

The Redstone Rocket

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JULY 15, 1970

Arsenal-Wide

Spot News

Dial 112

Four Granted High Army Civilian Accolade

Joy Retires With Third MCS Award

Few government workers can boast of starting their career on New Year's Day, but Ken Joy, Chief of the Product Assurance and Test Management Office, who retires at the Army Missile Command on July 28, actually started work for the government as an elevator operator in the House of Representatives on January 1, 1934.

Looking back on a career that has spanned 37 years of Federal service, Joy recalled his first job paid \$1,080 per year less 15 percent for the Hoover Economy Act and that is a far cry from the salaries of today.

Shortly after joining government service, Joy transferred to the Chief of Ordnance Office, U. S. Army Ordnance Corps and stayed with that organization until his assignment to Redstone Arsenal in 1959.

All of his work at the Missile Command has been in the area of Product Assurance, but Joy recalled that 30 years ago it was known as inspection, where men with gauges went around checking to see if products measured up to specifications set forth by the Army.

Since that time he has seen the old inspection system expand into a broad spectrum of disciplines such as quality engineering, quality assurance, reliability engineering, maintainability engineering, systems effectiveness and product assurance reliability.

Used Special's

During the early stages of the product assurance program at Redstone, Joy was one of the first to utilize special's. He realized (See JOY RETIRES on Page 3)

Gen. Antonelli Gets Second Star

Two high ranking Army Materiel Command officers have been elevated to the rank of Major General in separate ceremonies held recently at AMC headquarters in Washington.

Gen. F. J. Chesarek presided over the ceremonies in which the second star was pinned on Generals Theodore Antonelli and James G. Kalergis.

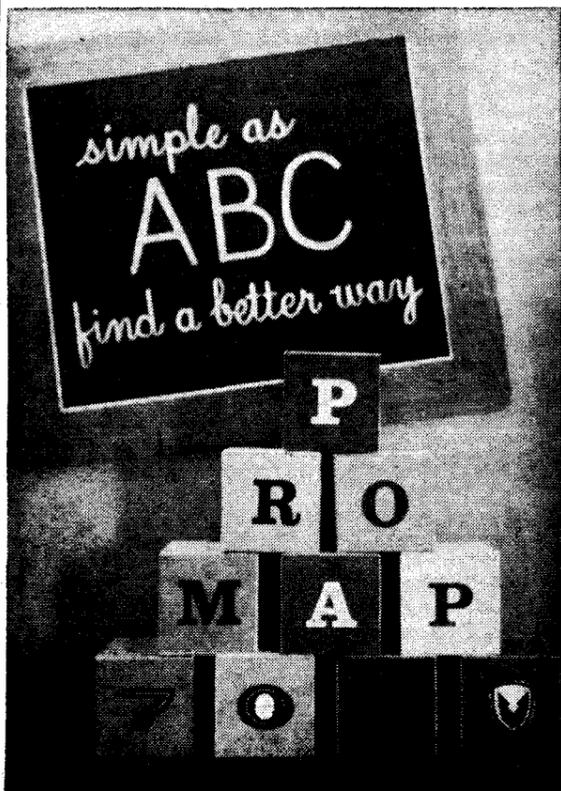
A former Chief of Transportation for the Army Ordnance Missile Command, Gen. Antonelli is presently serving as Director of Distribution and Transportation for the Materiel Command. He has been assigned to AMC headquarters since January 1969 and assumed his present position in June of the same year.

An infantry officer in the European Theater during World War II, he accepted a regular commission in the Transportation Corps in 1947 and since that time has served a series of progressively responsible tours, including the Redstone assignment.

Gen. Kalergis received his second star and was named Deputy Commanding General for Logistic Support by Gen. Chesarek.

In this new assignment, his responsibilities will center on AMC's support of the Army in the field. (See EX-RSA on Page 2)

Do Your Own Thing - Better



Everybody can do his own thing in the PROMAP-70 program—even designing a display to spread the word. The unique display which carries the PROMAP message, even a child can understand, was designed and constructed by John Kubilis, Chief of Visual Arts & Presentation Division, and Marvin Thomas, Visual Information Specialist. The display is located in A wing, second floor of Bldg. 5250.



Three Cited For Missile Plan Work

Three employees of the Research and Engineering Directorate are the latest Missile Command recipients of the Department of Army's Meritorious Civilian Service Award.

Maj. Gen. Edwin Donley presented the citations for individual achievement to Dr. Julian Kobler, Edward Dobbins and Jesse Frampton. The awards were made to the three for their outstanding contributions to the accomplishment of the Command's research and engineering effort.

In making the presentations, the Commanding General of the Missile Command credited Dr. Kobler, Dobbins and Frampton with being the "prime movers" in the development of the Army Missile Plan.

He said they were instrumental in "rolling up into one document a brilliant analysis of where the Army missile program stands, where it hopes to go, and the difficulties that are to be encountered along the way."

Gen. Donley added, "They have brought order—and comprehension—to what is basically a very disorderly process, the evolution of new weapons."

Dr. Kobler is a physical science administrator and serves as Director of the Redstone Scientific Information Center. Dobbins is a supervisory aerospace engineer and Frampton is a supervisory management systems officer.

They were assigned to the Technology Planning Office in August 1968 where they recognized an urgent need to develop a means of correlating and applying requirements, concepts, technology advances and resources on a sound priority basis.

They determined that such a plan was essential if the Missile Command was to realize meaningful short, mid, and long range planning for future missile systems.

The Missile Plan has brought high praise from virtually all echelons. (See 3 CITED on Page 3)

Getting To Know You—

People who work in Lance should know what Lance is and how it works. Right?

Who'd argue with that?

So the Lance Project Office took some newly assigned people, introduced them to Lance, told them how the battlefield missile system works and topped off the orientation with a display of Lance missileery and ground support equipment.

"We have some new faces as a result of the recent reduction-in-force," the Lance Project Office said. "So we felt it would be helpful to hold a special briefing for these newcomers."

Approximately 80 got the full treatment last week during a day-long orientation at Bldg. 5250.

What they got was a one-day version of a two-day "staff planner's course" which was given to all Army agencies last winter.

Finding out about Lance were people from throughout Army Missile Command directorates, staff offices, Lance Project Office and the Army Missile and Munitions Center and School.

Sponsored by the Lance System Support Division, training was conducted by four instructors from the prime contractor, LTV Aerospace Corporation's Missile Systems Division—Michigan.

Robert Lowery Leaves For Electronic Command

Robert C. Lowery ends 14 years service as a key civilian employee of the Army Missile Command and its predecessor agencies here tomorrow to accept a new position of greater responsibility at the U.S. Army Electronics Command.

Lowery assumes new duties next week at Ft. Monmouth, N.J., as comptroller of the Electronics Command, like the Missile Command, a major commodity command of the U.S. Army Materiel Command.

He had served for several years as the Missile Command's Director of Programs after moving to Redstone Arsenal in 1956 from the Pittsburgh Ordnance District.

Long an exponent of government employee involvement in civic affairs, Lowery practiced what he preached.

His transfer has compelled his resignation as president and member of the board of directors of the Huntsville Kiwanis Club. He wrote and produced the club's annual Ki-

wanis Kapers this year.

He is also vacating positions as Chairman of Explorers for the Tennessee Valley Council, Boy Scouts of America, and for many years served as a scoutmaster and explorer advisor in Huntsville. He also was treasurer of the Huntsville Little Theater, an elder in the Presbyterian Church and was active in the Community Chorus.

Lowery is a past president of the local Chapter of the Federal Government Accountants Assn. and was active in local activities of the Association of the U.S. Army and American Ordnance Association.

Son of the late Mr. and Mrs. Charles B. Lowery of Wooster, Ohio, Lowery is married to the former Leona Duncan of Killbuck, Ohio.

Mrs. Lowery has taught for many years in the Huntsville school system, recently was named Professional Teacher of the Year and is a former State Presi-

Black Promoted To Office Chief

Robert O. Black, who recently returned to the Missile Command after completing a year of graduate study at Massachusetts Institute of Technology, has been named acting chief of the Product Assurance and Test Management Office.

Maj. Gen. Edwin Donley announced the selection of Black early this week. He succeeds Ken Joy who retires this month.

The new office chief headed the Systems Assessment Division of PATMO. He was a semi-finalist in the judging for the Arthur S. Flemming award in 1968 and a year later was named for one of the coveted Alfred P. Sloan Fellowships.



BEST MESS IN AMC—MG Edwin I. Donley (right) Commanding General of the Army Missile Command, presents a plaque for the best mess in the Army Materiel Command to CW2 Dwight F. Hurd, Mess Officer of the MICOM Consolidated Mess. In addition to the AMC award, 18 staff members received the Phillip A. Connelly Award as finalists in an Army wide program to improve food service.

The Redstone Rocket

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

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Rocket Ruminations

There is nothing so stupid as an educated man, if you get him off the thing he was educated in. —Will Rogers



Off The Top

Most people who save money regularly and consider savings a budget item like their groceries, car payment, rent and utilities, clothings, entertainment and the telephone bill, follow this simple rule: **Savings come off the top.**

They put aside their savings first and then use the rest of their pay for living expenses. This way, they don't miss what they don't have in their hands, and they don't kid themselves by saying that they will have some money left at the end of the month to put into savings.

Furthermore, when their monthly income increases through promotion, a general pay raise such as the recent one of 8.1 per cent, or a longevity pay increase, they earmark part of that new money for savings before they get accustomed to having it. That way they are not faced with that question unanswerable by many of us: Where did that last pay raise go?

Right now you can put your money to work for you in several profitable ways. Savings accounts in banks and other savings institutions, where deposits are insured by the Government, are paying high interest rates. U.S. Savings Bonds are paying the highest interest rate in their history. And, for servicemen and women overseas the Uniformed Services Savings Deposit Program pays interest at the rate of 10 per cent per year, compounded quarterly on deposits up to \$10,000.

