC and Mrs. Carlos G. Herrero, girl, Janie Marie, July 10.
- SP4 and Mrs. George R. Ivey, girl, Zia Darlene, July 10.
- 2LT and Mrs. John F. Windham, boy, Jeffery Thomas, July 11.
- SP4 and Mrs. Charles L. Atkin, boy, Charles Brian, July 12.
- CPT and Mrs. James H. Konicki, girl, Denise Rene', July 12.
- SP4 and Mrs. Clinton R. Gipson, girl, Myra Annette, July 13.
- 2LT and Mrs. James W. Kaiser, girl, Christine Anne, July 13.
- MAJ and Mrs. Randolph L. Smith, girl, Karron Suzanne, July 13.
- PVT and Mrs. Michael L. Birdsong, girl, Laurie Rachel, July 15.
- SP5 and Mrs. Clifford R. Hamilton, boy, Scott Dwane, July 15.
- SP5 and Mrs. Darrell L. Jones, boy, Don Edward II, July 15.

# VW Trade-Ins

- 1967 AUSTIN HEALEY ..... \$1,995.  
MARK 3000.
- 1968 MG MIDGET ..... \$1,695.  
CONVERTIBLE. Radio, wire wheels.
- 1969 CHEVY NOVA ..... \$2,195.  
2 DR. Automatic.
- 1964 CHEVY IMPALA ..... \$995.  
SUPER SPORT.
- 1966 PONTIAC CATALINA ..... \$1,595.  
4 DR. Hardtop, full power and air.
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4 DR. Hardtop, power and air.
- 1969 DATSUN 1600 ..... \$2,195.  
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# Super Sixth Rolls Along Behind Wayne Parks

## Californian Blanks Two More Foes With 3 Hits

As usual in the Redstone Arsenal unit level softball competition the super 6th ETC continued its winning ways. The 6th, behind the superb pitching of Wayne Parks, annexed wins No. 12 and 13 to remain undefeated in the 19-team league.

On Monday, the 6th racked up an 8-0 win over MICOM II and later in the week Co. C was shut-out 14-0.

Parks gave up only two hits in the MICOM contest. Singles by Bob Fletcher and Bob Jordan spoiled the no-hitter bid in the second and fifth innings.

Co. C managed one hit, a single by Ernest Milton in the fourth inning, against the California hurler. The 6th ETC pounded out 15 safeties that included a three-run homer by Parks and a two-run round tripper by Gary Elbers.

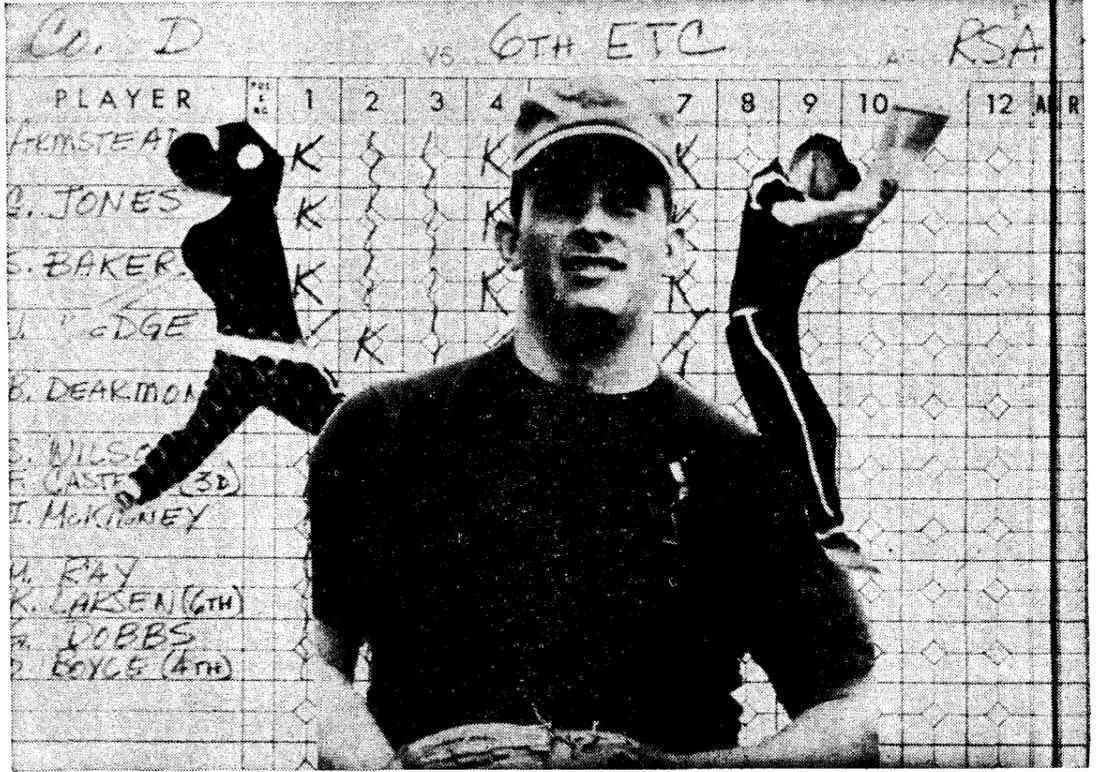
Additional games played on Monday were 1st ETC 8, 9th ETC 5; 3rd ETC 14, 95th Cal. 11; and the Marines 7-0 over 200th Ord. via the forfeit route.

**Still In Running**  
Tuesday, second place MICOM-I

kept pace with the 6th by overpowering Co. D 10-1. Jack Howell rapped two singles and a double in leading the 15-hit MICOM attack. Leon Lowery smacked a home run.

Delta's only run came in the fifth inning when Ira McKinney scored on a double by Jim Wedge after opening the inning with a walk.

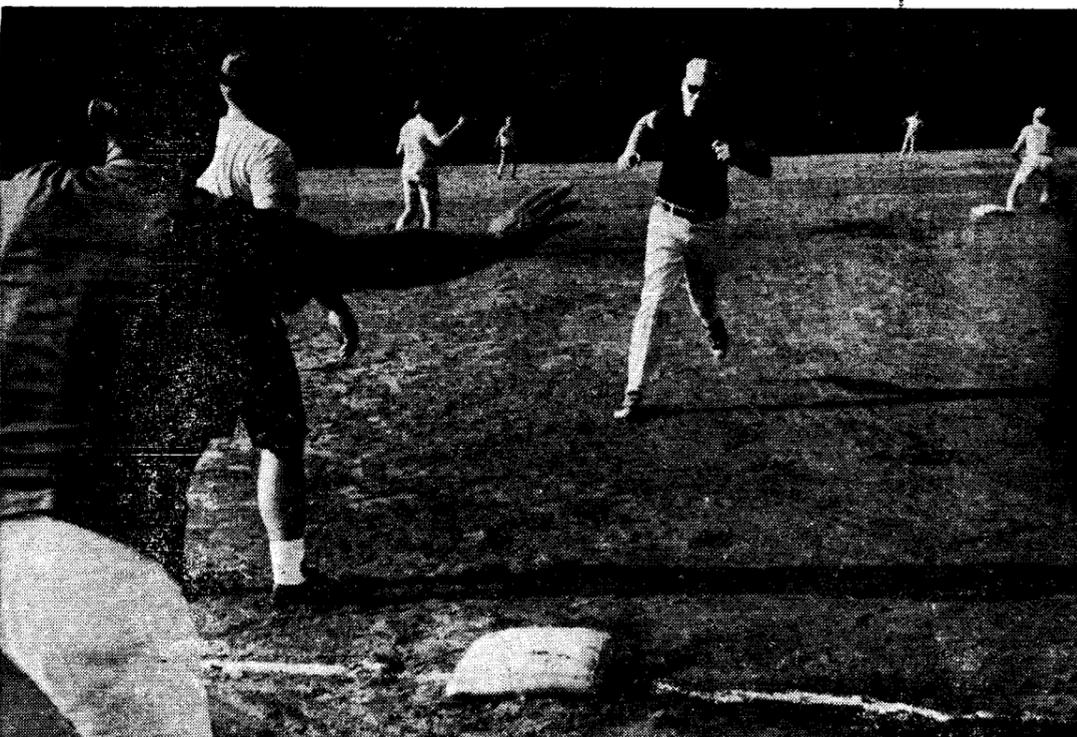
On the same field, later in the evening, SOC socked the Marines 18-9. Deadlocked at 6-6 through two innings SOC sent 14 men to the plate to score 12 runs to put the game out of reach. In the final inning, the Marines rallied to load the bases on two walks and a single but John Cline got John Wright to ground out ending the game.



