

**Arsenal-Wide**

**Spot News**

**Dial 112**

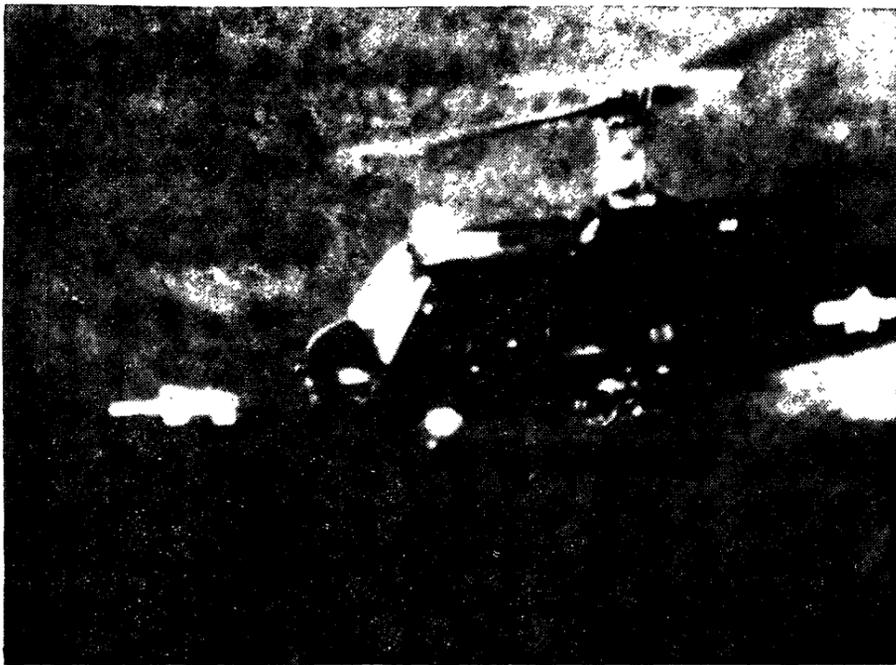
# The Redstone Rocket

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VOL. XV; NO. 41

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

MARCH 1, 1967



**AIRBORNE TANK KILLER**—A TOW missile, shown here being fired from an XM-26 subsystem designed for helicopters, reflects light from the sun as it streaks toward a target during a development test at Redstone Arsenal, Ala. The missile impacted the target more than a mile away. Like the ground version of TOW, the XM-26 is being developed to destroy heavy armor and other battlefield targets. Col. Cyril D. Sterner, Land Combat Commodity Manager, directs the Airborne TOW program for the U. S. Army Missile Command.

## Airborne TOW Accurate In Tests At Redstone

Successful firings of TOW anti-tank guided missiles from Army helicopters have been conducted here by the U. S. Army Missile Command.

The air-launched TOW missiles have impacted targets more than a mile downrange from the firing point.

The new heavy armor sub-system, called the XM-26, is being developed as the second generation of helicopter anti-tank weapons. It will replace the M-22 subsystem, now deployed with Army troops.

The firings, made from a UH-1B helicopter, were conducted by Hughes Aircraft Company, TOW prime contractor, with the support of the Missile Command's Test and Reliability Evaluation Laboratory.

Engineering development tests

include firings at both moving and stationary targets, the Army said. And to prove system integrity, firings will be made over a wide range of helicopter flight capabilities.

The Army said the XM-26 will provide greater accuracy than the M-22, the present SS-11 French-developed wire-guided missiles. Hughes has developed a stabilized sight that allows the gunner to hold a bead on the target even while the pilot maneuvers to evade ground fire.

Col. Cyril D. Sterner, Commodity Manager for Land Combat Systems, directs the XM-26 program for the Missile Command. Col. Nelson Lindstrand, Jr., is Project Manager for all aircraft weaponization at the Army Materiel Command in Washington.

(See TOW on Page 3)

## Mary Jane Hearn Excels In Several Forms Of Art

Technical art is both a vocation and an avocation of Mary Jane Hearn, chief of the Land Combat Illustration Section of the Supply and Maintenance Directorate.

Mary Jane serves as program chairman for the graphic stem of the International Technical Communications Conference as well as co-chairman of the Technical Communications Seminar and Art Show. The latter show will be held in Huntsville on March 30 while the Conference is set for May in Chicago.

As if that wasn't enough, Mrs. Hearn is on the editorial staff of two national magazines in her field, Technical Communications and Industrial Arts Methods.

She is also an active member of the Huntsville Toastmistress Club and has used the speech training to acquaint the public with the ultimate potential available in the technical art field.

Her most recent lecture was delivered recently at Huntsville High School when she spoke on the question, "What is Technical Art?" Mary Jane delivers lectures in the local area two or three times a year in addition to speak-

ing at a great number of professional conferences.

A graduate of Auburn University, she also holds a Bachelor's degree from Jacksonville State and has done graduate work at the University of Cincinnati.



MARY JANE HEARN

She came to Redstone from Ft. McClellan in 1955 to accept a position as illustrator in Supply and Maintenance and has continued in the same role for 12 years, taking over as section chief in 1962.

## Troops Ready To Practice Firing Pershing Missiles

More than 700 troops from Ft. Sill, Okla., are converging this month on the Blanding, Utah, area for 45 days of field-condition



COL. CLARK O. THORNTON

## GRADUATES HEAR ABOUT MINIGUNS

The technological revolution has now come forth with a minigun that covers a vast area.

Small Gatling guns firing thousands of bullets per minute are now being used in Vietnam to cover practically every square foot of an area the size of a football field with one short burst of fire.

These miniguns, borne aloft by renovated C-47 aircrafts that date back to World War II, are highly effective in Vietnam, graduates of the Army Missile and Munition Center and School were told Friday by a high-ranking Air Force officer.

Col. Clark O. Thornton, professor of aerospace studies at the University of Alabama in Tuscaloosa, told of the minigun in an address to 90 missile and ammunition specialists from The Philippines and the U. S. who received diplomas at a ceremony in the Redstone Arsenal theater.

Col. Thornton said cooperation (See MINIGUNS on Page 3)

## Our Redeye Hits Five Out Of Six

Five bullseyes out of six might not be anything unusual for a crack marksman in a shooting gallery. But when ordinary soldiers in the field can fire missiles from the shoulder and knock down five target planes in six attempts, that's deadeye shooting.

This happened recently at Fort Bliss, Texas.

Soldiers testing their shooting skill were from the 101st Airborne Division. They had just graduated from two weeks of training with the Army's new shoulder-fired system, Redeye, a 30-pound weapon now in production that gives the infantryman an effective defense against low-flying enemy aircraft.

Firing Redeye missiles with high explosive warheads, the 101st gunners celebrated graduation exercise by downing in flames five of six target drones. Watching the action was Maj. Gen. Ben

Sternberg, Commanding General of the 101st.

The event was particularly significant in another respect, the Army said. This was the first time that soldiers issued, handled, checked out and fired the weapons by themselves. Always before the U. S. Army Missile Command, which directs the Redeye Program, and General Dynamics Corp. (See REDEYE on Page 3)

## AMC Wins Top Safety Award FY '66

### Best Army Record Held By Personnel In All Operations

The Army Materiel Command has received the Army's top Safety Award for Fiscal Year 1966. The Award of Honor for Safety was presented to Gen. Frank S. Besson, Jr., AMC Commanding General, by Gen. Harold K. Johnson, U. S. Army Chief of Staff.