If you save by depositing part of your earnings in the Uniformed Services Deposit Program or by buying bonds, you also will be helping your government achieve two specific goals of its own.

The first of these is the reduction in our country's balance of payments. The money you put into savings while stationed overseas reduces the number of dollars that country has for buying our reserve stocks of gold.

When you save money by buying U. S. Savings Bonds you are helping to ease the pressure that pushes prices up and leads to inflation.

Thus, in helping the Government in these goals you also are helping to protect your own money, both in your savings and in your daily spending. (AFPS)

EX-RSA

(Continued From Page 1)

and he will command the Army depots in the continental United States.

Before being assigned to AMC in 1969, General Kalergis spent 18 months in Vietnam as I Field Force Artillery Commander and later as Chief of Staff for I Force.

LOWERY

(Continued From Page 1)

dent of the Alabama Classroom Teachers Assn.

Lowery, who is a colonel in the Army Reserve, also was an instructor in the Industrial College of the Armed Forces group study course in the U.S. Army Reserve School here.

He graduated from the Industrial College in 1968, holds a master's degree in business administration from Ohio State and a BS in business administration from the College of Wooster.

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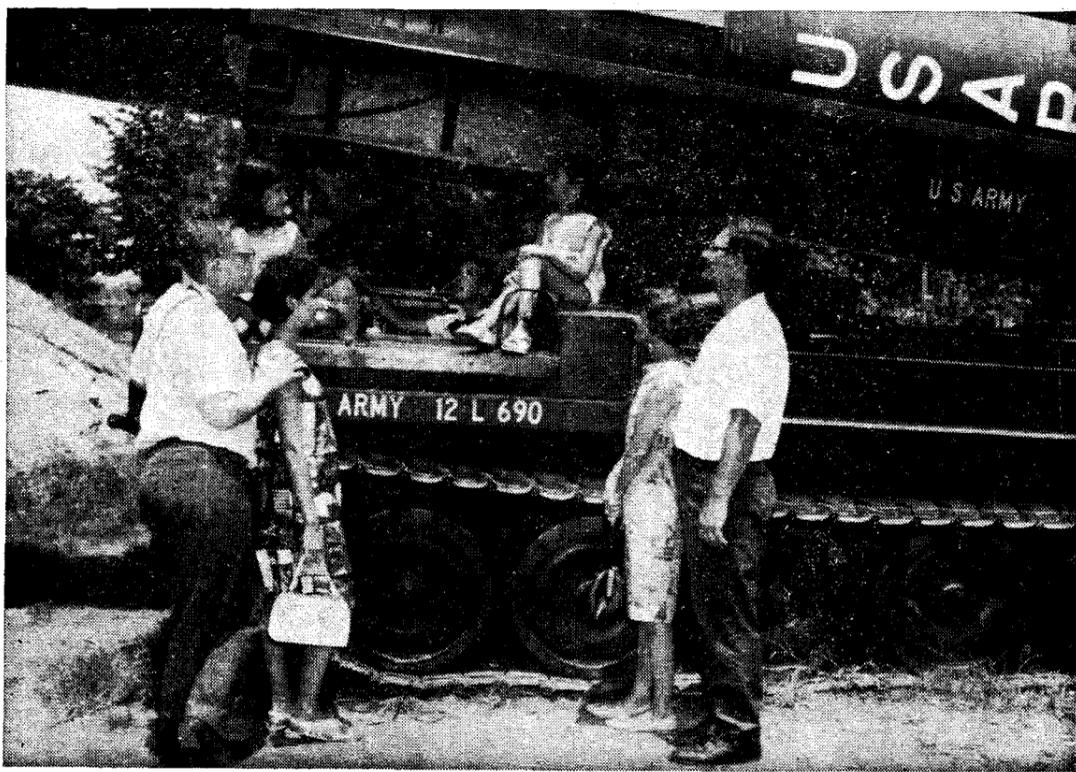
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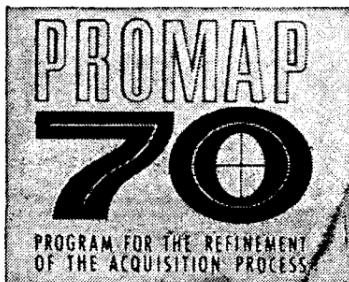
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100,000TH VISITOR, PLUS FIVE—A family from San Bernardino, Calif., tilted the magic figure of 100,000th visitor to the Alabama Space and Rocket Center as guests of a daughter and son-in-law stationed at Redstone Arsenal. Mr. and Mrs. Dominic Catalano spent a part of their vacation with SP4 and Mrs. David Gibal. From left are the Gibals, Tina, Paul and Maria Catalano and their parents. The trophy they took home was a model of the Saturn V space vehicle. SP4 Gibal works in Pershing Maintenance at the Missile and Munitions Center and School.

Reduced Costs Aim Of Newly Established Office

Since the Army Materiel Command's Program for the Refinement of the Materiel Acquisition Process (PROMAP-70) involves im-



proving the quality and reducing the costs in the procurement of weapons and equipment, AMC's newly-established Army Procurement Research Office (APRO) is

helping PROMAP-70 task directors in an effort to solve some of their problems in the procurement field.

The APRO is currently working on the following projects:

- More Realistic Cost Estimating in Weapons Systems Acquisition.
- Effectiveness in Contract Incentives.
- Validity of Delivery Requirements.
- Contractor and Government Use of the Defense Materials System.
- Transmission of Procurement Technical Requirements.
- Better Procurement Techniques Achievable through Expanded Usage of Life Cycle Cost Technique.
- Production Cost Growth.

The US Army Procurement Research Office was recently formed as a part of the Army's Logistics Management Center (USALMC) at Fort Lee, Virginia, with an Army-wide responsibility for procurement research. An element of the USALMC's Institute of Logistics Research, the Office has the primary mission of conducting research studies leading to improved Army-wide procurement management.

It is charged with responsibility for developing more effective procurement techniques, including new types of contracts, innovative procurement methods and pricing arrangements. APRO is currently testing these concepts using advanced scientific methodology.

The Army Procurement Research Office is now fully staffed with 20 persons—sixteen of whom are in the professional category. Personnel include procurement analysts, economists, a mathematician, a statistician, an operations research analyst, a systems analyst, and a computer programmer.

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THE JOYS RETIRE—Tommie and Ken Joy collect certificates and pictures off the wall as they get ready for retirement. Ken is retiring after 37 years service on July 28, and Tommie is leaving with more than 18 years government service. Ken has served as Chief of the Product Assurance and Test Management Office at the Army Missile Command and Tommie has been secretary to the Director, Management Information Systems. They plan to retire in Cape Coral, Florida.



MERITORIOUS ACHIEVEMENT—Edward Dobbins (left) and Jesse Frampton await their turn as Maj. Gen. Edwin Donley pins the Meritorious Civilian Service award on Dr. Julian Kobler. The three employees of the Research and Engineering Directorate were recognized for their leadership in preparing the Army Missile Plan. The Commanding General of the Missile Command credited the three with, "bringing order, and comprehension, to what is basically a very disorderly process—the evolution of new weapons."

Bachelor Officer Mixer On Tuesday

3 CITED
(Continued From Page 1)

The bachelor officer is not being neglected at Redstone Arsenal. Dates are simply not available on most Army installations, and Redstone is no exception.

The Redstone Billeting Fund Council has sought to fill this obvious void by holding regular Bachelor Officer Mixers where local single gals are invited out to the Redstone Officers' Open Mess to meet Redstone's large crop of single officers.

Second lieutenant Jerry Walker of the Billeting Fund Council announces that the next scheduled Bachelor Officers' Mixer will be held in the ballroom at the Officers' Open Mess on Tuesday, July 21 from 1930 to 2330 hours. The

elons of the Army.

The Missile Plan is highly regarded throughout the Department of Army as a worthy technical and resources plan and has brought high praise to the Missile Command from the Army's Chief of Staff, the Chief of Research and Development and many other top ranking Department of Defense officials.

Gators, a popular rock band from Nashville, will provide music.

Lieutenant Walker added that admittance and hors d'oeuvres are free, and the dress will be casual. All single officers and ladies are invited.

JOY RETIRES

(Continued From Page 1)

there had to be assurance that when a missile was fired under field conditions, it would do an effective job.

This meant there had to be an expert staff of missile specialists, electronics and mechanical engineers, mathematicians and statisticians to replace the "man with the gauge" from the old inspection days before product assurance.

Looking back on his career, Joy had praise for many of the civilian and military colleagues with whom he had worked. He pointed out that many of the young officers he had worked with went on to become generals. He cited Brig. Gen. Merle DeGuire, whom he knew as a captain; Lt. Gen. Jean Engler, when he was a Major; Maj. Gen. Frances J. McMorro when he was a captain; and others whose names might not be as familiar at Redstone Arsenal.

One of the highlights of Joy's career was his job as assistant to Dr. Samuel Gordon Green who was then Chief, Engineering Branch, Small Arms, Chief of Ordnance Office. Green held a total of 27 patents on the Browning series of machine guns and is recognized in the Ordnance Corps bible, "Hayes Elements of Ordnance."

Throughout his career, Joy has consistently tried new and different ideas that have saved money for the government and earned him recognition for his ability.

Layaway

Following World War II, he was given the job of planning and managing the layaway of 3 billion dollars worth of production equipment and machinery that had been used to produce combat equipment, but was no longer needed for the peacetime economy.