**TOO TOUGH**—Wayne Parks, 6th ETC, looks amiable in this photo superimposed over a scoreboard page and a couple of would-be hitters. But, his opponents on the softball diamond in the Arsenal unit level softball league know better. The crafty hurler has tossed eight shutouts in leading his team to a perfect season. Parks, a native of California, has been pitching for eight years and has been in three state tournaments.



**HERE'S PROOF**—The odds on John Roberts hitting a home run are pretty short every time he steps into the batter's box—as a matter of fact Big John has averaged close to two round trippers a game for the last two years in the CWF Slo-Pitch softball league. But here is proof that there are occasions when the burly backstop of the RASA team fails to connect. The Rocket photographer snapped this rare picture as Roberts was taking batting practice prior to a recent game. Once the game started, he was back on the beam with a pair of shots over the right field fence.



**FAR ENOUGH**—Third base coach Joe Foster flags down Buck Wade as the Communications runner heads for the far turn in a recent CWF Slo-Pitch Softball game at the Civilian Recreation Area. Ed Trentham is the RASA third baseman awaiting the relay from the outfield. Wade went on to score minutes later, but it wasn't enough as RASA edged Communications in a hard-fought 8-6 contest.

In the final game of the evening Co. B defeated 5th ETC 14-3. The victory boosted Bravo to a third place deadlock with Co. C. The 291st MP Det. annexed another easy win, a 7-0 forfeit over 200th Ord. Det.

### Co. A Sinks MICOM-II

A walk and an error in the third inning ruined Charles Brooks' bid for a shutout against MICOM-II as Co. A edged the missile command 3-1. Bob Fletcher walked, stole second and third and scored on an error at home plate for MICOM's only run. The MICOM nine managed one hit off Brooks, a single in the fifth inning.

Co. A scored all its runs in the first on singles by Buddy Creek, Brooks, and Ron Morgan and a walk to General Viverette.

A home run by Stanford led a nine hit attack in the 95th Cal.'s 7-5 win over the 7th ETC.

Co. B sent 11 men to the plate Thursday to score five runs enroute to an 8-7 edging of 1st ETC. All runs were scored without a hit as 1st ETC hurler Jim Seymour issued four free passes while his teammates were guilty of five miscues.

Bravo hitters collected six hits that included a double by Ronda Hall. The Fighting 1st pounded out four safeties with David Ciepluch rapping a two-bagger and Jay Smith socking a tripple to

## After Clean Sweep— MICOM Girls Seeking Playoff Script Change

Vowing to make up for their loss in the post-season playoffs last year, the Missile Command girls open their bid for a clean sweep of Huntsville Women's Softball league honors tonight.

Winners of 15 out of 16 regular season games, duplicating their performance of a year ago, the Civilian Welfare Fund-sponsored Army team is determined to go all the way this time, starting with their 5:15 contest this evening at the Boeing Field in Research Park.

In the playoffs last year the Marshall Space Flight Center entry captured the double elimination meet with a pair of final round wins over MICOM after having lost to the Army girls three times earlier.

The other CFC entry from Safeguard was to have made their playoff debut last night. The second place ABM girls appear to have the best chance of upsetting the hard-hitting MICOM team.

The two teams completed their regular season play last Wednesday evening with the Missile Com-

mand coming out on top of a hard fought defensive struggle by a score of 8-2.

Gladys Hill turned in one of her best mound performances of the year in setting the AEM girls down with seven hits and single runs in the first and last frames.

In between Kitty Swain and Sharon Rainey provided most of the offense while outfielders, Barbara Ikard, Beverly Cramer and Kathy Leeth contributed the defensive support that insured another entry in the MICOM win column.

Swain got the attack rolling with a two-run round tripper in the second and added a pair of singles later while Rainey rapped a pair of triples to go along with another brace of singles.

Janice Barnett was the only Safeguard hitter to give Hill much trouble as she accounted for three of the seven hits. Claudelle Griggs took the loss.

## RSA Tankers In Final Dual Meet

Redstone Arsenal's entry in the Rocket City Swim League broke into the win column last week the hard way.

It's scheduled opponent, Holiday Homes, forfeited the race.

Tonight Redstone will be racing at Southeast "Y" in its last opportunity to claim a dual meet victory this summer.

Dual competition winds up this week with the only remaining RC-SL event the two day all city championships scheduled at Big Spring pool on July 31 and August 1.

lead the group.

Amid protests of "illegal pitch," Co. D got back on the winning track with a 8-5 strapping of the Marines. Dazzlin' Delta exploded for four runs in the second that broke a 1-1 deadlock. In the inning Co. D sent nine batters to the plate.

The Leathernecks scored its runs in the second, fourth and fifth innings and for the second night in a row the Marines threatened in the final inning with the bases loaded only to have a strike out end the rally.

MICOM-I pounded out 15 hits, including Dave Pelletier's home run in overwhelming 3rd ETC 19-0.

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## Four Honored At MMCS Graduation

Top honors went to four men Friday at graduation ceremonies at the Missile and Munitions Center and School.

Guest speaker Cpt. Dennison W. Miner, instructor, Ammunition Division, USAMMC, presented certificates of recognition to Pfc Emory S. Moe, La Mesa, Calif., having a 88.6 in the HAWK fire control repair course; Pfc Marson B. Welbron of Laurel, Miss., with a 87.5 in the HAWK continuous wave radar repair course; Pvt. Gerald F. Brown, Beaumont, Calif., compiling a 93.9 in the Pershing electrical mechanical repairman course; and Pvt. Gregory A. Larsen of Wolsey, S.D., having an 88.9 in the missile system apprentice course.

In his graduation address, Miner discussed the importance of economy of manpower and machinery. He pointed out that knowledge, accuracy and time should all be considered. He added that one should approach his assignment, armed with knowledge, pledged to accuracy, and aware of time. In his words, "if one can't find the time to do a job right, how can he find the time to do it over?"



**IT WORKS LIKE THIS**—SFC Raymond Hoopes, an instructor with the Missile Components Division, MMCS, listens as S/Sgt. Charles Workman explains details connected with the rental of boats and motors from Special Services. Sgt. Hoopes signs for the equipment, gets his boat key and can pick up the boat when he is ready to leave.



**ONE MOTOR READY TO GO**—S/Sgt. Charles Workman rolls out an outboard motor for S/Sgt. Tom Sutphin, an instructor at MMCS who plans on doing some weekend fishing. Rental for boat, trailer and outboard motor is one dollar per day.

## Huntsville Firms Do Big Business

The \$39 million spent by the Army Missile Command last month for support services includes orders that ran all the way from \$1.35 for red sewing thread to more than \$100,000 for technical services.

The thread is used for flags and pennants, and the technical services for missile test facilities.

More than \$1.5 million worth of the business went to Huntsville firms, and another \$1 million was spent in the Southeast. The remainder of these awards were to companies nationwide, but do not include those for a million dollars or more spent in procuring missile systems.

The Missile Command Procurement and Production Directorate executes these awards.

April was a record month! Nearly 817,000 persons trained under G.I. Bill provisions, the most since June 1, 1966.

Recent law enlarges VA's definition of "children" for purposes of veterans benefits, and increases benefits to nearly 51,000 children by 10 percent.

