

The Redstone Rocket

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

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA 35809

SEPTEMBER 2, 1970

Arsenal-Wide

Spot News

Dial 112

1st SPARTAN INTERCEPT



CWO LYDIC

CWO Lydic Named New Bandmaster

CWO Burnon W. Lydic, Jr., will succeed CWO DeWitt Mytinger as bandmaster of the 55th U. S. Army Band when Mr. Mytinger retires at the end of September.

CWO Lydic arrived at his new post in mid-August following a tour in Germany with the V Corps Band, and has been working on a series of new arrangements while getting acquainted with the men he will direct.

CWO Mytinger was the bandmaster of the 55th when it was activated at Redstone Arsenal in 1958. Between assignments here, he also served in Germany. He plans to live in Arizona after retirement.

Mr. Lydic is a former information officer for the Alabama Military Department, a former promotion manager for the Montgomery (See NEW on Page 2)



INTERCEPTS ICBM NOSECONE—A Spartan missile similar to this one Friday night successfully intercepted an ICBM special target nosecone in a milestone test of the Army's Safeguard missile defense system. The 55-foot long Spartan was launched from the Kwajalein Missile Range in the Pacific. The intercept was the first such test for the Safeguard System which is being deployed in the United States.

Safeguard/ICBM Testing Underway At Kwajalein

A Spartan missile launched from the Safeguard test facility in the Kwajalein Atoll and guided by a Missile Site Radar, also located there, has intercepted in flight an intercontinental ballistic missile nosecone launched 4,200 miles away.

The successful Safeguard anti-ballistic missile system test occurred on Aug. 28, 1970.

The development of the Safeguard System, including the Missile Site Radar, Spartan Missile, data processing equipment and other equipment used in the test was managed by the Safeguard System Command here in Huntsville.

The Command also operates the Kwajalein Missile Range where the test was conducted. The Kwajalein Range is located in the Marshall Islands, approximately 2,100 miles west of Hawaii.

The target nosecone, launched from Vandenberg Air Force Base by a Minuteman I modified test vehicle, was intercepted outside the earth's atmosphere by the

Spartan missile. The Missile Site Radar, a developmental installation at Meek Island, located and tracked the incoming nosecone and launched and controlled the Spartan to the intercept point in space.

Neither the Spartan nor the target nosecone carried explosive warheads. The successful intercept was determined by range instrumentation which indicated that the Spartan's final stage, which in an operational situation would carry a nuclear warhead, flew close enough to the target nosecone to have caused its destruction.

The test was the first to use major elements of the Safeguard System to intercept with a Spartan missile a warhead launched on an ICBM trajectory.

A similar series of intercept tests was conducted by the Nike Zeus system, forerunner of the Safeguard System, during the 1962-63 period. The Zeus system was also developed here by the old Nike Zeus Project Office, (See SPARTAN on Page 3)

\$50 Million Contract Is Signed For Improved Hawk

The U. S. Army has awarded to Raytheon Company contracts totaling more than \$50 million which call for FY-70 production of missiles and equipment for Improved Hawk.

Largest of the awards, for \$26.3 million, calls for an undisclosed quantity of missiles while \$20.9 million will be spent for ground support equipment.

A smaller contract for \$2.8 million calls for additional engineering services on the air defense system.

Most of the work will be per-

formed at Raytheon's Andover, Mass., facility.

Hawk is the Army's air defense system that can destroy high performance aircraft and air-breathing guided missiles operating at low altitudes. It is deployed with Army and Marine Corps units in the United States and overseas.

Under the Improved Hawk program, the outward configuration of the 16-foot missile is unchanged but the missile contains a new guidance package, a larger warhead, and an improved motor pro- (See HAWK on Page 2)

Secretary Fox Visits With People On The Job

Dr. J Ronald Fox came, he saw, and he conquered.

Ask any who met, or talked with, the young Assistant Secretary of the Army (Installations & Logistics) who came to Redstone Arsenal last week and the consensus is:

"He's most impressive."

Secretary Fox spent a day at the Army Missile Command looking at progress made by the command in implementing PROMAP-70, the Army's new program to improve its buying process.

Accompanying him were Maj. Gen. Paul A. Feyereisen, Deputy Commanding General for Materiel

Acquisition at the Army Materiel Command and members of their staffs.

While here, Secretary Fox was briefed on the latest PROMAP-70 developments at the Missile Command, got a look at new post housing under construction, then went on a whirlwind tour through the S&M and P&P Directorates and later through R&E where he saw a display of Army missilery and equipment.

But much of his time was spent talking shop with people, as he described them, "... who actually are doing the work—"

"I was stunned when someone asked me to demonstrate a micro film machine for Secretary Fox," said Beverly Jean Ashford, a young supply management assistant in the Missile Command's Supply and Maintenance Directorate.

"He seemed so very interested in what we were doing. I don't think I went into shock until after he left and I realized who he was."

(Secretary Fox walked through the Supply Control Division and National Inventory Control Point

and National Maintenance Point at S&M).

"He was young—" Marian Czachowski, Section Chief of NIPC said, "but he asked intelligent, probing questions that indicated he knew our business."

"What's more, he seemed genuinely interested in meeting people—as people."

"I think Secretary Fox was more interested in what's going on at the working level than any of the dignitaries we've ever briefed," said Mrs. Mary G. Chris, management analyst.

"Frankly, I was surprised by his youth. But he was really dynamic. His personality reached out and let you know he was extremely interested in what you were telling him."

Mrs. Chris said the secretary was very knowledgeable about cost reduction and S&M's Selected Items Management System (SIMS). "He had a good working knowledge of our programs."

"He also complimented us (Supply Control Division) for exceeding our cost reduction goals by 264 percent," Mrs. Chris said.



GETTING ACQUAINTED—Dr. J. Ronald Fox (left), Assistant Secretary of the Army (Installations and Logistics), emphasized during his visit to Redstone Arsenal last week that "... he wanted to meet people." Here he chats with Marian Czachowski, Section Chief of the National Inventory Control Point at S&M. In the background is Lt. Col. K. W. Gooch, Chief of NIPC. (See other pictures on page 3).

DEADLINE FOR ROCKET

Labor Day is coming up, making it necessary for the Rocket staff to have all copy before noon on Friday in order to put out a paper next week. Thank you all for cooperating and have a happy holiday.

The Redstone Rocket

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

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

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

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

Rocket Ruminations

In a real dark night of the soul it is always three o'clock in the morning.
—F. Scott Fitzgerald

Self-Education

Consider the words of Abraham Lincoln reflecting on his boyhood in Indiana:

"There were some schools, so called, but no qualification was ever required of a teacher beyond readin', writin', and cipherin' to the rule of three. If a straggler supposed to understand Latin happened to sojourn in the neighborhood, he was looked upon as a wizard. There was absolutely nothing to excite ambition for education. Of course, when I came of age I did not know much. Still, I could read, write, and cipher to the rule of three, but that was all."

To get along on the fringe of "civilization," that much education was more than adequate. And, as Lincoln recalled, "There was absolutely nothing to excite ambition for education." Yet, he had the tenacity to pursue the goal of more than literacy in a frontier environment where the barest rudiments of education sufficed.

Today, our learning is supervised. We have teachers to consult, libraries to explore, authorities to guide us. But every American, just as Lincoln, can prepare himself for more than a "frontier education." There is still room to be fired by the urge to develop, to grow in mind as well as body, to understand and to express one's self.

Lincoln had access to only a few books such as the Bible, Robinson Crusoe, and Pilgrim's Progress. Today's Americans—especially those in the armed forces—have the tools of self-education within easy reach. Along with the United States Armed Forces Institute, there are libraries, service correspondence courses and education offices eager to assist in self-education.

Lincoln thought of himself as shiftless. But would a shiftless man, after painfully acquiring the fundamentals of an education, have forged ahead with borrowed books? Not likely. As an example of resolution and pursuit of a goal, Lincoln had few peers among the great Americans we venerate. In moments of self-doubt and discouragement, we can look to him for a renewal of our own sense of purpose. (AFPS)

Back To School Traffic Tips

Before long about 50 million children across the country will be going back to school and exposing themselves to the usual traffic hazards.

Safety experts offer these suggestions to parents and students for a safer school year:

- School yards will be teeming with shouting and racing children who do not watch where they are going. Be prepared for a child to dash suddenly into the street. Be ready for the unexpected whenever you see a group of children near the street.
- If children walk to school, caution them to take the safest route—to cross streets only where they are monitored by patrolmen or only at marked crosswalks. If they must walk along a road without a sidewalk, they should walk on the left side, facing traffic.
- Children should understand that they are never to accept gifts or rides from strangers.
- Bicycles should be walked across busy streets in marked crosswalks or at intersections. Before permitting them to ride bicycles to school, be sure your children can handle their bikes with skill, and know and observe bicycle regulations. (AFPS)

COFFEE HOUSE

Labor Day, Jan and Joahnie will entertain with a Coffee House program at 8 p.m. at the Post Service Club. The duo has a special program prepared. Enlisted men are invited to bring guests.

CATHEDRAL CAVERNS TOUR

Saturday the Service Club is sponsoring a tour of Cathedral Caverns which will include a picnic lunch. The bus leaves at 11 a.m. Pre-registration is necessary for planning the lunch.

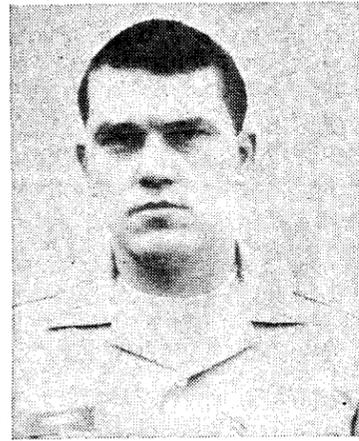
PFC Waggy Averages 99 In Ammunition Course

Among the 79 graduates at the Friday commencement ceremonies of the Missile and Munitions Center and School were seven honor graduates, two recipients of the Association of the United States Army (AUSA) award and a native Huntsvillian.

Cpt. Dieter W. Kuberg, formerly of Huntsville, was graduated in the ammunition officer course. Kuberg is a 1963 graduate of Huntsville High School and holds a bachelor of science degree in mechanical engineering, granted from Auburn University in 1967. Cpt. Kuberg also holds membership in Auburn's chapter of Delta Sigma Phi social fraternity. His wife is the former Evelyn C. Corbitt of Citronelle, Ala.