Exploring possible locations where the machinery would be safe from corrosion, dust and humidity, Joy hit upon the idea of using limestone mines near Philadelphia, Pa., and Atchison, Kansas, to store the equipment. These sites proved to be ideal because of the dry atmosphere and the controlled year around temperatures. This equipment is still in storage there.

Among his most memorable assignments, Joy lists his job as assistant to Brig. Gen. John Bruce Medaris when he was Chief, Industrial Division, Office, Chief of Ordnance. While serving in that capacity, Joy briefed Secretary of Defense, Charles Wilson, and the Service Secretaries on the Mobilization Base Layaway Program.

Later Joy was to join his old boss, Maj. Gen. Medaris at Redstone Arsenal where he was head

of the Army's missile program.

For Joy, his government career has been one high point after another. He has received three meritorious civilian service and one exceptional civilian service awards.

His first meritorious award came in 1946 when he established economical and practical procedures for the manufacture of rifles and carbines for the Army, Navy and Marine Corps.

The exceptional service award came in 1959 when he designed and developed a revolutionary type of inflatable structure that provided the Army with a highly mobile dehumidified storage area.

In 1964, Joy received his second meritorious service award for outstanding contributions to government and civilian Quality and Reliability programs at the Missile Command.

Quality Weapons

Joy received his third meritorious service award from Maj. Gen. Edwin I. Donley, Commanding General, of the Missile Command, who had this to say: "The personal contributions this man has made to the Army and specifically to the quality Army weapons and materiel are truly outstanding."

His wife Esther, better known at MICOM as Tommie, received the Department of Army Certificate of Achievement from Gen. Donley.

Tommie, who is secretary to the Director, Management Information Services; has been at MICOM for nine years and has a total of over 18 years federal service.

She and Ken met and married while they were working for the government and attending George Washington University in 1939.

During World War II she worked for the Foreign Economic Administration plotting bombing missions on enemy oil installations. She worked for the Federal Commodities Corp. back in the days of the first food stamp program for surplus commodities.

After taking time out to raise her two sons, she returned to government service.

Now that her husband is retiring, Tommie is leaving government service.

The Joys plan to retire to their home at Cape Coral, Florida.

Ken, who worked as a professional golfer to pay his tuition through Albion College, hopes to play golf and get back to shooting in the 70's consistently again. He also plans to do some fishing and has his own dock and seawall behind his house in Florida.

While Tommie doesn't care for fishing, she does like golf and music and plays the organ.

When Ken and Tommie Joy leave Redstone they will leave behind many friends and associates who wish them all the enjoyment possible for their retirement.



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Ailes Discusses Army Problems At AUSA Here

America's prospects for peace are good today and the threat from abroad is reduced because the United States has increased its military strength and demonstrated beyond doubt its willingness to employ that strength in the interest of peace.

Those were the remarks of Stephen Ailes, former Secretary of the Army under President Lyndon Johnson, in a speech at the annual meeting of the Tennessee Valley Chapter, Association of the U. S. Army Thursday night at the Redstone Officers Open Mess.

"... I believe," said Ailes, "... that it is critically important for the United States to remain militarily strong. I am convinced that prospects for peace are bright today and that the threat from abroad is reduced today. Why? Because in the last ten years, this country has substantially increased its military strength and demonstrated beyond doubt its willingness to employ that strength in the interest of peace."

New officers installed during the annual meeting were C. C. Lee, president; C. H. Grace, first vice president; P. K. Schaeppi, second vice president; H. E. Meyer, Jr., secretary, and J. J. Weed, treasurer; C. E. DeRemer, president, AUSA 3rd region was installing officer.

Former Secretary Ailes also noted that today's youth tend to discount threats to America's security and feel that such threats have died. "Some contend that the threat never existed or that if it did it has disappeared by now."

"This view is widely held among young people today; this disagreement about the true nature of the world in which we live is responsible for the difference in view between the generations on many of our national problems."

"Here I can only say that it is worth remembering that the Cuban Missile Crisis of Octo-

ber, 1962, which is the last time we faced a clearly visible major threat to our national security at home, occurred when the college graduates of this June were barely into junior high school."

"The Army, and indeed a strong and effective national defense program, needs our support today probably more than at any time in the recent past. The Vietnam war is an unpopular war throughout most of the country. It is the longest war in our history, it is the most thoroughly reported and photographed war in our history, (I should say the worst reported war in our history) and it is probably the most frustrating war for the simple reason that military successes, however real, are simply not measurable or probable."

"Back home, cost overruns on huge procurement projects, some highly unfortunate developments within the Army, the Green Beret case, the Sergeant Major scandal, and finally the Mai Lai incident, have provided a great deal of ammunition for opponents of the military—ammunition which is willingly used by people who wish to avoid military service, who wish to divert Federal funds to non-military projects, or who simply are looking for an issue on which to wage a political campaign."

"I talk about supporting the Army—I want to make it very clear that the Army is very effective in supporting itself. Perhaps many of you have heard General Wheeler or General Harold K. Johnson or General Westmoreland, and certainly Secretary Stan Resor, explaining what the Army is up to and what it is all about in forceful and effective fashion. Sometimes even our sharp-tongued student radicals find themselves overmatched."

"Criticism of the Army, and of the other services, is in order on some of these sub-

jects, but the essential strength and validity of the Army remains absolutely unimpaired."

"Certainly many military officers were over optimistic about the Vietnam operation at the beginning and at many points along the line. The fact remains that our senior military are an immensely able, highly motivated group of men second to none anywhere in the world, or in our history."

Ailes also said that with the end of the Vietnam conflict, there will be a decrease in the size of the Army. He charged AUSA with the responsibility of calling attention to the needs of the service in order to protect the national security.

"It follows that as the Vietnam operation is scaled down, the Army will necessarily be reduced in size and will head back to the size force with which I was familiar."

"There has been some discussion by the Administration about strategic objectives, and the number of contingencies with which the Army is to be prepared for in the future. The size of the Army and the configuration of the Army depend on the number of and the nature of the contingencies with which, as a matter of national policy, we wish to be prepared to cope. This is an immensely complicated problem involving high policy on the one hand, and the most intricate of planning calculations on the other."

"Thus, debates about the size of the Army tend to be wide of the mark. It should be the role of AUSA in the period that lies ahead to focus attention on the underlying policy issue, on the threat which we face (and the fact that we face a threat), and on whether or not the forces that are planned will be able to cope with it, not on some target size for the Army."

In referring to the draft and



DISCUSSING AUSA BUSINESS—Stephen Ailes (center) former Secretary of the Army who was principal speaker last week during the annual meeting of the Tennessee Valley Chapter, Association of the U. S. Army, chats with Walter F. Eigenbrod (left), outgoing chapter President, and C. C. Lee, president for the coming year.

draft reform, the former Army secretary voiced approval of reform, but rejected the idea that the draft should be abolished.

"The point is that in this period we should worry about draft reform, civilianization of military jobs where desirable, efficient relating of force structure to strategic needs. Those words 'Volunteer Army' have a great appeal. All of us are highly in favor of improved pay and working conditions for the man in uniform."

"Where I part company with the proposal in the Gates Report and where AUSA parted company with it in its excellent white paper, 'Protecting the Free Society,' issued last April, is over the proposal that the draft be abolished, to be reinstated only by Act of Congress after public debate."

"The draft signifies that we, or some of us at least, have a military obligation—that all young men have what the lawyers would call an inchoate one until the numbers are drawn. This 'obligation,' so defined, supports the enlistment programs in all the services today, the ROTC program in the colleges, and the Reserve and National Guard programs."

"Making the Army tour more attractive will undoubtedly cut down the number of people brought into the service through the draft, a fact I saw demonstrated by a mild recession in the early '60's which increased enlistments to the point where the draft was down to one man per draft

board per month. But removing the draft all together is a different story."

"Based on my own observation of this situation for the last ten years, I do not for a minute believe that the quantitative and qualitative needs of the services, even when they are reduced to post-Vietnam levels, can be met by any increase in benefits which the public will be prepared to pay for."

"Clearly without the draft, a build up, and I have seen about four, would be impossible; no one even argues that increased enlistments could be obtained by increased benefits during such a period."

"Proposals to recruit and retain reserves through increased benefits ignore the fact that 75 percent of civilian enlistments into the reserves are draft motivated."

"The ROTC program for other than ROTC scholarship students on campuses where ROTC is not a strong and central part of the college tradition would cease to exist."

And, finally, grave doubts have to exist as to whether we should have an all professional army with none of the leavening and moderating influence provided by a large input of new short termers from civilian life each year."

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Thomas P. Tytula, an Aerospace Engineer with the Army Missile Command is collaborating with Dr. Ferdinand H. Mitchell, professor at the University of South Alabama, Mobile on a series of seminars on Decision Analysis being given at Redstone Arsenal.

Based on his study of risk analysis and the factors involved in decision-making, Tytula feels he has come up with some important facts that will aid management in this vital area.

As Tytula explains it, "Everytime a project manager or an engineer makes a decision, he takes a risk. In assessing the risks, he must consider the degree of un-

certainty involved in the decision and what happens if the uncertainty becomes a reality. Furthermore, the manager needs to know what he stands to gain or lose for all possible outcomes of his decision."

Using a Nevada-type gambling house and the Missile Command's



Research and Engineering Directorate for comparison, Tytula points out that both gamble on the end result, but each has a different set of rules.

With the gambling house operating on a .001 percent margin, the establishment makes money because over a long period of time the odds and the process have become well defined. For instance, in a dice game the chances are six out of the 36 that a player will throw a seven . . . and seven loses for the player. The chances of throwing a two or "snakeeyes" and a twelve or "boxcars" is one out of 36 and the player wins. Other point combinations and the corresponding odds have been figured on hundreds of thousands of casts of the dice . . . so while a few players win, more lose and the house makes money.

In the case of Research and Engineering, the odds on producing a successful missile system are not well defined.