# NOTICE

## USED CARS FOR SALE TO THE PUBLIC

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**1968 PLYMOUTH V.I.P. CPE**. Loaded, all extras, local car. Book \$2,150. **OUR PRICE** ..... \$1,875.

**1965 MUSTANG**. V8, stick shift, air. Retail \$995. **OUR PRICE** ..... \$690.

**1964 PONTIAC BONNEVILLE CPE**. This is a very unusual car, in mint condition. Wholesale Book \$740

**1962 FORD CPE**. Good fishing car. .... \$150.

**Huntsville Dealers Auto Auction**  
117 Jordan Lane  
PHONE 837-4101

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If you have a yen to go boating . . . and need a boat, see S/SGT Charles Workman, Supply at the Special Services Building.

Active duty military and retired personnel are eligible to rent the 31 boats and trailers that Sgt. Workman has chained to the racks

outside of Building 3491. He has a variety of 10, 12 and 14 foot-long metal boats with trailers that are rented on a "first come" basis.

Rental fees are 50 cents per day for just the boat and trailer or one dollar a day with an outboard motor. Boats and equipment can be checked out for two days during the week and for three days on the weekends.

While the Special Services Supply is open only from 0800 to 1630 Monday through Friday, personnel renting the boats can come by the office and pick up the keys to their boat and then come back and get the boat when they are ready to go.

Boats can be taken to any body of water in the state as long as the equipment is brought back within the time limit so everyone has an opportunity to use them.

In addition to boats and motors, Special Services has three sets of camping equipment that can be checked out for a week at a time. Camping sets contain tents, stoves, ice chests and lanterns and fit into a car trunk or trailer.

According to Capt. Paul Jensen, Special Services Officer, "all

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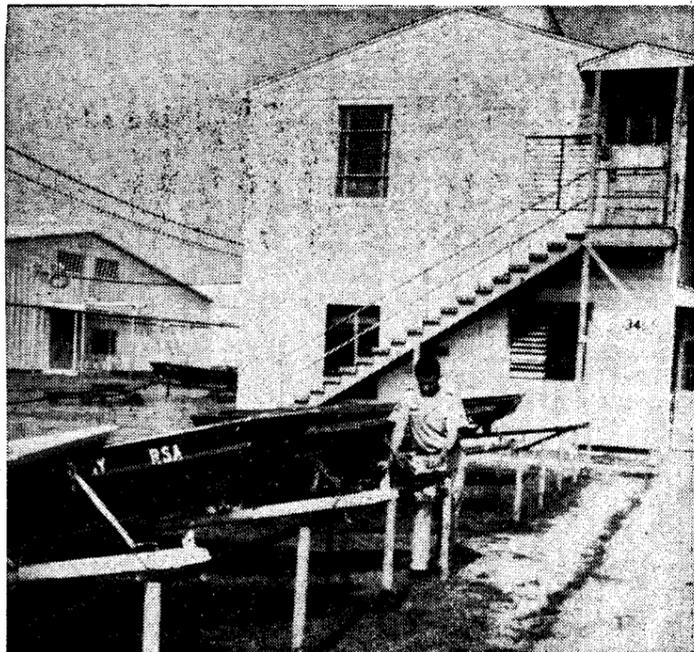
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## YOUTH SPORTS PROGRAM

Schedule for Week July 27 thru August 1

Time — Activity	Location
8:00 a.m.—12 noon daily—Tennis Clinic	Officers' Club Courts
8:00 a.m.—9:00 a.m. daily—Swimming (Girls)	EM Pool
9:00 a.m.—10:00 a.m. daily—Swimming (Boys)	EM Pool
8:00 a.m.—12 noon M-W-F—Gym Activities (Girls)	Workout Facility
8:00 a.m.—12 noon Tu Th—Gym Activities (Boys)	Workout Facility
8:00 a.m.—12 noon daily—Playground Activity	Playgrounds 1 & 2
1:00 p.m.—5:00 p.m. daily—Playground Activity	Playgrounds 1 & 2
1:00 p.m.—5:00 p.m. daily—Water Safety	Tenn. River Boat Docks
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 Registration	RSA Lanes
9:00 a.m.—11 a.m.—(Mon.) Bowling Clinic	RSA Lanes
10:00 a.m. (Thur.-Fri.)—All-City Swim Meet	Big Springs Pool



**BOAT CHECK**—S/Sgt. Charles Workman, Special Services Supply sergeant, checks the chains and locks on the 31 boats that are available for rent to military and retired personnel, at Redstone Arsenal.

equipment must be signed for during the normal hours of operation and returned on schedule so everyone can have an equal opportunity."

Anyone needing information about equipment available for checkout can call Sgt. Workman at 876-1418.

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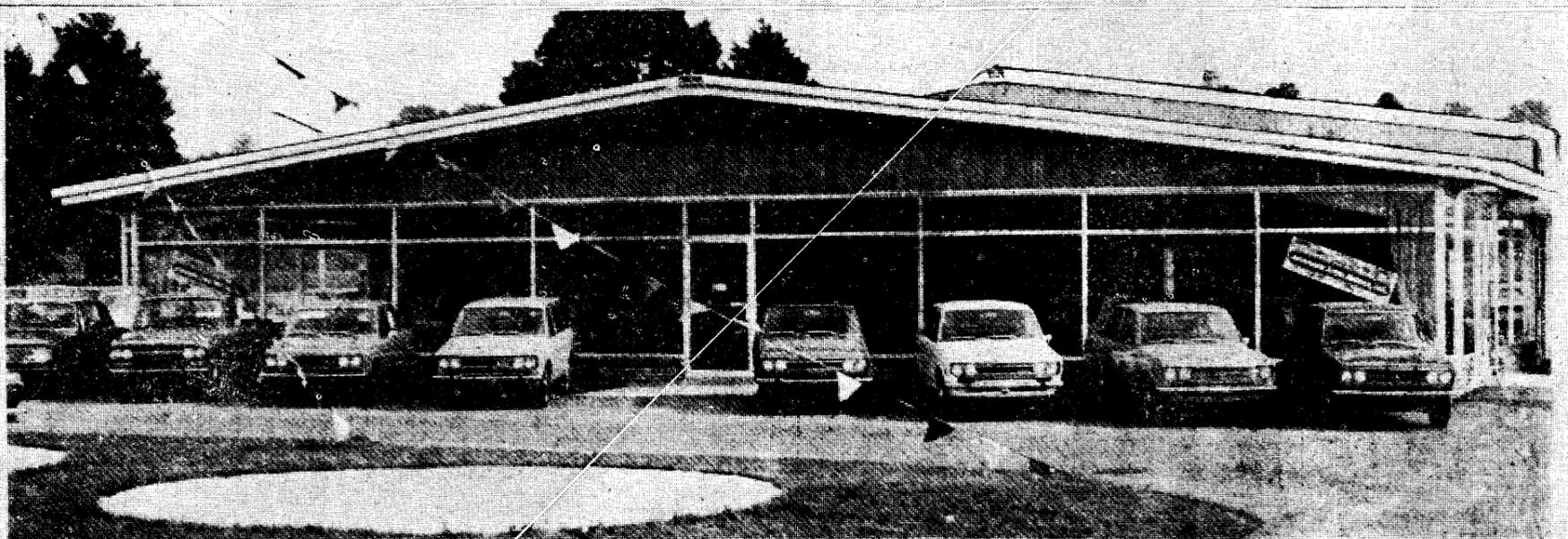
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# Arctic Tests Provide A New Set Of Problems

By  
**GEORGE H. SIPES**  
 Product Assurance & Test Division  
 SHILLELAGH Project Office

**Editor's note: What kind of problems do Army missile testers face during bitter cold at 25 below zero, and lower? That's what Shillelagh crews were attempting to discover during recent Arctic tests at Fort Greely, Alaska. George Sipes, a Shillelagh missileman who was there, tells about some obstacles faced and how Shillelagh experience resolved them.**

The Army's SHILLELAGH missile is designed to be fired from any of three different tracked vehicles; the Sheridan, M60A1E2 and MBT-70. The SHILLELAGH Project Office, which manages the development and deployment of the missile, recently conducted winter Arctic tests at Fort Greely, Alaska to determine missile and vehicle compatibility under modified conditions. In the process, lessons were learned and new opinions formed about Arctic winter testing.