Seizing top honors at the graduation were Cpt. Thomas Hickson and Pfc Charles D. Waggy. Hickson, a resident of Tucson, Ariz., compiled a 98.3 grade average in the ammunition officer course while Waggy, a native of Franklin, W. V., achieved the near perfect average of 99 in the ammunition records course. Mr. R. A. Peltier, AUSA representative for the Tennessee Valley Chapter, presented both men the AUSA plaque. The plaque is awarded only to those students who achieve an average of 96 or higher in their studies here at the \$100 million global training center.

Guest speaker Maj John Christopher presented certificates of recognition to Spec. 6 Edward A.



CPT DIETER KUBERG

Weeks, Jonesboro, La., having a 95.5 in the land combat support missile systems repair technician course; Spec. 6 Jesse K. Gragg, Dallas, Tex., with a 90.7 in the HAWK fire control repair course; and Pfc James R. Cook, hailing from Spring Valley, N.Y., compiling a 95.6 in the light air defense systems electronic repairman course.

In addition, Pfc Gary L. Hart, Santa Ava, Calif., 93.3 in the Nike missile repair course; and Pvt. Richard M. Young of Freeport, Maine, with a 93.3 in the guided missile repair helper course also received recognition.

In his commencement address, Maj. Christopher encouraged the men to pay close attention to de-

HAWK

(Continued From Page 1)

pellant. The Hawk program is managed by the Army Missile Command at Redstone Arsenal, Ala., under Col. John R. M. Covert, Project Manager. Raytheon Company is prime contractor.

Negotiating the contracts for the Army was the Missile Command's Procurement and Production Directorate, headed by Col. J. T. Haynes.

NEW

(Continued From Page 1)

WSFN-TV, and social science teacher in the Montgomery and Cherokee County school systems.

Mr. Lydic also spent 11 years in the Navy and joined the Army because, as information officer in the Military Department, all the promotional material describing the need for bandmasters crossed his desk. He was with the 1st Cavalry in Korea in 1965-66, his band serving the 20th Division areas.

He earned a master's degree in education at Emory University and received his bachelor's degree at the University of Georgia.

Mrs. Lydic is a native Alabamian from Centre. The Lydic's have a son and a daughter.

tail. He commented that in a "large-size oriented" society, it is easy to overlook the small details. "Attention to detail," stated Christopher, "is the factor that will make performance something other than mediocre."

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HE WAS COMPLIMENTARY TOO—Mrs. Mary G. Chris, a management analyst, chats with Secretary Fox during his walk-through last week at S&M. "He was really dynamic," she explained, "and he complimented our division for exceeding our cost reduction goals."



EXPLAINS MACHINE—Beverly Jean Ashford, a supply management assistant, explains a micro film machine to Secretary Fox. "I went into shock after he left and I realized who he was," she laughed.

Lance Contract Totals \$2 Million

A \$2,000,623 U.S. Army contract has been awarded to LTV Aerospace Corporation's Missiles and Space Division for work on the Lance missile system.

Under the contract, LTV will modify Lance ground support equipment at its Warren, Mich., facility.

Lance is a highly mobile and accurate weapon system designed to place strategic fire on enemy troop concentrations, supply depots, transportation routes and similar targets. The weapon system can be carried by plane or airdropped into combat zones.

The Lance program is managed by the Army Missile Command at

SPARTAN

(Continued From Page 1)

forerunner of the Safeguard System Command.

The Safeguard System at Kwajalein, which was used in the test, is a developmental version of the tactical system which will be deployed in the United States. Construction is presently underway at two tactical sites in North Dakota and Montana.

Redstone Arsenal, Ala., under Col. Samuel C. Skemp, Jr., Project Manager.

Negotiating the contract for the Army was the Missile Command's Procurement and Production Directorate, headed by Col. J. T. Haynes.

Civil Defense Offers Fall Out Shelter Classes

A no-cost Civil Defense course in the design for fallout shelters of air conditioning equipment is announced for Sept. 22 by its sponsors, the local Civil Defense Office and the National Society of Professional Engineers.

The class, open to engineering graduates, will meet for three hours one night a week for 13 weeks. Studies will include environmental aspects of fallout shelters and the problems of habitation within the shelter. The no-cost course is one of a series developed by the Office of Civil

Defense, Department of Defense, in fulfillment of the mission to provide a system of fallout shelters essential to the protection of the population from the effects of nuclear detonations. These courses are offered nationwide to architects and engineers without charge for texts or tuition.

The class will hold an organizational meeting on Sept. 22, 1970, in Room M-50, Research Institute, UAH, at 1900 hours. To pre-register, call the Civil Defense Office at 536-9611.

WORLD WAR II UNIFORM NEEDED

The Office, Chief of Information, Department of the Army, is assisting the French Army Museum in Paris to prepare a World War II display. Among the items needed is a World War II Army uniform of the type worn during the invasion of North Africa. Some of the items have been located but still needed are a wool OD shirt, wood OD trousers, shoes, and a helmet of the type worn during that time period. Anyone having such materiel and caring to donate it for this purpose, please contact the MICOM Information Office, 876-4161.

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Text Of Secretary Packard's Los Angeles Talk

(Editor's Note: Deputy Defense Secretary David Packard recently addressed the Armed Forces Management Association in Los Angeles on today's procurement problems in the Department of Defense. For the benefit of Rocket readers, a full text of his remarks is carried below.)

"I am delighted to be with you here in Los Angeles tonight. I am sorry I was not able to spend more time at this conference, and particularly sorry not to hear Gil Fitzhugh this noon. He and his Blue Ribbon Panel have done an outstanding job in making recommendations which will improve the operation of the Defense Department.

"Secretary Laird and I intend to move ahead as quickly as possible to put most of the 113 recommendations into effect.

I agree in particular with the Committee's recommendation that more decentralization of the Department is necessary. To me that means more decision-making at a lower level and less time-consuming and duplicate second-guessing topside.

"This gives me a problem on the recommendation for the three deputies. We do not want to create a structure that adds more top-level involvement in the working man's business. I appreciate the implication that I have to work hard. I do put in long hours. I assure you, however, that much of my time has been spent doing things that lower levels should do. Three deputies would tend to pull even more decision-making up to the top, and we do not want to move in that direction. What we want to do is give a man a job and let him do it.

"The report greatly under rates the Joint Chiefs of Staff. I have spent a great deal of time working with the Chiefs during the past year and a half. I found them among the finest, most dedicated, most capable men I have ever known. They have given Secretary Laird and me their complete support and cooperation.

"There is no question about civilian control of military operations. Secretary Laird or I approve every operating order; but we do need to streamline the chain of command for operations. This will be done on a careful, step-by-step basis because the problems are complex, and also because we need to assure uninterrupted combat readiness of our forces.

"We intend to give the Service Secretaries and the Services more responsibility so that they can do their jobs. Before they can do their jobs right they will have to break down some of the multi-layer staffing that has built up over the years and work together better to avoid unnecessary duplication. In short, the problem is not the people—it's the system. And now, how does this apply to the procurement problem and this meeting you have been holding this week.

"I suppose that some of our critics will call this a meeting of the military-industrial complex. So be it. I am not embarrassed by the fact that we need industry to help the Department of Defense. I am only embarrassed that we haven't done a better job. Many of you, and certainly those NOT in the industry, may expect me to talk about what a grand job we have all done and how necessary we are for one another. I am not going to do that. I am going to talk about the things we do wrong and the things that we have to do better.

"Let's face it—the fact is that there has been bad management of many Defense programs in the past. We spend billions of the taxpayers' dollars; sometimes we spend it badly. Part of this is due to basic uncertainties in the Defense business. Some uncertainties will always exist. However, most of it has been due to bad management, both in the Department of Defense and in the Defense industry. We can and are doing something about that. I am not talking just about cost over-runs as so many of our critics do. Over-runs are the end product of our mistakes rather than the key issue to be addressed. I am surprised that our critics took so long to discover cost over-runs. They have been around for a long time, and many of the cost over-runs that receive the most publicity were organized by Defense and industry years ago. We are now paying the price for mistakes in contracting, in development and in management.

"Frankly, gentlemen, in Defense procurement, we have a real mess on our hands, and the question you and I have to face up to is what are we going to do to clean it up.

"Let me first mention two things that won't help.

"It won't help for Congress to legislate detailed and inflexible rules governing procurement.

"Nor will it help to put the General Accounting Office in the process of making management decisions. The GAO deserves the highest marks for auditing, but the talents of a good auditor are not identical with those of a good manager.

"The pressures are strong to insert the Congress and its right arm, the GAO, into the details of day to day management decisions in the Department of Defense. Until we in the Department and you in defense industry demonstrate that we can provide capable and efficient management, these pressures will continue.

"I have been in this job now for 19 months. Frankly, I am ashamed I have not been able to do very many of the things that need to be done to improve the situation I found here in January 1969. The most frustrating thing is that we know how we ought to manage—you, me, all of us—and

we refuse to change based on what we know. Every time we want something done in a hurry and want it done right, we have to take the project out of the system. We give a good man direction and authority and let him go—and it works.

"When we needed sensors in a hurry for Vietnam, we got the best man we could find—General Starbird—gave him all the authority he needed and told him to produce—and he did. And I don't know why anybody would be surprised. His successor, General Lavelle, has had the same authority, has consistently returned money from his budget, has done all the management things that people say you are supposed to do, and meets every requirements—financial, managerial or operational—that we could want. Industry does the same thing. The "Skunk Works" in Lockheed has had tough, complex, expensive and demanding programs. Kelly Johnson produces.

"On the other hand, when we are not in a hurry to get things done right, we over-organize, over-man, over-spend and under-accomplish. The most dramatic contrast is within Lockheed. Kelly Johnson and his programs, and the Air Force and Lockheed on the C-5A. I simply cannot understand why we are unable to change the system to avoid the C-5As and get more Skunk Works. We must find a way to do this job right, and you bear as much responsibility as I do.

"We need good people—and by that I mean you—who will step up to their responsibilities. That is what decentralization is all about.

"In the hope you would do this, on May 28 I issued a memorandum of guidelines for Major Weapons System Acquisition. There is nothing in this memorandum that you don't already know. As a matter of fact, the management principles in my memorandum are so simple that anyone who could not have written the memorandum himself doesn't belong in management. Again and again I have made a big point about getting the right man in the right job and giving him authority. But it is just not that simple. Admiral Rickover is a good example.

"The Admiral is a man of considerable capability. He has his own style, but he produces. He got a program, had to fight the system tooth and nail to get it, challenges the system every chance he gets, but is still saddled with the system. I had a long talk with him after the 28 May memorandum was published, and it was clear that I hadn't taught him anything about management. He told me that the principles were great but that if we couldn't get to the system that sits on top of the manager, nothing else mattered. He is right.