The process is complicated and mathematic approximations make it difficult for the engineers to be sure of the outcome. Further-

more, the situation differs in research and engineering since the process happens only once for a particular missile system.

To combat the unknowns and the variables, research engineers build models and conduct tests to narrow the uncertainties.

Since principles used in developing new missile systems vary with the purpose of the missile, engineers do not have the well defined process and the long established odds in their favor. However, repeated tests narrow the uncertainty and provide vital information needed for analysis.

The decision-maker's role is best illustrated by the project manager who must make vital decisions concerning his particular missile system.

Based on information from his engineers and scientists, the project manager assesses the risks, figures what the payoffs are and what the odds are that they will happen that way. To aid him in making the right decision, the project manager has a minimum of three factors he can trade and still accomplish his objective.

He can trade time and money for higher performance, accept lower performance and reduce costs or trade time or money and keep same performance and make his decision in view of his own preference of the alternatives.

Should the project manager exceed his thresholds (money, materiel and time) he loses his role of decision-maker and it passes on to a higher authority. When this happens facts and data are presented to aid the higher authority in making the right decision.

Under the Army Materiel Command's PROMAP-70 program, engineers and scientists are working to develop techniques for getting information that will support and aid decision-makers. One of the most important objectives is to come up with a technique to describe complex inter-actions among technical performance, time to develop, cost to develop, and the uncertainties in these areas.

Tytula is a man with a mission who firmly believes that decision-making can become an art and a well defined process when a



DECISIONS—DECISIONS! Tom F. Tytula, Aerospace Engineer, explains the risks and factors involved in decision-making to Harry F. Vincent, Project Director, Research and Engineering Directorate. Tytula is collaborating with Dr. Ferdinand H. Mitchell, professor at the University of South Alabama, Mobile, on a series of seminars on Decision Analysis being given at Redstone Arsenal.

mathematical and logical approach is used.

In fact the young engineer with the crew cut will discuss the subject anywhere anytime he finds a receptive audience. Once the discussion is underway it is easy to see that he has performed extensive research and has a comprehensive knowledge of the problems involving decision-making in research and engineering.

For Tytula the rocket and missile business has been his entire career. After graduation from Notre Dame High School in Chattanooga, Tenn., in 1955, he attended Auburn University. While attending Auburn, he participated in the Cooperative Student Program working at the Army Rocket and Guided Missile Agency from December 1955 to August 1960.

Upon graduation with high honors and a Bachelor's Degree in Aeronautical Engineering, Tytula went to work as an Aerospace Research Engineer in the Analysis and Advanced Design Laboratory. His subsequent assignments at Redstone have been as Aerospace

Research Engineer with the Future Missile Systems Division, General Engineer with the Laser Missile Systems Branch, and Aerospace Engineer with the Future Missile Systems Division, MISTIC Advanced Development Program Office.

While working in R&E, Tytula attended the Educational Program for Systematic Analysis at the Massachusetts Institute of Technology and is presently working for his Master's Degree in Operations Research at the University of Alabama, Huntsville.

He is the co-author of an article on Development of a High Velocity Airgun, and author of a Technical Development Plan for an Aerial Artillery Weapon System and Technical Development Plan for a Laser Semi-active Weapon System.

According to Dr. John L. McDaniel, Director, Research and Engineering Directorate, "Tom Tytula's dedicated work in engineering and decision-making is indicative of the caliber of men who design and develop the Army's missile systems."

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Army Teams Rule City Women's Softball Play

The Civilian Welfare Fund grabbed off both first and second place in the Huntsville Women's Softball league as the nine-team league wound up regular season play this week, and got ready for the post season playoffs.

The Missile Command captured the regular season title for the second straight year with Safeguard already in the runner up slot. The two teams completed their schedules against one another last night.

In last week's play the MICOM gals handed the Marshall Center an 8-7 setback and then walked all over C&C, 28-6. Safeguard started on a losing note, dropping a 12-9 decision to Boeing but came back to take C&C, 15-6, and Computer Science, 19-6.

The Missile Command girls secured the title with a record of 14 wins and a single loss going into last night's encounter while the ABM team won eleven out of fifteen.

Last year's playoff winners from NASA staged a final inning rally but fell a run short in their hopes of springing a big upset on the championship bound MICOM girls.

Kitty Swain homered for a pair of runs in the first and doubled in another pair in the third as MICOM took an 8-3 lead into the seventh. But four hits and a pair of errors sent four MARS runners scampering home and left the tying and winning runs on with one out.

Here Gladys Hill called a halt to the uprising by retiring the next two hitters on a pop up and an infield grounder to preserve the win.

The win over C&C was more of a field day for the MICOM hitters who bashed out a total of 31 hits. They broke the game open in the second when 14 girls went to the plate and came home with ten runs.

Kathie Loeth was the leader among a whole host of hitters with a six for six performance that included two triples and two doubles. Barbara Ikard was almost as prolific with five safe blows and Gladys Hill collected four more in addition to hurling another victory.

Safeguard got triples from June Childress and Faye Tapper but it wasn't enough to prevent Boeing from turning the tables in their game.

Against C&C Childress banged

out a round tripper and Gretchen Bigham delivered four straight hits as Claudelle Griggs hung up another triumph.

The ABM girls put all their hitting together for a 30-hit assault to romping over CSC in their third appearance of the week. Childress homered for the second night in a row and added a double while Faye Tapper collected a double and a three baser.

Carolyn Bell was the most productive hit maker with five for five while Bigham and Carolyn Cramer each got four out of five and Carol Hutchens banged out a pair of doubles.

MICOM Shooters Blank Opposition

Civilian Welfare Fund shooters scored a pair of sweeps last week as competition resumed in the Huntsville Industrial Skeet league at the Pine Bluff Skeet Club.

The MICOM Blues moved to within two points of the league lead in blanking the Boeing Seconds and the MICOM duplicated that feat in taking all three points in their match with the Marshall Center's second team.

The Marshall Firsts top the league after four weeks of play with

The week started with another win by the first place slugging 6th ETC. While enroute to a 10-0 victory over 9th ETC, Wayne Parks, the 6th's ace pitcher, gave up only one hit to John Tardiff in the top of the second.

As the 9th struggled scorelessly through each inning, the 6th chalked up five hits; a triple by Ed Boyd, John Reynolds' double in the second, and singles by Parks, Timmy Kalaesik and Gary Elber.

Later in the week, the 6th added win no. 11 against no defeats with a 9-1 romp over UTC. Wayne Parks scattered two hits giving up singles to Anthony Wade and Bob Jernigan. The 6th exploded for four runs in the first inning and added

12 points. The host Pine Bluff squad is a point behind MARS and another point ahead of the Blues.

Bob Noack and James Weaver shared scoring honors for the winning Blue effort, each bursting 48 out of a possible 50 targets.

The Red win was paced by a pair of 49's turned in by Kelly Grider and Bob Thomas.

In next Tuesday's matches the Blues go up against the league leaders while the Reds test the Sperry team.

Claims for a veteran's burial expense, not to exceed \$250, may be filed within two years by the undertaker or person who bore the expense.

three in the third, one in the fifth and another tally in the sixth inning. Stephen Baker supplied the power at the plate for the league leading 6th with two singles.

Prior to encountering the mighty 6th, UTC built a 11-2 lead over SOC to win 16-8. After the first inning, no further action was seen in UTC-land until the fourth and fifth when Howard Bukoski and Bruce Barham singled and Ray Sweet rapped a double, bringing the score to 15-7. Final scorers were UTC's Barham and SOC's Mike Wethington.

Tuesday was a black day for the 7th ETC as the fighting 1st, on Mike Shelfy's shut out pitching came through with a 12-0 win. Boosting the lead of the 1st were homers by Ron Patrick and Dave Ciepluch and runs by Don Goodman, Bill McNealy, Bob Sheldon, Chuck Adamson, and the winning pitcher, Sheldy.

That same day at Field No. 2, Charlie Brooks, Co. A's hurler, gave up only five hits in Alphas 10-3 win over the 5th ETC.

The Dynamic Deltas squeaked past Co. C with a 14-11 win. Charlie Company tallied five hits, while Delta charged through with nine. Although Delta led Charlie throughout the game, Charlie came back strong with 10 runs in the last three innings to almost overtake the victorious Delta nine.

CO. C RALLIES
Co. C later rallied back on the

winning track with a 16-2 triumph of 3rd ETC. The Charlie nine rallied from a 2-1 deficit by scoring six runs in the second inning to overpower the 3rd. Gene McKinney and Mike Clune pounded out five hits between them. McKinney had three while Clune rapped two safeties.

Jack Howell rapped three singles and a round tripper in leading MICOM-I to an 18-2 win over SOC. The MICOM bats were loud and clear as the team collected 18 hits. In addition to Howell's four bagger, Bill Lowery, David Pelletier and Joe Wheeler each had home runs. Pelletier also had a single, a two-bagger and a triple.

SOC scored its runs in the fourth inning. John Frece and Dan Peek each had the student officer's their only hits in the game in that inning. Frece opened with a single and scored on a double by Peek. Peek later scored on an error.

The 3rd ETC's four runs in the first and fourth innings weren't enough to overtake UTC's final score of 15. The game was close for the first three innings with the score 3-2, UTC. In the fourth UTC poured on the steam, grabbing four runs to the 3rd's two. While the 3rd remained scoreless in the last two innings, UTC smashed through with eight more runs, for a 15-4 win.

The 95th Cal. edged 227th Ord. in a slugfest 11-10. Each team had 11 hits.

Arsenal Girls Take City Crown

Redstone Sprints won the city girl's 8-12-year-old softball championship Saturday night by beating Dixie Flyers twice.

Sprints won the first game 8-2 and the second 12-8.