The award, which is presented annually, is the Army's highest recognition of effectiveness in preventing accidents. Competing with all other major commands of the Army, AMC has now won this top safety award in two out of its four years of operation. It was last presented to AMC for FY 1963. As runner-up in Fiscal Year 1965, AMC received the Army's second highest safety award, The Award of Merit for Safety.

AMC personnel are daily exposed to a wide variety of high hazard operations. They include research and development, of missiles and other Army materiel.

The AMC rate of 1.2 civilian disabling injuries per million man-hours for Fiscal Year 1966 compared very favorably with the 13.2 average rate of all private manufacturing industry.



**PROMOTED TO TOP POSITION**—Patrick H. Huntington, left, is congratulated and "fitted" for promotion to Sergeant Major in ceremonies at the U. S. Army Missile & Munitions Center & School. Offering congratulations to the veteran of 26 years is Colonel Erwin M. Graham, MMCS Commandant, where Huntington is Sergeant Major of the Technical Ammunition Division. Huntington, from Warrensburg, N.Y., becomes the 12th Sergeant Major now at the school and one of less than 6,000 holding the top enlisted rank in an active Army of over 1,200,000 men and women.

# 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 noon of Friday before publication.

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for the Rocket are \$6.36 a year, or \$3.50 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Huntsville, Ala. 35640.

## Rocket Ruminations

Time dissipates to shining ether the solid angularity of facts.  
—Ralph Waldo Emerson

## File Your Income Tax Return Early

The annual income tax countdown has begun. April 17th is still a few weeks away, but most of us have already had some skull sessions over our tax situation.

By now most of us have received W-2 forms from the finance office. Many have also picked up tax tables and have at least done some mental calculations to find whether the tax news is good or bad.

Some—the ones with good news—may have filed a return and are now waiting patiently for that refund check to roll in.

But those who found the news bad have another problem. Chances are some are following the old adage, "Never put off until tomorrow what you can put off until April 17th!"

That's a natural tendency but a very bad practice. Work on your tax return should start just as soon as you've received your W-2 form. Allow yourself plenty of time to get together all your income and deduction figures and find the answers to questions you may have.

When you start looking for those answers, here's one good tip: Remember that Uncle Sam doesn't want you to pay one red cent more in taxes than you honestly owe.

In fact, the Internal Revenue Service is ready to provide invaluable assistance to help you pay only your fair share.

Any Internal Revenue Service office will give free tax guidance, in some cases through an easy telephone call. Armed Forces legal officers can also provide help.

And if you're one of those "I'd rather do it myself!" types, there are two publications to help you. The first, "Federal Income Tax Information for Service Personnel (NAVSO 1983—9th Edit)," deals with income tax questions that are peculiar to the military. It is available from Superintendent of Documents, Washington, D. C., 20402, for 20 cents.

"Your Federal Income Tax, 1967 Edit." is available for 50 cents from the same source. The publication gives considerable information about taxes in a broader sense and will be particularly helpful to those servicemen who have income other than their service pay to contend with.

So, don't let that knotty problem throw you. There's plenty of free professional advice available.

Happy figuring! (AFNB)

# ZERO DEFECTS CORNER

it's up to you!



MRS. DELORES L. SIMMS

The March winner of the Missile Command's "Zero Defects Employee-of-the-Month" Award is Mrs. Delores L. Simms (above), Supply Cataloger in the Supply and Maintenance Directorate. Mrs. Simms is recognized for her outstanding Zero Defects achievement in the preparation of the monthly Defense Supply Agency 71 Report involving Project Shakedown. She has compiled the data and prepared this report for nine consecutive months without a single error. These reports are very detailed and consist of a minimum of 19 pages each. In addition, she prepares item descriptions and other catalog actions for repair parts in three assigned Federal Supply Classes. She has also made several suggestions which were adopted and resulted in the elimination of potential error-causing conditions.

Mrs. Simms was selected for the March award from a group of 22 nominees considered by the MICOM Zero Defects Program Council. She was also recently presented the Supply & Maintenance Directorate Zero Defects Achieve-

ment Certificate by Colonel Marvin Snow, Chief of NICP. Mrs. Simms began her employment in the Supply and Maintenance Directorate in October 1956 and has been working in her present position in the Shakedown Control Branch since May 1963. She is married to Bryson Simms and they have two teenage daughters. The Simms make their home in Huntsville.

Heads of major organizational elements are urged to submit names of employees with significant Zero Defects achievements on Form SMI-1097 to H. R. Lowers, AMSMI-XE, Chairman of MICOM ZD Program Council. Nominees will be considered for both the Employee-of-the-Month Award and the Command Semianual "EIP" (Excellence-In-Performance) awards. Organizations are specially reminded that the next Command EIP awards will be made during the early part of April. Nominations for these awards should be forwarded to reach AMSMI-XE by no later than March 24, 1967.

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## REDEYE

(Continued From Page 1)

oration, system prime contractor, supplied engineering and technical support.

With Gen. Sternberg at the McGregor Range firing site was Brig. Gen. R. H. Safford, Commanding General of the Army Training Center, and several of his staff.

Col. A. W. Reed is Project Manager for the Redeye weapon system. Development has been funded jointly by the Army and Marines Corps. Both services will share in the output of production hardware.

Redeye gets its name from an infrared heat seeking device it employs to "home" on the heat of an aircraft's engines.

Initial target detection and tracking is done visually by the gunner. When the aircraft is within range of the missile and its infrared seeker has "locked on" the target, a simple squeeze of the trigger fires the missile.

Redeye missiles have scored direct hits on a variety of aircraft, including unmanned jet fighter planes.

## MINIGUNS

(Continued From Page 1)

between air and ground forces in Vietnam is the closest in military history. The ground forces now call upon aircraft to attack as close as 20 yards from friendly troops. Other examples include heavy and light bombardment of Viet Cong positions, defoliation of jungle areas and illumination of battlefields at night.

Seven students were cited as honor graduates by Col. John R. Henderson, assistant commandant of MMCS who presided at the ceremony. They were: PFC William E. Swanson, Bremerton, Wash., (92.0); PFC Clair C. McDougall, Eyota, Minn., (92.7); PFC Robert P. Russelburg, (91.4); PFC Edward J. Giordano, Millbrae, Calif., (85.6); PFC James R. Weathers, Ponca City, Okla., (85.4); PFC Michael C. Ferringer, North Tonawanda, N. Y., (91.9); and Pvt. John H. Strabley, Salineville, Ohio, (94.8).



**HELICOPTER TOW SUBSYSTEM**—Shown here is an artist's concept of what the TOW missile subsystem may look like in its final version. Known as the XM-26, airborne TOW features a stabilized

sight developed by Hughes Aircraft Co., which counters movement of the helicopter.

## TOW

(Continued From Page 1)

Technical supervision of the program is under the Small Rockets and Aircraft Armaments Branch, Development Division of the Missile Command's Research and Development Directorate.