"I know Secretary Laird and I bear the responsibility for

the system in the Department of Defense, and I am going to keep working at it. But you in industry bear a similar responsibility, and I expect you to do the same thing.

"In my memo I told the Services to select people with the right background and education for management, give them appropriate training, give them recognition, and leave them on the job long enough to get something done.

"All four Services have accepted my recommendations—and their letters say that they agree. But on at least two occasions they have taken actions exactly contrary to those suggested. The Air Force and the Navy are both involved. In one case, a small dedicated Air Force team developed the gunships which have been so successful in Vietnam. The Air Force decided to put this program into its formal system. About a month ago I asked when we would be able to get some more gunships. The answer was in two years. That program is now out of the Air Force system, and we will have more gunships in six months.

"In the other case the Navy, shortly after agreeing that a good manager should be kept on the job long enough to get it done right, proceeded to promote a key manager at a critical time from an important program to another assignment. The system wins and the cause of good management loses.

"In my memo I talked about policies for development of new weapon systems. The lesson that comes through loud and clear here is we should buy only what we need—not systems you or anyone else thinks they can develop to do something that doesn't need to be done. The Defense Department has been led down the garden path for years on sophisticated systems that you promised would do all kinds of things for some optimistic cost. Too frequently we have been wrong in listening to you, and more frequently you have been unable to deliver on either of these promises—what it would do or what it would cost. And we in the past have sometimes been guilty of over-optimism on our cost estimates and over-demanding in our requirements.

"We share the blame together, but the mistakes of the past cannot be repeated if we are to provide for the nation's defenses in today's climate of a critical public and a critical Congress. We are going to buy only things that we need, and we are going to make sure they work before we buy. The same thought carries over into full-scale development and production. We must know what we are going to do and how to do it before we go into production. We are not going to put things into development until we are sure we need them, and we are not going

to put things into production until we are sure that they work.

"This has been a short speech. I have tried to speak very frankly and directly this evening because the problem is very real. It is you people here tonight and the Department of Defense that must take action to solve these problems. We recognize that these problems cannot be solved overnight and perhaps some of them cannot be solved at all, but it is very clear that it is unacceptable to continue to do business as we have done it in the past.

"The things I have had to say tonight and the things I said in my 28 May memorandum are simple. Many times we have done a bad job—we are going to do a better one. We are going to know what we are doing before we do it, and we are going to manage it better. We have a lot of obstacles in front of us and some of them we created ourselves. We have given our critics the opportunity to find us at fault, and we run the danger that their efforts to direct Defense management will just compound the mistakes in the Department. We don't need more supervision and more people in the act. We need fewer people. The system in the Department of Defense is going to change. Secretary Laird and I are going to demand it. I expect you who are here tonight and everyone else who does business with the Department of Defense to do the same. That is all I have to say."

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RED CROSS AWARD — For the second successive quarter, the TOW Project Office has received the Red Cross Blood Award for the best overall participation in the Army Missile Command Blood Program. Pictured above with the award (left to right) are Lawrence Lafimer, William Adamson, Marvin Carroll and Evelyn Hunter who are outstanding TOW blood donors.

Graduating Class Hears Col. Robert E. Bundy

FT. McCLELLAN, Ala.—The 48 graduates of the Fifth Chemical Officer Basic Class heard a career chemical officer give five basic tips on how to start on a successful Army career.

Col. Robert E. Bundy, comptroller, U.S. Army Safeguard Logistics Command, Redstone, Arsenal, Huntsville, Ala., was the guest speaker at the graduation Aug. 20. He drew on personal experiences from his own career in illustrating the points which, he said, are fundamental but not all-encompassing.

He told the graduates to know their job; to learn from others; to accept and look for responsibility; to do a little more than that which is required and to deal in facts.

Of the latter, he said: "Avoid wild generalizations. Avoid hearsay. Move down your report in a logical manner and stay with the facts."

Col. Bundy entered the Army in 1942 as an enlisted man and served with the 83rd Chemical Mortar Battalion during World War II. In 1948 he reentered the service with a regular Army commission in the Chemical Corps. He has served with the 3rd Armored Cavalry Regiment; the 2nd Chemical Mortar Battalion; Canisius College as an ROTC instructor; office of the chief chemical officer; officer of the deputy chief of staff for logistics; the U.S. Army Logistics Management Center; the 25th Infantry Division in Vietnam; and with the U.S. Military Assistance Command,

Wacs Can Re-up For Recruiting Duty

Assignment to recruiting duty is now an in-service reenlistment option for Women's Army Corps (WAC) members in grades E-4, E-5 and E-6 who are not receiving proficiency pay. Applicants must be at least 21 years of age, hold a general technical aptitude area score of 110 or higher and have completed a minimum of three years service. An Army or state driver license is almost a must. Application procedures are outlined in AR 601-275. (ANF)

tional affairs from George Washington University.

His address was sprinkled with anecdotes containing hard lessons learned early in his career which, in retrospect, seem humorous.

The class itself covered 10 weeks of intensive training to prepare new chemical officers for their initial assignments.

The class average was 859.82 out of a possible 1,000 score.

University Offers Engineering Review

General Engineering Review (EG 090) will be offered during the 1970 Fall Term at The University of Alabama in Huntsville. The class will be taught in Room 221 Graduate Studies Building from 6-9 p.m., Monday and Wednesday, beginning Sept. 9. Carl Ziemke is coordinator.

General Engineering Review is a refresher course designed to reacquaint persons with the technical portion of the first two or three years of the basic engineer-

ing curriculum.

Persons who have been admitted to UAH may register for the course during regular registration, Sept. 2-3; persons who have pre-registered for the Fall Term may register by filling out a change form, available at the Office of Student Records. Persons who have never been admitted to UAH may apply for EG 090 by filling out a Non-Credit/Audit form, which may be obtained at the Reception Desk, Lobby, Morton Hall.

For further information, contact The Division of Engineering, P. O. Box 1247, Huntsville, 35807.

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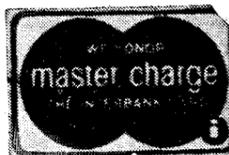
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Army Civilians In Tournament Driver's Seat

Slo-Pitch Finals Set For Tomorrow Evening

The Army appeared to have the situation well in hand as play in the All-Redstone slo-pitch softball tournament reached the semi-final round this week.

Only one of the four Marshall entries was still in the running at the end of last week and they faced an uphill fight to keep the Civilian Welfare Fund from regaining the championship.

The four survivors returned to the diamond on Monday night for a pair of contests. A single game last night set the stage for the final game tomorrow evening. If another game is necessary it will be played on Friday.

The first game on Monday pitted Missile Intelligence against RASA while the afterpiece had Pershing taking on the Astros with the loser bowing out.

MID used their usually excellent defensive play in scoring a pair of wins behind the pitching of Larry Bennett while RASA got similar mileage out of their powerful attack led by John Roberts.

The regular season champions of the CWF league backed Bennett with an errorless effort as he limited the Saturns to four scattered hits for a 7-0 win.

In the second round the same combination proved too much for the Packers in a 4-3 win. In this contest the NASA team fought back from a 4-0 deficit and had the tying and lead runs on when the game ended.

Charles Bradburn, Mel Thomas and Dave Powell provided the

offensive support in the win over the Saturns with three hits apiece and Jack Harris accounted for the only four-bagger. Bennett got a pair of hits himself in the second contest and Harris duplicated as the two split half the MID attack.

RASA opened with a 20-6 win over the Astros in a game that was much closer than the score would indicate, and followed up with a narrow 4-3 edge over Pershing.

Four double plays by the RASA infield wiped out as many Astro threats during the early going and kept the game close until the RASA bats started putting things together. An eight-run sixth turned the game into a one-sided victory.

Roberts got the rally going with a three-run homer that provided Don Casey a working margin for the win. The RASA receiver did his thing early in the win over Pershing with another three-run blast in the opening frame.

From there on it was up to George Lillard to hold the equally-hard hitting Pershing hitters in tow, and he did just that with a sparkling job of clutch pitching that left 13 Pershing runners



CWF SOFTBALL RULERS—The Missile Intelligence team lost only two of 22 games this season in winning both halves of the split CWF slo-pitch softball season. The slick-fielding MID crew added wins in their first two games of the All-Redstone one championship meet that winds up tomorrow evening. Members of the title-winning team are, front row, left to right: Doug Hughes, Jack Harris, Mel Thomas, Larry Bennett, Bill Pennington and Curt Gentry. In the back row are: Darwin Moss, Charlie Bradburn, Bill Fails, Dan Bennett and Jim Gamble. Team members Ralph Sabroe, Dave Powell, Bud Scholl and Tom French were not present for the photo.

stranded. The Missilemen had opened their tourney run with an 18-0 shutout of the Zero G's and they came back after the one-run loss to put the Metrology Lab out of the running with 17-7 decision. George Williams handled the

hurling in each contest with the hitting pretty well spaced over the entire lineup. The win over Metrology was spiced by six circuit clouts. Mike Reid and Wayne Dahlke each hit two while Russ Ward and Hal Jacobs connected once each.

Metrology turned out to be the only Army loser in the opening round, and they by a single run. After dropping a 6-5 decision to the Packers, the Labmen came back to oust the Saturns, 11-9, before bowing out in the loss to Pershing.

All-Day Football Show On Saturday

Football makes its seasonal debut on the Youth Sports Program schedule this Saturday with an all-day fare of nine games at youth football field No. 2 on Goss Road.

A six-game jamboree involving teams that will be performing in the Huntsville Parks and Playground league will get underway at 11 a.m., followed by a triple header of opening games of the Brindlee Mountain League.

Two local area teams, Civic and American, open festivities with a game in the 9-10 year old class. The second contest is a 11-12 year old game matching Western against Mastin Lake.

Four Arsenal elevens complete the card with the 9-10 year old Chargers taking on the Western entry in the third game followed by a 7-8 year old clash between the Lions and Western.

Another RSA entry in the 9-10 class, the Golden Eagles are matched with National with the 7-8 year old Chiefs closing the card by battling the National League team.

The official Mountain League schedule kicks off for the three Redstone entries at 5 p.m. with the Redbirds playing host to Warrenton on the 11-12 year old division.

Another game in the same class will follow with the defending champion RSA Rebels taking on Cotaco.

The curtain drops on a long day of football for Arsenal fans with a contest in the 13-14 class, with the RSA Raiders opening their bid for another league title against Cotaco.