These particular tests represented a departure from the usual manner of missile testing. Normally a detailed test plan is provided to a resident crew at the test site. The crew then learns missile operating requirements, fires required missiles and writes the test report. The Project Office later decides what additional tests, if any, are needed.

To support the recent Arctic tests, an experienced test crew checked out all equipment at their home base in warm weather, then along with their equipment and SHILLELAGH Project test manager, were air-lifted to the Arctic test site. A test plan previously written was followed when possible, but the test objectives represented the over-riding guidance and the on-site test manager changed the test plan details as required to achieve the objectives.

A concentration of test crew experience and decision-making capability at the test site was justified because of the short Arctic test season. When additional tests or test modification requirements become apparent only after the final report is analyzed, they must await the next winter test season.

The experienced SHILLELAGH test crew was able to recognize every departure of missile performance from that normally experienced, to determine its probable cause, and to evaluate its importance. The basic guidance which the test manager followed was simple: Do now the things which, after all the data is carefully analyzed, logically should have been done.

The concentration of experienced personnel at the test site produced results when the chips were down. A situation which called for a modified piece of equipment was recognized. The on-site test crew breadboarded the modification and tested it, verifying its superiority. Under the rigid test plan system, the modification could not have been made or tested until the next winter season. Thus, a year was gained in fielding the modification.

Economies were realized by selecting the camera crew from a desert testing center, where the busy season is during the hot summer months, and the winter workload is light. Use of the desert center's camera crew for Arctic test support eliminated recruiting additional cameramen for Arctic duty and evened the desert center's workload.

Although most of the testing was done by imported personnel, the permanent party at the test site gave invaluable help in adapting the test crew to the Arctic environment. The test crew was briefed on

the Windchill factor promptly after arrival. The Windchill factor warns how quickly bare flesh will freeze. The time gets quite short with lower temperatures and higher wind velocity. At -35°F and 25 MPH wind velocity, exposed areas of the face will freeze within 30 seconds.

The bitter cold Arctic temperatures caused problems which were difficult to anticipate when one was accustomed to a more temperate environment. Cold temperature caused practically all test support equipment to become less flexible, sometimes rigid. Electrical cables often snapped with a loud cracking noise when bent. When possible, they were installed only on relatively warm days. The necessity to wear thick gloves or mittens greatly reduced dexterity, and took more time for all operations.

A tough decision in Arctic winter testing is "when to test." The question often faced was, "should we test today at a temperature not exactly what we prefer or should we save our test sample and wait until tomorrow?" The difficulty was greater because test missiles were few and relatively expensive. Basically Arctic temperatures are hard to predict. The forecasters talk in terms of probabilities of seeing a specified test temperature the next day, rather than predicting a temperature range.

To prevent possible loss of an acceptable, though not ideal, temperature, a range of acceptable temperatures was designated prior to each test, thus no acceptable test temperature was passed up and lost while waiting for the ideal temperature. The test crew was required to be at the test site in a ready status during all normal duty hours. When there was no probability of an acceptable test temperature, the time was used for routine maintenance.

One problem evolved when it was thought adequate preparation for the cold weather had been provided. The movie cameras were equipped with internal heaters calculated to protect the film and mechanism at temperatures much colder than the missile test temperatures. The cameras were operated intermittently over a period of about two hours. Technicians verified that outer lenses were clean prior to each operation. Yet, when the film was developed, the first part was clear and sharp, but as the film progressed, it gradually became obscured, indicating lens frosting.

Vapor from the warm film had flowed through the open shutter and condensed and frosted on the inside of the camera lens assembly. The problem was solved simply by closing the shutter during every intermittent period when the camera was not in operation.

The camera problem illustrated a statement often heard from the Arctic permanent party personnel, "people in warm climates can't possibly anticipate all the problems which occur during Arctic winter tests." It was concluded that all equipment going to the Arctic should first be verified to be in perfect operating condition

If possible, its satisfactory operation under cold weather conditions should be verified in a cold chamber. Finally, adequate maintenance and repair facilities should be available to correct the cold environment problems which cannot be specifically forecast but are going to happen.

## Wives Luncheon Aids RSA Youth

The Redstone Non-Commissioned Officers Wives Club is sponsoring a summer luncheon July 29 for members and any others interested in attending. The event will start at 11:30 a.m. at the NCO Open Mess, and is in connection with the Club's program to assist the youth program on Redstone.

Decorations will feature a swan carved from ice, and the program includes a demonstration on ways to wear scarves.

Reservations to attend the lunch-



**REENLISTMENT TROPHY**—A happy trio from HHC, School Brigade, poses for the photographer after receiving the MMCS Reenlistment Trophy for the second quarter of this calendar year for units in Group II (permanent party strength of less than 50). Holding the coveted award is SFC John E. Norton, unit reenlistment NCO while at rear are, from left, 1SG Richard Bennett and CPT Richard W. Bregard.

eon may be made by calling Mrs. Louis DeMichle, 852-2181, who is luncheon chairman, or Mrs. Charles Havner, 837-5206, who is the chairman, by July 27.

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# Contribute To Short Story Collection

A colonel's wife from Redstone and a chemist who works for the Missile Command Post Engineer are contributors to a recently published book "Alabama Prize Stories 1970".

Mary Anne Edger, a well known local artist, and wife of Col. Robert Edger, illustrated the book of short stories by Alabama authors with pencil sketches of the authors at the beginning of each of their stories.

The Missile Command author is Jim Reid who wrote "Toothbrush From a Sweet Gum Tree," a story set in the South. His story is one of 29 appearing in the book, and was selected from 200 entries by Alabama authors. The book was sponsored by the Huntsville Chap-

ter, the American Association of University Women.

Reid, from Mississippi, did his undergraduate work at King College, Bristol, Tenn., where he majored in chemistry and studied creative writing. He received first prize at the Birmingham Art Festival in 1964 for a story entitled "Life is a Mule."

Mrs. Edger, who has been an artist since she was a child, took art lessons on Saturdays instead of going out to play with other children. She graduated from Stephens College, then went on to the University of Louisville.

She also studied at the National Gallery of Design in New York and at the Phillips Gallery in Washington, D.C. She has a bachelor of

arts degree with honors, in creative arts.

Portrait sketching is her special interest. She works in oils and water color as well as other media.

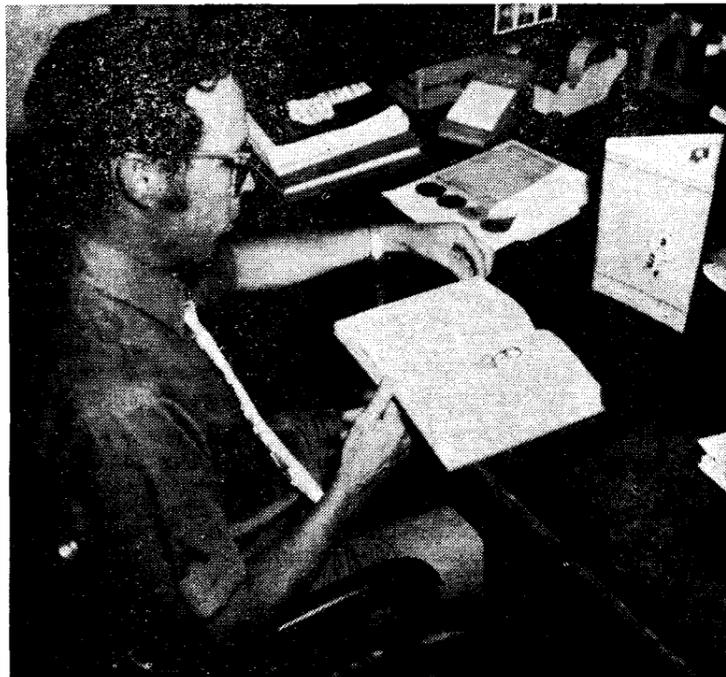
## Latest GSE Used For Pershing Shot

Two Army Pershing missiles, only minutes apart, landed on target last week at White Sands Missile Range, N.M.

