

The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA 35809

JUNE 3, 1970

Arsenal-Wide

Spot News

Dial 112

McNaron Heads Combined Federal Campaign

He Succeeds Bob Malone Who Retires This Summer



HAPPINESS IS A LEGION OF MERIT—Lt. Col. and Mrs. Russell A. Simpson show their joy shortly after he recently was awarded the Legion of Merit at Redstone Arsenal. Making the presentation was Maj. Gen. Edwin I. Donley, Commanding General of the Army Missile Command. Col. Simpson, who retired from active military duty, was cited for "... meritorious service while fulfilling several assignments at Redstone, among them, Commodity Manager for Sergeant and Special Assistant for Special Review."

A Department of Army civilian with a wealth of experience in all phases of the fund raising activities at Redstone Arsenal has been named to run the 1971 Combined Federal Campaign in the Huntsville area.

Maj. Gen. Edwin Donley, general chairman of the community-wide drive among federal employees, announced this week the selection of Abner C. McNaron to serve as chairman of the CFC Coordinating Committee.

A supervisory staff accountant in the Missile Command's Finance and Accounting Center, McNaron succeeds Robert Malone who has guided the Huntsville area drive for the past three years.

Malone is leaving the Federal service this summer as is Al LaGrone, Missile Command chairman for the past several years. Gen. Donley indicated that a replacement for LaGrone will be named shortly.

As Area Coordinator, McNaron will be responsible for bringing the personnel of 13 Federal agencies together for a united effort in support of the annual appeal for funds by local, national and international fund raising agencies.

A native of Albertville and a former employee of the Anniston Ordnance Depot, McNaron accept-



ABNER C. McNARON

ed a position at Redstone in 1951 and for the past 19 years has occupied a series of progressively responsible positions in the budget and financial management phases of the Army missile program.

He has been very active in Arsenal and community affairs including two terms as chairman of the Civilian Welfare Fund Council and one term as a Huntsville City Councilman.

Air Inflatable Structure Solves Storage Problem

In a recent speech to the American Ordnance Association, Gen. F. J. Chesarek, Commanding General of the Army Materiel Command, discussed what the Army might expect in the '80's. Declining resources and funds will call for new ways and techniques of doing things, the General said.

Among the subjects he covered were various types of maintenance facilities in the field including the possible use of large air inflatable shelters for weather protection with air conditioning and heating provided where necessary.

That was a particularly interesting comment to the man who did the original design and development work for these structures, K. E. Joy, Chief of the Product Assurance and Test Management Office at the Missile Command. Joy developed the first air inflated structure while he was employed in the Office, Chief of Ordnance, Washington, D.C.

"The first of these portable field structures provided 50,000 square feet of working or storage area which is equivalent to our larger warehouses or storage buildings," Joy said.

"They are cheap, easy to move and erect, and all it takes is a good set of blower fans. Any kind of air—heated, cooled, ambient or dehumidified can be used. I'm surprised the Army hasn't moved toward use of air inflatable structures sooner."

Joy has several patent coverages on these structures, and in 1959 received the Exceptional Civilian Service Award from the Secretary of the Army which says in part, "For exceptional service to the Ordnance Corps, Department of the Army, for designing and developing a revolutionary type of air

inflatable structure, providing the Army with highly mobile structures for equipment, dehumidified storage areas and valuable military uses such as assembly areas, emergency field hospitals, troop quarters, etc. which are of extreme public benefit from a standpoint of economy, mobility and military usage."

(See AIR on Page 3)

Three Earn PhD Degrees

Three men of the Army Missile Command's Research and Engineering Directorate have received their PhD degrees in recent ceremonies.

George Emmons, an electrical engineer in R&E's Physical Science Laboratory, received his PhD in Electrical Engineering from the University of Alabama in Tuscaloosa. Emmons has worked at Redstone since 1962.

(See THREE EARN on Page 3)

Fewer To Be Separated By RIF As Retirements Mount

Additional placement notices will be distributed within the next few days to some individuals affected by the reduction in force at the Missile Command.

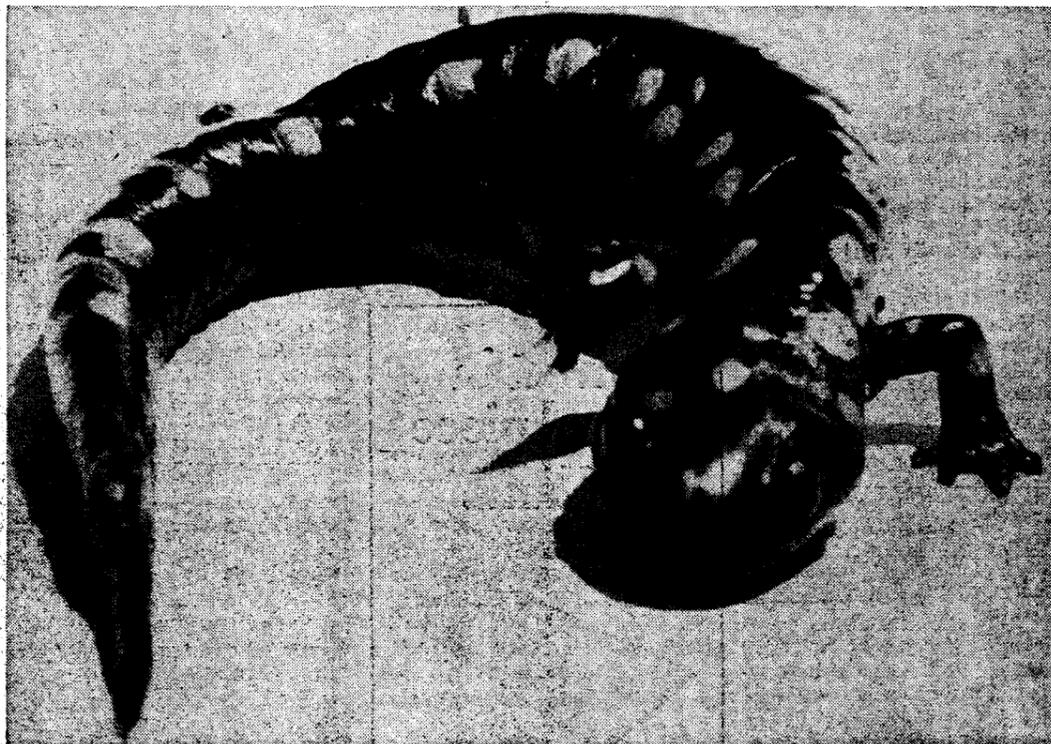
Maj. Gen. Edwin I. Donley, Commanding General, informed MICOM personnel of the impending

action in a letter delivered Thursday.

The general said the impact of the reduction in force is "easing." He expressed the hope that the command may be able to make "improved offers to some of those affected . . . as a result of further retirements and resignations."

A combination of resignations, retirements and management actions has succeeded in dropping the number of forced separations from an originally predicted 1,117 to 700 or less at the end of May, Gen. Donley said. He said also that indications are that there will be a further reduction in the number of personnel who must be separated as a result of additional outplacements and retirements in June.

The Missile Command has been (See RIF on Page 3)



WHAT IS IT?—If this isn't a salamander, or "water dog," keep your eyes open. And don't go barefoot in the grass. This alligator-like creature was found cavorting last week in front of Bldg. 4722. About five inches long, it had bright yellow spots covering most of its body. (Photographer Len Kaufman wasn't particularly afraid of this little fellow but he was concerned that "its daddy" might be somewhere nearby.)

ARMY AWARDS \$7.7 MILLION TOW CONTRACT

The U.S. Army Missile Command has awarded \$7.7 million to Hughes Aircraft Company for production of ground support equipment for the TOW weapon system.

This brings the contract value for FY 70 TOW support equipment to about \$16 million. More than \$8 million was awarded earlier.

Most of the work under the contract, which calls for delivery of such equipment as launchers and optical sensors, will be done at EL (See TOW 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 only through the Information Office, Army Missile Command, Redstone Arsenal, Ala., 35809, Bldg. 5250, Room A-136, 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 wanted—is 10 a.m. Monday before publication.

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

Rocket Ruminations

Solvency is entirely a matter of temperament and not of income.
—Logan P. Smith

Editorial

A Helping Hand

Our nation was founded on the principle that the individual has infinite dignity and worth. The Department of Defense must always be guided by this principle. In all that we do, we must show respect for the serviceman, and civilian employe as a person, recognizing his individual needs, aspirations and capabilities.

The defense of the nation requires a well-trained force, military and civilian, regular and reserve. To provide such a force we must increase the attractiveness of a career in Defense so that the serviceman and the civilian employe will feel the highest pride in himself and his work, in the uniform and the military profession.

The attainment of these goals requires that we strive to contribute to the improvement of our society, including its disadvantaged members, by greater utilization of our human and physical resources while maintaining full effectiveness in the performance of our primary mission.



The Defense Department's formal project to accomplish this is its Domestic Action Program which is designed to link the Defense Department's vast resources with those of other government agencies and private institutions to overcome some of the serious domestic problems which face the nation.

The impetus for the Domestic Action Program is provided from the Pentagon through the Domestic Action Council, but it is the initiative of individuals at military installations which is crucially important to the program's success.

For some time now, military installations in the United States have been given the "green light" to use their manpower and resources in improvement of ghetto areas and in other community projects.

But, domestic action programs do not begin just because the "go" sign has been given. As part of the command's community relations program, new domestic action programs must be started as the need for them arises.

In striving to contribute to improving our society, the key to success is initiative and a strong sense of purpose.

We all have a share in this country's welfare. Learn what your base is doing in Domestic Action and see where you can lend a helping hand. (AFPS)

About Equal

Cost differences in employing men and women are not significant, according to a newly revised publication issued by the U.S. Department of Labor.

The report, prepared by the Women's Bureau, summarizes the latest available data on certain factors that affect labor costs—absenteeism, labor turnover, job tenure, and labor mobility.

The data includes, for example, Public Health Service statistics on worktime lost because of illness or injury, which averaged 5.6 days for women and 5.3 days for men in 1967. On the other hand, earlier PHS data showed fewer sick days

per year for single women (3.9 days) than for single men (4.3 days).

The report states that women workers have favorable records of attendance and labor turnover when compared with men employed at similar job levels and under similar circumstances.

Detailed analyses indicate that the skill level of the job, the marital status and age of the worker, length of service, and record of job stability provide better clues to differences in work performance than does the mere fact that the worker is a man or a woman.

Studies on labor turnover show that over-all job-changing rates are about the same for women and men. In 1968, 2.6 per cent of women workers and 2.2 per cent of men workers quit their jobs voluntarily, according to a Bureau of Labor Statistics study.

But men are more frequent occupation changers than women, another BLS study showed. Only seven per cent of the women but 10 per cent of the men held a different occupation in January 1966 than in January 1965. (AFPS)

May 9—Dateline 1932—Army Capt. Albert F. Hegenberger made the first solo airplane flight entirely by instruments.

QUALITY IS THE GOAL IN MUSIC, INDUSTRY AND MISSILE BUSINESS

"Quality—a standard of excellence."

In the missile business, we talk about quality constantly, insist upon it in our work, demand it in the materiel we acquire for the Army. What does the word mean to us?

Recently Eugene Ormandy, celebrated conductor of the Philadelphia Orchestra discussed quality and what it meant to him with David C. Crosby of RCA. With the permission of both men, portions of the discussion are reproduced here.

Crosby: "Mr. Ormandy, I would like to talk with you about a thing called 'Quality.' It occurred to me that your work is much like that of a business executive in delivering a quality product or service. I want to know how you get the quality of the Philadelphia Orchestra . . . rated by many as the finest in the country."

Ormandy: "First I must say that I agree with Mr. Mahler; there are no bad orchestras, only bad conductors. Every conductor has his own ideas about sound, interpretation and performance. The first ingredient in a first-class orchestra is the musician. You must have good men and women in every chair. . . . Because every chair is held by a musician worthy of that position, not in just the first or second or third or fourth chair, but all the way back, they are marvelous. They play every note perfectly, the same quality, at the same time. . . . It is the training of the orchestra as an instrument. I must make a single instrument of it. I have 105 human beings, making music for exactly the same purpose and the same goal as I have."