Martha Napper Is Double OWC Winner

Both the 18-hole and nine-hole golf groups sponsored by the Redstone Officers Wives Club played for low gross, low net and low putts during the regular playday last Wednesday on the Arsenal course.

In the 18-hole group, Martha Napper shot low gross, low net and Billy Shuput, low putts. In the nine-hole group, Helen Churan held low gross, Laura Bailey, low net and Marie Melocheck, low putts.

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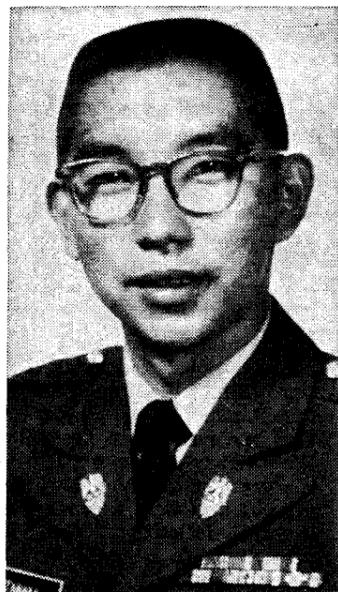


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RIDERS COP RIBBONS—Mike Langley, right, son of LTC and Mrs. C. L. Langley, and Kate Redmon, daughter of Col. and Mrs. John Redmon (Ret.) won a total of 17 ribbons in the Russ-Winn Farms horse show. Mike aboard his horse Max, brought home 8 ribbons and Kate aboard Tioga's Lucky Kyle took nine. Col. Langley is Special Project Officer, Shillelagh Project Office and frequently rides in shows with his son. Col. Redmon, retired, is interested in area horse shows.



CAPT. TANAKA

Capt. Tanaka Named Aide

Capt. Rodney S. Tanaka is the new Aide-de-Camp to Maj. Gen. Edwin I. Donley, Commanding General of the Army Missile Command. Capt. Tanaka will replace former Aide, Capt. William S. Grabowski who will soon leave the service to do postgraduate work at the University of Arkansas.

This is Capt. Tanaka's third tour of duty at Redstone Arsenal. Prior to his current assignment, Capt. Tanaka completed the Missile Maintenance Officers Course at the Missile and Munitions Center and School. During 1969, he served with the 191st Ordnance Battalion in Vietnam where he received the Bronze Star Medal.

Capt. Tanaka is a graduate of the University of Hawaii in Honolulu and holds a BS degree in electrical engineering. After graduation, he served at Ft. Bliss, Texas; Cleveland, Ohio and Redstone Arsenal before being assigned to Vietnam.

Capt. Tanaka is the son of Mr. and Mrs. Goro Tanaka of 2132 Mohala Way, Honolulu, Hawaii.

Grunwald Speaks At Convention In California

W. E. Grunwald, Chief of the Systems Engineering Branch of the Army Missile Command's Land Combat Support Systems Product Office, recently addressed an assembly at the 1970 Western Electronic Show and Convention held August 25-28 in Los Angeles, California.

The subject of the address was a paper entitled "LCSS, An ATE Case History" which was presented jointly by Grunwald and O. T. Carver of RCA's Aerospace Systems Division.

LCSS is a portable, automatic test system for field maintenance of the Army's Dragon, Lance, Shillelagh and TOW missile systems.

and form a committee to select an Arsenal Bowler of the Month. So, league officials think about it.

This column will be a regular feature during the winter season, so support it. Let us know what your league is doing. Special forms have been distributed to the bowling center for that purpose. See y' next week.



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SPLASHING IT UP—With summer drawing to a close and school starting these Redstone Arsenal young folks splash around on a last fling in the Special Services Madkin Mountain swimming pool. It's school time again, but for now, it's fun in the sun.

Mixed League Sets Plans For Season

The S&M Mixed bowling league is in the process of reorganizing for the 1970-71 season and has a few openings for both males and

female bowlers.

The league will bowl the early shift, starting at 6:15, on Monday evenings at the Playmor Lanes.

Persons wishing to sign up for the league, or to obtain additional information, may call Mel Webb at 6-2686.

Set 'Em Up—

Post Lanes Gets Ready For Full League Slate

By SFC BEN CASEY

The lanes are being resurfaced, bowlers who have been in hibernation since the close of the 1969-70 winter season have begun to thaw out and league officials are desperately trying to put some order into what appears to be a group of babblers who can't decide whether there will be a position night or there will be eight or 16 teams to comprise the league.

Then, there are requests for sanctions, averages to be computed and arrangements to be made for bowling. It is a hard task, but come September 8 the local Bowling Center will be abound with activity.

From September 2 through the 6th the local lanes will be closed for resurfacing.

Ten leagues will be in operation this winter, both day and night. The competition is open to all military — active and retired — affiliated with the Arsenal. Here's the lineup:

Officers Mixed League — Monday night at 6:30. League play begins September 14. At present all eight teams are filled, but league officials say that substitutes are always needed. Fran Sullivan is secretary and can be contacted at 837-3067.

School Brigade Men's Handicap League — Tuesday beginning at 6:30 p.m. Sixteen teams are needed to fill this league. A meeting will be held September 8, at the NCO Club Annex beginning at 7 p.m. All active duty and retired military personnel desiring to enter the league should contact SGM Charles Rodeen at 876-8507.

Redstone Arsenal Officers League — Wednesday evening at 6 p.m. Sixteen teams will be battling for first place honors and other prizes. P. G. Keefe, secretary

of the league, reports that personnel are needed to help fill out the teams. Keefe can be reached at 895-4980. All active and retired officers are eligible to participate.

On Thursday evening the Missile and Munitions Center and School Officers League will be trying their luck on the maples. The league has its full compliment of 16 teams. Then on Friday evening the **EM Mixed League** will hold forth. The league has hopes of fielding 32 teams with a double shift. At present 24 teams have signed up for the competition with others expected to follow. All retired and active duty personnel are eligible to participate and if interested call Doris Burke at 539-6757 or sign up at the bowling lanes. Competition will begin September 11 at 7 p.m.

The wives leagues will also be bowling during the day. Leagues that operated last year will be back, plus a new league is being formed.

Called the **Thursday Morning Wives League**, membership will be composed of both officer and NCO wives. Averages must be 130 and up. A meeting is tentatively scheduled for September 10 at the bowling center at 9 a.m. Interested ladies are asked to call Fran Heishman or Vera Wilkerson.

There are still openings for the

Wednesday Morning Officers Wives League. The organizational meeting will be held September 9 at 9 p.m. just prior to the opening of the regular play. Call Fran Sullivan at 837-3067 for more information.

All in all it looks like the local lanes will get a great deal of work out. Jim "Peanuts" Powers and his staff is ready to help any league in preparing for the new season.

Another tid bit picked up while calling the secretaries is that maybe the leagues could get together

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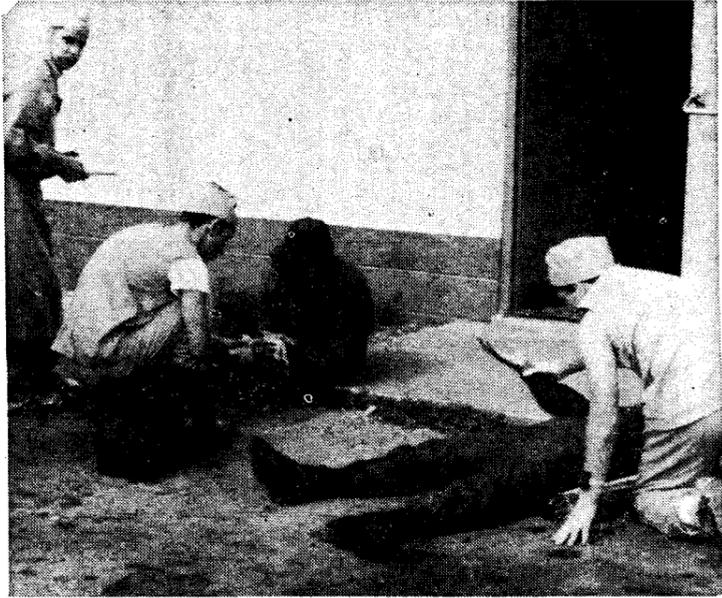
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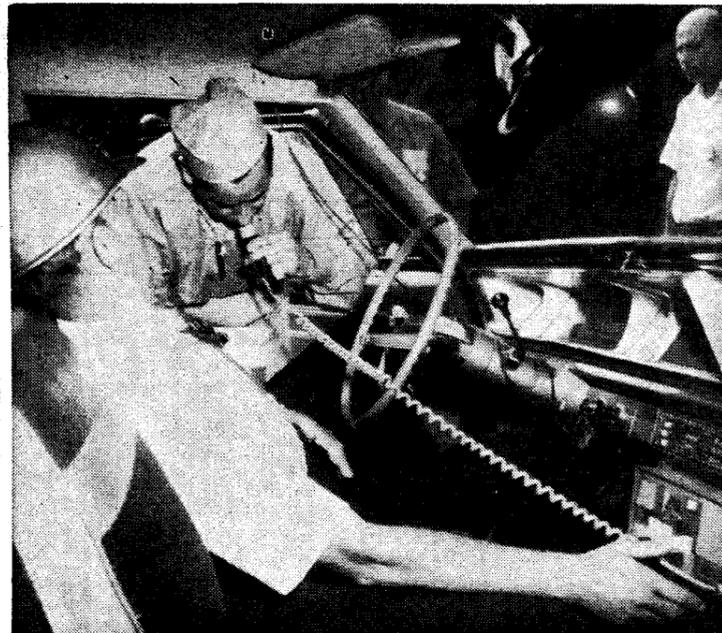
Radiation Exercise Tests Sets Of Procedures



FIRST AID—Ambulance drivers, PFC Allen Franklin and PFC Tommie Cooper, give first aid to radiation accident victims, PFC Michael Connel and SP5 Billy Hill at Thiokol Chemical Corporation, under guidance of radiation protection officer.



ALL ABOARD—After first aid, drivers place victims in the ambulance and speed to the hospital operated by the Redstone Medical Activities Department. The four men are members of the Medical Detachment here.



ALERTING HOSPITAL—Radiation Protection officer for the Missile Command, Henry Ramos, uses military police communications band to alert hospital that radiation accident victims are on the way.

The Army, NASA and Thiokol, separately and together, tried out written procedures covering a radiation accident recently, all ending at the Redstone Arsenal Medical Activities hospital.

Separately, accidents were staged at Thiokol Chemical Corporation, Huntsville Division and at the Marshall Space Flight Center. The post's radiation protection officer, Henry Ramos, participated in the exercise at Thiokol where employees also went through the motions of following the Thiokol procedures to be used in case of an accident with radioactive material.