Both missiles were launched from Blanding, Utah, by troops of the Seventh U. S. Army, flown from Europe for the firings.

Used in both firings, the Army said, was the newer model Pershing I-A ground support equipment.

This brings to ten the number of Pershings fired during the spring and summer series.



JIM REID—Contributes Story



MARY ANNE EDGER—Artist

## School Early-Outs Upped To 30 Days

WASHINGTON (ANFS) — Army officers and enlisted men and women requesting early separation to attend school may now be released up to 30 days prior to the day classes convene.

Previously, officers were separated up to 15 days prior to the beginning of classes. Enlisted personnel were allowed 10 days.

The new ruling now provides reasonable latitude in authorizing separation on a date which gives the individual adequate time to register and enter school on time.

Personnel may be eligible for the school "early out" if:

- They must move their families to the location of the education facility, or
- The school's latest registration date, in relation to the class starting date, would work an undue hardship on the individual, or
- They are returning from overseas.

Army Regulations 635-100 and 635-200 provide necessary guid-

## Noted Physicist Speaks On Laser

Dr. Svern Andersen, a nuclear physicist from the University of Oslo in Norway, will be a guest of the Sewanee Summer Institute of Science and Mathematics tomorrow.

Andersen is in Sewanee sponsored by the Foreign Scientist project, a program set up by the National Science Foundation and the American Association for the Advancement of Science, and will lecture and conduct classes.

His lecture on "the laser and its application in optical demonstrations" will be presented in Blackman Auditorium Thursday at 8:00 p.m. Both the lecture and the demonstration are open to the public.

July 8 — Dateline 1776 — The Liberty Bell was first rung, signifying the Proclamation of the Declaration of Independence.

ance on early releases for school.

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ADMISSION: ADULTS \$1.75—CHILDREN (11 & Under) 75c



## MISSILE & MUNITIONS CENTER & SCHOOL



### NAMES IN THE NEWS

SP4 Win Henderson

#### FAREWELL TO MMCS

After 21 years and 8 months of service, James Congo has turned in his press at training aids to enjoy the life of leisure that is reserved for civil service retirees. Congo started working here at MMCS in 1942. He left for a one-year stint in the Army in the early part of 1943 and returned to civil service at the end of the year as an assemblyman at the old Huntsville Arsenal. In February of 1956 he became a Diasco equipment operator in the Training Aids Dept. In March of 1958 he switched over to the press, the job he has held for the past 12 years.

#### BATTALION AWARDS CEREMONY

Three individuals and two ETC's were honored on Thursday when the 2nd Bn held its monthly awards ceremony. SGT Lucky Stubblefield was the recipient of the Army Commendation Medal for meritorious service while serving in Korea from June, 1968 until December 1969. He was stationed with Co. A, 11th Eng. Bn., 36th Eng. Gp, and served as an assistant squad leader and later as squad leader.

PFC Michael O. Moran was congratulated on his being chosen as SOM for both MMCS and the Arsenal for June. Also honored in the SOM department was PFC David M. Bloh who was chosen as the Bn. man for July.

The two ETC's receiving commendations were the 5th and the 7th. The 5th ETC received the Blood Donor Trophy for June for their contribution of 76 pints. The 7th received streamers for being chosen Honor Company for April

and June. Incidentally, both the 5th and the 7th will be awarded a permanent yellow streamer for achieving the position of Honor Company for three months straight. The 5th did it from January through March of this year and the 7th from April through June.

#### NEW FACES



**CPT. HARRY S. FLEMING**  
Foreign Liaison Dept.

A new chief of the Foreign Liaison Office commenced his duties on Thursday. He is CPT Harry S. Fleming, a native of Menlo, Iowa and a recent arrival to MMCS from Aberdeen Proving Grounds, Md. where he was a student in the Ordnance Officer's Advance Course.



**CPT. WARREN F. HODGE**  
Guest Speaker

The MMCS guest speaker for the graduation exercises to be held at the Post Theater on July 24 is CPT Warren F. Hodge. CPT Hodge is presently the chief of the Technical Ammunition Div. here. Before coming to MMCS, he was stationed with the 295th Ord. Co., RVN. So far in his military career, he has been the recipient of two bronze stars and two ARCOMS.

#### THE CHOSEN FOUR

All three MMCS Bn's and UTC have held their SOM boards and produced their man for the MMCS competition. They are SP4 Tommy R. McAnally, 1st Bn; PFC David M. Bloh, 2nd Bn; PFC Peter G. Henderson, 3rd Bn; and PFC Edward A. Wignal, UTC.

Bloh, from the 5th ETC, is a student in the Land Combat Support

Systems Course. A resident of Ventnor City, N. J., he entered the service in Nov., 1969 and came to MMCS in March of '70.

Wignal is presently a clerk-typist for the 249th Ord. Det. Hailing from Palm Bay, Fla., he attended Wayne State University in Detroit and holds a B.S. in Business Administration.

McAnally, part of the Co. D cadre, is a supply clerk. Originally from Shelbyville, Tenn., he and his wife now live in Huntsville.

#### REENLISTMENTS

During the past two weeks, 14 individuals around MMCS have taken the oath and volunteered to remain in the service for various periods of time. Re-upping for six additional years were SGT Gomez Rames, 249th Ord. Det. and SP6 Clyde Miel, Co. A. Sworn in for four more were SSG Charles Phillips, HHC, UTC; SSG Charlie Preston, 4th ETC and SSG Richard Hawkins, HHC, Sch Bde.

Nine individuals extended their tours by three years. They are: SFC Edward Dennard, 5th ETC; SFC Raymond Houpes, Co. B; SFC John Jones, Co. D; PFC Dennis Puls, 7th ETC; SFC Charles Schonfeld, Co. B; SGM James Arblaster, Co. C; SSG Robert Poff, HHC, UTC; SSG William Worsham, UTC, and SFC John Stapf, Co. A.

#### TOP EM FOR JUNE

Our congratulations go out to PFC Michael O. Moran, 7th ETC, 2nd Bn, MMCS. By demonstrating the highest qualities of an enlisted man, he was chosen as the Redstone Arsenal Soldier of the Month for June. In doing so, he received two certificates of achievement, one from MG Donley, CG of the Arsenal, and the other from

Col. Levy, Commandant, MMCS. He also received a few fringe benefits in the monetary department: two \$25 Savings Bonds and a free trip on the town, compliments of the Huntsville Junior Chamber of Commerce. Good Work, Mike; MMCS is proud of your accomplishment.

#### COMMANDANT'S AWARDS

Col. Gilbert P. Levy, Commandant of MMCS, made the rounds of the various school departments on Tuesday morning and gave out a number of awards and service pins. Receiving the Twenty-Year Service Pin was William D. Keller from the Log Br. Recipients of the Ten-Year Service Pin were Bobby N. Duncan, Log.; Betsy R. Collins, Pers. Div.; Betty C. Thrasher, Security Div.; James L. Ballinger, Sr., Foreign Liaison Div. and Stanley W. Clements, Ofc of Opns.

Those receiving Outstanding Performance Rating certificates were Leslie C. Carrol, D&NM and Charles W. Fisher, Ofc of Opns.

### Movie Schedule

FRIDAY, July 24

"Karkatoa, East of Java" (G)  
INCREASED ADMISSION: adults 50c, children 25c.