In the opener, Carol Withers was the winning pitcher. Cindy Barcus, Tina Ikemire and Deborah Dinkel all had doubles for Redstone. Debbie McCarley had a triple and double for the Flyers.

Deborah Dinkel was the second game's winning pitcher. Marianne Reason's double and single led the Sprints.

Lisa Seaton had a triple and single and Debbie McCarley a triple for the losers.

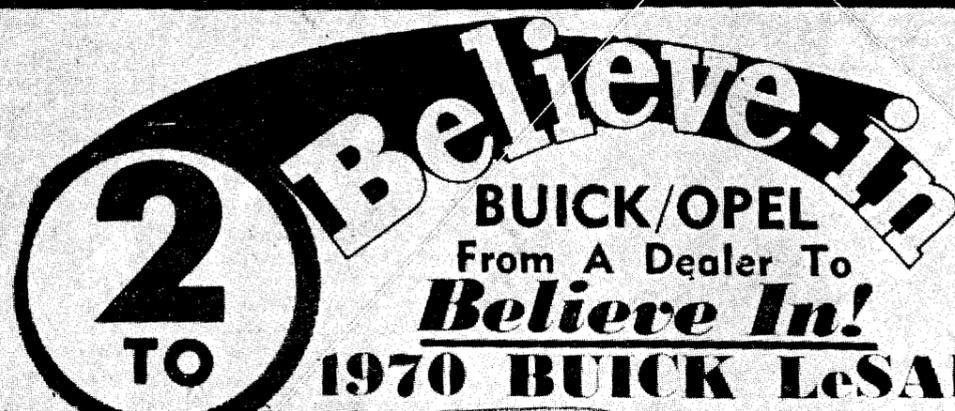
The 13-17-year-old tournament starts tonight at Stoner Field. Finals will be Saturday at Oak Park.

Walker, Churan Score Golf Wins

The 18-hole Golf Group sponsored by the Redstone Officers Wives Club played handicap versus par during Wednesday's playday.

Jane Walker was first with a four-way tie for second among Marian Deppensmith, Edna Hodges, Betty Dow and Joy Mundy.

The 9-hole group played for low gross, low net, low putts with Helen Churan the winner, Ginnie Bowers second and Lila Cooper third.



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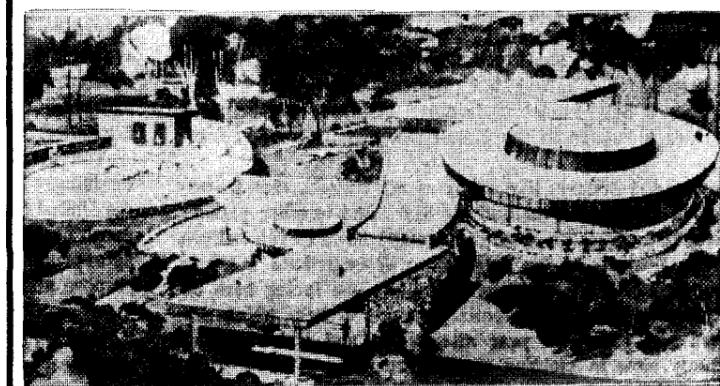
Saddle Club Invites Public For Gymkhana

Members of the Redstone Saddle Club are going to have a Gymkhana this afternoon at 6:00 p.m. in the pasture behind the stable area and the public is invited to come and see the activities.

For the uninitiated, a gymkhana is a series of activities performed by horse and rider in competition with others and results in fun and games for the horses and riders and entertainment for the spectators.



CLUB MEMBERS READY—Some of the members of the Redstone Arsenal Saddle Club line their horses up in preparation for practice in the racing events that will be featured in the Gymkhana this afternoon at 6. The Gymkhana will feature young and old club members in a series of races and activities that is fun and games for participants and spectators alike. Everyone is invited and the activities will be held in the pasture behind the stable area, just off Patton Road and Bob Wallace.



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the course and back to the starting line and the first one back who can throw the potato in a barrel, wins; a flag race where the riders have to pass a flag to another rider and return to the finish line without dropping the flag; a cracker race where the riders and horses run the course and the rider eats a cracker. The first one back at the finish line who has eaten the cracker and can whistle Dixie, wins the race.

Other events include horse jumping for experienced and inexperienced riders, a race for non-riding parents who have to get the horse from one end of the course to the other—any way they can, and a game of musical feed buckets where the horses are moved from feed bucket to feed bucket until the music stops.

According to Mrs. James T. Haynes and Mrs. James H. Walker who set up the program, "The Saddle Club members always have a lot of fun in the gymkhana and provide entertainment for the spectators."

Activities will take place in the field behind the stable area near the Civilian Personnel Office, just off Patton Road and Bob Wallace.



BARREL RACING FORM—Sharon Cave and her horse Jetty practice for the barrel races in the Redstone Saddle Club Gymkhana being held this afternoon at 6 p.m. in the pasture behind the stable area. Members of the Saddle Club are putting on the gymkhana and everyone is invited to come out and see the show. Sharon is the daughter of Capt. and Mrs. John Cave.



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Some Problems Just Disappear Into Thin Air

Weather Plays Important Missile Development Role

Although years have passed since poet John Burroughs wrote that he was born with a chronic anxiety about the weather, the same concern applies daily to men and women of the Army Missile Command's Aerophysics Branch.

Their job, as part of the Research and Engineering Directorate's Physical Sciences Laboratory, is to study the earth's atmosphere and its effects on the performance of Army missiles.

"By analyzing reports from weather stations all over the world, we get a better picture of the earth's atmosphere and can better predict its influence on missile performance," said Dr. Oskar M. Essenwanger, German born scientist and Branch Chief.

The mission of Dr. Essenwanger's staff is not weather forecasting even though it contains Huntsville's best known weatherman, H. D. Bagley. They predict, rather, the effects of weather phenomena on missile trajectories and on-board sensors.

"We could predict the effects of a thunderstorm on a missile's trajectory, given the proper data," Dr. Essenwanger said, "but we would not be predicting where or when a thunderstorm might occur."

Mixed Together

According to Dr. Essenwanger, the earth's atmosphere is a mixture of many things: air, dust particles, water vapor, ice crystals, contaminants and what have you, all mixed together by the uneven heating and rotation of the earth.

Wind and atmospheric density,

however, are the most important factors affecting missile flight. Wind affects the trajectory, direction and dynamic forces of a missile's flight, there must be taken into consideration when the missile is designed.

When the wind blows at high speed in a layer of the atmosphere, a condition known as a wind shear exists. A missile entering a wind shear from a calmer altitude is like a small boat that suddenly hits a raging river running across its path. While a boat might survive such a change of dynamic force, a missile probably wouldn't unless design changes were made.

Studies of the upper atmosphere enable scientists to chart wind shears and calculate the critical angle that will enable a missile to enter a wind shear without coming apart.

Atmospheric density also is directly related to atmospheric heating, Dr. Essenwanger said. The more dense the atmosphere, the greater the friction of the air and the hotter the temperature acting on the missile. By knowing the density of the atmosphere under given conditions, design engineers can spot problem areas which would affect missile performance.

The Aerophysics Branch receives

data from the U. S. Weather Bureau, the U. S. Air Force and from special data collections all over the world. Weather maps and satellite photographs are included in this data.

Bagley, a meteorological technician, is responsible for data analysis. Some data may contain errors or are not adjusted to the Aerophysics Branch computer formats. In those cases, the data are corrected. Aiding in the analysis program is SP4 Glen Jackson who is the only military person assigned to the Branch.

Finding Answers

Once the proper data is collected, the job becomes one of finding the answers which are sought from the data. This task is usually handled by the research physicists, Dr. Dorothy Stewart, Mrs. Novella Billions and Helmut P. Dudel.

Mrs. Helen Boyd, research mathematician and Leonard Daniel, mathematician assist the others in planning and establishing computer programs which can be run on their computer. The computer itself is pretty special.

It houses a special disc memory storage bank which permits it to store a larger selection of data than most computers of its size. Most of the problems in dealing with the atmosphere deal with probability and statistics which the computer is able to handle with ease.

The results are used in one of two ways. Either the data is used to find answers to problems that already exist in missile design or it is kept on file to be used when future missile designers request assistance with areas that may pose problems.

"The Aerophysics Branch has a data bank of atmospheric density information that is unique in the U. S.," said Dr. Essenwanger. "Whenever scientists all over the United States need such information, they often come to us for assistance."

There are times when researchers in the Aerophysics Branch have their problems collecting data since all reporting weather stations have not standardized their recording of atmospheric data.

To simplify data collection, and to make one computer program applicable to all reporting stations in the Branch network, data reporting is done by altitude level instead of pressure level.

"Even so," said Dr. Essenwanger, "We do not have perfect data since the atmosphere is constantly changing and hard to observe. Modern science is continuing to produce better methods of weather observation, and new discoveries about our atmosphere are commonplace."

The Aerophysics Branch at Redstone Arsenal is unique. It possibly is the only place where problems that disappear into thin air are just as important as those that don't.



COMPUTER CHECK—Mrs. Helen Boyd, research mathematician, runs a check on the computer used to process meteorological data. The computer utilizes a disc memory which increases the amount of technical information it can store.



REVIEWING REPORT—Mrs. Novella Billions (left), Mrs. Beatrice Wright, Branch secretary and Dr. O. M. Essenwanger review the manuscript of a report which will aid aerospace engineers in minimizing the effects of the atmosphere on missile performance.



PRINT-OUT—H. D. Bagley (left) and Helmut Dudel review the results of a computer run. From such information, the atmosphere can be studied in relation to density, temperature, wind velocity and other factors which influence missile trajectories.