When the victims were loaded into the ambulance, Ramos came along to the Post Hospital to follow through his duties as radiation protection officer, but his deputy was already on hand with instruments to measure the radioactive count, if any, of the victims and the ambulance crew.

Military police and firemen were also called to stand by to perform whatever tasks might be necessary should they be needed.

Observers were on hand at all points to score the strengths and weaknesses of the radiation protection team, the medical team, and the desirability of the facilities to be used should such an exercise turn out to be the real thing.

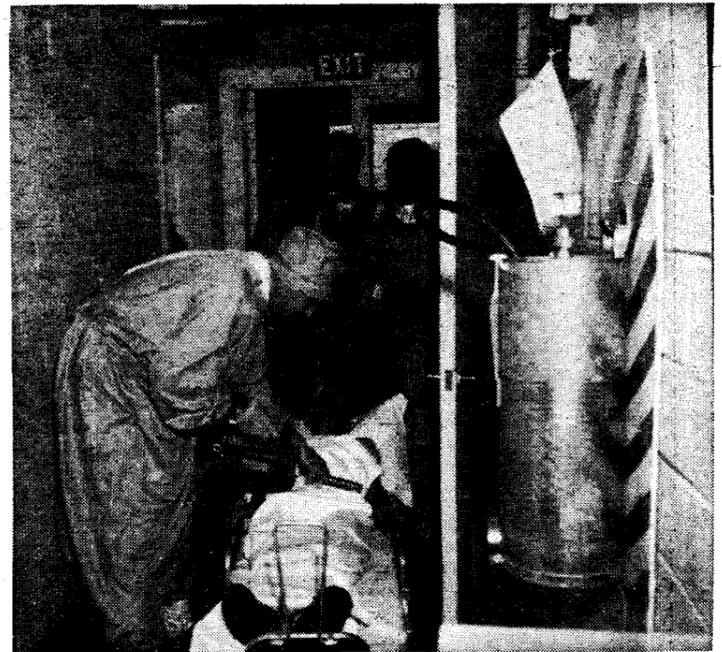
Safety officers at the three sites made notes on the success of the exercise.

The victims were two members of the medical detachment, one with a burn on the hand, another with an arm injured to the extent he needed a protective pneumatic splint.

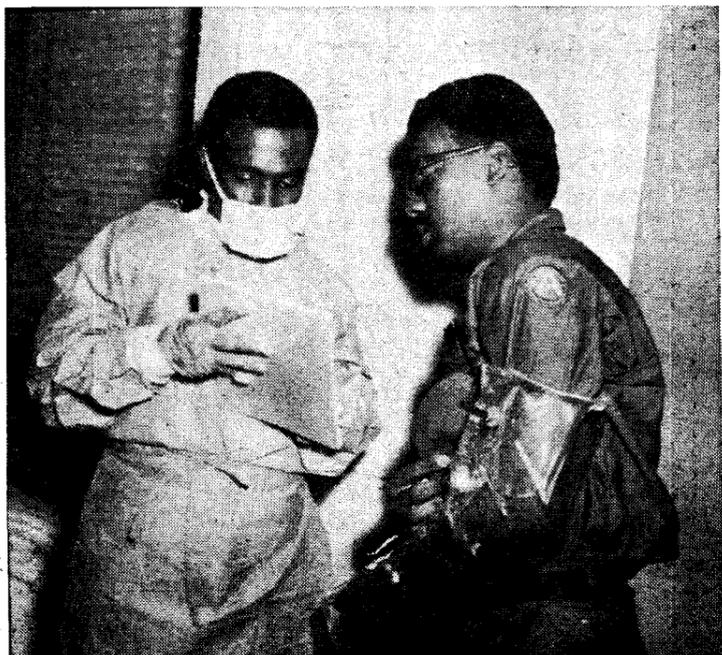
The accident victim from NASA had a broken leg in addition to his exposure to radiation.

All were treated, gone over for possible traces of radiation, and released.

Communications were conducted over the military police network, an agreement made in advance so that the teams would use a single band for the exercise.



ARRIVAL—Another victim from the Marshall Space Flight Center is rolled into receiving where Paul Riley, assistant radiation protection officer, uses instruments to measure radiation count.



CHECKOUT—SP5 Samuel McMullan records details of radiation accident suffered by SP5 Billy Hill before radiation protection officer gives Hill a clean bill of health and dismisses him.



SUITING UP—Dr. Richard M. Hutson puts on clean garments in preparation to receive radiation victims.

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Government Improves Merit Promotion Method

The Civil Service Commission has announced effective November 1, that agencies may no longer use the Federal Service Entrance Exam on a pass or fail basis to promote or reassign Federal employees into positions which now require the test.

The change is in line with the Government's improved merit promotion program. Men and women first applying for Federal employment in jobs filled through the FSEE must still pass the test, however.

Under the new policy, agencies may use the FSEE without a passing score only in combination with other considerations such as experience, training and performance. The plan is expected to contribute to quality staffing by permitting agencies to make a well rounded assessment of employee abilities.

The goals of the Government's upward mobility program will receive help in achievement by opening advancement opportunities to lower grade employees who might have been screened out by the passing score requirement. The plan will also help ease reduction in force situations by giving agencies more flexibility in reassigning employees.

All occupations which presently require the test will be affected. These occupations include Safety Management (GS-018 classification series), Personnel Administration

(GS-201), Personnel Staff (G-212), Position Classification (GS-221), Budget Analyst (GS-560), Public Information (GS-1081), Writer and Editor (GS-1082), and Technical Writer (GS-1083).

Fantasy Offers Drama Classes

Registration for Drama Classes sponsored by Fantasy Playhouse will be held Sept. 5 from 1:00-4:00 p.m. in the Fantasy Room at the Temporary Civic Arts Center, 311 W. Clinton Avenue.

A thirteen week fall series beginning Sept. 8 will offer training in speech, movement, pantomime, character interpretation, stage technique and makeup. Students will be placed in classes according to age beginning at seven years and through the teens. Each class will be limited to ten and will meet once a week for one and one-half hours. Students will have the opportunity to perform on stage in the Arts Council auditorium at the culmination of the series.

The value of drama training is not limited to theatrical aspirants, but will enhance performance in any area of life. Helen Herriott, director of many Fantasy Plays, will teach the classes and it is her aim to impress on young people the importance of correct posture, breathing, articulation and ease

ELECTRONIC TECHNICIANS

The Interagency Board of U. S. Civil Service Examiners for North Georgia has announced acceptance of applications for electronic technicians, GS-5 through GS-9, to fill vacancies in the Southern Region of the Federal Aviation Administration.

Information about the examination and application forms can be obtained at (1) Interagency Boards, or (2) any Post Office in towns where no Interagency Board exists.

Forms are to be mailed to the North Georgia Board located in the Federal Office Building, 275 Peachtree St., N.E., Atlanta, 30303.

FREAR EARNS MASTER'S

Harold Dean Frear of Redstone Arsenal, has been awarded the master of science in engineering degree by The University of Alabama in Huntsville. Frear was one of twelve persons to earn the master's degree from UAH at the end of the summer term. Graduates and their guests were honored with a President's Reception.

of movement so they may overcome self-consciousness and go on to the finer points in expression of feeling. Working within the context of the theatre is an exciting way to accomplish these ends—and who knows when a star is born.

For further information call Helen Herriott at 881-3114 or 539-2592.

Drive Safely!

Wives Club Plans Coffee; Will Welcome Newcomers

The Redstone Officers Wives Club offers members participation in more than 40 separate activities, according to Mrs. Robert Pearce, activities chairman. Members will have the opportunity to choose participation in any of them during the Coffee at Redstone Officers Open Mess Sept. 8 at 10 a.m.

Newcomers will be especially welcome.

The activities cover a broad range. For those who enjoy recreational programs there will be party and duplicate bridge, golf, bowling, scuba diving, ice skating and tennis. Lessons on crafts or hobbies include ceramics, paper mache, decorating with pods and cones, candlemaking, knitting and sewing, burlap flowermaking, cake decorating, art and grappemaking. Other special activities are to be

classes on interior decorating, ballroom dancing, and bridge, an investment club, the choral group and the Home and Garden programs.

Offered again this fall after several years absence will be tours to some of the interesting points in this area. Tentatively planned are trips to Cheekwood Mansion and Gardens in Nashville around Christmas, the Ave Maria Grotto at Cullman, and to the Azalea Gardens in Gadsden. Others will be scheduled according to popular demand.

OWC members are urged to volunteer their time to any number of service groups which are to be represented at the coffee. The Red Cross, thrift shop, Girl Scouts, Boy Scouts and Army Community Service all need workers.

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Flag Was Rallying Point In War Between The States

THE BLACK SOLDIER IN HISTORY

Part 3: The Flag was a Rallying Point for All Men

HQ CONARC, Ft. Monroe, Va.— Jacob Dodson was a black man—a freed Negro slave.

On April 21, 1861, he tried to enlist in the Union Army to fight against the rebellious South.

The date was just 11 days after batteries in control of South Carolina secessionists had fired on the U.S. flag at Ft. Sumter. The attack signaled the start of the bloodiest conflict in which Americans have ever been involved—the Civil War.

Even though Jacob Dodson wanted to enlist and begin fighting that very day, he was told he could not do either. Officials told him the war was to be a "white man's war."

It was not surprising that the "white only" policy was short-lived. Soon after Jacob Dodson and all his black brothers who wanted to fight were doing so—for the North and South.

Union commanders grappled with the problem for almost two years before they agreed to admit Negroes into their ranks.

It was in the late spring of 1862 when Union Major General Benjamin F. Butler enlisted Negroes to form the 1st, 2nd, and 3rd National Guards in New Orleans.

In September of that year he wrote to his command: "I have succeeded wonderfully in my enlistment of volunteers here . . . I shall have 1,000 strong National Guards (colored), the darkest of whom will be about the complexion of the late Mr. Webster."

Once information such as this spread, the North made its decision quickly. But it decided at the same time that the Negro issue had both moral and military overtones.

President Lincoln wrote on the moral question: "Negroes, like other people, act upon motive. Why should they do anything for us, if we will do nothing for them? If they stake their lives for us, they must be prompted by the strongest motive, even the promise of freedom; and the promise being made, must be kept."

With that, the pendulum had swung. The war had become not only one against the North and South; it had become a war against slavery. The Emancipation Proclamation was signed soon afterwards on New Year's Day, 1863.

The question was no longer: Shall we let the Negro fight? It was: How many? And how soon?