Crosby: "How do you get your standards of quality over to them?"

Ormandy: " . . . Speaking from my own point of view as a conductor, because that is my life, I find that if I can inspire myself, which I hope I always do, I can inspire with my enthusiasm, the whole orchestra."

Crosby: "What is the Philadelphia Sound?"

Ormandy: "Our sound has been called the Philadelphia Sound. . . . If it's the Philadelphia Sound, you're referring to my sound; if you like it, I'm honored. If you don't like it, you are criticizing me, not the orchestra. I am responsible for it, good or bad. I might add that I have been reproached for making that seemingly arrogant and conceited statement, but nothing is further from my mind. . . . All you need is a conductor who knows what he wants and knows how to get his sound."

Crosby: "What else influences the quality of your sound?"

Ormandy: "The second ingredient is environment. The sound of the hall is terribly important. We have played in halls where I was so unhappy. I couldn't hear anything. Either the brass was overpowering the strings or sometimes the brass couldn't even be heard because it was sitting against a dead wall. . . ."

Crosby: "Business and industry have found

that attitude plays a great part in the quality of products and services. Is this true in music?"

Ormandy: "The one thing that I am so proud of, and maybe that is one of the many reasons why the Philadelphia Orchestra is the Philadelphia Orchestra, is that every member of the orchestra is proud to be a member. A second violinist came to me two years ago and said he had a little bit of money and could get a beautiful Stradivarius for \$50,000. Should he buy it? I said for what, to play in the Philadelphia Orchestra? He said: 'Don't we have such wonderful instruments in the orchestra?' I said: 'Yes, but they are mostly for the first chair.' He said to me, 'I consider myself as important as they are.' I was proud of him and ashamed of myself. I immediately told him: Of course you should get it."

Crosby: "How about your attitude, the attitude of the top manager?"

Ormandy: "I get a kick out of standing in front of my orchestra. That is what keeps me young. You see, it is terribly important that the orchestra should know its conductor and should have respect and regard for him, and have confidence in him and vice versa. If the top manager is not going to give his best, how does he expect to get the best? He must be involved. Involved, that's a very good word. I use that very often. We must be involved in the music we play."

Crosby: "In industry we sometimes have quality performance levels, or a kind of tolerance for a certain level of error. Do you have such quality performance levels?"

Ormandy: "Our performance level is the result of rehearsals. It is the duty of the conductor to spread his rehearsals in such a way that the men will know their own part. For a very difficult contemporary work, we need—say—three weeks of rehearsals. Then men realize difficulties; they take their parts home, which is something I am proud to say the Philadelphia Orchestra men do. . . . My orchestra is so dedicated to its work that I can tell you honestly that in all of the thousands of performances we have given, and I am not exaggerating, it is close to 5,000 in the last 34 years—in all those performances, I don't believe they once laid down on the job."

Crosby: "An intolerance for error?"

Ormandy: "Yes, intolerance for error, I like that. You know, what you are talking about is exactly the same thing I am talking about. You're talking about business and I'm talking about art. We have a close relationship in our commitment, and you in your commitment. I didn't realize that until we began to talk. Quality is a matter of setting rules, of making them understood. It's a question of attitude, it's a question of environment, as you said, but I think, most of all, quality is this matter of people."

Major Ingram Is New GS Secretary

An Army officer who holds the Distinguished Flying Cross, Bronze Star and Air Medal has been named Secretary of the General Staff

May 30—Dateline 1868—Memorial Day was originated. It is an occasion to honor the legions of Americans who gave their lives that freedom might live. (ANF)

at the Army Missile Command.

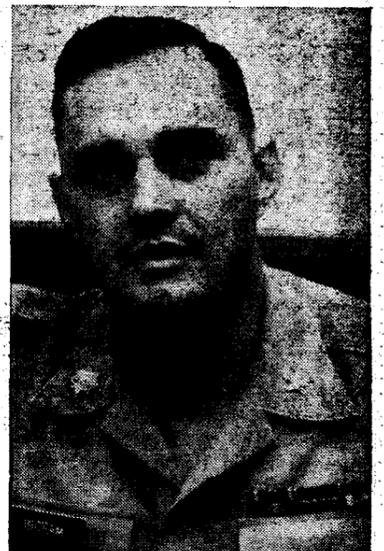
He is Maj. Kenneth A. Ingram, 31, who came to Redstone Arsenal from Vietnam where he was Operations Officer, 8th Battalion, 6th Artillery, 1st Infantry Division.

He succeeds Lt. Col. Marshall L. Byrd who has been reassigned to Germany.

A native of Waverly, W. Va., Maj. Ingram attended West Virginia University and is a graduate of West Virginia State College with a BS in math. He holds an MBA in Management from Xavier University.

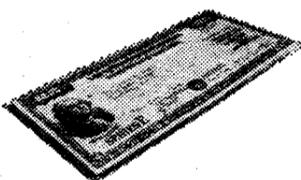
In addition to Vietnam, Maj. Ingram has served in Germany and a variety of assignments in the United States.

He is married to the former Mary Alice Keyser of Huntington, W. Va., and they have three sons, Kenneth Jeffery 10, Stewart Ashley 8, and Kent Allen 6.



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Effect Of Federal Equal Employment Opportunity Rules To Be Discussed

An in depth review of new federal equal employment opportunity requirements will be presented under the joint sponsorship of the local chapters of the American Ordnance Association and the National Contract Management Association on June 16.

The program will include a lecture by Charles E. Smith, Deputy Chief, Office of Contracts Compliance, Defense Contract Administration Services Region, Atlanta. Smith will also moderate a panel discussion which will include Joe Moquin, President, Association of Huntsville Area Companies; Thomas G. Hall, Manager, Employee Relations, Apollo Systems, General Electric Company, Huntsville, and representatives of the Missile Command, Safeguard Systems Command and the Marshall Space Flight Center.

The event will be held in the Officers Open Mess beginning at 6:30 p.m. Tickets may be obtained from AOA and NCMA members.

Smith's remarks are expected to center around affirmative action requirements of federal contracts. The sponsors of the special program feel it will be of particular interest to government contracting officers and procurement officials who must understand provisions of the executive order as well as civilian managers operating under or seeking government contracts.

Smith's discussion will include the requirements of Order Number 4, issued by the Office of Federal Contract Compliance in January. It has been widely described as the newest, most controversial and least understood provision in federal contracts.

Smith is directly responsible for assuring compliance with the new order by contractors working on defense contracts in the Southeast. A former consultant to the Department of Defense on the EEO program, he has also served as Deputy Director of the program in the Office, Assistant Secretary of Defense (Manpower).

The most recent EEO order, requires contractors to develop affirmative action programs in the employment of minority groups, identify any deficiencies and define goals and timetables to correct them. It applies to all major job categories at the facility op-



CHARLES E. SMITH

erating under government contract.

Failure to comply with the provisions of the order could result in the contractor being declared ineligible for future contracts and subcontracts.

RIF

(Continued From Page 1)

directed to reach its new personnel ceiling by the end of this month.

Gen. Donley said the additional placement notices going out soon will reflect all changes which have occurred since the initial round of letters was distributed to affected individuals in late April.

Approximately 100 MICOM civilians have been placed in jobs with other federal agencies since the RIF began in March and more than 130 others have elected to retire by the end of this month, thus preserving jobs for other full time civilians who would otherwise have been separated.

AIR

(Continued From Page 1)

Earlier Joy had designed an economical means of protecting complete production lines of precision machinery which were put in layaway in empty Government warehouses following World War II. Normally it would be necessary to keep whole warehouses heated to preserve the machinery.

Joy's method was to cover the complete lines with inexpensive plastic covers and inflate the cover with a small dehumidifying machine to provide dry air. "Operating the closures would cost only about as much as the electricity to burn a 300 watt bulb," he said.

He did some of the original design work on a double wall compartmentalized inflatable structure which derives its strength and structural shape through air pressure. A notable example of this is a huge pavilion at EXPO 70 in Japan built on this structural design.

June 6—Dateline 1944—Allied troops, under the command of General Dwight D. Eisenhower, landed on Normandy Beachhead.

He: "Why does the average girl prefer beauty to brains?"

She: "Because the men that can see outnumber those who can think."

TOW

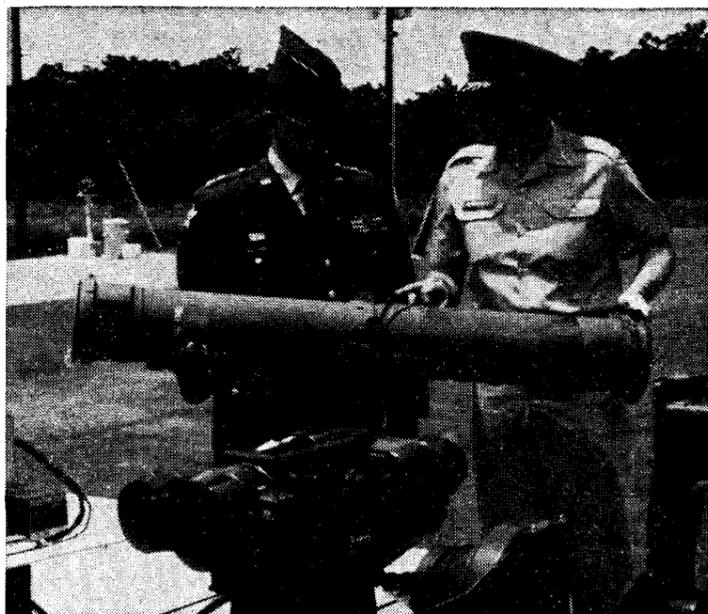
(Continued From Page 1)

Segundo, Calif.

TOW is the Army's tank killer which can knock out field fortifications or destroy any known enemy armor. It can be mounted on a variety of vehicles, including helicopters, or fired from a ground emplacement.

The program is managed by the Missile Command under Lt. Col. Robert W. Huntzinger, Project Manager. Hughes Aircraft is prime contractor.

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



TOW IS ON TARGET AGAIN—Maj. Gen. John R. Guthrie, Director, Research, Development and Engineering, Army Materiel Command, listens as Lt. Col. Robert W. Huntzinger, TOW Project Manager explains some of the outstanding features of the TOW launcher. General Guthrie watched a TOW firing during his visit to the Army Missile Command last week.

Drive Safely!



MARINE CORPS TEAM VISITS MICOM—Col. J. M. Van Meter (center) of the Marine Corps Education Center at Quantico, Va., and Col. Charles E. Crockett (right), Commanding Officer of the Huntsville Marine Volunteer Training Unit, chat with Maj. Gen. Edwin I. Donley, Commanding General of the Army Missile Command, during a recent courtesy call at Redstone Arsenal. Col. Van Meter, team leader, was in Huntsville to present to active and reserve military a briefing on amphibious warfare.

THREE EARN

(Continued From Page 1)

Vern Nieberlein, a chemical engineer with the Solid Mechanics Branch of the Physical Sciences Laboratory, received his PhD in Chemical Engineering from the University of Alabama in Tuscaloosa. Nieberlein has worked at Redstone since 1959.

Troy Smith received his PhD in Mechanical Engineering from the University of Michigan in Ann Arbor. Smith is an Aerospace Engineer with the Structures and Mechanics Laboratory. He has worked at the Arsenal since 1960.

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Red Cross Volunteers Receive Caps And Tabs

Thirteen Red Cross Volunteers who will help man the clinics and the Bloodmobile at Redstone Arsenal, received caps during ceremonies at the Post Chapel last Thursday. Eighty-six others received service recognition pins and tabs.