PROGRAM RUN—SP4 Glen L. Jackson, Dr. Dorothy Stewart and Leonard Daniel begin a computer program run which will provide additional information on the behavior of the earth's atmosphere.

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Water Safety Belongs At Picnic



FAMILY PICNIC—Members of the Tal Bursleson Family enjoy a picnic lunch under the trees at the Civilian Welfare Fund Recreation Area along the Tennessee River. Bursleson, Chief, Maintenance Data Branch, Supply and Maintenance Directorate, his family and guests, enjoy boating and all of the other recreational activities of the area, on a regular basis.



BOAT SAFETY FIRST—Bursleson, back to camera, tells guest Kay Likovetz, daughter Carol, and sons Mike and John, they have to put on their life preservers before they go out in the boat. With so many accidents reported from boating, the Burslesons are playing it safe.



YOU'LL BE SAFE—Young John Bursleson, age 8, stands patiently while Kay Likovetz and brother Mike fasten his life preserver into place. The Burslesons picnic and launch their boat at the Civilian Recreation Area.



NO WATER SKIING—While there is no water skiing allowed in the immediate area around the Civilian Recreation Area, Carol Bursleson and her girl friend Kay Likovetz get ready to load the skis in the boat to take them down the river where skiing is permitted.

GI Insurance Coverage Upped

WASHINGTON (ANF)—Life insurance coverage for servicemen has been increased from \$10,000 to \$15,000 as a result of a bill President Richard Nixon signed into law in June. The new law also covers reservists and members of the National Guard and Reserve Officers' Training Corps (ROTC).

Insurance protection is in force for these groups only during certain training activities and while travelling to and from training areas.

Servicemen on active duty will now pay \$3 instead of \$2 monthly for the increased coverage, while premiums for reservists, members of ROTC and National Guardsmen will be \$1.80 per year.

The law also extends from 120 days to one year the insurance of full-time servicemen who are totally disabled at the time of military separation, if their condition remains unchanged.

Reservists, members of ROTC and National Guard are insured for 90 days after a training period if they suffer a serious disability while training.

Insurance coverage for most servicemen continues for 120 days after separation, during which time they may convert to individual policies to continue protection indefinitely.

The life insurance program for servicemen is supervised by the Veterans Administration, but is provided under a commercial life insurance policy in which about 600 companies participate.

TOUR

The Service Club will sponsor a tour to the new Rocket and Space Center and downtown Huntsville on Saturday, July 18.

The tour bus will leave the Service Club for the Space Center at 11:00 o'clock and continue on the tour from the Space Center to downtown Huntsville at approximately 1 o'clock and return to the Club at 4 o'clock.

ACM PRESENTED IN CEREMONIES

Six officers and five enlisted personnel have been honored in recent Redstone ceremonies with each being awarded the Army Commendation Medal in recognition of their meritorious service over extended periods of time.

The officers cited were, Captains Henry N. Oldham and James D. Asher, Jr., and First Lieutenants Warren K. Miller, Ross D. Reager, James R. Thompson, Jr., and Christian Phillips.

Staff Sergeant Jessie H. Frasier was commended for his outstanding service along with Specialist Fives, Arturo Anchondo, Charles D. Harris, Theodore Z. Hax, and Donald R. Crocker.

VARIETY SHOW

A rock n' roll variety show featuring the "High Boys" band and Trudy Travers vocalists, is scheduled at the Service Club for Sunday, July 19 at 2000 hours.

Tim Tanner, a new member of the band and lead guitarist, has been appearing at the Tamborine Club in Hollywood. He is rated among the top guitarists in the country. Trudy Travers has just completed a long engagement in Atlanta, Ga.

All military personnel are invited to the show.

Sept. 25—Voting Day For Armed Forces

WASHINGTON (AFPS) — September 25 has been designated Armed Forces Voting Day.

In a memorandum to the service secretaries, Deputy Secretary of Defense David Packard asked that every effort be exerted to insure the success of this special occasion.

He told the secretaries to make certain that all eligible individuals of the military community are afforded the means by which they may cast their ballots.

"The right to vote is a product of freedom which was cherished by the American colonists and won in our Revolution," Mr. Packard said. "Every eligible citizen has the obligation to express himself through his ballot. We, as mem-

bers of the United States armed forces, should exercise this fundamental right and fulfill our obligations in this important way."

Movie Schedule

WEDNESDAY, July 15
"A Bullet for Sandoval" (GP)
THURSDAY-FRIDAY, July 16-17
"One More Time" (GP)
INCREASED ADMISSION: adults 50c, children 25c.
SATURDAY, July 18
Walt Disney's "King of the Grizzlies" (G)
SUNDAY-MONDAY, July 19-20
"Too Late The Hero" (GP)
INCREASED ADMISSION: adults 50c, children 25c.
TUESDAY - WED. - THURS., July 21-23
"Easy Rider" (R)
INCREASED ADMISSION: adults 50c, children 25c.
Two shows nightly at 6:00 and 8:30 p.m.
Sunday matinee at 2:00 p.m.

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 - 1967 T-BIRD LANDAU. 4-dr., loaded. Book \$2,135. OUR PRICE \$1,750.
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RETURN OF A FIREBEE—Crisp against a Texas sky, the Teledyne Ryan Firebee aerial jet target settles to earth by parachute after completing a target presentation mission at the U. S. Army's McGregor/Dona Ana Range near El Paso, Texas. Jet-powered, the pilotless aircraft can fly a variety of target missions, then pop its chute for return to land or water for recovery, refurbishment and repeated use. Record for a single Firebee I is 47 target flights. The Firebee I shown in the photo is used to tow a small plastic target which is fired upon during training for the Army Missile Command's Hawk and Chaparral missiles and the Army's Vulcan 20mm automatic gun.

Arkansas Reserves Here For Summer Training

For the third consecutive year it was "Eastward Ho the Wagons!" for a United States Army Reserve Unit from Jonesboro, Ark. In a reversal of the old westward movement of the pioneer, the 346th Ordnance Company, crossed the Ol' Mississipp' like the horde of early settlers going west, for two-week's summer training.

Capt. Winfred Coburn brought forces to the Missile and Munitions Center and School to conduct on-the-job training and a four-day field training exercise to test their capabilities under simulated combat conditions. The training will be conducted under the auspices of MMCS' Unit Training Command. The mission of the 346th is to

insure support for active duty troops and to provide a back-up force in case of national emergency.

Formerly a part of the 444th Ordnance detachment, the 346th was initiated in Dec. 1967.

The 78-man unit is the third of four army reserve and national guard units to conduct summer training at the \$100 million global training center since June. The unit will return to its home station July 24 after 14 days of active duty at Redstone Arsenal.

July 12 — Dateline 1862 — Congress created the Medal of Honor, the nation's highest military award for valor.

Low-cost insurance totalling \$65.5 million was issued by the Veterans Administration to 6,942 veterans with service-connected disabilities during the first four months of 1970.

BUFFET SERVICE ADDED AT NCO

NCO Club diners will see a new buffet service in the dining room during the luncheon hours Sunday through Friday. The service is in addition to the normal table service offered during the same period.

Open from 1030 until 1330 hours the new arrangement "provides faster service with the same quality at a time when the 'rush is on'" according to food service manager Charles Burney.

Bible Study In German Starts

A German language Bible study class will be held this Sunday from 9 to 10 a.m. at the Lincoln Church of Christ located at the corner of Meridian Street and Oakwood Avenue.

All German speaking persons are invited to attend. For further information call either Gert S. Schmidz at 395-4140 or 536-8620 or the church office at 536-7211.

Corps Of Engineers Adds 16 Summer Student Aides

The average age of the Huntsville Division, US Army Corps of Engineers plummeted, the vending machine take soars, and the summer student aides have arrived.

The Division has 19 Summer Aides ranging in age from 16 to 20. Sixteen of the aides have joined the division during the past two weeks, three have been employed since last summer, working 16 hours each week during the school year.

Summer aides are referred to the Division by the Alabama State Employment Office and will work 40 hours per week during the summer months learning a variety of clerical skills and practical work.

Supervision of summer aide training is the responsibility of Mrs. Fannie P. Thompson, educational advisor, a summer employee of the Division who is a teacher

of commercial subjects at Robert E. Lee High School, Huntsville, during the school year.

Eight of the aides plan on going to college in the fall, ten will return to high school and one, a 1970 high school graduate, will continue working.

SUN TALK

James Breece II will present a program describing "The Stars We Live By" at the Rocket City Astronomical Association's Planetarium July 19 at 2 p.m. and 4 p.m.

The birth, life and death of the sun will be discussed and a telescope equipped with a special solar eyepiece will give the audience a chance to take a safe look at the surface of the sun. The lecture is designed to interest all age groups.

July 2 — Dateline 1926 — The Army Air Corps was created.

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MISSILE & MUNITIONS CENTER & SCHOOL
NAMES IN THE NEWS
 By SFC Ben Casey

DEUTSCHLAND FESTIVAL

International relations have a way of extending themselves to all parts of MMCS. In this week's particular case, the German Det. will be holding a get-together on July 18 at the troop recreation area located next to the NCO Club. During the afternoon, the families will gather for a fun-fest during which games will be played and door prizes given to the lucky winners.

In the evening, a dinner followed by dancing will be held at the NCO Club. Special guests will be personnel from Sch. Bde. and UTC who work with the Germans attending courses at MMCS.

An important occasion transpired at the German Liaison Office last week when CPT Guenter Brauns was promoted to the rank of Major. Our congratulations are extended to him.

ALLIED STUDENTS

Six more Allied students will have arrived at MMCS by July 9. These include five Germans and one Danish student. It is not known yet what courses they are scheduled to study or how long they will be part of the MMCS family, but we are sure that the utmost in hospitality and courtesy will be shown to them during their stay. Incidentally, this will bring the total number of Allies at MMCS to 176. Eight of these men are acting as liaison personnel between their countries and the U.S. while the other 168 are students.