In operation, a gunner obtains a telescopic sight picture of the

target, then launches the missile which follows his line of sight. For moving targets, the gunner keeps his sight on the targets, thus generating signals that correct the missile's course.

AN 800-UNIT airman's dormitory will be constructed at Barksdale AFB, La., under \$1.4 million fixed-price contract to Chaney and James Construction Co., Richardson, Tex. Award is by Naval Facilities Engineering Command through Commanding Officer, Gulf Division, New Orleans, La.

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## Cape Oldtimers Plan April Reunion

A reunion of Cape Canaveral (Kennedy) "early birds" has been planned for early April to coincide with the Fourth Space Congress to be held at Cocoa Beach, Fla.

Planned by Pioneers, Inc., the reunion is being held to provide an opportunity for missile, space

and range personnel associated with the activities at the Cape to meet and renew acquaintances.

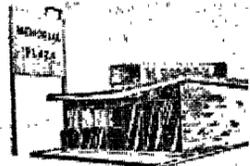
Membership in the Pioneers is open to all personnel who had an active role in the missile, space and range activities at Cape Canaveral during the period of the late 1940's to December 1966.

A limited number of membership application blanks are available for qualified persons in the Information Office, Room A-134, Building 5250.

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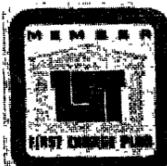
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# SOCIAL <sup>and</sup> CLUB EVENTS

## Benefit Bridge Planned By Wives

Tickets go on sale today for the Spring Benefit bridge and luncheon which will be held from 10 a.m. to 2 p.m. Mar. 29 at the Redstone Officers Open Mess and arranged by the Redstone Officers Wives Club. Proceeds will go to the Club's welfare fund.

Wives of all members and associate members of the Redstone Officers Open Mess are eligible to participate and bring guests to make up a table of any card game

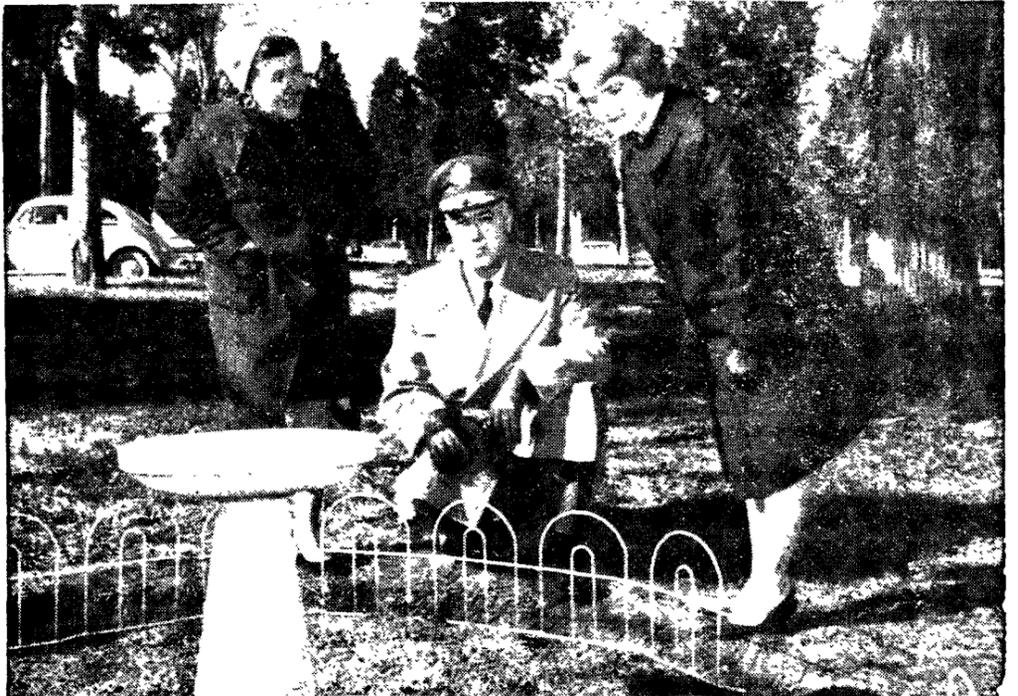
### HAT CLASS

A Spring hat making class will begin Thursday, Mar. 9 sponsored by the Redstone Officers Wives Club in the Redstone Officers Open Mess. The hours are from 8:45 to 11:45 a.m. and classes will run for five weeks.

Those interested should phone Mrs. N. E. Hightower, 859-1024 or Mrs. Charles J. Tuel, 877-4375.

they wish to play.

For further information about the event call Mrs. Spencer Baen, 877-5536, or Mrs. Robert Percy, 877-4178. Those interested are urged to buy tickets early as the supply is limited.



**BEAUTIFICATION AND BIRD CONSERVATION**—Col. Thomas A. Rodgers, center, President of the Redstone Officers Open Mess Board of Governors, looks over the bird bath presented by the Redstone Officers Wives Garden Club. The idea for the bird bath originated following a Garden Club program on bird conservation given by Mrs. Kenneth C. Johnson, left. The Club also planted several hundred bulbs for Spring flowers in areas around the Open Mess and the Rocket Nursery. Mrs. Therman Richards, right, was in charge of planting the bulbs.

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**FASHION SHOW PREPARATIONS**—Members of the Redstone Officers Wives Club try out make-up techniques for the Club's March 7 Fashion Show to be held at the Redstone Officers Open Mess when members will model Spring styles. Arranging Mrs. Eugene Totri's coiffure is Mrs. Kenneth Martin, and Mrs. Manuel Flores experiments with an eyebrow pencil.

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## Sojourners To Meet Mrs. Bentley Attends Librarians' Seminar

Judge James N. Bloodworth will speak at the March 3 meeting of the Redstone Chapter 353 of National Sojourners at the Redstone Officers Open Mess. The dinner meeting is scheduled for 6:30 p.m.

Judge Bloodworth, Circuit Judge of the 8th Judicial Circuit for Lawrence-Limestone-Morgan County, is a member of Zamora Temple, the Decatur Shrine Club and York Rite Masons.

Past Masters and Past Presidents will be honored at the meeting which is open to guests and prospective members.

Reservations are being handled

Mrs. Jane F. Bentley, a Librarian assigned to the Information Programs Branch, Redstone Scientific Information Center, left Monday to attend a three-day National Microfilm Association seminar on microfilm systems applications being held in Atlanta, Ga.

Mrs. Bentley will participate in the seminar through a formal presentation on Redstone Scientific Information Center's programs and workshop discussions.

by Capt. Arnold Maynard, 877-3845 or Charles Rollins, 876-3032.

## Mrs. Brown Wins High At Bridge

The Thursday Bridge Group of the Redstone Officers Wives Club had six tables in play last week at their meeting in the Redstone Officers Open Mess.

Mrs. Clark Brown won the high score, Mrs. Hilma Johnson was second, Mrs. Witt Compton, third, and Mrs. Sundae Alvarez held the low score.

For reservations to play with the group, call Mrs. Walter Thomas, 881-8851.