Captain Linda Lansford, Army Nurse, presented the caps to Mrs. Richard Bregard, Mrs. Elby Crochet, Mrs. Jack Davis, Mrs. Darrell Deam, Mrs. Richard Lowe, Mrs. William Moody, Mrs. Richard Moore, Mrs. Leland Owens, Mrs. Emery Pitman, Mrs. James Steighner, Mrs. Robert Wendt, Mrs. Edward Wenz and Mrs. Edward Wiehe.

Assisting in the capping ceremony were Mrs. E. M. Dooley, honorary chairman, Col. Preston B. Cannady, Director, Arsenal Support Operations, Col. Ernest M. Bralley, Jr., Hospital Commander, Mrs. M. J. Dooley, volunteer hospital coordinator and Mrs. W. A. Shunk, assistant chairman.

Clarence Wells presented certificates of appreciation, and awarding the recognition tabs were Lt.

Col. Richard I. Hart, Dental Surgeon, Mrs. E. J. Hanzel, Mrs. M. J. Dooley and Mrs. E. R. Jackson.

Honorary chairman for 1970-1971 will be Mrs. Edwin I. Donley. Mrs. R. P. Hazzard has succeeded Mrs. H. L. Nolan as chairman of volunteers. The assistant chairman is Mrs. F. A. Matthews, hospital coordinator is Mrs. M. J. Dooley with Mrs. E. J. Hanzel as her assistant. Head of ward services is Mrs. J. R. Perkins, head of the Dental Clinic is Mrs. B. F. Powell and Mrs. D. W. Brown is chairman of volunteer nurses. Publicity coordinator will be Mrs. R. H. Toothaker, Mrs. E. R. Jackson remains record coordinator, and recognition coordinator is Mrs. R. L. Wendt.

Unit head of first aid classes is Mrs. C. M. Mendenhall and Mrs. J. L. Martinus continues as chairman of the Bloodmobile Canteen. Mrs. R. W. Huntzinger is Bloodmobile coordinator. Tea arrangements and table decorations were done by Mrs. J. S. Bailey and Mrs. D. Brown.

Railroad Club Will Meet Tomorrow

The Redstone Division of the North Alabama Railroad Club will meet in the auditorium of the Huntsville Public Library at 6:30 p.m., tomorrow.

The Club is dedicated to preserving, restoring and operating railroad equipment and establishing a railroad museum. All persons having an interest in railroading are invited to attend.

Additional information on the Club, its objectives and goals may be obtained by calling 881-3629 or 852-8917.

AMUSEMENT PARK TOUR

The Service Club will sponsor a tour to Lake Winnepesaukah Amusement Park near Chattanooga, Saturday.

Winnepesaukah Amusement Park offers such amusements as the astro-sky lift, roller coaster, antique cars to drive, a boat chute, scenic train tours, swimming, and picnicking.

The tour bus will leave the Service Club at 9 o'clock Sat. morning. Enlisted men are required to register for the picnic lunch.



FLOWERY TOUCHES—Mrs. Robert Wesson (center) was reelected chairman of the Redstone House and Garden Group sponsored by the Redstone Officers Wives Club. Other officers of the group are Mrs. Mickey Garrett, secretary-treasurer (left) and Mrs. Jesse Fishback, vice chairman. At the April meeting, the group received instruction on Japanese flower arranging from Mickey Tatum, using their own flowers and containers. Afterward the group had lunch in the dining room at the Officers Open Mess.

Army Community Service Recognizes Its Volunteers

Betty Parrish, Stevie Kellenberger, Beverly Green, Helen Havner and Doris Jones were awarded uniforms for completing 50 or more hours of work as volunteers in the Army Community Service Program at Redstone Arsenal.

Two Volunteers, Hester Jones and Pamela Matthews received recognition for donating 400 hours of time in the past year, Sue Minton worked 300 hours, and Betty Parrish, 200. Marge Cormier, Stevie Kellenberger, Doris Jones and Hester Jones received pins denoting one year of service.

Recognized for training in the office routine were Jane Osterman, Patty Cardin, Jacque Bickel, Stevie Kellenberger, Beverly Green, Betty Williamson, Barbara Roach, Susan Minton, Doris Jones, Mary Green, Mathilda Carroll, Helen Budd and Mary Elizabeth Pujol.

Special guests at the coffee, at which the awards were made, were the advisory board and immediate past president of the Redstone Officers Wives Club and the president of the NCO Wives Club. Mrs. Robert Proudfoot presented household furnishings to the Lending Closet as the Officers Wives contribution from the proceeds of the April benefit, A Night on Bourbon Street. Mrs. John Masikowski, president of the NCO Wives Club, presented ACS a check on behalf of the club.

Special guests for the event were Mrs. George McBride, Mrs. Edward M. Dooley, and Mrs. Robert Marshall, and Mrs. Russell Moose.

Presentation of awards was made by Col. Preston Cannady, Director of Arsenal Support Operations. Mrs. Charles Jones served as master of ceremonies.

J. H. Cranford thanked the volunteers on behalf of himself and Peter Kasper. Their combined ac-

tivities in the Army Community Center program include such varied duties as pre-retirement counseling and helping newcomers get settled in quarters with at least a minimum of household needs, from the lending closet. The latter effort is handled for the most part by the volunteers. Crawford and Kasper divide the programs. Kasper has helped build the volunteer organization.

The volunteers provide emergency baby sitting services, shopping for shut ins, and sometimes provide unofficial taxi service for the stranded when a real emergency arises.



TOP BLOOD DONOR—First Sgt. John Bullock, former top enlisted man at the 7th ETC, Missile and Munitions Center and School, gets the royal treatment from American Red Cross workers during the recent visit of the bloodmobile to the MMCS campus. Bullock, a life member in the ARC, led his unit to the top in participation in the blood donors program. During 1969 the unit donated 787 pints of blood which represented 17 per cent of the school's donations and 6 per cent of the Arsenal donations. The unit won the Arsenal Red Cross Blood Trophy in 1969 for Category I units. Throughout the year, the unit's average participation exceeded the 80 per cent mark. With Bullock are Miss Brenda Clark (left) and Mrs. Maie Simpson from the Birmingham ARC Chapter.

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NAMES IN THE NEWS

By SFC Ben Casey

OUTSTANDING INSTRUCTORS

Twenty instructors were honored at the Air Defense Department for their outstanding performance of duty as instructors in the Nike and HAWK divisions. The outstanding instructors by divisions are: HAWK—John W. McCulloch, David H. Mitchell, MSG Robert W. MacDonald, Joseph C. Stewart, Jack W. Forbes, James D. Martin, George W. Allen, Marvin D. Benson, Roger W. Grider, John T. Danjels and SP6 Thomas J. Zatoski, Jr. McCulloch was cited for the fifth and sixth times. Nike Div—SFC Jesse F. Johnson, SFC John M. Stubbert, Jr., SFC Richard E. Brown, SP5 Richard V. Moore, Leonard A. Nabors, SSG Donald R. Dunlap, SSG James M. Walter, James F. Robinson and SSG Walter R. Hockman.

COMMAND CHANGE



CAPT. WORKIZER
249th Ord.

Two units of MMCS welcomed new commanders this week. At UTC, the 249th Ord. Det. witnessed a command change when CPT Daniel T. Workizer took over the unit from recently promoted MAJ James D. Amato. CPT Workizer comes to the command from assignment in Korea. An ROTC graduate from the Citadel in 1965, the captain was assigned at D&NM prior to assuming command of the ordnance unit. At Co. B, CPT Gerald R. Townsan assumed command of the unit from CPT Wayne Blackburn. CPT Townsan comes to the school from assignment in Vietnam where he was assigned with the Americal Div. CPT Townsan received his commission through OCS and holds a bachelor of science degree in history from Northern Arizona University. Before assuming command of the school brigade unit, CPT Townsan was assigned to Student Officer Company as Project Officer. CPT Blackburn has assumed duties at DIT.

REENLISTMENTS

Reenlistments this week were: Six years — SSG William Confer, Co. D, SSG Sheridan Nunn, UTC and SP4 Larry Webster, 249th Ord. Det. Five Years — SP6 Vernon L. Wirt, Co. B. SSG Nunn reenlisted

for an assignment to Alaska and SP4 Webster went for a missile maintenance course at MMCS.

GRADUATION SPEAKER



CAPT. R. A. MANN, JR.
Graduation Speaker

CPT Robert A. Mann, Jr., training officer with the Office of Operations, has been selected as this week's graduation speaker. CPT Mann received his commission through ROTC at Tennessee Technological University where he also received his bachelor of science degree in engineering science. He has attended the Missile Maintenance Officer course at MMCA and the Mechanical Maintenance Officer course at the Ordnance Center and School, Aberdeen, Md. The captain has served a tour in Vietnam and from Jan. 65 to Dec. 67 was with the Director of Individual Training Department.

SOLDIER OF THE MONTH



SP4 CHARLES L. NORTH
UTC Soldier of Month

Unit Training Command has announced that SP4 Charles L. North has been selected to represent the command in the MMCS Soldier of the Month competitions. SP4 North was selected as UTC's sharpest soldier for the month of May. A continuous wave radar repairman with the 200th Ord. Det., the 23-year-old soldier hails from Rome, Ga. He entered the Army in December 1968 and completed his basic training at Ft. Benning. He is a 1965 graduate of Elm Street High School, Rockmart, Ga., and has attended Clark College in Atlanta.

Blanding Personnel Support Many Tactical Units Using Missile Range

BLANDING, UTAH—The familiar backward countdown, originating in the Range Control van and heard on hundreds of receivers in Utah and in New Mexico, reaches zero and a U.S. Army Pershing missile roars into the sky above Black Mesa, 15 miles southwest of Blanding.

The sound diminishes as the powerful vehicle quickly disappears, leaving behind it a vapor trail resembling that of a jet plane. On the ground, the cloud of smoke and dust churned up by the initial thrust of the missile's first stage soon settles back and is dispersed by the wind.

Minutes later, by telephone and over the command net, comes word from down-range that the missile has impacted on target within White Sands Missile Range, in south-central New Mexico.

The spectacular show, beginning with the firing alert and including the countdown and the launching itself, lasted only a few minutes—or at most only a few hours—on the launch day.

But not readily apparent to the casual observer were the many operations that went on, for several days beforehand, in preparation for the firing. Also unseen were the hundreds of behind-the-scenes workers—schedulers, controllers, assemblymen, repairmen, checkout technicians, instrumentation operators, ground and flight safety engineers, recovery crewmen, mathematicians, computer operators, photographers, test coordinators, military policemen, electronics technicians and administrative support personnel—without whom the launching and its tracking to successful impact could not have been accomplished.

The missiles are fired by batteries of the Seventh U. S. Army, which are operational in Europe, and units of the Federal Republic of Germany Air Force which have been armed with Pershings under the NATO (North Atlantic Treaty Organization) defense alliance.

These firing units are flown from Europe to Kirtland Air Force Base, N. M., land then travel from Albuquerque to Black Mesa by chartered bus. They bring only personal items—all necessary technical equipment, including the missiles, food, housing and other essentials are provided by U. S. Army support organizations.

Technical support during preparation and pre-flight checkout of the missiles is provided by a Ft. Sill, Okla., unit of the Fourth U. S. Army. This is the 2nd Battalion, 44th Artillery, 9th Field Artillery (Missile) Group. Activated in 1963 when the Pershing system became operational, the 2nd Battalion was the U. S. Army's first Pershing unit.

The 2nd Battalion, commanded by Lt. Col. Harold C. Bennett, also operates the camp on Black Mesa and provides billeting, laundry service, logistical support, food service, local transportation

and miscellaneous needs of a military force numbering as many as 500 men on bivouac in a remote area.

Some of the firing operations are conducted under simulated tactical conditions. While a number of portable metal buildings and mobile vans have been erected to form a semi-permanent physical plant for the encampment, several large Army tents also are used for such operations requiring protection from the elements as missile assembly and repair, vehicle maintenance and storage of supplies and equipment.