AWARDS

The Air Defense Dept. was active this past week with the presentation of outstanding instructor letters to four individuals and suggestion awards to two persons.

SFC William J. Henderson and SSG Daniel J. Klimek received their first letters of appreciation while SSG John E. Speziale acquired his third and SP5 Richard V. Moore accumulated a total of four. Suggestion awards went to Mr. Clinton A. Banas and Mr. John M. Bramblett. The four military personnel are attached to the Nike Div. and the two civilians are instructors in the HAWK Div.

NEW FIRST SERGEANT



ISG BENNETT
 First Sergeant

HHC, Sch. Bde. gained a new face and top kick this month. MSG Richard H. Bennett arrived at MMCS on June 18 and assumed his new duties as ISG on the 29th. Before coming to Redstone, he was assigned to USARV, Vietnam. So far in his military career, he has been awarded the Army Commendation Medal three times, the Bronze Star with "V" while serving in Vietnam, and the Army Service Medal.

LEATHERNECKS REPORT

The Leatherneck detachment lost its top enlisted man on July 13. MSG Charles W. Birdsong has decided that after 20 years of service it was time to retire to the shores of Carolina Beach, N.C., where he will run a chartered fishing boat. He served as an instructor in the HAWK Guided Missile Div. from 1963 through 68 and then put in a tour of duty in Vietnam. He returned to MMCS in January, 1969, and was the top enlisted man for the Marine detachment until his retirement on Monday. His spot at the Arsenal will be filled by MSG Henry J. Szarek.

Word has also come from the Marines that they have had their second \$10,000 re-enlistment this year at MMCS. SGT Terryl L. Lanerd, presently a student in the HAWK Guided Missile course, raised his right hand on July 3rd and in doing so clasped his left hand around a bundle of hard, cold cash. As soon as he has completed his course, he will become an MMCS instructor. We're sure that the extra loot he gained by staying on for another six years will help to make the time that much more enjoyable.

EOD REFRESHER

Advancements in technology in certain occupations make it a necessity for some people to attend refresher courses at various times

during their careers. For the Explosive Ordnance Division, headquartered at MMCS, this refresher course is held once a year for a two-week period. During this time, advanced disposal techniques as well as reviews of past methods are studied. During the next two weeks, the 70th Ord. Det., stationed at Rosecrans, San Diego, will undergo their Annual Training Test and remedial training exercises here at MMCS.

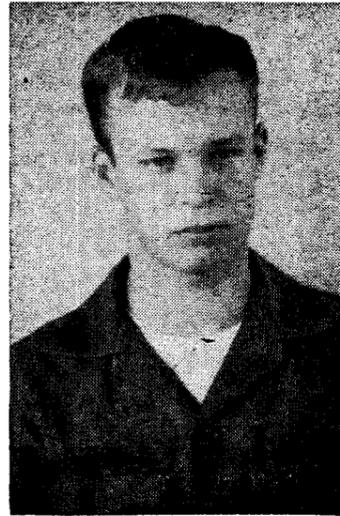
UNIT ACTIVATION

On July 7, a new Ordnance detachment was activated at MMCS. It is the 280th Ord. Det. whose primary mission will be to train units to function as a whole in the field in the maintenance of the Chaparral missile system and the Vulcan automatic cannon. The detachment is commanded by CPT Jackie D. Ratcliffe and his top enlisted aid is MSG Lawrence Vul-taggio.

SAFETY REPORT

The statistics are in from the MP Det. on the number of moving traffic violations for the month of June. The total number of incidents in all categories stands at 27. A breakdown shows the incident as follows: speeding, 15; failure to halt at stop signs, one; accidents, 10 (which, fortunately were of a minor nature); and failure to yield the right of way, one. According to the law of averages, this amounts to 100% too many citations. If caution is paid to driving habits, then the total for any given month of the year should come to zero. When you are driving, concentrate on your driving; leave your work at the office and your worries in the back of your mind. Then, when you can settle down and think about having to pay attention to what the other fellow is doing, get back to your work and your worries. Pick up the problems where you left them off BEFORE you got behind the wheel. This way, you may be saving yourself some money and quite possible even your life.

3RD BATTALION SOLDIER OF THE MONTH



PFC HENDERSON
 3rd Bn SOM

Two feathers have been added to the cap that PFC Peter G. Henderson wears. First, he was promoted to PFC last week and secondly, he has been chosen as the 3rd Bn Soldier of the Month for

Licenses In Florida May Now Be Renewed By Mail

WASHINGTON (AFPS) — Florida has changed its procedures for renewing drivers' licenses of its residents in the armed forces.

After July 1, licenses will be renewed by mail directly between the driver and the Florida Department of Highway Safety and Motor Vehicles. Previously, county judges issued the licenses.

State officials said servicemen and women should ignore instructions on their licenses to renew through the county judge's office in the country where the license was last renewed.

Service personnel also have been asked to report any changes in their home address to the Division of Driver Licenses, Kirkman Bldg., Tallahassee, Fla. 32304.

July. Hailing from Natick, Mass., Pete is presently a student in the HAWK launcher and Missile Repair course at MMCS. The best of luck for that big board which may make you Post Soldier of the Month, Pete.



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Weather Bureau Selects Names For '70 Hurricanes

WASHINGTON (AFPS) — Twenty-one names — from Alma to Wilna — have been selected to identify hurricanes and tropical storms occurring in the Atlantic, Caribbean, and Gulf of Mexico this year, according to Dr. Robert H. Simpson of the Weather Bureau's National Hurricane Center in Miami.

The hurricane season opens June 1 and continues through Nov. 30. The names reserved for storms in 1970 are:

Alma	Lois
Becky	Marsha
Celia	Noreen

Dorothy
Ella
Felice
Greta
Hallie
Isabel
Judith
Kendra

Orpha
Patty
Rena
Sherry
Thora
Vicky
Wilna

Although hundreds of letters are received each year from women and men alike asking that a certain girl's name be included in the hurricane list, the Weather Bureau does not select the name of any particular individual, Mr. Simpson said. Also, names beginning with Q, U, X, F, and Z are not included because they are few and frequently hard to pronounce or write.

Additional sets of names are reserved for use by the forecasters at the San Francisco and Honolulu Weather Bureau Pacific Hurricane Centers to identify hurricanes or typhoons in the Pacific. As these storms constitute a smaller threat to the U.S. mainland, they receive less publicity than storms in the Atlantic, Caribbean, and Gulf of Mexico.

The history of the use of girls' names to identify these potentially dangerous storms goes back to World War II.

At that time, forecasters plotting the movements of storms over the wide expanses of the Pacific Ocean often found more than one storm in progress at the same time. To avoid confusion and cost-



MISSILE AND ROCKET PIONEERS—The Missile Command honored the Rohm & Haas Company's Redstone Research laboratory for its 20 years of pioneering work in missile and rocket development last week with the Certificate of Appreciation for Patriotic Civilian Service. In the above picture, Brig. Gen. George H. McBride presents the plaque commemorating the award to Orville Loeffler, general manager of the laboratory. Looking on are Dr. Ralph Connor (second from left), chairman of the board for Rohm & Haas, and Dr. Henry Shuey, a propulsion scientist at the laboratory. Gen. McBride also presented the Army's Outstanding Civilian Service award to the Rohm & Haas officials in recognition of their individual contributions over the last two decades. The Philadelphia-based company is presently phasing out its Redstone facility.

HEALTH BENEFITS EXCLUDE ALL ON-JOB INJURIES

WASHINGTON (AFPS) — Government employes are reminded by the Civil Service Commission that on-the-job injuries are not covered by the health benefits program.

The commission reports there is much confusion over the payment for treatment of such injuries.

Some injured employes have been treated by their own physicians, assuming coverage under the benefits program. The action has resulted in a financial loss, the commission reports, because along with not being covered by the health benefits program, the employe losses Bureau of Employee's Compensation coverage because of improper reporting.

On-the-job injuries must be reported to the responsible supervisor and the Civilian Employee's Health Service within 48 hours. Any claim must be presented to the Bureau of Employee's Compensation.

Employes injured during working hours are entitled to free medicine and medical attention, plus free hospitalization when needed.

If a worker does not have annual and sick leave, or does not choose to use them, he is entitled to money benefits for the time off the job. There is a three-day waiting period before the money benefits begin, unless the injury is permanent or lasts more than 21-days beyond any sick or annual leave a worker chooses to use.

Ernie Pyle Eyed For Hall Of Fame

Endorsements are still being accepted to elect the late Ernie Pyle, famous U.S. war correspondent and soldiers' buddy, to the Hall of Fame for Great Americans at New York University.

Pyle was nominated for the Hall of Fame by U.S. Senator Birch Bayh from Indiana—Pyle's home state.

Endorsements may be sent to: Hall of Fame for Great Americans, Attn: Electoral College, New York University, New York, N.Y. 10028.

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ly errors, forecasters, particularly Air Force and Navy meteorologists, began giving each storm an identifying label. Nothing could be more natural for lonely servicemen,

thousands of miles from home, than to select the names of their sweethearts, wives, or favorite pin-up girls.

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Oregon Student Is Top Soldier

For the fifth consecutive month the Redstone Arsenal Soldier of the Month is from the Missile and Munitions Center and School. During the same period the Arsenal's top soldier has been from School Brigade's 2nd Battalion.

Selected for July is PFC Michael O. Moran, 7th Enlisted Training Company. This is the fourth time that a soldier from the 7th ETC has held that honor.

Moran, a native of Portland, Ore., is a student in the 44-week Nike Radar and Computer Repair course.