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### Bond Sales, Public Holdings Increase

Public holdings of Series E and H United States Savings Bonds gained by \$70 million during January, the Treasury Department has announced.

Cash sales totalled \$492 million in January, with redemptions at cost price at \$458 million, leaving a net increase at cost price of \$34 million.

In a longer term, cash value of Savings Bonds one year ago was at the \$49.3 billion level. At the end of January 1967 the cash value had risen to \$50.3 billion.



**CATEGORY I WINNER**—The Supply and Maintenance Directorate has been awarded the MICOM plaque for participation in the Red Cross bloodmobile program during the last quarter of 1966 among the organizations with over 500 assigned personnel. S&M personnel compiled a 3.6 per cent participation to edge ahead of the Research and Development Directorate whose employees had a 3.5 rate. The Category II plaque, for organizations with less than 500, was won by the Patent Center. In the above picture Col. William Grabowski, the S&M Director, gets an assist from Nora Zeman of the Directorate's Administration Office, in displaying the plaque.

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## Scouts Earn Eagle Badge

Two members of Redstone Arsenal Boy Scout Troop 234 will be awarded the Eagle Badge in a Court of Honor, March 6 at the Post Chapel. Both Harry (Bo) Duke and Rodney Moore, receiving Eagle honors, have travelled the full route toward the honors since the age of eight.

Bo Duke entered Scouting in 1961 in Aschaffsburg, Germany. He was elected Honor Scout of his Pack 289 in 1962. He has served as patrol leader of Troop 234 for two years; has been Troop librarian; and is presently Troop quartermaster. He is also Den Chief for Pack 234. After earning 21 merit badges, and completing other requirements, he qualified for Eagle in December.

Rodney Moore began Scouting in Pack 301 at Madison Pike School, and moved into Troop 203 to begin the Eagle Trail. He transferred to Troop 234 as a Second Class Scout and became a patrol leader. He has served as Den Chief of Pack 301, Den 1. Rodney holds the honor of being the fourth Scout in the Tennessee Valley

Council to attain the Oceanography Merit Badge. He holds 21 merit badges, and qualified for

Eagle in January.

Bo Duke is the son of retired Master Sergeant Harry and Mrs. Duke. Rodney Moore is the son of Mr. and Mrs. Robert Moore, 1104 Chestnut Road, Huntsville.



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We invite you to watch "County Seat '67" Documentary on new Madison County Courthouse, 5:30 p.m. Saturday, March 4th, WHNT-TV, Channel 19. Brought to you as a public service by G.E.X.

## Former Redstone Personnel Chief Gets OEO Post

Robert F. Mello, Director of College Relations and Recruitment for the U. S. Civil Service Commission, has been named Director of Personnel for the Office of Economic Opportunity.

Well known at Redstone Arsenal, he served as Director of Civilian Personnel for the Army Ordnance Missile Command and Personnel Director for the Army Ballistic Missile Agency from 1956 to 1962.

Mello and his wife live in Crofton, Maryland. They have a son, Robert W., 24, who is serving with the U. S. Army in Vietnam, and a daughter, Mindi, 17.

In more than 20 years with the federal government, Mello, 56, has held various executive posts in the fields of personnel and financial management.

As head of College Relations and Recruitment for the Civilian Service Commission since 1962, he worked with federal agencies to improve techniques of attracting high-quality applicants to the federal service.

DOD STATISTICS REVEAL that 6,644 U. S. service personnel lost their lives in RVN through hostile force actions from Jan. 1, 1961 through Dec. 31, 1966. An additional 1,511 lost their lives from other causes. (AFNB)

# Unit Level Tourney Finals Set For Thursday

## Semi-Final Clash Tonite Sets Stage For Big Game

One more semi-final game tonite will set the stage for the finals of the Unit Level basketball tournament at the Post Gym tomorrow. The competing teams were very much in doubt early in the week with six teams still in the running.

Headquarters Company, School Troop Command, remained the top heavy favorite to add the post season tourney crown to their regular season title by winning their first two tournament games. The wins were the 19th and 20th in a row for the unbeaten league champs.

The Headquarters quintet opened the double elimination affair with a 50-42 win over the Student Officers and two nights later dropped the 3rd ETC, 65-37. Bill Lenzi topped the scoring in the first game with 13 while Bob Murphy poured 21 counters through the nets for the second game leadership.

Another two-time winner in the

early going was the Military Police. The Police were hard-pressed each time before whipping A Company, 44-40, and the 6th ETC, 44-43.

Doris Chatman topped the Policemen each time with 15 points. In the second game his two foul shots with six seconds showing on the clock turned almost certain defeat into a win.

The STC team was pitted against the MP's in the winner's bracket finals last night. The survivor of that game will be one of the contestants in the Thursday evening final.

The 6th had sprung the big upset of the meet on opening night by handing the Big Red from the 7th ETC a 50-42 setback. Hudson played the starring role in the win with 18 points.

The 7th redeemed themselves later in the week by putting A Company out of the running with a 51-47 win as McMillan tossed in

## Ladies Go For All Or Nothing

It was all or nothing in the Tuesday Morning Ladies League with one of the teams scoring a sweep in each of the four matches.

The league leading Go-Getters jumped on the runner up Mystics for their sweep to run their lead to four and a half points. Anne Wiener set the pace for the leaders with a 494.

Jeannette Soles tied Anne for individual honors in leading the Go Go Girls to four straight over the Pick Ups. In other matches the Bottoms Up four took all four from the LMP's and the Four and a Halves victimized the Alley Cats.

Marge Hilton topped the Bottom Ups with 468 while Martha Trump was shooting a 486 in the losing cause. Martha Gates rolled the best game of the day, a 193, for the Four and a Halves.

25 points. Cheritte led A with 12. The Third ETC opened their tournament action with a 52-48 win over the Support Command as Weber and Monarrez divided honors with 14 points apiece. Parton was high for the game with 18 in the losing cause.

The Support Command came back to send the Student Officers to the sideline to the tune of 55-43. Brennan topped the winners with 14 points and McChristie was high for the Officers with 8.

The Support Command went up against the 6th in the Monday night opener followed by an encounter between the 3rd and the 7th. The two winners met on Tuesday after the STC-MP affair.

## CFW Double Header Sets Stage For Cage Playoff

The last two slots in the CFW basketball league playoff will be up for grabs at the Council School gym tomorrow evening when the bottom four teams of the league standings clash in a pair of sudden death matches.

Intelligence & Security takes on the Industrial Engineers in the opener with Metrology Center taking on Logistics in the last half of the double bill. The two winners will earn a right to enter the playoffs that get underway next Monday.

The unbeaten Documentation five made it eight in a row last week by brushing aside Data Processing, 54-38, while Finance and Accounting made it eight out of nine at the expense of the Comp Center, 55-33.

It was the second loss of the week for the Comp Center quintet who also dropped a 51-46 nod to I & S. Supply and Maintenance was a double winner with a 49-43 decision over Metrology Lab and a 57-43 lacing of the Engineers. The final game of the week saw the Engineers hang up their first victory, 22-16 over Logistics.

Greg Bogue scored 18 and Dennis Vaughn added 16 more for the Documentation win. Jay Davis topped the Processors with 16 and Gary Mann hit for 11.