Firing and post flight operations also are supported by a field force representing another technical organization from Ft. Sill. This is the U. S. Army Field Artillery Missile Systems Evaluation Group (FAMSEG), an all-military group of evaluators, or umpires.

Commanded by Lt. Col. John A. Zalewski, the FAMSEG field crew is especially busy when operational units are firing annual service practice rounds, and when newly trained units are firing graduation

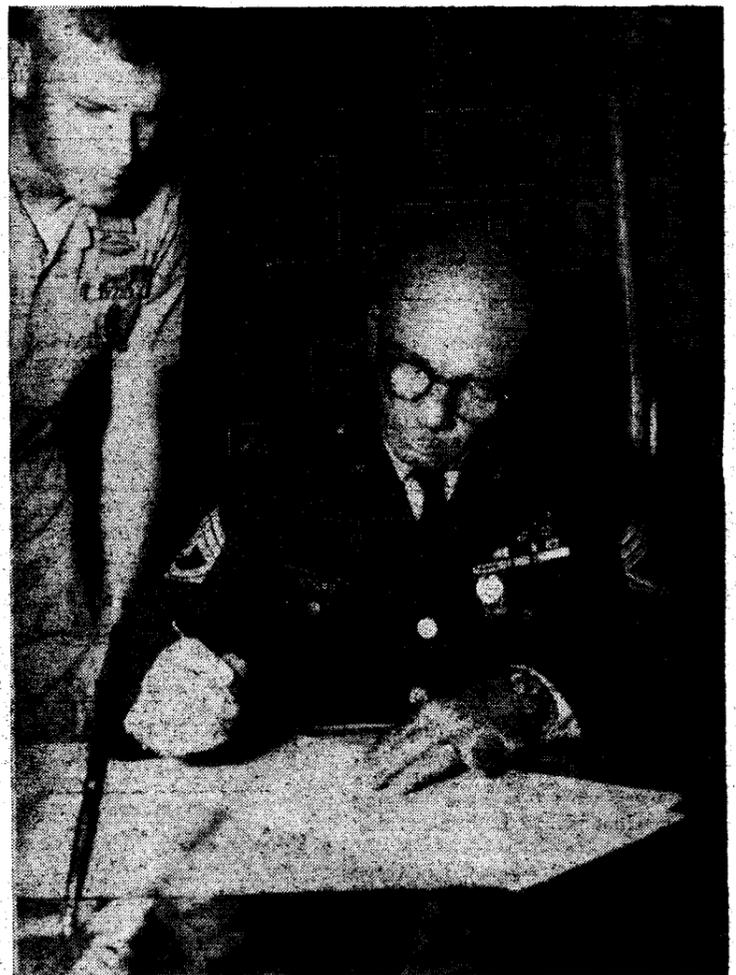
rounds.

Technical management is provided by a field crew representing the U. S. Army Pershing Project Manager's Office (PPMO). Chief of this field crew is James E. Conner. In Utah, he represents the project manager, Col. Rutledge P. Hazzard.

Most organizational elements of White Sands Missile Range also are required to support the off-range firing program. As each firing day approaches, scores of WSMR military and civilian personnel, each with his special job to be done, converge on the Blanding area.

All WSMR operations are coordinated through the Utah Launch Complex headquartered at Green River. Director of this element of WSMR's Deputy for National Range Operations is A. Muray Maughan.

WSMR project engineer for the Pershing system is Reed Larsen, also of National Range Operations. Test coordinator for WSMR's Deputy for Army Missile Test and Evaluation is W. E. Worthy.



FIRST REENLISTMENT—SFC Donald L. Butcher affixes his signature to a three year contract with the U. S. Army during a reenlistment ceremony at UTC. A maintenance chief with the 255th Ord. Det., SFC Butcher is the first man to reenlist in the unit since its activation here at Redstone Arsenal in February. Other reenlistments during the week were: For six years—SSG Williams Confer, Co. D; SSG Sheridan Nunn, Hq. Co., UTC, for an assignment in Alaska and SP4 Larry Webster, 249th Ord. Det., for a missile maintenance course at MMCS. For five years—SP6 Vernon L. Wirt, Co. B.

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MID Casts New Light On CWF Softball

Harris Homers Too Much For Pershing And RASA

The well-publicized showdown battle between Pershing and RASA for Civilian Softball supremacy last week turned out to be a small fizz through a combination of the rain and the Missile Intelligence Directorate.

First off the battle of unbeateners never came off due to afternoon showers last Monday. And then MID saw to it that the game would have little meaning anyhow by whipping each later in the week.

Pershing was the first to fall from their exalted heights when MID withstood an early six-run deficit and fought back to post a 9-8 win. Two nights later RASA suffered the same fate in dropping a 9-3 decision.

The two wins boosted MID past Pershing and RASA and into the league lead with seven wins against a single loss. The former co-leaders are bracketed at six and one.

Rapidly improving MISD leaped into fourth with a pair of impressive wins, whipping the G&C Lab, 23-11, and MCD, 30-7, to become the only other double winner of the week.

The Corps of Engineers outlasted GEM, 16-14, and Financial Management picked on the same team for a 7-1 win. Communications scored 16 runs in the opening inning and coasted to a 26-3 win over Safeguard, but the latter came back to outlast the Metrology Lab, 28-26, in a free hitting donnybrook.

Pershing took advantage of some loose fielding to chase six runners across the plate in the very first inning, before MID tightened their defenses and closed the door to the Missilemen until the final inning when Hal Jacobs homered with a mate aboard.

Jack Harris opened the MID

scoring with a homer in the third and his mates kept pecking away at the lead and finally took over with four runs in the 6th, to lead 9-6.

Mel Thomas paced the MID attack with three out of four as Larry Bennett picked up the win.

Bennett was on the hill in the RASA game also and once more yielded the early lead when RASA scored twice in the first and once more in the second.

Following the script even further, the first MID tallies were provided by a Harris-stroked round tripper, this time with a mate aboard. Five more tallies came racing home in the fifth along with a pair of insurance runs in the sixth.

Curt Gentry topped the offensive thrust with two doubles and a single, scoring three runs and driving in three more.

Set Swim Classes For Handicapped

The availability of several qualified instructors has enabled the Arsenal's Youth Sports Program to include activity for handicapped dependents in their summer agenda.

In announcing the first such program ever planned at Redstone, Jerry Willis, YSP director, said that swimming instructions will be initiated as soon as sufficient interest is indicated.

Later classes and instructional programs will be established as the interest warrants.

Parents wishing to enlist their children in the swimming classes are asked to contact Willis at 876-2574.

Driver Safety To Be Taught

William H. English, Safety Engineer, Army Materiel Command Field Safety Agency, will instruct a Driver Safety course at Redstone Arsenal.

The twelve-hour course will be conducted in the Auditorium of Bldg. 5250. It is slated to be attended by a cross-section of Arsenal employees, beginning June 8.

English has been in government safety work for 29 years. He has worked in a broad spectrum of safety activities throughout his career. He is a graduate of Ohio Wesleyan University and has taken safety engineering and management courses at New York University, Northwestern University and Maryland University.

The Army Missile Command Safety Office and Civilian Personnel Office are responsible for planning and administering the Driver Safety course. It is to be offered periodically and open to those who have driver permits.

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ROD AND GUN CLUB OPENS DOORS—Representatives from Arsenal units participate in a ribbon-cutting ceremony at the Arsenal Rod and Gun Club's new quarters. The new building, pictured at top, has been completely renovated. With assistance from the post engineers, club members also worked extra hours to get the facility in top condition. Snipping the ribbon are from left, Col. Preston B. Canady, director, Arsenal Support; Col. Gilbert P. Levy, commandant, USAMMCS; MSG Lou Demichael, USAMMCS; Col. Ernest Bralley, Hospital commander and LTC Jack Lacy, SAFCOM.

Skeet Shooters Gain Even Split

The Civilian Welfare fund entries in the Industrial Skeet League split a pair of matches last week with the Blues hanging up a win and the Reds absorbing a loss.

The Blues took two out of three points from the host, Pine Bluff Gun Club, to square their seasonal record following a loss to the Reds in the opening league match.

Charles Lewis and Bob Noack each smashed 48 birds out of a possible 50 to set the pace for the win. Completing the winning lineup were Ray Wisniewski and Joe Mendelson, with 46 out of 50 apiece, and Joe Donahue who broke 45 targets.

The Reds were a little off their near perfect performance in the opening match in dropping a 3-2 decision to Boeing No. 1.

Kelly Grider, Pat McIngvale, and Kirby Moore each smashed 48 targets while Gene Small hit on 47 of 50.

The two Missile Command teams switch opponents this week with the Reds going against Pine Bluff and the Blues testing Boeing.

MICOM, Safeguard Post Women's Softball Wins

Barbara Ikard's home run following a single by Sharon Rainey provided the spark as the Missile Command rolled to a 15-4 victory over C&C Fabricators in a Huntsville Women's Softball league game last week.

Safeguard made it an all-victorious week for the Civilian Welfare Fund-sponsored Army girls by scrambling to an 18-17 win over IBM.

The Missile Command leads the league with six wins in seven starts while Safeguard has been victorious five times while losing twice.

The Fabricators scored three times in the third, added another in the fourth and led MICOM 4-3 going into the bottom of the fifth. But the Rainey-Ikard combination turned the tide and set the stage for a big ten-run insurance rally in the sixth.

Gladys Hill turned in another fine performance in getting credit for the win. Ikard, Kathy Leeth and Helen Smith each had three hits to lead the attack while Jeanne Hayes was the defensive stand-out.

The hard-hitting MICOM girls received a severe jolt when Pat Shipp, the league's premier catcher, broke an arm and will be lost for the season. Pat was the owner of .526 batting average through six games and was the team's field leader.

The Safeguard-IBM affair was another turnabout affair with the IBM girls forced to rally twice for the win.

IBM scored early and led 14-7 after five innings of play. Safeguard wiped out that deficit with a seven-spot in the top of the sixth only to fall behind by three in the last half of the same frame.

Another four run rally in the seventh put Safeguard out front and Claudelle Griggs made the margin stand up by retiring three straight IBM hitters in the bottom half of the final inning.

The VA says a recent law, PL 91-241, limits the amount the agency may withhold from veterans' disability compensation checks to recoup military disability severance pay.

YOUTH SPORTS PROGRAM

Weekly Schedule, June 8 thru 13

Time	Activity	Location, Instructor
8 a.m. - 12 noon daily	Tennis Clinic	Officer's Club Courts, Col. Grigsby
8 a.m. - 9 a.m. daily	Swimming Competition	EM Pool—Sgt. Thomas
9 a.m. - 10 a.m. daily	Swimming Competition	EM Pool—Sgt. Thomas
8 a.m. - 12 noon M-W-F	Gym Activities (girls)	Workout Facility
8 a.m. - 12 noon Tu Th	Gym Activities (boys)	Workout Facility
8 a.m. - 12 noon daily	Playground	Playground 1 & 2 Mr. Willis
1 p.m. - 5 p.m. daily	Playground	Playgrounds 1 & 2 Mr. Willis
1 p.m. - 5 p.m. daily	Water Safety	Tenn. River Boat Docks
8:30 - 12 noon, June 11	Golf Clinic	RSA Golf Course Maj. Johnson
10 a.m. - 12 noon, June 13	Registration for Rangerettes—Baton Twirling, free style Gymnastics	Shack F.—Mrs. Wesson

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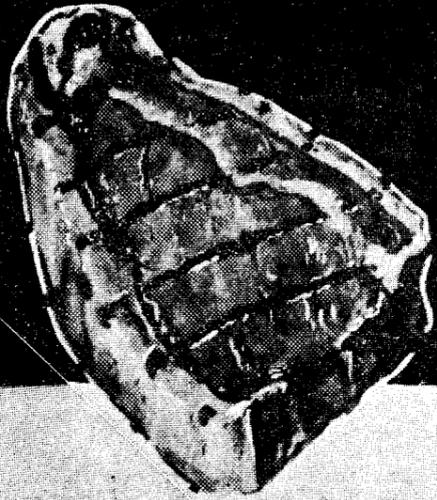
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 WE SPECIALIZE IN HEAVY BEEF
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- DELMONICO STEAK
- PRIME RIB STEAKS
- BAR-B-QUE STEAKS
- 10-LBS. CHICKEN
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- BAR-B-QUE RIBS
- CHUCK ROAST
- POT ROAST
- GROUND BEEF
- 5-LBS. PORK

Total
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135 lbs. at 57c lb.