Most of the estimated 178,000

to 128,000 Negroes who became involved in the war trained and fought on a segregated basis. They were not treated equally with the white soldiers, but the majority were less interested in their treatment than in being given the opportunity to fight as free men.

Although most blacks fought for the North, volunteers for both sides were anxious to prove their courage and devotion. They jumped into the fray with rifles blazing.

Sergeant Major Christian A. Fleetwood, a handsome Baltimore free Negro, perhaps best exemplified the Negroes' motivation when he wrote in his diary that he had enlisted "to save the country from ruin."

After serving with Union forces at Yorktown, Pa., and at Ft. Fisher, N. C., Fleetwood expressed the feelings of many black soldiers as he further wrote:

"This year has brought about many changes that at the beginning were or would have been thought impossible. The close of the year finds me a soldier for the cause of my race. May God bless the cause and enable me in the coming year to forward it on."

Someone Up There heard Fleetwood's plea, because nine months later his courage under fire earned him a Medal of Honor.

The flag was a great rallying point for soldiers of the Union and Confederacy.

Many men sacrificed their lives to save their respective colors—in both cases stars and stripes.

Sergeant William H. Carney, Co. C. 54th Massachusetts Colored Infantry, was one of those who risked death for the sake of his flag. He was the first of 22 Negroes to earn the Medal of Honor in the Civil War.

Born in Norfolk, Va., in 1840, he ran away from his master's farm to become a seaman. He settled in New Bedford, Mass., until the call went out for Negro infantrymen. Carney, then 23 years old, enlisted on Feb. 17, 1863.

It was about noon on July 18, 1863, when the Union land batteries initiated fire on Ft. Wagner, S. C., a post vital to the capture of Charleston.

The 54th, charging from the South, stopped its advance about a thousand yards short of the fort and lay flat on the ground. At the command "Attention," the men stood up and the bulge sounded their charge. The Negro unit moved past the defenses of the fort, into a ditch, and up and over the walls

into Ft. Wagner itself.

Carney had advanced but a short distance when the musketry fire and shells wounded or killed a dozen men on his right and left. One of those wounded was a color-bearer. Before the flag slipped from the man's fingers, Sergeant Carney jumped forward and seized it. He then made his way to the head of the column.

In a few minutes, Carney found himself alone at the fort's entrance. Around him lay the dead and wounded. He dared not enter the fort alone, so still holding the flag, he hid on an outlying slope.

When the attack was renewed and the enemy's attention was drawn from him, Carney started to run through the tangle of bodies toward a group of soldiers advancing. Carney raised the flag and was about to join them when he realized they were rebels.

Winding the colors around the staff, he made a hasty retreat into a waterfilled ditch. He was alone again.

He continued his flight to the rear and was shot twice. The wounds did not deter him. Carney struggled on, clutching the flag as he stumbled. On the way, he met a member of the 100th New York Infantry. The soldier treated Carney's wounds, and the two continued their retreat. As they dodged enemy fire, Carney was again wounded by a shot that grazed his head. He stumbled from the hit, and the New Yorker offered to

carry the flag. Carney refused assistance, saying: "No one but a member of the 54th should carry the colors."

When the pair reached Union lines, Carney was treated by medical corpsmen, then went to his regimental encampment. When his comrades saw him carrying the flag, they cheered, and he said "the flag never touched the ground, boys."

Carney was discharged from the infantry in June, 1864, and later was presented the Medal of Honor.

One of the witnesses of Fort Wagner was Harriet Tubman, a black Union Army spy who left a memorable and oft-quoted description of the battle:

"And then we saw the lightning, and that was the guns; and then we heard the thunder, and that was the big guns; and then we heard the rain falling; and that was the drops of blood falling; and when we came to get the crops, it was dead men we reaped."

That the Negro soldiers fought bravely during the entire war was recognized by leaders of the Union and Confederacy alike. White officers sought to be assigned to the command of Negro troops and praised them at every juncture of the fighting.

Proudly on their colors they bore the names of the battles where their blood was shed: Port Hudson, Honey Hill, Deveaux Neck,

Pocatiglio, Coosawatchie, James Island, Winton Bluffs, and many more.

When the Army was reorganized in 1866, and put on a peacetime basis, six Negro regiments were established by law as part of the Regular Army. At that period in history this move was not looked upon as a device for segregation, but as a progressive step; as recognition and reward for valor in the Civil War.

Important to Negroes was that from then on they would have an assured place in the American Army.

Over the horizon west of the Civil War battlegrounds, black and white pioneers were struggling to expand the nation in territory occupied by red men.

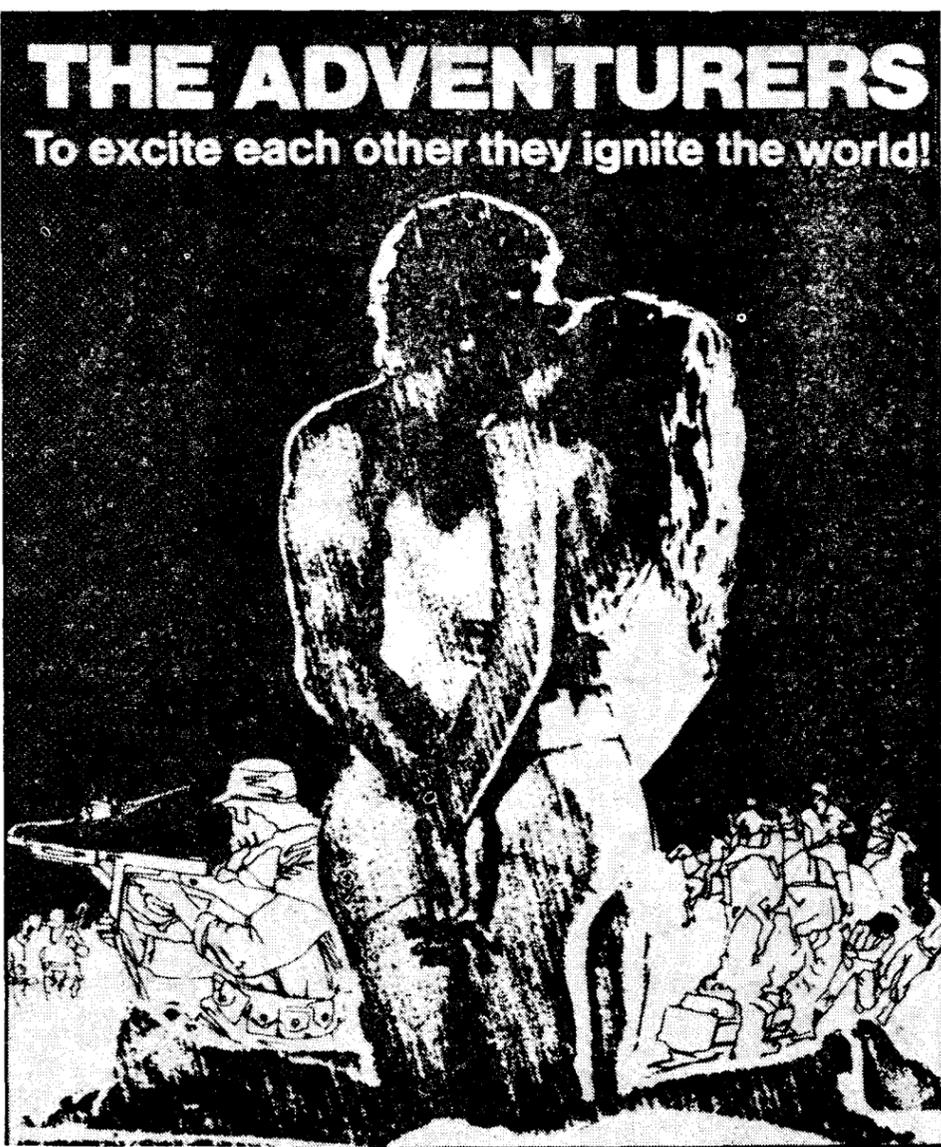
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NAMES IN THE NEWS

SP4 Win Henderson

FORWARD, HO!

During the past two weeks, the MMCS recruitment office has been keeping up with its grueling pace and has succeeded in signing up 10 more school soldiers for additional active duty time. This granted the Army 30 additional man-years of experience upon which to depend. The men volunteering for three more are: SGM Charles W. Rooden, Co. B; MSG Alvin W. Goodman, Co. A; SFC Donald Piroli, UTC; SSG Joe L. Donald, Co. C; SP6 Gonzalo Martinez, Co. A; SP6 Johnie Manis, Co. B and PFC John E. Schroeder, 7th ETC. SP4 Richard E. Williams, Co. D, was the only man to go for more than three this time with an enlistment for six more.

OUTSTANDING INDIVIDUALS

Nine civilians were honored for their outstanding performance. Rex W. Boyette, Dir. of Log., was presented with a DA certificate signed by LTC Albert O. Connor, CG, Third Army, for a suggestion which is estimated to save \$10,305.00 annually. He was also the recipient of an Outstanding Performance Award.

Other MMCS civilians receiving citations for superior performance were: Glenn F. Leak, Log.; Betsy R. Collins, Trubye Y. Sutton and Almarose L. Watte, Ofc of Secy; Jeanette V. Kinney, Opns.; Argeon D. Taylor, Secy., and Martha M. Hobbs along with Dorothy M. McLaughlin, Ofc of Commandant.



MAJ. CHRISTOPHER
GRADUATION SPEAKER
As 79 students were gathered

to receive diplomas for completion of courses, Maj. John C. Christopher, an instructor in Log., OTD, delivered the parting address.

Maj. Christopher, a native of El Paso, Tex., and a graduate of the Univ. of Texas, came on active duty in June, 1961. A participant in the U. of T. ROTC program, he has seen duty in Germany, Vietnam, and at Ft. Bragg, N.C. from 1962 through 1964. In 1968 he returned to Redstone and has been here since.

Among the decorations and awards he has received in his nine years of service are an ARCOM, Bronze Star, RVN Service Ribbon with four campaign stars and the Armed Forces Defense Medal.

ALL KINDS OF "GOODIES"

The 1st Bn. quadrangle was the scene for a battalion awards ceremony on the afternoon of Aug. 24 at 4:00 p.m. During the activities, five men received ARCOMs, one a certificate of achievement, the August MMCS SOM was honored, and three Bn. trophies were presented.

Those getting the ARCOM were SGM James W. Arblaster, Co. C; SFC Rodrick C. MacIver, Co. B; SSG J. W. Sherrill, Co. B; SSG Lewis R. Yates, Co. D and SSG Asdrubal Rodriguez, Co. D. SFC James L. Harris was the recipient of the Certificate of Achievement.