The Accountants, still smarting from their overtime loss to Documentation a week ago, took it out on the Comp Lab. Charles Williams tossed in 22 while Danny Franklin and Elliott Agee collected

13 apiece. Ken Johnson equalled the Williams output for the losers.

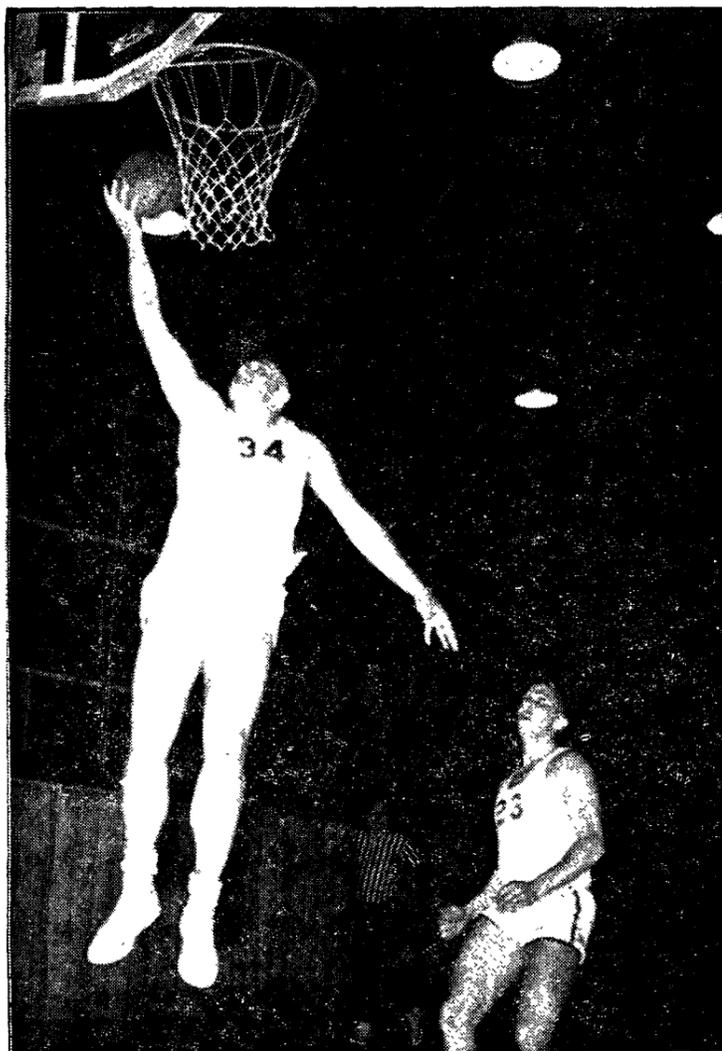
Later in the week the Comp Lab ran into another hot hand when John Stanford pitched in 26 I & S points. Ken Huntsinger fired 17 more while Selwyn Hemphill topped the Labmen with 12, one more than Johnson.

Jim Cunningham and Dan Chepkaukas took turns at leading S & M to their double win. The former chucked in 19 and Bill Bentley hit an even dozen in the win over the Engineers. Rick Shingler led the losers with 12.

Chepkaukas hit on 7 out of 8 from the field and added a gift shot for 15 in the win over Metrology Lab as Bently once more assisted, this time with 10. Orville Lee was high for the game with 20 in the losing cause and Ted Findley collected 14 more.

Project Roads continued their strong comeback after a slow start with a 70-59 trouncing of Metrology. It was a well-rounded attack led by Leon McDaniel that produced the win. McDaniel scored 16, Ben Hyatt and Bill Bagby got 14 apiece and Bill Rencher hit for 13.

The Engineers finally hit the win column by setting up an impenetrable defense that Logistics found impossible to crack. No players on either team were able to reach double figures in scoring as Ray Webb scored six for the winners and Rick Shingler was high with one more for Logistics.



**DRIVING LAYUP**—Bob Murphy lays up another two pointer at the scoring end of another Hqs, STC, fast break with Bill Lenzi ready just in case. Murphy is the leading scorer of the unbeaten Headquarters quintet and Lenzi, a very capable scorer himself, is the team's floor leader. The School Troop Command team raced through 18 straight regular season games and have added two more in the post season tournament that is underway at the Post Gym.



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## MARINE ASSAULT TOPPLES LEADERS

The Marines came in firing last week at the Post Lanes and by the time the smoke had lifted the STC Bowling league had a new leader.

The Headquarters Seconds got off to an early lead in the second half of the league season and had nursed a slim lead through four weeks. But all that went down the drain under the Marine assault.

Harv Dempsey was the lead gunner in the Marine attack when his 563 paced his mates to a trio of wins over the erstwhile leaders. Ed Waldrup shot a 518 and Roy Waldrep had two pins less for the losers.

Company A was another victim of a hot shooting quintet when the 2nd ETC took three points behind the 592 lead of Ken Allen. Wayne Briggs chipped in with a 551 while Larry Makanani paced A Company with 521.

The C Seconds got a 560 from George Smeltz and won all four from 9th ETC and Bill Belt shot a 584 total in leading the C Firsts to three wins over the B Seconds. Don Reichert accounted for 546 maples in the loss.

Other clean sweep winners were 7th ETC over 3rd ETC, and the B Firsts over 4th ETC.

## P&P Golfers Get Ready For Season

The first call to the Arsenal golfing fraternity has gone out in the form of an announcement of a reorganization meeting for the P&P golf league.

Howard Andrews, the league president, said that the session will be held in the Club House of the Piedmont Par 3 course, on Tuesday evening, March 14, at 7 p.m.

The president said that all phases of league activity will be discussed and that a new slate of officers will be elected for the coming season. Included on the agenda will be scheduling and playing rules.

Andrews added that the players in the league last year would have first choice of returning and that they should make their intentions known as soon as possible. New players will be accepted only as a replacement for those who do not return.

Returning players and those newcomers who might be interested in playing in the league are asked to call Andrews at 876-5167, or Dave Renton at 877-3778.

## Yacht Club Schedules Boat Show

Commodore Clarence C. Harvey said today that the Redstone Yacht Club will hold its fourth annual boat show and open house on Saturday, March 4.

The annual affair will be held in building 3614 on the Arsenal between the hours of 10 A.M. and 3 P.M.

The public is invited. Coffee and donuts will be served from 10 A.M. until 2 P.M.

In addition to the members boats on display, several dealers in the area will show their latest 1967 equipment.

Redstone military police asked that off-post visitors enter the Main Gate off the Parkway or Gate 1 on Patton Road.

Signs will direct visitors from the gates to a parking area near the open house building.

## Strikes Protect Lead In A-B-C

Ray DeBolt and Rene Mood proved to be a very effective punch last week as the Lucky Strikes protected their lead in the A-B-C Officers bowling league with a 3-1 win over the Pin Splitters.

The second place Black Jacks had the same margin over the Mixers, the Wheezers won three from the Hopefuls and Saturn jumped from the league cellar into fifth place by winning all four from the War Hawks.

DeBolt put together a 230 in the middle game and ended with a 546 total while Mood was a few sticks behind with 534. Duane Ready fired a 532 in the losing cause.