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3.
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LOIN & ROUNDS

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- ROUND STEAK
- SIRLOIN STEAK
- PORTER HOUSE STEAK
- SMALL AMOUNTS OF GROUND STEAK
- SIRLOIN TIP ROAST
- MINUTE STEAKS
- RUMP ROAST
- EYE ROAST
- ROUND ROAST
- 5-LBS. PORK CHOPS
- CLUB STEAK
- 5-LBS. BACON

Total
\$78.00

116-Lbs. at 67c Lb.

2.
 Consisting of
LOIN & RIB

- CLUB STEAK
- RIB STEAK
- PORTERHOUSE STEAK
- RIB ROAST
- MINUTE STEAKS
- T-BONE STEAK
- SIRLOIN STEAK
- FILET
- SIRLOIN TIP ROAST
- ALSO SMALL AMT. OF GROUND BEEF

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\$78.00

120-Lbs. at 65c Lb.

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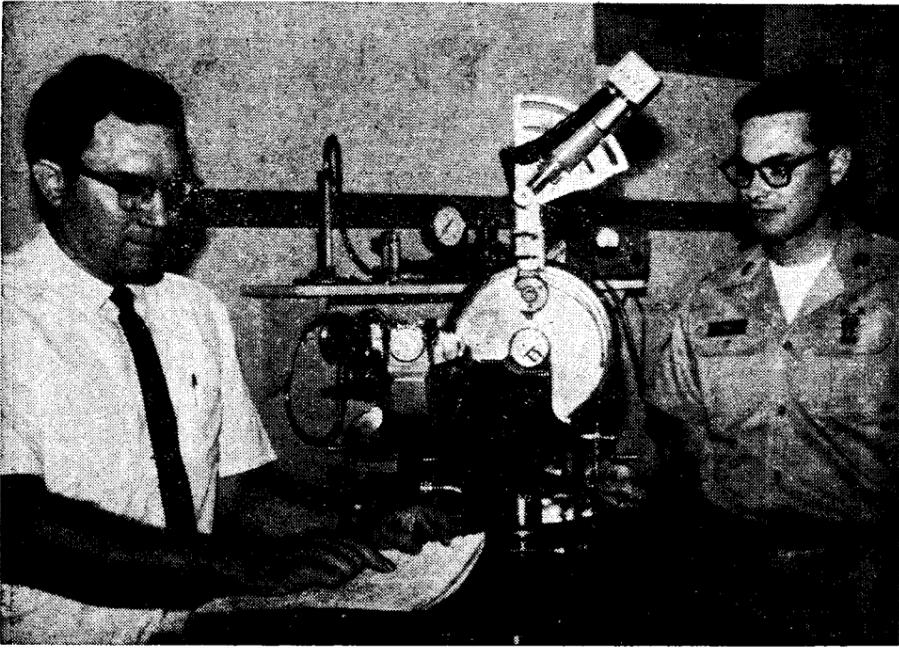
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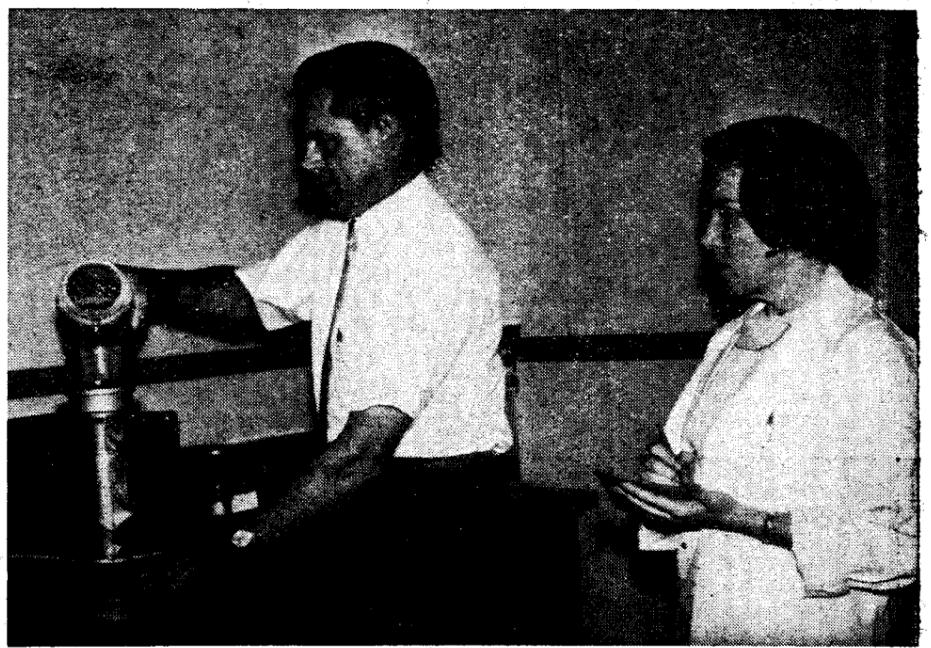
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(L) ALLEY, (R) DAKE



(L) ALLEN, (R) CUCKSEE

Research Brings Recognition To Seventeen

Awards Cover Work Of Scientists And Engineers



(FROM LEFT) LEONARD, CLAYTON, WETHERAL, JORDAN, MORRIS, GEN. DONLEY

Several significant contributions to the Army's search for more efficient and less expensive weapons were cited here recently in the presentation of the Army Missile Command's scientific and engineering achievement awards to 17 people of the Research and Engineering Directorate.

The awards recognized group participation in the successful conclusion of six research projects performed in the R&E Laboratories.

In presenting the awards, Maj. Gen. Edwin Donley told the recipients that they had materially enhanced the Army's technical capability and had established a scientific basis for improvements of military importance.

The award-winning research projects were divided equally between the Propulsion Laboratory and the Inertial Guidance and Control Laboratory and Center with seven personnel involved in the former organization and ten in the latter.

Honored from the Propulsion Lab were Henry Allen, Marjorie Cucksee, Bernard Alley, PFC James Dake, Robert Fink, William Thomas and Robert Betts.

Allen and Mrs. Cucksee were recognized for their work in the development of a new binder system for composite solid rocket propellants.

Another team of chemists, Alley and Dake, were cited for their research in controlling the burning rate of solid rocket propellants.

The combined efforts of Fink, Thomas and Betts resulted in the design of an essentially debris-free ignition system for stick propellant motors.

Application of the unique system on the TOW weapon system has eliminated a serious debris problem when the missile is fired from helicopters.

Guidance and Control Laboratory personnel cited for outstanding contributions included: John Leonard, Thomas Wetheral, Walter Jordan, Bobby Clayton, Roland Morris, Victor Ruwe, Hugh Greene, William Stripling, Harold White and James Johnston.

A serious problem in the turret control system of the M-60 tank was the basis of the awards made to the first five.

They combined their talents in developing a reliable and cost-effective system that greatly improved the stabilizer performance of the turret.

Two electronic engineers, Ruwe and Greene, won achievement awards for their study in the area of nuclear effects on electronic systems, and their subsequent recommendations for improved procedures.

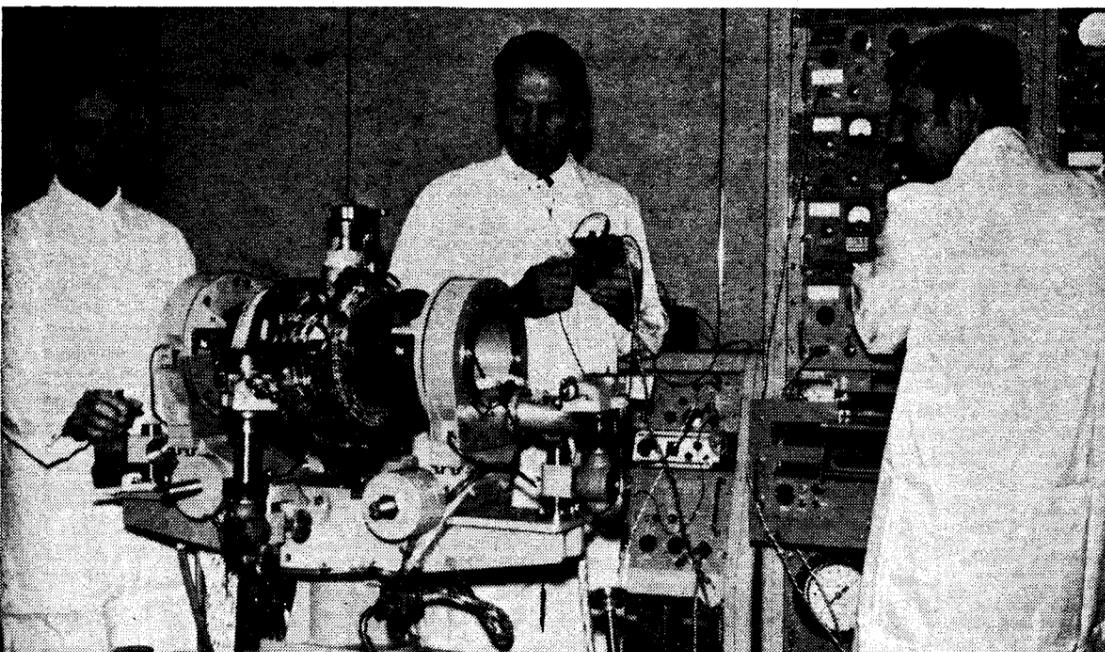
They established new techniques for performing susceptibility determinations for complete missile systems, and developed methods for making the systems less susceptible to nuclear radiation.

Stripling, White and Johnston contributed significant solutions to serious alignment problems that had been discovered with a missile system.

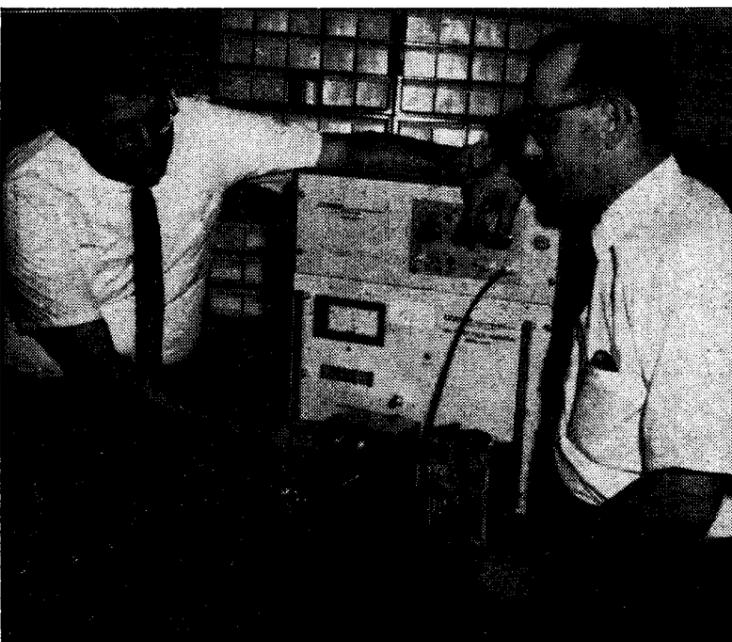
The trio of engineers supervised the implementation and evaluation of a new system that greatly reduced the operator skill requirements, reduced the reaction time and exceeded the accuracy requirements.

Approximately 940,000 servicemen were separated from military service during fiscal year 1969, according to VA's annual report.

"You look like a million dollars," he whispered. She sneered. "After taxes," he added.