CPT Dennis F. Roerty, CO of Co. D, accepted the re-enlistment trophy for the 2nd Quarter, 1970



CPT. COUCH

and the Blood Donor's trophy for July for the company. CPT David R. Bell, CO, Co. A, was on hand to accept the Honor Company streamer for the month of July.



CW3 CANUP

THERE'S NO PLACE LIKE HOME

Last week, two former natives of this area reported to Redstone for duty with the school. They are CPT Charles D. Couch, a resident of Albertville, and CW3 Carrel S. Canup, originally from Decatur.

CPT Couch has been assigned as Branch Chief, Tech. Insp. Training Div., OTD. Prior to coming to Redstone, he was a student in the Ordnance Officer's advanced course at Aberdeen Proving Grounds, Md. He is a graduate of Jacksonville State, where he received his ROTC commission and a BS in Business Administration.

CW3 Canup is a veteran of 19 years service. He comes to Redstone after seeing duty in one of the world's more glamorous places, Hawaii. With MMCS, he will be the Operations Officer, Nike Div.



1LT REYNOLDS
NEW COMMANDER

There was a change in the MMCS command structure during the week. At Co. C a new commander reported in. Succeeding CPT William S. Chairsell as command



SIGN TELLS THE STORY—Mrs. Barbara Wilbanks, left, a secretary in the Systems Support Division, Dragon Project Office, and Mrs. Barbara Garner, secretary, Procurement and Production Division, Dragon, are working on the "Ditty Bag" project for soldiers in Vietnam. There are collection boxes at the main PX and the Rod and Rake Shop for items to put in the ditty bags. The project will continue through September 11.

der of Co. C is 1LT. Lawrence A. Reynolds. He is a graduate of the Univ. of Cincinnati, where he attended the ROTC program and also received his degree in Electrical Engineering. No newcomer to MMCS, Lt. Reynolds was assigned to the HAWK Div., before he assumed of command of Chargin' Charlie.

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Directed by Andrew V. McLaglen

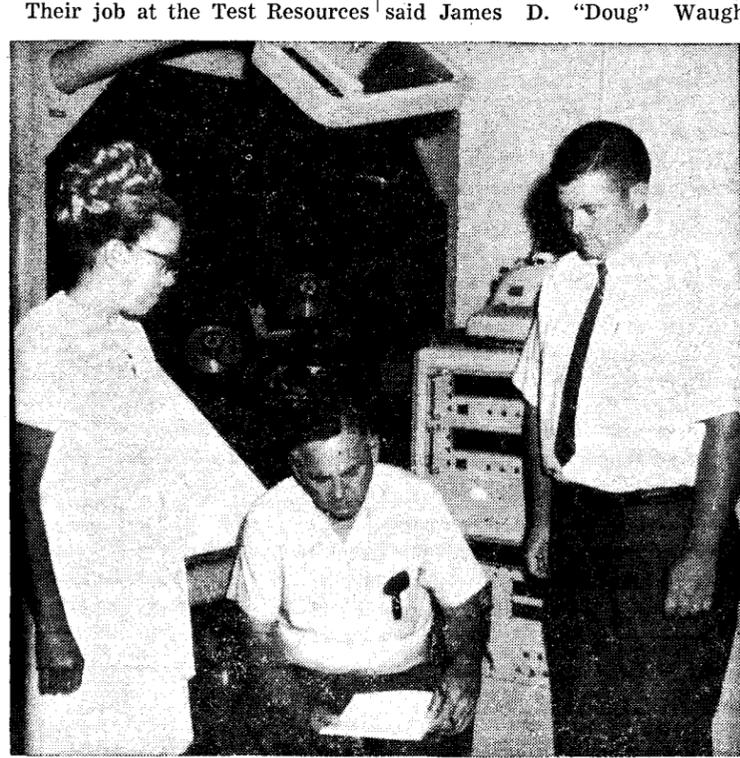
ALABAMA **1:30-3:30-5:30**
7:30-9:30

Photos, Math, Tools Of Missile Engineering

Did you ever wonder what happened to film used to photograph missile flights at Redstone Arsenal test ranges. That film tells men and women of the Research and Engineering Directorate's Data Analysis Section why missiles react the way they do.

and Analysis Branch of the Test and Reliability Evaluation Laboratory, is to convert photographic records into useful engineering data.

"Our staff is mathematically oriented which is a prime requirement for data reduction work," said James D. "Doug" Waugh,



CHECKING PHOTOGRAPHIC DATA—Vera Campbell (left) and Jim Scarborough (right) watch as Oneal Paseur reviews calculations involving missile flight data. The machine pictured in the background is a film reader which is used for measuring the exact position of a missile in flight.

Chief of the Data Analysis Section.

"We have completed analysis on 470 test firings this year which will give our engineers a better idea how their missiles performed," said Waugh. Test engineers now can request tailor made data samplings to help them solve specific missile problems.

When a request for test data is received, one of the first steps is to prepare a camera setup sheet.

"This is a request for the type and location of cameras we need to obtain the proper photographic data," said Waugh. "We have a choice of film size and running speed. Some cameras used in flight tracking can take as many as 6000 pictures a second."

The setup sheet is then given to the test engineer of the Flight and Operational Branch of the T&RE Laboratory; cameras are set; the missile is fired and developed film is returned to the Data Analysis Section.

"When the film is returned," said Waugh, "We edit it to obtain the exact footage we need. The film is then placed on a reader which extracts the exact position of the missile and records it, using an electronic digital counter coupled to a card punch facility."

Punch cards are sent to the Computation Center where they are fed into computers using a program designed by the staff of the Data Analysis Section. The printouts are returned and are checked for accuracy. Finished data packages are then returned to the project test engineer for evaluation.

"Data accuracy is within plus or minus six inches from the actual flight path of the missile, and in special cases, we can guarantee a plus or minus three inch deviation error," said Waugh. "Velocity, acceleration, roll angle, pitch and yaw are some of the more common data requests we receive."

Not all requests are as simple as setting up a couple of cameras to photograph a missile. When a missile is streaking downrange at an accelerated velocity, it's hard to tell just which side of the missile you are looking at.

To conquer this problem, Doug Waugh designed a paint pattern for a missile which helps identify roll characteristics of missiles in flight. That is why many of the R&E missiles undergoing research are painted white with black lines, squares and colored fins.

By getting a fix on a certain paint pattern, it is possible to calculate roll angle and rate of the missile.

Recently, the Data Analysis Section teamed up with the Electronic Data Processing Section in combining a high speed motion picture camera with a modified HAWK radar unit. With the radar measuring velocity and the camera

recording deviations from the flight path, data was computed which normally would take many more cameras.

"This combines the best of two worlds," said Waugh. "Of course we will continue to use film be-

cause film cannot be disputed under most circumstances while electronic methods can fail during a test.

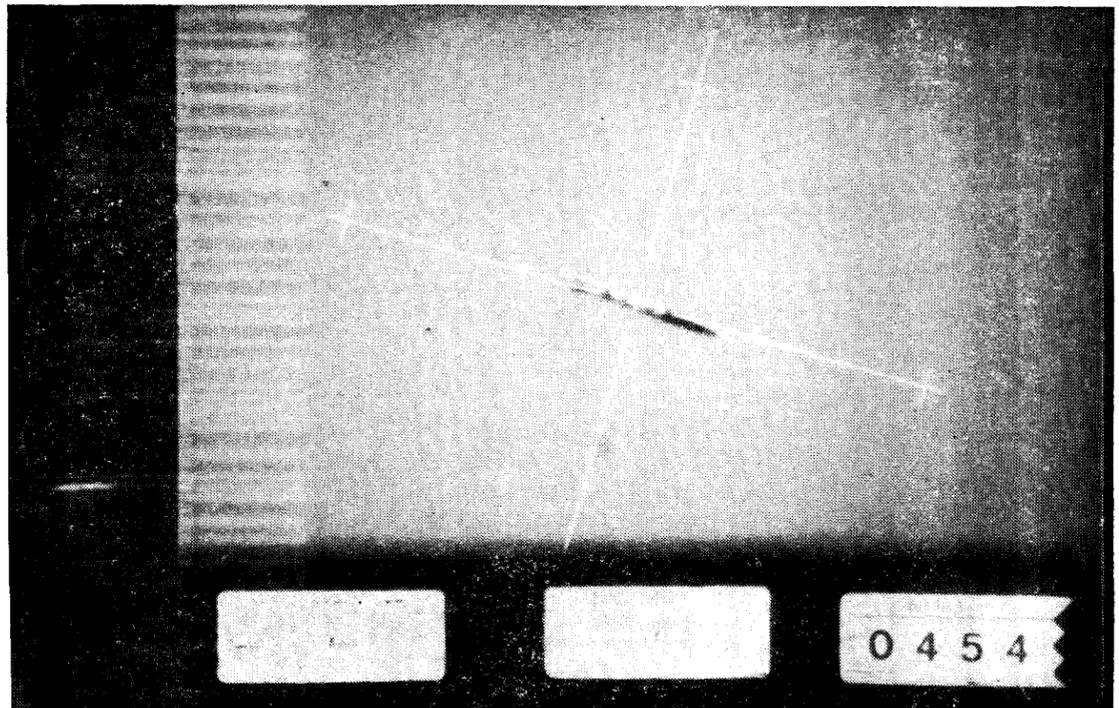
"And besides," he said, "Every-one knows that one picture is worth a thousand words."



PLOTTING MISSILE PERFORMANCE—Ibern McDonald (left), Fred Caroline and Mrs. Maryetta Buchanan await the graph of a missile flight test. The plotter receives information from punch cards and produces a graph which enables engineers to evaluate the performance of a missile.



MISSILE TEST PATTERN DESIGN—Doug Waugh, Chief of the Data Analysis Section of the Army Missile Command's Research and Engineering Directorate, displays two model rockets bearing test pattern designs which he devised. The patterns aid in tracking the spin rate of missiles fired at Redstone Arsenal test areas.



TEST FILM—A CONTRAVES tracking camera captures a test missile in flight. The pointers in the left and center windows establish the position of the missile at the moment the picture was taken. Horizontal lines are timing marks and the three notches to the right of the frame counter indicate that the camera is running at 30 frames per second.

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Twenty-Three Will Study Under Career Programs

Twenty-three Department of Army civilians have been approved for advanced training courses in their individual career fields under the Missile Command's career development program administered by the Training and Development Division of Civilian Personnel.