SATURDAY, July 25

"Let It Be" (G)

SUNDAY-MONDAY, July 26-27

"Company of Killers" (G)  
TUESDAY-WEDNESDAY, July 28-29

"Southern Star" (GP)

INCREASED ADMISSION: adult 50c, children 25c.

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

Sunday matinee at 2:00 p.m.



SP4 McANALLY, 1st Bn., PFC WYNAL, UTC, PFC BLOH, 2nd Bn.

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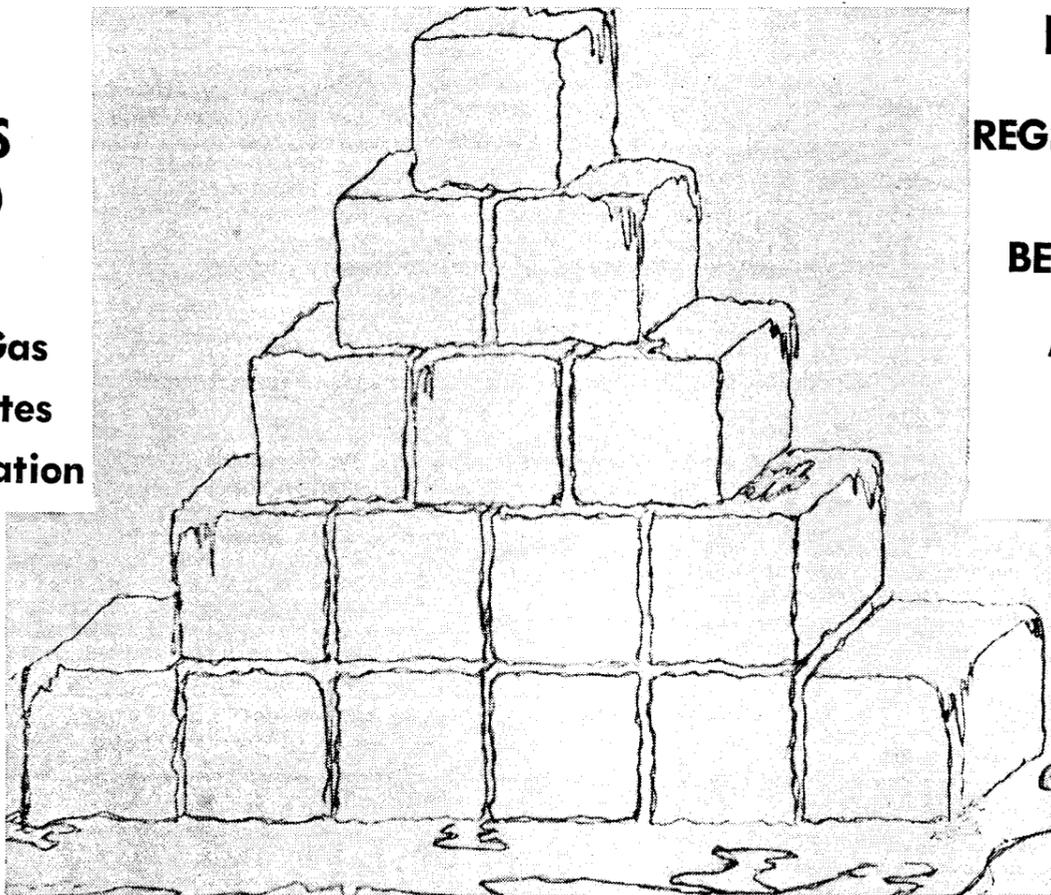
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Was \$4675.00 "THAW PRICE" **\$4160.00**  
2 bedroom, front & rear carpet.

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3 bedroom, bath and 1/2 carpet.

### 60x12 MADISON

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2 bedroom, front living room. Carpet, king size bed. Best in quality.

On Friday, July 24 at 5:00 P.M. Homestead will put on display 25 300-lb. blocks of ice and the person registering the most accurate guess when the ice will melt will win Grand Prize—a beautiful new stereo.

To win a certificate; the person in possession of a certificate at the time melting releases it from the ice wins that prize (No chipping or touching the ice is allowed)

- Register anytime between now and 12 noon, Sat., July 25 at 8 p.m.
- You do not have to be present to win grand prize.
- The time it takes the ice to melt will be measured in hours and minutes.
- The judges will be professional ice melting measurers.



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BE SURE NOT TO MISS THIS 7,500 LBS. OF ICE . . . GUESS WHEN IT WILL MELT!

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## Army Chaplain Serves The Soldier And His Family

Senior officers of the United States Army have, from the Army's beginning, concerned themselves with the maintenance of high moral standards of military personnel. In 1775 when the Army was in its infancy, General George Washington set a standard of excellence in speech in his directive prohibiting the use of profanity among service personnel.

This concern was recently reiterated by a former Army Chief of Staff in his directive that we should apply good taste in selecting material for inclusion in speeches.

The military Chaplain has his-

### Branch Chief Is Guest Instructor

Dr. Oskar M. Essenwanger of the Army Missile Command's Physical Sciences Laboratory will conduct a graduate course at Colorado State University this month.

Dr. Essenwanger, Chief of the Aerophysics Branch, will instruct a course in statistical analysis at the university campus at Fort Collins, Colorado.

The course entitled "Statistical Analysis In Atmospheric Science" carries three semester hours graduate credit and will continue through August 25.

### Rock Hounds Set Monthly Meeting

The regular monthly meeting of the North Alabama Lapidary and Mineral Society is set for next Tuesday (July 28) evening at the Madison County Courthouse.

The July meeting will feature a talk on the early July rock-hound trip to the stavrolite crystal beds of North Georgia. Other interesting subjects will be discussed followed by a question and problem solving session.

All attending the open meeting will receive a free stavrolite crystal.

Club officials said the meeting will be held in Room 410 starting at 6:30. Parking and entry to the courthouse is through the garage.

### Less Draft Calls Expected In 1970

WASHINGTON (AFPS) — Draft calls in 1970 are expected to be about 70,000 to 100,000 less than was originally planned, Defense officials have reported.

In announcing a call for 15,000 inductees in July, the officials said the draft calls for the year are expected to range between 150,000 to 180,000. It was originally planned to induct 250,000 during 1970.

The officials attributed the decrease to "the redeployments being made as a result of progress in the Vietnamization program and subsequent reductions in military strength."

The 15,000 to be inducted during July—all for the Army—equals the numbers called in June and May and brings to 114,500 the number called so far this year.

Tornado victims in Lubbock, Texas, have had some of their problems eased with the donation of 55 VA homes for their use during readjustment.

torically played an essential role in maintaining a high state of morals as well as morale within the Army. The Chaplain plays a vital role also in serving as an advisor to commanders in these matters, however, his interest is not limited to this area. The Chaplain serves as a spiritual leader and confidant—a friend to all at all times. He serves the troops on the battlefield, as well as the family of the soldier waiting at home.

By training and by background, he is especially adept at serving both the soldier and his family. The Chaplain's constant readiness to listen and to assist has given rise to the expression "tell it to the Chaplain." This expression should not be taken lightly as this action frequently serves to relieve pressure and boost morale.

Through the years, the Army Chaplain has been in the vanguard of those who would maintain a standard of excellence in speech as well as conduct, and it is therefore fitting that, on the 29th of July 1970, the 195th Anniversary of the US Army Chaplaincy, we acknowledge the service and the inspiration provided by this group of our military family.

A brief ceremony commemorating the day will be held next Wednesday in the social room of the Post Chapel. All are invited to join in the 10 a.m. festivities. Refreshments will be served.



**CUB SCOUTS TOUR LABORATORY**—Members of a Huntsville Cub Scout Pack visited the Radiation Branch of the Army Missile Command's Physical Sciences Laboratory as part of a special projects workshop for the summer. The scouts are shown above inspecting a Long Counter which counts subatomic neutrons.