(L) STRIPLING, (C) JOHNSTON, (R) WHITE



(L) ROWE, (R) GREENE



(L) THOMAS, (C) FINK, (R) BETTS

Taper Off? Heaven No! Quit, Cold Turkey

Some people in the Pershing Project Office are quitters. They'd rather quit than switch—or fight. Every member of the System Integration Branch has quit smoking, thanks to a team effort started by Will Bendall. He gave up smoking as a New Year's resolution four years ago. "I know it sounds crazy," said Bendall, a general engineer, "but

knowing that Will Bendall hadn't broken a New Year's resolution that was four years old." There was help from home too. The minute that Williams' wife found out that Will Bendall was putting the screws on him, she and the children started a campaign of their own. "She and the kids wouldn't let up. She was constantly mentioning



SMOKERS VERBOTEN—Will Bendall, a general engineer with the Pershing Project Office, refuses entrance to Dean Cloud and her cigarette. Every member of the Pershing System Integration Branch has kicked the habit after a four year campaign conducted by Bendall.

as soon as I found I could quit, I went to work on Delbert Williams who sits across from me in the office."

Williams readily admits that Bendall conducted an all-out campaign to get him to kick the habit. Once Williams fell, the two crusaders set to work on the rest of the office.

Last week after a four year struggle, the battle ended. The last smoker in the office, James Flinn, surrendered his flip-top box, his lighter and several cans of lighter fluid. Almost immediately a large sign bloomed on the hall door warning all who passed that "this office on the third floor of 4505 is for clean air and against smoking."

"Things are pretty strict around here," said Charlie Borum, also a general engineer and one of the last to fall. "Will and Delbert took up all the ashtrays, and conducted soul sessions with everyone in the office who lit up."

"It was bad enough to have Delbert Williams quit smoking and mean it, but it was even worse

Couch Receives Commendation On Eve Of Retirement

The retirement party for Lawrence H. Couch, senior machinist and head of the Research and Engineering Directorate's Propulsion Laboratory Model Shop was attended by more than 60 friends and co-workers at Catfish Haven recently.

Principal speaker for the meeting was C. L. Crabtree, another former employee of the Army Missile Command.

T. H. Duerr, supervisor, presented Couch a letter of commendation from Dr. John L. McDaniel, Director of the R and E Directorate.



BUDDY SYSTEM—Will Bendall (left) and Delbert Williams (right) restrain Charlie Borum from getting "just one last cigarette". Such persuasive team work enabled everyone in their office to stop smoking.

such pleasant subjects as emphysema, heart disease and lung cancer," Williams recalled. "My kids would take my cigarettes and write on each one 'THIS IS GOING TO KILL YOU!'"

Everyone in the System Integration Branch agrees that the only way to quit smoking is to go "cold turkey." There seems to be no easy way such as tapering off. Bendall, Williams and Borum admit that "Abstaining does give you a definite sense of accomplishment," said Bendall. "You feel a lot better too, and weight gain is no problem. Most people who have enough power to quit smoking have enough to cut down their eating. It is hard to pass up a smoke right after a good meal.

Duncan Completes 37 Years Service, Ready To Retire

Raymond C. Duncan, an employee of the Army Missile Command's Hawk Project Office, retired last week after 37 years of military and Federal service.

Duncan, a program analyst, entered the Army in March 1933. Before coming to Redstone Arsenal in 1954, he had completed duty assignments in Europe and Korea. Duncan retired from the Army in

1956 and remained as a civilian in the Intelligence Section of the Ordnance Missile Laboratories.

He was assigned to the Hawk Project Office in 1962.

Duncan and his wife Lovie will make their home in Woodville, Alabama.

"We plan to fish a little and to continue our exotic gardening," said Duncan. "My wife and I traveled extensively when I was in the service, and with the possible exception of seeing Switzerland and Hawaii again, I believe we will stay at home and take it easy."

June 9—Dateline 1785—Sylvanus Thayer, "Father of the U.S. Military Academy" was born.

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95th Keeps Army Calibrated All Over World

The Egyptians, when they built the pyramids West of El Gizeh, had a calibration system so complete that their measurements were accurate within one-tenth of a percent.

Today, the science of metrology extends beyond mere mass into the realm of light, radio waves, temperature and other variables in our atmosphere, a fact demonstrated by a visit to the Secondary Standards Laboratory of the U.S. Army Metrology and Calibration

Center at the Army Missile Command, where some tolerances are measured in micromillimeters.

The laboratory itself is a \$1.2 million prefabricated module with its own built-in temperature and dust control system, divided into three areas where calibration technicians repair and re-calibrate such things as components for missile systems, gauges, and meters. The scope of work is not confined or limited to these things and is expanding to keep pace with new technological breakthroughs and modifications which change equipment and instrumentation.

The laboratory module is housed within an old warehouse that once belonged to the Chemical Corps when gases were manufactured at Redstone Arsenal during World War II.

It is manned by members of the 95th Calibration Company, activated here in June 1968. The Company is the source of quick reaction teams which might be found in Maine, Spain, the Congo or a battle area—calibrating equipment for our Armed Forces and sometimes our Allies. The chief in the laboratory is CW3 James D. Stewart, a long-time calibration technician who helped establish a calibration company in Europe and helped establish the training standards and curricula for the technicians' school at Aberdeen Proving Ground, Md.

He put so much thought into establishing a smooth and efficient pattern for getting things into and out of the shop expeditiously that his pocketbook almost burst its seams with the \$835 awarded him for simplifying the work order system at Ft. Lewis, Wash. He is a physicist who also served as an instructor of calibration technicians at APG and who is constantly assisting the people stationed here in sharpening their skills so that when they return to assignments in the field they will be trained across the board on equipment newly developed or updated with modifications.

After a calibration technician tests a piece of equipment and certifies it, he labels it so that, when the next test is due, it is obvious to the user. Some types of equipment require frequent calibration, other types may go for years, but are tested at random against the standards as a precautionary measure.

There are three calibration laboratories in Germany, one in Korea, one in Okinawa and seven in U.S. depots. All are responsible to the director of the Center, Col. William C. McMillan, who is responsible for all calibration programs throughout the world until the equipment is transferred to the user.

Standards are determined at the U.S. Bureau of Standards or at the International Bureau located in France. For instance, since dust and temperature affect many kinds of things, the dust count in the secondary standards laboratory is studied across the street in the Primary Standards Laboratory at the Missile Command, which in turn goes to the U. S. Bureau for certification of its test equipment and standards.

For years, especially since the world has shrunk to less than a day's travel around it, people have been working toward standardizing all measurements so that items manufactured or built in one country would have interchangeable parts with those measured elsewhere, but so far the results remain as variable as the days when men used grains of rice or barley or wheat to determine the size of an inch or meter.

It takes 40 weeks of class work to train a calibration technician who already has some knowledge of the maintenance of missiles, meters or related knowledge in physics or mechanics and then he runs into the changing times. For instance, when air conditioning was introduced in the United States, it was measured in tons and later switched to BTU (the British Thermal Unit). The unit that controls the two laboratories and the office area of the Secondary Standards Laboratory measures 180,000 BTU.

It was turned on a year ago in April, and has never been turned off. The controls even take into consideration the amount of heat generated by the neon lights. Temperature variation, like all tolerances in precision equipment used in the laboratory, is measureable — plus or minus a tenth of a degree.

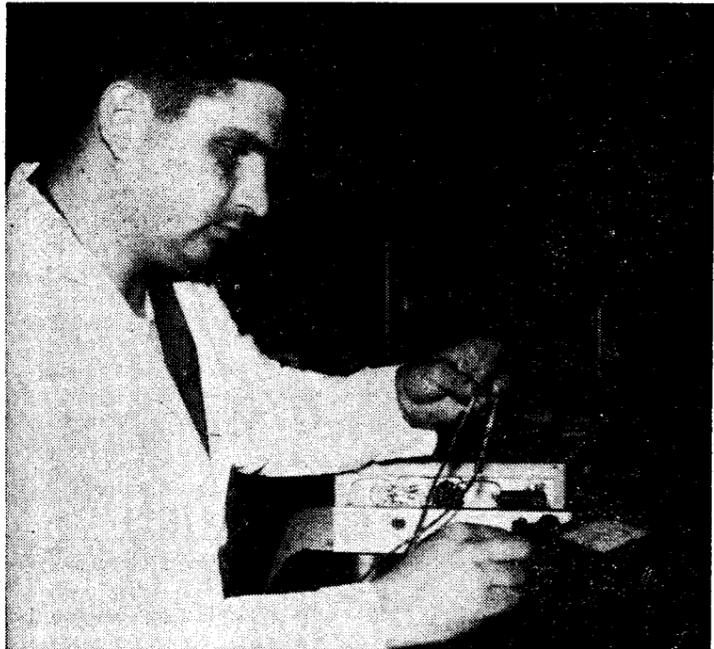
Imagine a man accustomed to thinking in kilocycles for radio frequency. He now must think in megahertz. In setting a standard, even the shape of the earth and the temperature at the control standard site must be taken into consideration to assure a minimum of distortion between the standard and the test site.

The technician in the field gets out of touch with the variety of standards since he is usually assigned to work in a specific equipment area. When he is assigned here, he is re-cycled on all the

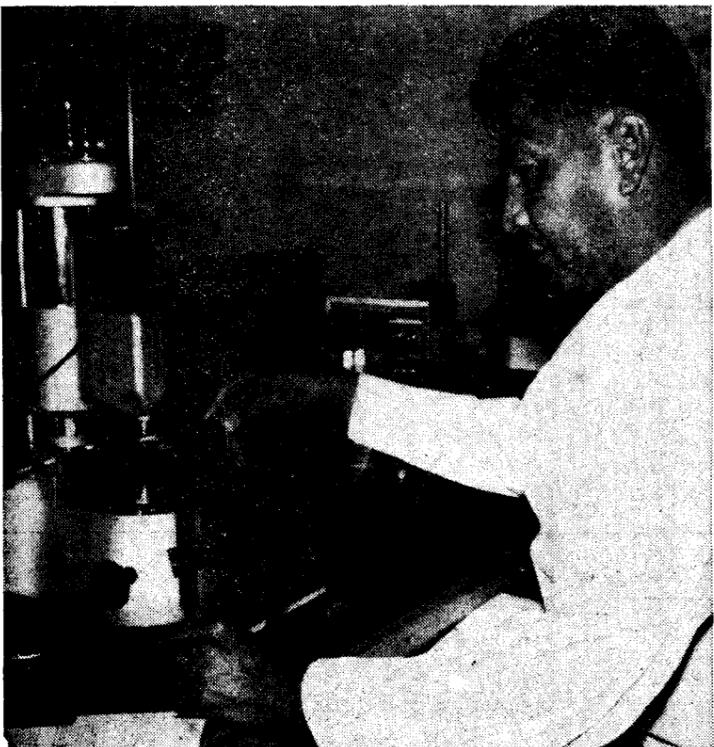
equipment to sharpen his maintenance capabilities. Some of the items sent in for calibration are adjusted according to a reading of an oscilloscope, but the technician doesn't have to depend on his memory or a pen to record the results. On some items, a typewriter automatically goes to work and records the results while the man is working.

So, amid balancing scales, ultrasonic baths, and various test standards, the technicians isolate trouble spots in equipment and re-build according to the need. Their motto: "If we can get the parts, we can fix it."