The Black Jacks took their lead from Max Baer who totaled 522. The Mixers were unable to give their leader, Al Judson, enough help to stave off the loss. Judson totaled 545.

Mike Shuput took individual honors for the week with a 559 in pacing Saturn to their sweep. Bill Loomis helped the cause with 530.

Another 545 in a losing cause was the story for Marty Bellerson of the Hopefuls. Their loss was pinned primarily to Bob Coon (513) and Tom Ellis (507).

## Black Jacks Drop Point Despite Win

The top three teams in the MMCS Officers League provided a good reason why the rest of the league is looking up at them last week when they posted all but two of the thirteen better than 500 scores shot in the league.

The Rounders and the Swags had four of the top bowlers apiece and the other three put in their licks for the Black Jacks. The leading Rounders got the most mileage out of their efforts by winning all four from the Rollers while the two challengers were being limited to 3 to 1 wins.

Al Leonard grabbed off individual honors in a spirited race with an even dozen keggers when he fired a 575 in pacing the Rounder attack that accounted for a 2636 scratch total.

He got a lot of help from Clark Holloway (546), Bob Love (536) and Rob Percy (515).

The Black Jacks fell another point off the pace despite winning three from the Bad Gnus as Ralph Nearhoof turned in a 532. George Earle connected for a 527 and Ron Parker hit for 517.

The Swags hit a 955 scratch total in one game and took three points from the Hubs, whose John Thureson turned in a 225 game and a 540 total. Tom Wilkerson paced the winners with 538, Jerry Whittaker hit for 536, Karl Pasch shot a 533 and Don Davis collected 527 sticks.

The final match failed to produce a single 500 although John Harris shot a 213 game as the Satellites and the Squirrel Hill Mob split four points evenly.

## Bad Luck Follows Fire At Starlite

The fire that hit the Starlite Lanes last week wiped out the weekly bowling activity of one civilian league and forced another loop to shoot at "split" pins. At least they kept splitting all night for the unhappy kegglers.

The Supply Management League wasn't able to go through their paces at all on Monday night while those in the Comp Center Mixed League would just as soon have seen their schedule set back a week also.

That was the opinion after the eight men and a like number of gal bowlers got through trying to figure out what happened to strike pocket.

Wayne Spruell was the only bowler in the league to pass 200 for a game and ended with the only better than 500 series. Spruell shot a 201 to close out a 538 set in leading the leading All-Sports Trophies to four straight wins over the Bad Gnus.

His team mate, Sue Todd, set the pace for the league's women bowlers with a 198 game and a 490 series.

The second place Skunks kept pace with a sweep over the Alley Cats and the Spares handed out the same treatment to the Squares.

The final match ended in a 3 to 1 win for the Hits 'n Misses at the expense of the Lucky Strikes.

## Ginny Payne Takes Individual Honors

Ginny Payne edged Mercy Villanueva for individual honors and the Rare Spares regained first place to feature the weekly action in the Thursday Morning Ladies' League at the Post Lanes last Thursday.

Ginny shot a 218 middle game and ended the day with a 558 total in leading the Splatter Pins to a clean sweep over the Four Hopefuls. Mrs. Villanueva came up a little short in each category with a 210 game and a 536 as the Tipsters took three out of four from the Bowling Bags.

Her exploits, however, led to the downfall of the Bags whose two-week reign at the top of the league standings ended. The Spares took advantage of the opportunity to move into the throne room with a sweep over the Queen Pins.

The Bags dropped into a tie for second with the Angels, a half point behind the leading Spares.

Terry Makanani boosted the Angels into the deadlock with a 181 game and a 505 set as her mates took three out of four from the Do Nothings.

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## AL SARGE TOPS CIVILIAN BOWLERS

Civilian bowling activity was limited to one league last week when the fire at the Starlite Lanes knocked out the Supply Management League and the AMC loop took off to celebrate Washington's birthday.

But the Field Service league made an effort to keep the outstanding individual performances rolling and did a good job of it with one Honor Roll count and

seven other better than 550 totals. Al Sarge made sure that the civilian leagues would be represented on the Honor Roll for the week by bombing a 611 count. His 234 in the third game enabled the Expeditors to squeeze out a split with the Baker Realtors. His team mate, Ed Bledsoe, didn't quite make 500 but he fired three straight 165 games to earn an ABC triplicate badge. Seth McCracken shot a 552 for the Realtors and Bob King was a single stick behind.

The leading Bramblets team turned a half point lead to a three and a half point bulge by winning all four from Loeb's Barbecues while Banner TV was losing three out of four to the Crackers.

Bramblets took their lead from John Weaver whose 552 total included a 7-10 split conversion, and Ralph Sturgill's 549. The Crackers got a 546 from Troy Faulkner while the TV men lost despite Jim Haight's 561.

Jim Watson took runner up honors with a 575 that paced the Misfits to a sweep over the Keglers and Bob Larkin led the Wheels to three wins from the Guided Muscles with 552.

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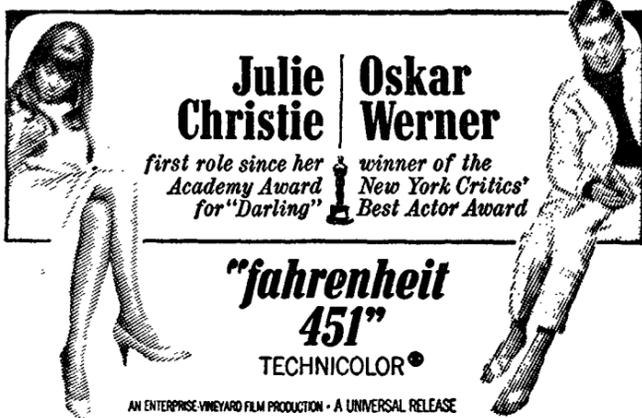
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## Ft. Jackson Here For Rugby Match

It was back to the practice field for the Redstone Rugby team this week in preparation for an invasion of the local gridiron next Sunday by the Ft. Jackson rug-ers.

The locals went to Columbia, S. C., last Sunday and suffered their second loss of the season, 14-

10. They hope to even matters second half for their win. with the Jackson team and hang Cook counted on a goal and con- up their fifth win in the 12:30 version and Taylor accounted for encounter on the Arsenal soccer the only Redstone try. field.

Following the Sunday clash with Redstone, led by George Cook Ft. Jackson, the Redstone rug- and Robert Taylor, jumped off togers have a date in Atlanta the a 10-3 half time lead but was following Sunday and are hopeful unable to keep up the early pace of competing in the Mid-West reg- after the intermission. The Jack-ional rugby championships to be son ruggers came on strong in the played in St. Louis late in March.

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# Decorated Veteran Is New Project Manager

## LTC Bowie Heads Special Warfare

Lt. Col. Kyle W. Bowie has been appointed Project Manager for Special Warfare, Headquarters, U. S. Army Materiel Command (AMC), by General Frank S. Besson, Jr., AMC Commanding General. One of the most decorated veterans of the Vietnam War, Colonel Bowie's new position will entail the coordination, planning and control of resources of the AMC activities connected with providing required weapons and equipment for special warfare.