The local personnel left their duty stations this week for the

training programs offered by government schools, leading colleges and contractor facilities located in seven states and the District of Columbia. They will be away for periods up to a year.

Seven of the locals, all from the Supply and Maintenance Directorate, are at Ft. Lee, Va., for classroom work at the Army Logistics Management Center, and a

like number are spending this week taking classes offered in Huntsville by Auburn University.

The former group will be at Ft. Lee for five weeks for the Advanced Inventory Management course. They are Leon McMullin, Frank Ball, Evelyn Kitchen, Glendon Pearman, Stephen Reed, Grace Pilgrim and Vonita Phillips.

The 40-hour Digital Systems course offered by Auburn includes Harold Buie and Donald Dublin (R&E), Everette Sequi (P&P) and Robert Thompson (Lance).

Edward Manlove and Edward Falkowski (Dragon) and Nancy Rich (R&E) are enrolled for Sampled Data Control Systems, an-

other 40-hour class.

Rolland Dace (R&E) is enrolled at the University of Houston for graduate study in Computer Science and will spend an entire year at the Texas school.

Also enrolled for graduate work is Rebecca Stokes (R&E). She will spend four months at the University of Kentucky for advanced study in Metallurgical Engineering.

Robert Jones (I&S) is spending this week at Charlestown, Ind., for Installation Safety Management at the Army Field Safety

Agency, and Robert Kinch is at Indianhead, Md., for Explosive Ordnance Disposal with the Navy.

A SAFLOG employee, Nathan Dasaro is in Washington, D. C., this week for Specifications for Selection with the Department of Defense Computer Institute.

The other four locals started the six-week Lance Technical Specialist course at the LTV Aerospace Corp., in Warren, Mich.

They are Kenneth Skinner (Lance), John Nagues and Robert Emrick (S&M), and James Lang (DASO).



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HOUSE FOR SALE—3 bedroom brick with 2 1/2 acres on Highway 231, approx. 6 miles north of Arab. House located off Highway. Good well of water, city water available. Shown by appointment. 586-9370 Arab. Total price \$11,500 balance of loan \$4,000 at 7%. 9-9 p

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Theatre Schedule

WEDNESDAY, Sept. 2
 “Jenny” (GP)
 THURSDAY-FRIDAY, Sept. 3-4
 “Camelot” (G)
 INCREASED ADMISSION: adults 50c, children 25c.
 SATURDAY, Sept. 5
 “Latitude Zero” (G)
 SUNDAY-MONDAY, Sept. 6-7
 “The Best House in London” (X)
 INCREASED ADMISSION: adults

Corps Of Engineers Sends Summer Aids On To School

Fourteen young people left the Huntsville Division last week and returned to high school after taking part in the Summer Aid Program. Five more will leave to enroll in college on Sept. 4.

The program was an outstanding success this year as evidenced by reports of the supervisors and reactions from the Aids. The most significant success this year was the effort to place the Summer Aids in jobs that seemed to fit them best. This was done by getting supervisors to initially furnish a very brief description of the work to be assigned.

Diane Boone, daughter of Mr. and Mrs. George Boone, 2039 Riekey Road, was awarded \$50.00 as the Outstanding Youth in the program. Miss Boone, a senior at Lee High School, spent the summer working in the Facilities Engineering Division under the supervision of Shirley Thayer.

A large part of the success of the Summer Aid Program depended on scheduling of training, counseling and orientation developed and managed by Fannie P. Thompson, Counselor, employed by the Huntsville Division to supervise the Summer Aids.

Children's tickets will not be sold for this feature.
 TUESDAY, Sept. 8
 “Kashmiri Run” (R)
 Two shows nightly at 6:00 and 8:30 p.m.
 Sunday matinee at 2:00 p.m.

All Haircuts \$1.00
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OUTSTANDING—Diane Boone, daughter of Mr. and Mrs. George Boone, was officially commended by the Department of the Army as the Outstanding Youth in the Summer Aid Program at the U.S. Army Engineer Division, Corps of Engineers, Huntsville Division.

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 '69 TRIUMPH GT 6T CPE. \$2,695.

1968 SPITFIRE \$1,495.
 '69 SPITFIRE ROADSTER Local car. \$1,975.00

'68 MGB Local one owner. Good as new. \$2,025.00

'68 A-H SPRITE Extra sharp. Local \$1,575.
 '67 TR4-A Conv. top, I.R.S., wire wheels and radio. \$1,795.00

1969 DATSUN 2,000 \$1,995.00

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 Louis Lee.

Ezell Gets Achievement Certificate

Roy M. Ezell, an equipment specialist for the Army Missile Command's Supply and Maintenance Directorate, has been awarded a certificate of achievement.

He was cited "... for outstanding performance of duties" while serving as senior Missile Command representative at RCA in Burlington, Mass., for the Land Combat Support System.

Making the presentation was Lt. Col. Frank Matthews, LCSS Product Manager, during a recent ceremony at Redstone Arsenal.

While representing LCSS at Burlington, Ezell was responsible for engineering functions pertaining to the support system and providing engineering contract support services.

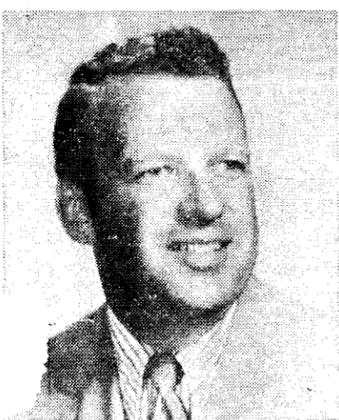
He has been employed by the

Industrial Engineers Plan Conference in October

The local chapter of the American Institute of Industrial Engineers will be host organization for the 1970 conference covering Advances in Science and Technology in the Sixties and A Revolution in Management in the 70s at the Torris Auditorium Oct. 1-2.

Pre-registration will be accomplished the evening of Sept. 30 at the Carriage Inn Motor Hotel, the Kings Inn Motor Hotel and the Sheraton Motor Inn.

Speakers will cover topics ranging from model cities to space shuttles.



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Joyce Keeps Postcards; Collection Is Growing

Though she started collecting post cards only three years ago, Joyce Keel, clerk-typist for the System Support Division, Shillelagh Project Office, now has nearly 300 from all 50 states and several foreign countries.

It all started when Joyce was in the Lance Project Office. As members would go on TDY or transfer, they would send her a picture post card. She began sticking them on the wall by her desk and as people came in they would see postcards from various places.

The idea mushroomed and pretty soon Joyce was getting postcards from other people in Missile

Army at Redstone since 1955, serving much of that time as field representative for the Missile Command at various contractor facilities.

Command who were passing through various places and thought she needed another card for her collection.

Her collection ranges from small color postcards to large color portfolio foldouts showing a variety of scenes of the various localities.

In addition to having postcards from all 50 states, she has them from such places as Vietnam, Japan, England, Germany, Mexico, Jamaica, Holland, Spain and France.

One of the nicest features of her hobby is that her friends keep in touch and keep the hobby alive by remembering whenever they see a card that is pretty and different.

While she has hobbies of collecting glasses and mugs, and likes reading and dancing, her favorite hobby is the post card collection that is growing day-by-day.

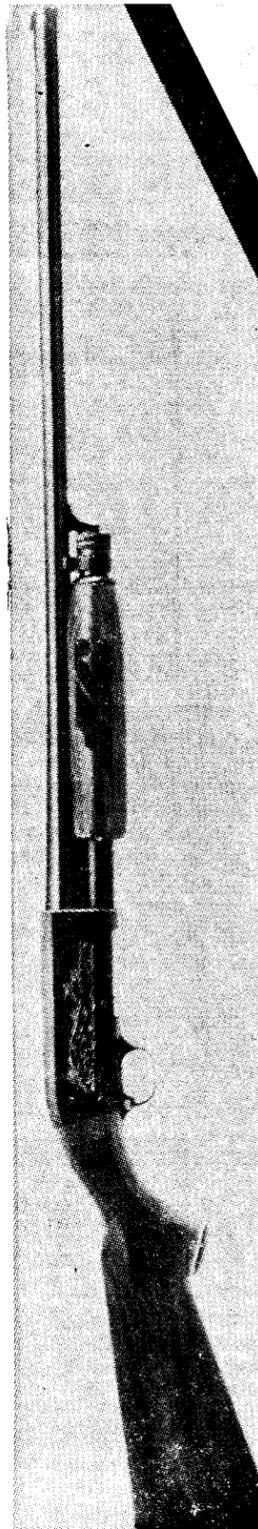


POST CARD COLLECTOR—Joyce Keel, clerk typist, System Support Division, Shillelagh Project Office, goes through some of her picture postcards that she collects. People going on TDY or transferring regularly send her postcards and she has been placing them on the wall by her desk. She has accumulated nearly 300.

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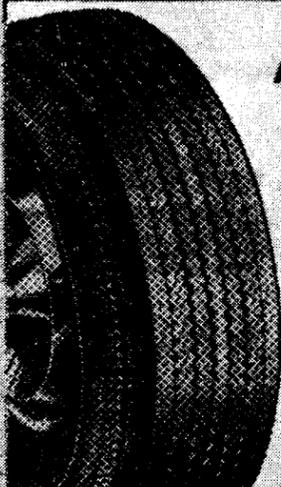
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F78-14 (7.75-14) F78-15 (7.75-15)	Ambassadors, Camaros, Chevys, Chevy II, Dodges, F-85s, Fords, Plymouths, Specials	37 ⁷⁵	30 ²⁰	7 ⁵⁵	43 ⁰⁰	34 ⁴⁰	8 ⁶⁰	2.44 2.40
G78-14 (8.25-14) G78-15 (8.25-15)	Chevys, Dodges, F-85s, Fords, Mercurys, Plymouths, Pontiacs, Specials, T-Birds	41 ⁵⁰	33 ²⁰	8 ³⁰	47 ²⁵	37 ⁸⁰	9 ⁴⁵	2.80
H78-14 (8.55-14) H78-15 (8.55-15)	Buicks, Chryslers, Mercurys, Oldsmobiles, Pontiacs, T-Birds	45 ⁵⁰	36 ⁴⁰	9 ¹⁰	51 ⁷⁵	41 ⁴⁰	10 ³⁵	2.80
J78-14 (8.85-14) J78-15 (8.85-15)	Buicks, Chryslers, Oldsmobiles	57 ⁷⁵	46 ²⁰	11 ⁴⁵	3.01 2.93
L78-15 (8.15-15)	Cadillacs, Lincolns, Imperials	59 ⁵⁰	47 ⁶⁰	11 ⁹⁰	3.20

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