### IEEE Group Hears Illinois Professor

Professor Benjamin C. Kuo of the University of Illinois will speak on the applications of linear regulator theories to transportation problems at a group meeting of

the Institute of Electronic and Electrical Engineers Thursday evening.

The meeting of the professional group on automatic control will be held at 8 p.m. in the auditorium at the University of Alabama Research Institute on Sparkman Drive.

Dr. Kuo, a Professor of Electric-

al Engineering, is the author of numerous articles and textbooks on automatic control theory.

Election of new officers for the coming year will also be conducted at this meeting.

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## 2. Cars

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CUSTOM FITTED BRAS, girdles and swim wear, look your best at the pool in a bathing suit that fits, slims, flatters and curves. Phone Pat Robinson 852-2063. 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 Warden, Rte. No. 1, Guntersville, Ala. 35976. 7-29 p

## 6. Pets

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

## 5. Houses, Lots - Sale

WANT YOUR HOUSE SOLD?—We want listings! We will provide personal attention, wide-spread advertising and discriminate showing at your convenience. Enlist retired military personnel to work for you. Call the Ingalls Agency 883-0110. Multiple-Listing Realtor. tffc

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## Viet Era Vets Given Job Boost

President Richard Nixon has issued an Executive Order authorizing Vietnam-era veterans readjustment appointments in federal Civil Service.

The appointments authorized by Executive Order 11521 represent an improved method for providing employment opportunities, coupled with training or education, for returning veterans who need special assistance in making the transition from military life and getting started in civilian careers.

Veterans readjustment appointments may be made to any position in the competitive service in grades GS 3-5, or equivalent. Appointees must have served in the armed forces during the Vietnam era and have completed no more than 14 years of education.

An employee given a veterans readjustment appointment must be enrolled in a training or education program developed by the employing agency in accordance with guidelines established by the U. S. Civil Service Commission.

Under the order, an employee who completes the training or educational program and who has satisfactorily completed two years of substantially continuous service under a veterans readjustment appointment will be converted to career-conditional or career employment; this will automatically put the employee into a competitive status.

The Civil Service Commission has been designated to issue regulations necessary to carry out provisions of the executive order. Instructions are outlined in Federal Personnel Manual Letter No. 307-3, dated April 13, 1970.

New rehabilitation treatment technique to promote self-confidence in long-term mental patients will be used throughout VA's hospital system. Based on simulated social systems, the program has been proven successful in five years of tests.



**BEST MESS AWARD—**WO J. E. Jacobs, School Brigade food service officer, prepares to sample some of the good food prepared in Mess No. 2 after COL J. L. Keown, brigade commander, presented the eating facility the Brigade Best Mess Award for the quarter. Mess Steward for the mess hall is SFC William T. Faulk (right). At left is SFC James Odom, mess steward for Mess No. 5 which won the Best Mess award for the year.

## Savings-Checking Accounts Combined In New Service

WASHINGTON (AFPS) — The Defense and Treasury Departments inaugurated a new concept in banking services for military personnel and their dependents in all Pacific commands July 1.

Effective that date, all savings accounts with military banking facilities were eliminated and a new checking account procedure was established which will pay interest at the rate of five per cent per annum on an account balance of \$100 or more during any one month.

Defense Department banking officials call it a "giant step" toward meeting the need for better banking services for personnel in overseas areas. The new program becomes effective world-wide Oct. 1, 1970.

The program allows the first two checks to be drawn on an account during a month without cost to the account holder. If more than two checks are written during the month there is a 10 cent charge for each additional check with a maximum charge on the account limited to \$3 in any one month. Also, there is a maintenance charge of 40 cents when an individual has used his account in ex-

cess of the two free checks. Defense Department officials report more than 240,000 individual bank accounts in the Pacific Command with the amount on deposit in excess of \$107 million.

Banking institutions that operate military banking facilities for military personnel and that will offer the new special banking arrangements are American Express International Banking Corporation, Bank of America, The Chase Manhattan Bank, and First National City Bank of New York.



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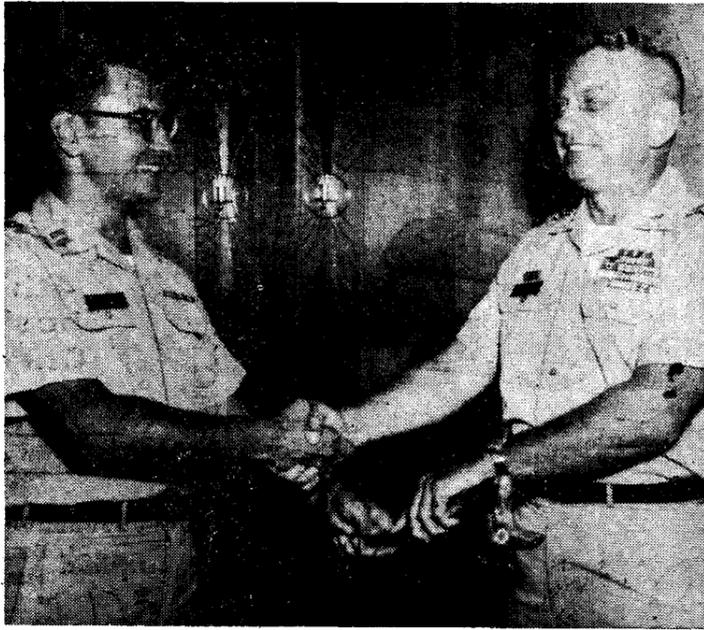
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# Revive Ancient Military Tradition

To most people, "Lily of the Valley" is a small white flower and a "stick" is part of a tree or shrub. But to officers of the School Brigade at the Missile and Munitions Center and School, the "Lily" and the "Stick" (pronounced "shtick") are the symbols of Brigade's weekly meeting at the Redstone Officers Open Mess.

"But why is this get-together called the 'Lily of the Valley' and what is the significance of the 'Shtick'?", asked a new and obviously concerned young officer.

"Now those are good questions," answered CPT William Wallace, a charter "Lily" member and perennial "shtick" holder. "Actually, a large framed picture of a lily of the valley flower was the symbol of our weekly meetings when we started back in 1967. The picture and the 'shtick,' a highly polished device that resembles a miniature cane, were awarded to a deserving officer at each of our weekly meetings. The lily has been discarded, but the name lives on and the 'shtick' is still awarded once a week to a deserving officer."



**LILY OF THE VALLEY**—CPT Dennis R. Roerty, a previous "winner" transfers the "shtick" to "lucky" CPT William Wallace, who sleepily reported early one morning with his insignia on backwards.

### In Good Taste

"Is the 'shtick' a symbol of a goof-up?" asked another young officer.

"Not so," said CPT Roderick M. Ruthven, the "Lily's" Officer In Charge Of Not Forgetting (OICNF) and renowned "bull-slinger." "The purpose of the stick award is to improve morale and give new Brigade officers a sense of belonging and an opportunity to express themselves. Thus, all nominations for the 'shtick' are humorous and in good taste. The funniest nomination, or story wins."

In other words, the person who tells the funniest story wins the "shtick." Right? —Wrong! All nominations for the stick award are made about an "anonymous" officer in the brigade. The assembled gathering votes for the funniest nomination and then and only then does the story teller, or "bull-slinger," identify the officer that his tale was about. And that officer is subsequently awarded the "shtick," while the person who nominated him gets off scot free.

Sometimes the stick award nominations are distorted and wacky to the point that an officer will unknowingly vote for himself to receive the "shtick."

### No One Immune

On one memorable occasion, Col. James L. Keown, School Brigade Commander, voted for a story that most everyone agreed was the best nomination of the week. The story teller then identified the "shtick" recipient — COL Keown, no less. No one in School Brigade is immune from the "shtick" —in spite of an unwritten law that says the Brigade C.O. is ineligible to receive this "award."

The sky is the limit, as far as nominations for the stick are con-

cerned. Some of the recent winning stories include the officer who wore a gas mask to a cook out and the officer who mistook a hand grenade for an Easter egg.