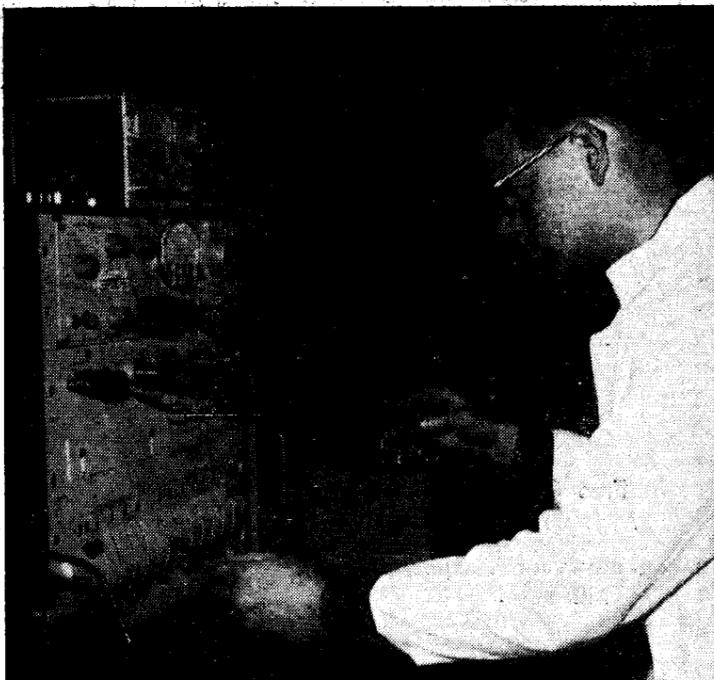
The days of military calibration technicians have changed from random inspection of rifle balls to be sure they fitted the rifle barrel. Now they monitor the frequency of a missile on a radar screen to determine whether it will be "go" at firing time.



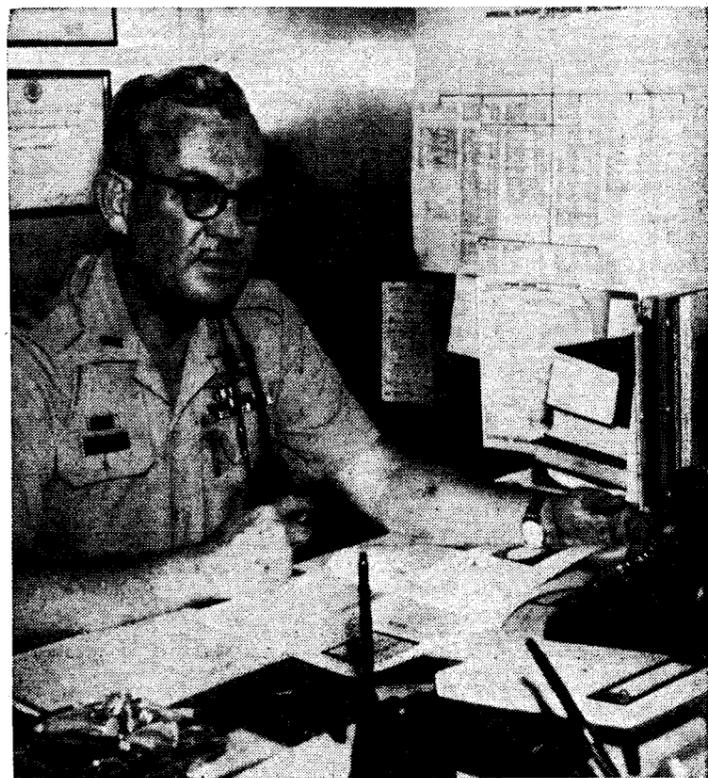
ELECTRONICS, A SPECIALTY—SP6 Thomas Pack checks out transistors to isolate a faulty unit—first identifying the board where the trouble lies, and then pinpointing the problem. He, like others in the 95th Calibration Company, is cross-trained with a working knowledge of approximately 200 standards used by Army calibration technicians. It takes 40 weeks to train a missile maintenance technician to be a calibration technician.



TESTS CUSTOMERS STANDARD—SP6 Clifford Whiteface of Pine Ridge, S.D., measures the accuracy of a customer's gauge blocks, an item so flat that they bond together without an adhesive agent. If a block will not bond, it is defective. The test standard records on a comparator and automatically types the information of the results simultaneously.



MAKES ADJUSTMENTS—SP6 Bruce Berge of Hoyt Lakes, Minn., adjusts a precision capacitor in the Secondary Standards Laboratory at the U.S. Metrology and Calibration Center. The Redstone Arsenal soldier is a member of the 95th Calibration Company which furnishes quick reaction teams to field units wherever they are stationed around the world.



KEEPS COGS MESHING—CW3 James D. Stewart is chief of the Secondary Standards Laboratory in the U. S. Army Metrology and Calibration Center at the Army Missile Command. His duties include sending teams of trouble shooters into the field to calibrate Army and other Armed Forces equipment, to keep the paperwork up-to-date and smoothly flowing, and to see that equipment submitted for tests from the field gets out at the specified time and back to the user. Other duties include updating training of calibration technicians.



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Tom Cornell Finds Satisfaction In Sharing

When Tom Cornell, an equipment specialist with the Army Missile Command's Procurement and Production Directorate, retired four years ago, he wasn't ready for the pipe and slippers routine.

"I wanted to do whatever I felt like doing," Cornell said about ending 24 years of civil service.

Although he's still doing whatever his fancy dictates, Cornell has a string of projects that leave no time for idle reflection about "the good old days." (I've never regretted retiring," he says).

He is a Scoutmaster with Huntsville Boy Scout Troop 15, a member of the Official Board of the First United Methodist Church, a member of the Optimist Work Program, is active in the Alabama Archaeological Society (having served as president of the Huntsville Chapter and the State Society), visits various schools, gives

lectures on rocks and fossils, and still has time to search for more rocks and fossils.

Actually, Cornell has two hobbies and has managed to combine them through the years. He started collecting rocks and fossils as a boy. As he grew up and began working with Scout and youth programs, he managed to maintain his activities in both areas.

Some of his finest rock and fossil specimens were found on hikes and campouts with the Boy Scouts. Other artifacts and fossils were discovered by Cornell on trips all over the state as part of archaeological and historical projects.

Utilizing a display board with arrowheads and spear points, Cornell has shown that as far back as 20,000 years ago, early man was interested in the shape and development of projectile points.

Some of his display boards he



BUSY RETIREE—Tom W. Cornell, formerly an equipment specialist with the Procurement and Production Directorate at the Army Missile Command, who retired in 1966, is shown with a display board depicting the development of projectile points back 20,000 years ago. He uses the board to lecture school classes on archaeology, artifacts and fossils. In addition to archaeology, Cornell works with Boy Scouts, church and youth organizations.

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uses as a basis for lectures that he gives to science classes in many schools. Already this year he has spent more than 50 hours lecturing students on artifacts, fossils and the early history of the people who lived in this area thousands of years ago.

In fact Cornell has become quite well known for his artifacts and fossils and has furnished specimens to such leading universities as Harvard, Auburn, Indiana, Mississippi State and Iowa.

Friends from all over the country continually add to his collection. One friend from the State of Washington sent chips of agate and while inspecting the chips closely, Cornell found some indian artifacts embedded in the stones.

Though not a native of Alabama, Cornell has lived in Huntsville for more than 40 years. His entire 24 years civil service was spent at Redstone Arsenal dating back to 1942 when he was a supervisor on the ammunition lines right on up to his job with P&P and his sub-

sequent retirement in 1966.

Commenting on his retirement, Cornell said: "I didn't retire to get another job, I retired to do the things I want to do. In fact the only thing I've done for pay during the last four years is to serve on jury duty."

Working with the Boy Scouts—he has been scoutmaster of Troop 15 for 31 years—Cornell has kept young helping the boys along the paths of scouting.

Although he doesn't hike as far and as long as he used to, Cornell still likes to go out looking for fossils and artifacts.

Cornell is enjoying his retirement to the fullest and feels that he is truly in the golden years.

The VA suggests that G.I. insurance policyholders who receive VA compensation or pension payments may want to consider having their insurance premium deducted from their monthly checks.

The VA recently announced an accelerated allocation to states of \$15 million in spending for the agency's Department of Medicine and Surgery.

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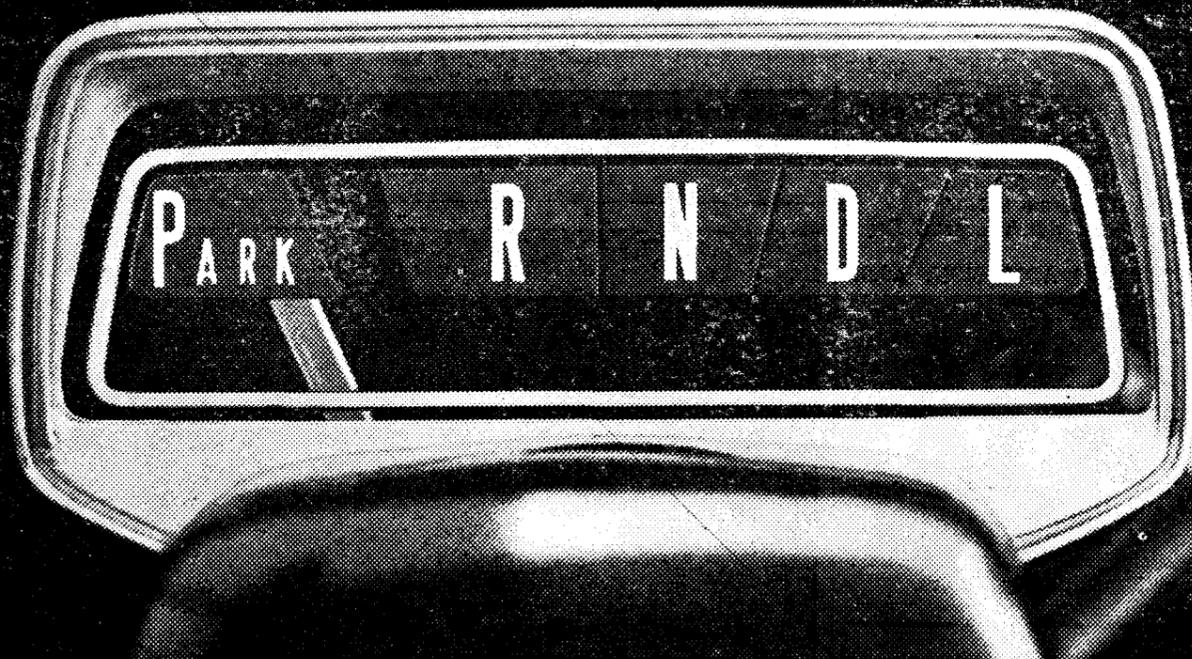
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5. Houses, Lots - Sale

FOR SALE BY OWNER—Brick home, 8 rooms, 3 tile baths, double garage, central heat and air conditioning, fireplace with iron liner and glass doors, dishwasher, carpet over hardwood floors. Located on acre lot in Flemington Heights, on Glenco Road, SE, 3 blocks from Whitesburg School. Appraised at \$37,000. Will sell for less. Call 881-3709 for appointment. Ed Waddell. tlc

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The VA recently announced the allocation of another \$5 million for various construction projects at some of its 166 hospitals.