Moran entered the service August 1969 and completed his basic training at Ft. Lewis, Wash., prior to coming to Redstone Arsenal to begin his training at MMCS.

A 1963 graduate of Sunset High School, Beaverton, Ore., the 25-year-old soldier holds a bachelor of arts degree in physical chemistry from Reed College, Portland, Ore., and a master of science degree from the University of California at Berkeley.

PFC Moran will be honored with a "week-end on the town" by the Huntsville Chamber of Commerce



HEAD JOC COUNCIL—Newly elected officers of the MMCS Junior Officer Council (JOC) discuss plans for the council for fiscal year 71. From left to right, the members are CPT Dennis W. Brewer, chairman, 1LT Dennis G. Kostrezewski, vice chairman, and 2LT R. D. Peek, Recorder. The JOC has been in existence at the Missile and Munitions Center and School for over six months. Their purpose is to provide a better communications link between the junior officer and the commander, thereby fostering junior officer retention. The council acts on all matters concerning the morale and welfare of junior officers at MMCS.

School Memorial Honors EOD Dead

The first tri-service memorial to some of the most fearless men in the nation's armed forces is now a center of attention at the Explosive Ordnance Disposal School, Indian Head, Md.

Four bronze slabs bear the names of the 69 men of all U. S. services who have lost their lives while performing their duties or in actual combat since the first American Explosive Ordnance Disposal (EOD) units were formed in the Army in 1941.

The official seals of the Army, Navy, Air Force and Marine Corps are mounted above the bronze slabs on four starkly dignified

white brick columns.

Financed entirely by voluntary contributions from the EOD community, the memorial was partially constructed by volunteer workers from the staff, faculty and student body of the EOD School. The school is formally administered by the Navy but elements of all services are included with the Army Missile and Munitions Center and School, Redstone Arsenal, responsible for the Army portion of EOD training.

The formal dedication was held June 12 by representatives of all services with a keynote address by Rear Admiral O. D. Waters, Oceanographer of the Navy.

A Memorial Ball is to be held

annually to provide funds for a year-round maintenance of the monument.

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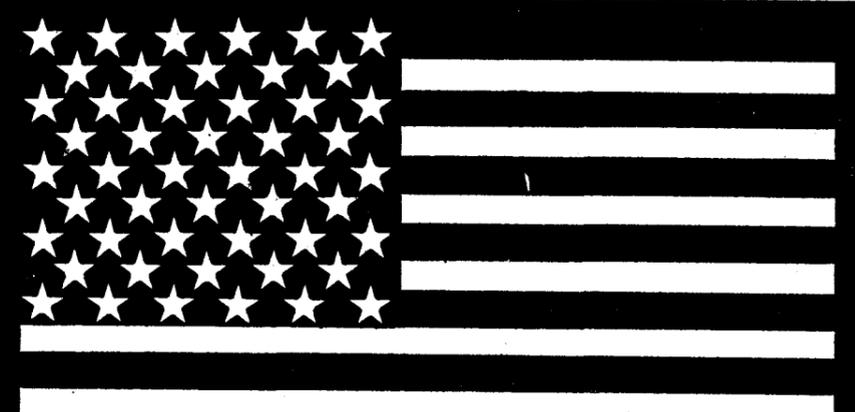
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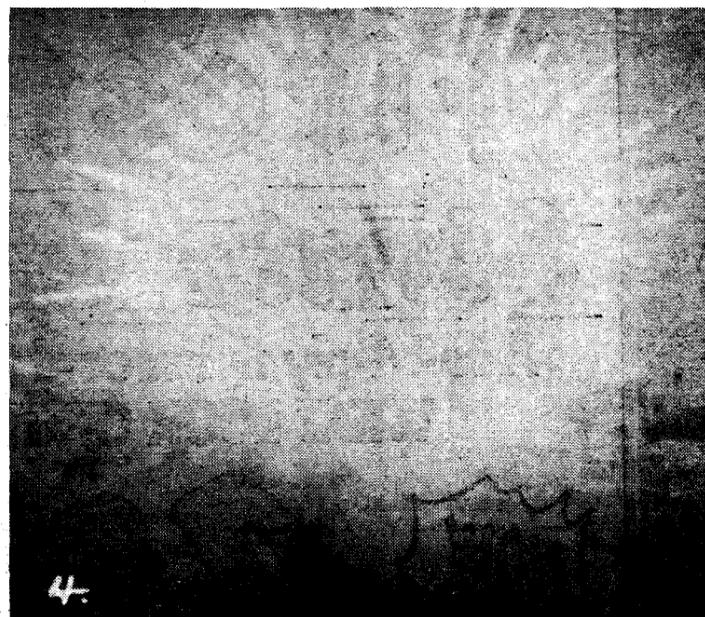
NATIONWIDE MEMBER

New Arrivals

SSG and Mrs. Wilson E. Ross, boy, Scott Emanuel, June 13.
 SSG and Mrs. Gerald P. Hartley, boy, Byron Paul, June 14.
 SP5 and Mrs. Billy W. Reese, girl, Jenny Eileen, June 14.
 SP6 and Mrs. Kenneth S. Sarette, boy, Christopher Michael, June 15.
 SP5 and Mrs. William E. Byrd, girl, Sherry Renee, June 16.
 MSG and Mrs. Ramiro M. Gonzalez, boy, Richard Charles, June 16.
 SP4 and Mrs. Tim E. Love, girl, Kara Dione, June 16.
 L/CPL and Mrs. David W. Doughty, boy, David Scott, June 17.
 SP4 and Mrs. John T. Mahar, boy, Jeffrey Thomas, June 18.
 PFC and Mrs. Robert L. Malone, girl, Jacqueline Sue, June 18.
 SSG and Mrs. John F. Miller, boy, Thomas Edward, June 19.
 SP6 and Mrs. Theodore G. McCall, Jr., boy, Theodore George, III, June 20.
 SSG and Mrs. Emmett L. Wilkins, boy, Daniel Lee, June 20.
 SP6 and Mrs. Robert A. Burroughs, boy, Myus Apontus, June 23.
 CPT and Mrs. John S. Aiton, boy, Ashley Kyle, June 23.
 SSG and Mrs. Elmer G. Howard, girl, Julie Elaine, June 23.
 PFC and Mrs. John R. Stewart, boy, Carl John, June 23.
 SP5 and Mrs. Sherman Brown, boy, Timothy Duane, June 24.
 SP6 and Mrs. Ronnie L. Davis, girl, Traci Elaine, June 24.
 SSG and Mrs. Klaus D. Beckel, boy, Michael, June 25.
 SGT and Mrs. Harold H. Harbin, Jr., boy, Kenneth Michael, June 25.
 COL and Mrs. Mac D. Hendricks, girl, Catherine Alice, June 25.
 SFC and Mrs. James O. Chappelle, boy, William James II, June 28.
 CW3 and Mrs. Earnest E. Kelley, boy, Michael Lee, June 28.
 SFC and Mrs. Thomas O. Clardy, girl, Dana Yvette, June 30.
 PFC and Mrs. David L. Liberator, girl, Shanne Lea, June 30.
 SP5 and Mrs. Gregory A. Hall, boy, James Edward, July 1.
 SFC and Mrs. Milton A. Petersen, girl, Loretta LeAnn, July 1.
 SP6 and Mrs. Robert P. Wallace, girl, Linda Eloise, July 2.
 SP6 and Mrs. Helmut O. Crnko, boy, Scottie, July 3.
 SSG and Mrs. Robert E. Hailey, girl, Gina Diane, July 4.
 1LT and Mrs. Douglas P. Terry, Sr. boy, Douglas Price, Jr. July 4.
 SP4 and Mrs. Thomas D. Stewart, girl, Tracy Deanne, July 7.
 SSG and Mrs. William E. Worth-



TANK DESTROYER—Firepower of the Cheyenne helicopter is shown in this sequence of photographs during the firing of the first live TOW missile launched from an aircraft. In the third frame, the TOW missile is about to demolish an old World War II tank. Additional live TOW missiles are being fired during ex-



tensive gunnery tests at the Army's Yuma Proving Ground in Arizona by the Lockheed-California Company. Cheyennes have flown more than 700 hours during more than 1,300 flights. The TOW missile program is managed by the Army Missile Command.

California Officer Leads Class At MMCS Graduation

The Missile and Munitions Center and School held two formal graduations this past week.

Wednesday's graduation marked the commencement of new military experiences for 22 officers of the school's Ammunition Officer course. Their assignments will lead them to many parts of the States and points throughout the world.

Heading this future cosmopolitan class was Cpt. Klaus D. Yager of Bellflower, Calif., who compiled a 96.4 grade average to lead his class and qualify as a recipient of the Association of the United States Army (AUSA) award.

The plaque, presented only to those students who achieve an average of 96 or higher in their studies, was presented by Frank S. Bowman, AUSA representative.

To aid the class of leaders in their future assignments, guest speaker Maj. Ray Weinburg reminded them of the virtues of listening: By listening, one learns;

by learning, one can better lead.

At the Friday graduation ceremonies, top honors went to Sgt. Manfred Johann of Berchtesgaden, West Germany, 90.4 in the HAWK pulse radar repair course; Marine Cpl. Blair F. Foiey, Portuguese Bend, Calif., with a 94.1 in the HAWK continuous wave radar repair course; and Pfc. John F. Collins of Tampa, Fla., having a 94.9 in the land combat support systems test specialist course.

At the close of the graduation ceremony, guest speaker Cpt. Joseph F. Casanova, instructor, Officer Training Department, USAMMCS, presented the men with four points needed to meet the challenges of life: practice self discipline; demonstrate one's best ability; continue the learning process; and use initiative.

ington, girl, Bobbie Leilani, July 7.
 PFC and Mrs. Ronald D. Blatchford, girl, Heather Christine, July 9.

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