Colonel Bowie was decorated with two Silver Stars, the Bronze Star, the Legion of Merit, the Air Medal and his second Combat Infantry Badge during his tour of duty in Vietnam in 1966.

His first Silver Star was earned while serving as battalion commander during combat operations near Don Dien Lo Ke on March 5, 1966.

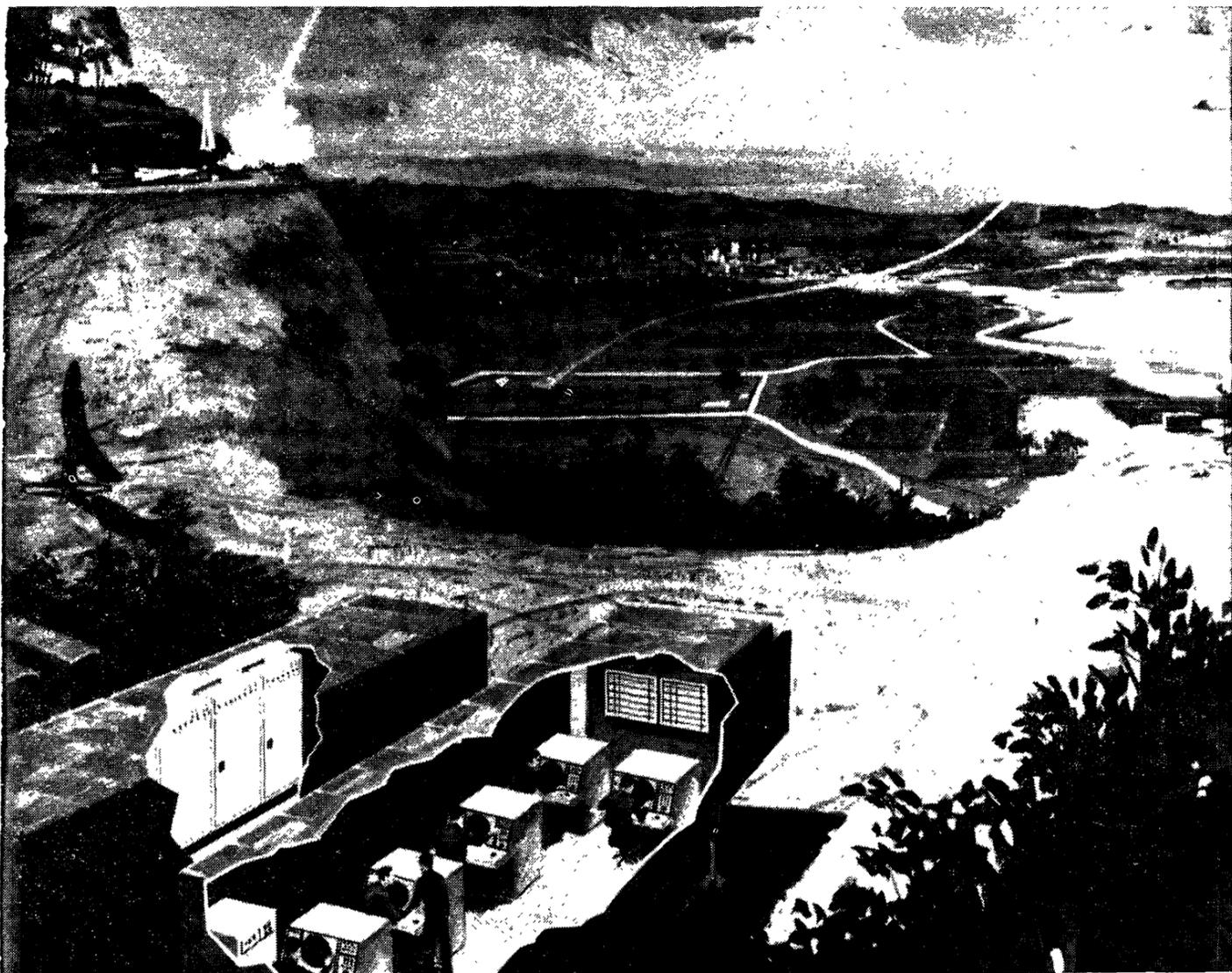
On June 11, Colonel Bowie's gallant action in a battle near Loc Ninh resulted in the award of a First Oak Leaf Cluster to his Silver Star earned three months before. An oak leaf cluster is substituted for each award after the original decoration.

After winning two Silver Stars within a 100-day period, Colonel Bowie was later decorated with the Bronze Star for exceptional meritorious service while assigned as Plans Officer, G-3 Section, II Field Force Vietnam.

While in Vietnam, Colonel Bowie was awarded the Legion of Merit for his duties as Executive Officer, 3rd Brigade, 1st Infantry Division at Lai Khe and the Air Medal for 25 flights performed in combat from January through April 1966. A veteran of the Korean War, he already held the Army Commendation Medal with two oak leaf clusters, the Purple Heart, and

the Master Parachutist Badge. States Military Academy, he has the Command and General Staff College, Fort Leavenworth, Kansas.

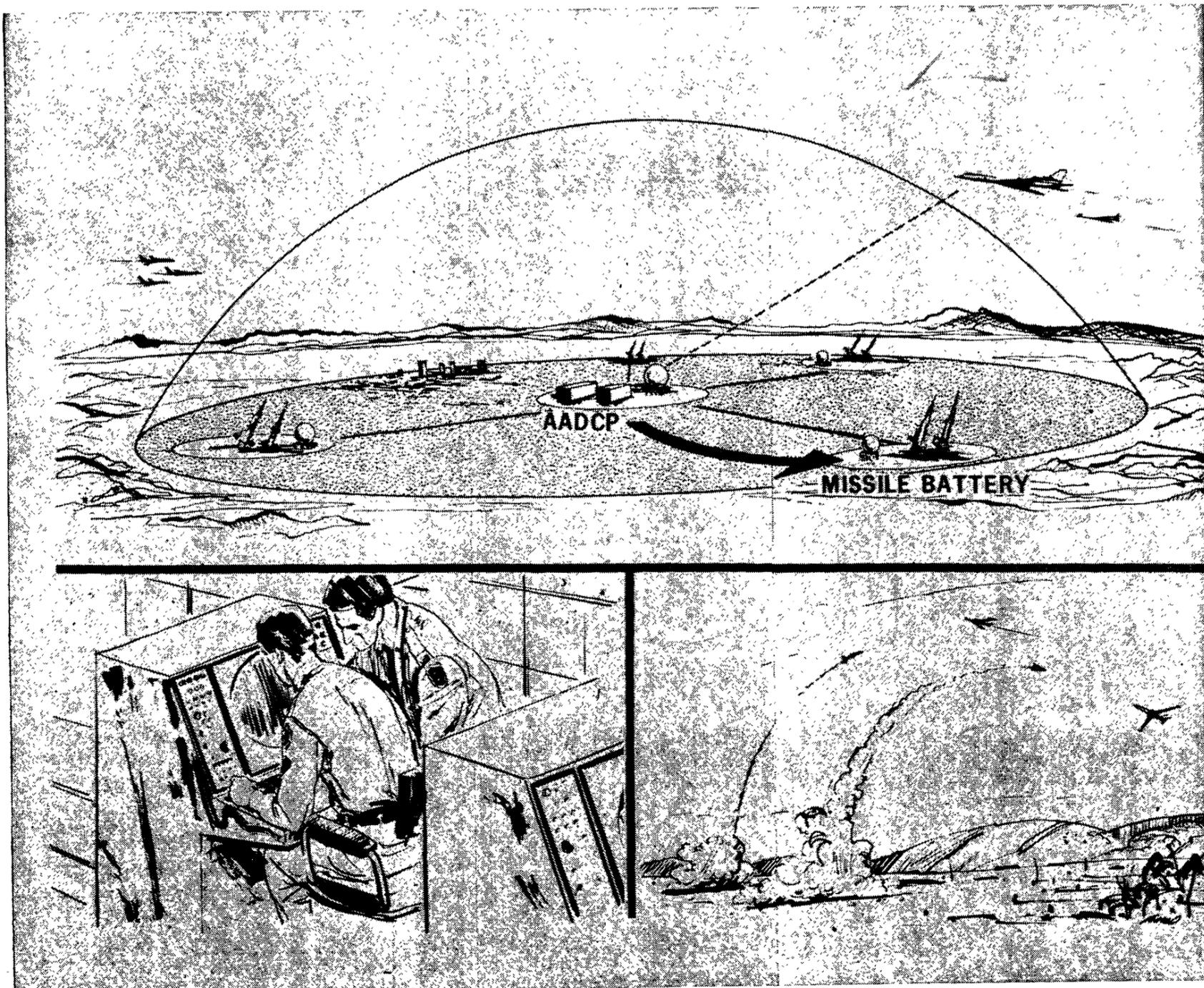
In August he will become a student at the Industrial College of the Armed Forces, Fort McNair, Washington, D.C.