6. Pets

BRITTANY SPANIEL PUPS, retrieve and point, AKC Registered, females and males, \$35.00 call Fayetteville, Tennessee, 433-2025. 6-10 p

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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. tlc

Theater Schedule

WED., June 3
"Che!" (GP)

THURS.-FRI., June 4-5
Walt Disney's "The Computer Wore Tennis Shoes" (G)

INCREASED ADMISSION: adults 50c, children 25c

SAT., June 6
"The Games" (G)

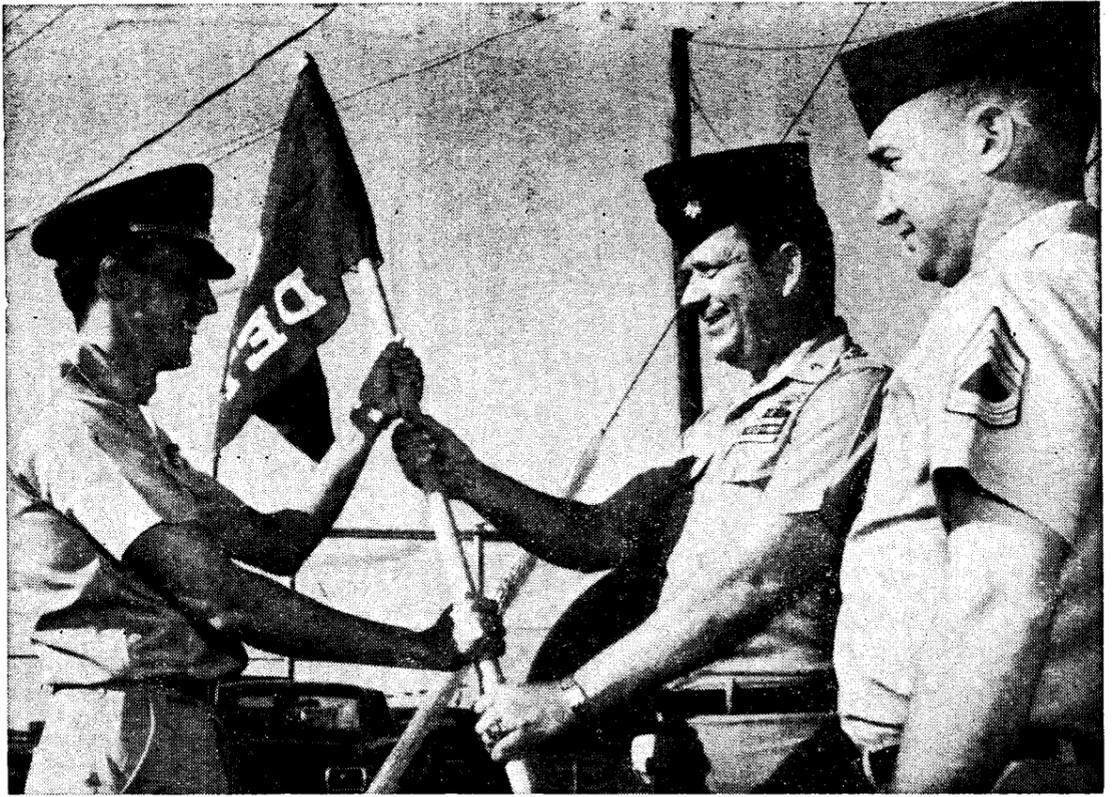
SUN.-MON., June 7-8
"Anne of the Thousand Days" (GP)

INCREASED ADMISSION: adults 75c, children 25c

TUES., June 9
"The Appointment" (R)

Two shows nightly at 6:00 and 8:30 p.m. Sunday matinee at 2:00 p.m.

June 13—Dateline 1917—General John J. Pershing and his staff arrived in France to arrange for participation in the war by American Expeditionary Forces.



UNIT ACTIVATION—Col. Mathew Thome, commander of Unit Training Command, passes the guidon of the newly activated 509th Ord. Det., to the unit commander Capt. Carroll Wells. At right is the unit's first sergeant, SFC Ralph McBride. The unit will receive training on Land Combat Support Systems with special emphasis on the Chaparral and Shillelagh systems. After training the unit will leave Redstone Arsenal to support the missile systems in the field.



HOME IS OKINAWA, NOW—Mr. and Mrs. Leonard Brockman hold a welcome sign as their Air Force Sergeant son Richard hugs his mother. Rick is now stationed at Kadena Air Base, Okinawa. His father is the Executive Secretary of the Joint Services Labor Committee on Okinawa and was a labor relations specialist at the Army Missile Command until his transfer in the Fall of 1968. Rick is a graduate from Huntsville High and Auburn University. While in Huntsville, Mrs. Brockman was secretary at the Church of the Nativity. (U. S. Air Force Photo)

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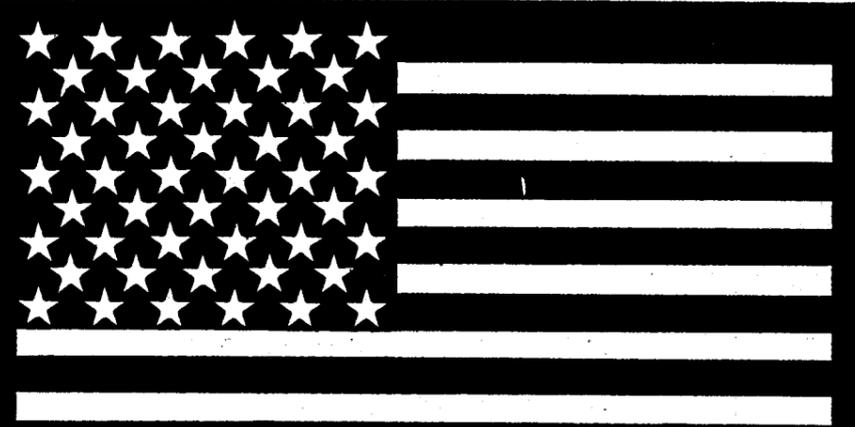
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NATIONWIDE MEMBER

SAFSCOM Adds Network To Communications

Something new has been added to the Safeguard System Command's headquarters building in Research Park—a Military Affiliate Radio Station (MARS).

The station, with call letters WB4KNT, logged its first contact at 2:15 p.m., May 6, 1970, when Lowell "Andy" Anderson, station custodian, made voice contact with Station TG9MD in Guatemala, Central America.

Anderson, a communications specialist assigned to the Electronic Communications Office, Safeguard System Command, is the one man responsible for this station being in operation today. He literally built it from "scratch." According to Anderson, it took him six months to get the station operational. He stated, "During that six month period there were many moments of anxiety when I think I actually shed blood, sweat, and tears."

The license, which gave the authority to start station operations, arrived shortly after it was applied for but by then the major problem was finding a place to set up operations. A room was finally located within the headquarters building and when approval was granted by GSA Anderson began equipment installation. This included a Moseley beam antenna, a Collins S line amateur radio station which included a phone patch and electronic keyer capability, and the numerous electrical circuits, feed throughs, and other gadgetry associated with an amateur radio station. Many SAFSCOM employees assisted with the project and Anderson wishes to recognize them. "I received extremely fine cooperation from everyone within Safeguard who I asked to help get the station going," he stated.

WB4KNT is licensed in Anderson's name. Maj. Bob Vento, chief, Electronic Communications Office, is the officer-in-charge.

Anderson is no stranger to operating an amateur radio station; he has been doing it for ten years and holds a radio/telephone first class radio engineers license.

According to Anderson, operating a full-time station will be no problem; he has 14 licensed radio operators who have volunteered their services.

WB4KNT will provide a source of trained operating personnel during local or national emergencies. It will net with all Regional and Third Army military amateur stations and relay unofficial type military and civilian traffic. Further, it will provide a phone patch capability to any other amateur station in the world and has the capability of becoming an emergency communications station during national disasters.

A watch schedule has been established which will give Safeguard complete 24-hour communication coverage in case of emergency or as required. Those composing the watch are: Stan Owen, Gerald Price, Ron Schneider, Tom Pryor, Mike Johnston, Erskine Nix, Jim Yost, Joe Daniel, Bob Webb, D. E. Bowers, Marion Gibson, Henry Clinkenbeard, John Robinson, and Herbert Crowson. Anderson and Maj. Vento will be prepared to stay on the air continuously or as required during an emergency.

A 53-year-old career medical administrator, Willard G. Hitchings, recently was named director of the VA hospital in Miles City, Montana.

June 17—Dateline 1775—The first battle of the American Revolution was fought at Bunker Hill.



ADJUSTS NEW EQUIPMENT — Lowell A. "Andy" Anderson, a communications specialist with the Safeguard System Command's Electronic Communications Office, is shown making final adjustments to the new amateur radio station in Safeguard headquarters.



ALMOST PERFECT—Mrs. Barbara ShROUT, Program Analyst with the Comptroller and Director of Program Office, scored 99 out of a possible 100 on the second phase test, as Navy Reserve Captain Jim Goodwin, course instructor offers his congratulations. Mrs. ShROUT is one of two women in Capt. Goodwin's class on National Security Management, sponsored locally by the Industrial College of the Armed Forces, and she scored the highest grade in the class.

SSG Matsugi, Pvt. Garner Get Top Graduation Honors

Sixty-five students completed training in five missile and ammunition maintenance courses at the Missile and Munitions Center and School Thursday in graduation exercises at the Arsenal theatre.

Staff Sgt. Miyoji Matsugi and Pvt. Joe E. Garner took top honors in the graduating class. Matsugi, from Kochiken, Japan, compiled an average of 97.7 percent in the Hawk fire control repair course while Garner, a native of Magee, Miss., averaged 97 percent in the ammunition storage course.

Both received the association of the United States Army (AUSA) plaque for their academic achievements. The award is made to the student who maintains an average of 96 or higher in their studies. The award was presented to the students by W. T. Weissinger, Tennessee Valley Chapter of the AUSA representative.

Each graduating course also had an honor graduate. Special completion certificates were presented to Marine Staff Sgt. Jerry L. Hodge, Marion, Ill., with a 95.5 in the HAWK air defense missile maintenance technician course; Cpl. Tze-Yua Hwang, China, having a 90.1 in the Nike test equip-

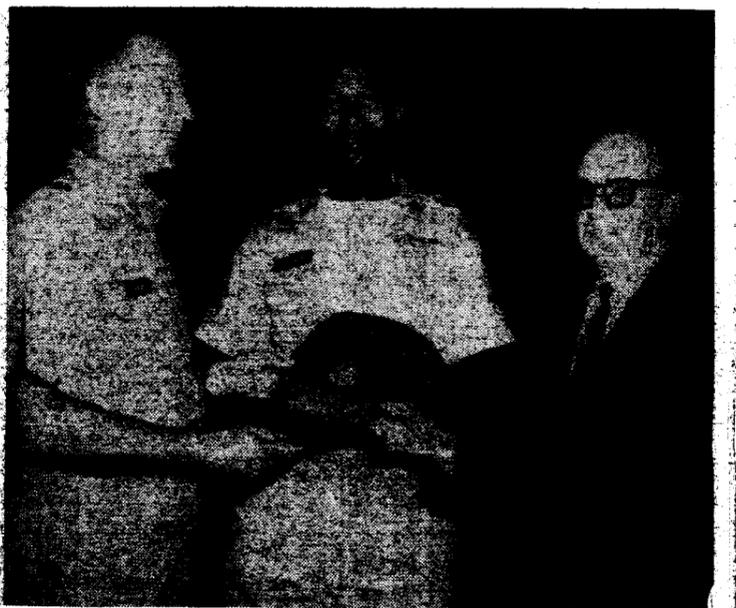
ment repair course and PFC Robert D. Severt, Morris, Mich., having an 87.6 in the HAWK continuous wave radar repair course.

ABSENTEE BALLOTS MAY BE OBTAINED UPON REQUEST

WASHINGTON (AP) — Primary elections have been scheduled in July by one state and in August by 19 states to select candidates for general elections Nov. 3, 1970. The primary in Virginia will be July 14; Idaho, Kansas, Michigan and Missouri Aug. 4; Tennessee Aug. 6; Wyoming Aug. 18; and Alaska, Arkansas and Oklahoma Aug. 25.

Qualified armed forces members and their spouses and dependents may obtain an absentee ballot by requesting such on the Federal Post Card Application (Standard Form 76, revised 1966). It is distributed by the U.S. Government through the General Services Administration.

Unit voting officers should consult "Voting Information 1970," Department of the Army Pamphlet 360-303, for detailed information concerning each state's primary and general election voting procedures.



OUTSTANDING SUGGESTORS — MSG Eddie Bolden, (center) NCOIC Combat Support Missile Division-3, beams with pride as he accepts a plaque emblematic of the outstanding division in the Armywide suggestion campaign at the Missile and Munitions Center and School. Through February and March this year, the division turned in over 135 suggestions and cost reduction ideas, more than the other two divisions of the Land Combat Department. Even though personnel in the division are primarily missile-orientated the suggestions ranged from traffic safety, to equipment modifications. With MSG Bolden is the chief of the department, Col. Alfred J. Grigsby, Jr., and Richard W. Hewer, acting division chief.



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