As this story is written, the current "shtick" holder is CPT Dennis F. Roerty, D Company commander. CPT Roerty has signed for the "shtick" in a log book that identifies its holders back to Sept. 13, 1967. In addition, he must carry the "shtick" to all on-post activities, in or out of uniform and, if asked, tell why he is carrying this unique award. The current "shtick" holder also presides over the next Lily of the Valley meeting.

The story that won the stick award for CPT Roerty was about "an officer who had a deceitful wife—pretending to be someone she is not." It was later disclosed that Mrs. Roerty was seen parked in the "Any Second Lieutenant" and "Club Secretary" slots at the Redstone Officers Club. CPT Roerty graciously accepted the "shtick," the logic being that he is responsible for the actions of Mrs. Roerty!

The format of Lily of the Valley meetings include "Confessions," which are limited to babies, birthdays, promotions, and departures from the Brigade. A "Confession" will almost assuredly result in a famous Lily of the Valley action known as "old customs established almost immediately." In other words, the "Confessor" is given an opportunity to host the assembled gathering. If the "Confessor" balks at this "old custom," the lily, being a democratic organization, will vote. (The results on matters of this nature have a long history of being unanimous.)

### Worm Fiddling

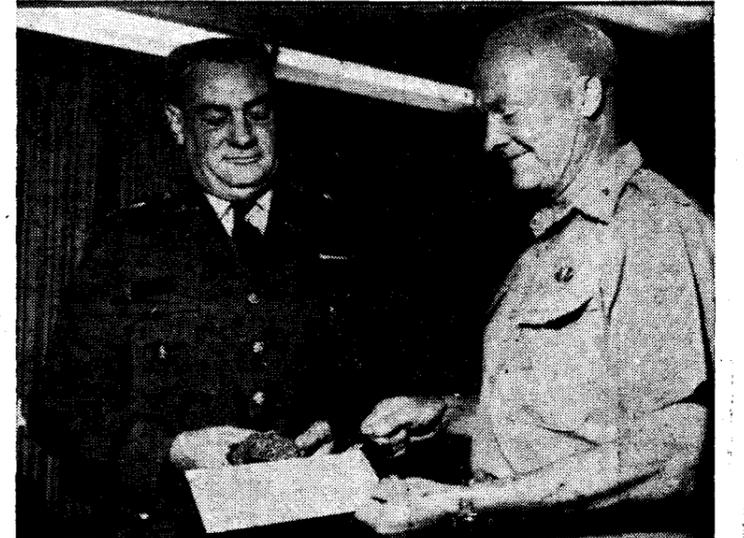
There are also many "Challenges" thrown back and forth between units in School Brigade, promoting an atmosphere of good-natured competition. These "Challenges" involve team sports, soldier of the month selection, best marching unit and "worm fiddling," to name just a few of the events that take place between individuals, teams, and units.

Officers from all over Redstone Arsenal have visited School Brigade's Lily of the Valley meeting, including COL Gilbert P. Levy, commandant of the Missile and Munitions Center and School. It is not at all uncommon to see foreign officers and visiting dignitaries from MICOM, Third Army, and CONARC drop by to swap yarns. Officers returning to Redstone Arsenal from other assignments frequently revisit the "Lily," even though they are vulnerable to a whole list of "old customs established almost immediately."

As outlined in the Lily of the Valley's "unwritten laws," the purpose of these weekly meetings is to increase morale among the officers of School Brigade. Judging from the enthusiasm displayed at weekly "Lily" gatherings, this mission has been more than accomplished.



**OLD TIMES**—Gen. Persons chats with Mrs. Inez Thomas during his visit to the Missile Command last week. Mrs. Thomas was his secretary when the General was MICOM Deputy Commanding General, Air Defense Systems.



**REMEMBER SAFLOG**—Gen. Persons tries out the letter opener presented him as a memento by Col. George F. Gregg, SAFLOG Chief of Staff, during the General's farewell visit to that Command.

## BG Persons Ends Long Army Career

Brig. Gen. Howard P. Persons, Jr., formerly the Deputy Commanding General, Air Defense Systems at the Missile Command, paid farewell visits to Army Commands in the Redstone area last week.

The General, who is the Deputy Chief of Staff for Plans and Combat Development at the Air Defense Command, Ent Air Force Base, Colo., will retire from active duty at the end of this month, a little more than 34 years after his graduation from the U. S. Military Academy.

While here, he visited the Missile Command, the Safeguard Logistics Command, and the Safeguard System Command.

Gen. Persons, with his wife, son and daughter, first arrived at Redstone late in the summer of 1962. He was transferred to his present assignment in the summer of 1965. Following retirement, Gen. and Mrs. Persons will reside in San Raphael, Calif., where they have owned a home for many years.

Most of the General's Army career was spent in Artillery assignments in the U.S., Europe and Korea.

He is a graduate of the Air War

College, Maxwell Air Force Base, Ala.; the Armed Forces Staff College, Norfolk, Va., and the Command and General Staff College, Fort Leavenworth, Kansas.

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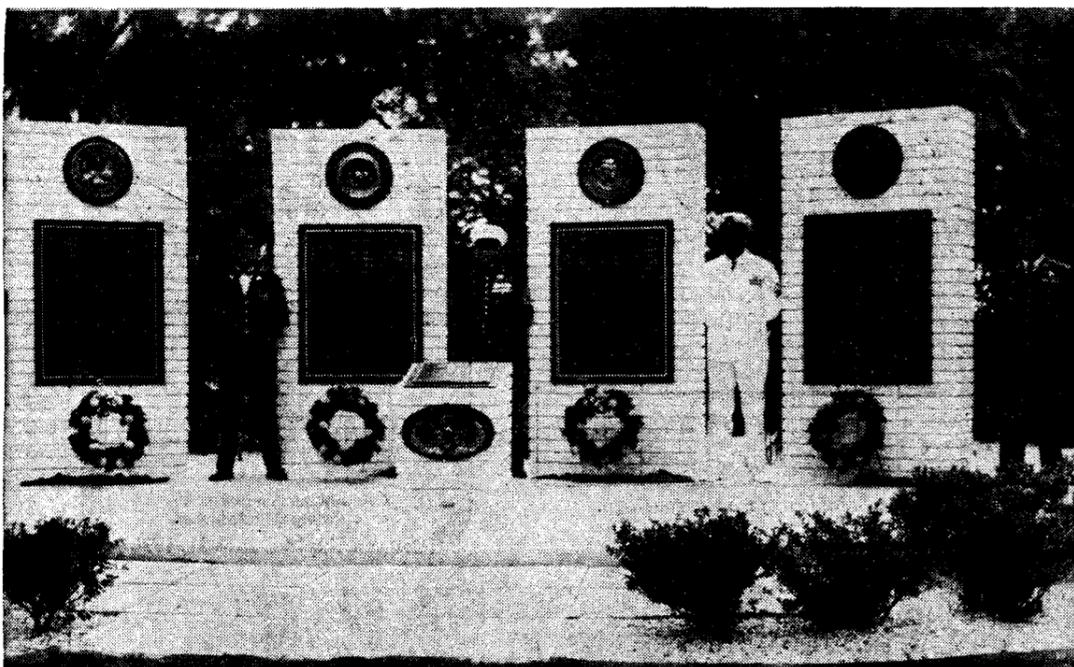
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**MEMORIAL DEDICATED**—Representatives of each service stands beside the column commemorating the dead of his branch during dedication ceremonies of a tri-service memorial at Indian Head, Md., to those who have lost their lives performing their duties or in actual combat. The memorial was financed entirely by voluntary contributions from the EOD community and was partially constructed by volunteer workers from the staff, faculty and students of the EOD School. The Missile and Munitions Center and School is responsible for the Army portion of EOD training at Indian Head and has a permanent detachment of 57 men at the site.

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