**ARMY'S NEW MISSILE MENTOR**—Artist concept shows operation configuration of U. S. Army's new Missile Mentor system, designed to coordinate and control the firing of surface-to-air missile batteries guarding American cities against air attack. The system employs solid-state electronics and computer-quick reactions to

detect and track any aircraft in its defense area and to coordinate the firing of Nike Hercules and HAWK missile batteries against those identified as hostile. Built by Hughes Aircraft Company, Fullerton, Calif., the system is housed in two military vans that comprise a single command post.

## Drive Safely



**RING OF DEFENSE**—The Army's new Missile Mentor fire coordination and control system for surface-to-air missile batteries provides an umbrella of defense over American cities. Designed and built for the Army by

Hughes Aircraft Company, Fullerton, Calif., the system is now operational at a number of sites. Two military vans (top panel) house the computer-controlled system and comprise a single command post. The system will

detect and track any aircraft in defense area (lower left panel) and coordinate the firing of Nike Hercules and HAWK missile batteries against those identified as hostile (lower right panel).



### COL. HOCHMUTH VISITS ARSENAL

Col. M. S. Hochmuth, Commanding Officer of the Harry Diamond Laboratories, Washington D. C., was a guest last week of the Army Missile Command's Research and Development Directorate. Col. Hochmuth was welcomed to

the Arsenal by Maj. Gen John G. Zierdt, Commanding General of the Army Missile Command. During his day-long visit, Col. Hochmuth met with Col. Nils M. Bengtson, Director of the Research and Development Directorate and with John L. McDaniel, Technical Director. Following an organization and mission briefing, the visitor was given a tour of several of the Missile Command laboratories.

**NEW MMCS OFFICIAL** — Maj. Edward Schroth, newly assigned as Chief of the Foreign Liaison division, U. S. Army Missile & Munitions Center & School, received the Bronze Star for his services performed in Vietnam. He succeeds Maj. M. M. Medokowich as head of the office which directs hospitality and educational programs for students from 25 foreign countries. Medokowich is now the school's Assistant Secretary.

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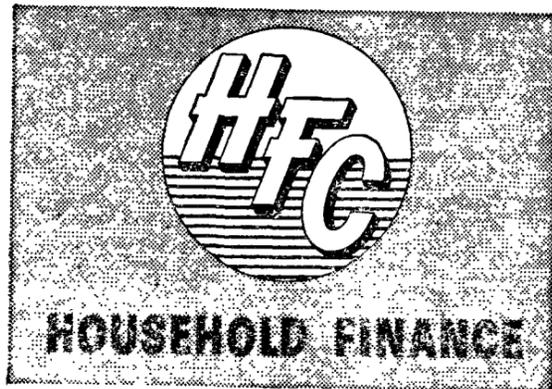
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300	55.09	29.87	21.54	17.42

Above payments include principal and interest. Life Insurance is available at group rate on loans above \$100. Loans up to \$300 under state supervision.

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700	64.92	34.30	
1000	92.30	48.76	\$40.05
1500	137.80	72.80	59.80
2000	181.96	96.13	78.96

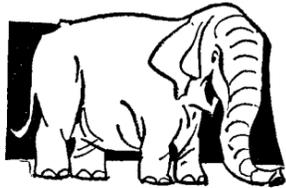
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# Champion TOW Gunner Is Ben Harrison

If Ben Harrison were to appear on television's "What's My Line?", the panel might call him a steel worker, a prize fighter or even a professional football player.

Though he is none of these, Ben is a rugged-looking guy with the massive arms and shoulders of a blacksmith.

In reality, the 43 year-old-native of Columbus, Indiana, is a Field Engineering Assistant with Hughes Aircraft Company. But as part of his duties, Ben regularly performs a feat that only a handful of men have ever done—and only a limited few have even seen it.

He is a gunner for the TOW missile system.

At Redstone Arsenal, Ala., where the Army's new tank-killer is undergoing development test firings, Ben has pulled more test firings—with both the ground TOW and the helicopter version—than all others combined who are connected with the guided missile system.

Like a mountain climber who has scaled more peaks or a big game hunter who has bagged more trophies, this fact is a source of pride to Harrison.

"I guess I get a kick out of doing something that few people have done," the bespectacled, crew-cut said. "Testing a new missile system is always a challenge. And, too, I like to feel that what skill I have is contributing to the development program."

What's it like to fire a TOW missile?

"Naturally, it makes a pretty good bang," Ben said of the weapon which can destroy any known enemy armor. "There is a slight jolt when the missile fires—but

there is no discomfort and you don't feel any heat or anything." When the missile is fired, it coasts for several feet for the protection of the gunner, before the flight motor kicks in.)

He continued: "The best comparison I could make, I think, would be like firing about four shotgun shells at the same time."

The most important thing, Ben said, is getting the sight on the target, after firing, and staying with it. With TOW, you have to track the target until missile impact and you don't have time to fool around."

With the helicopter TOW, "the gunner isn't as aware of the noise—which isn't enough to scare, or bother you anyhow."

Hughes has developed a stabilized sight for the helicopter that enables the gunner to keep a tank in sight—even while the pilot takes evasive action to escape ground fire.

Having fired TOW for top Department of the Army officials and for dignitaries of allied countries, did he ever feel any particular tension or pressure?

"Not really," said Ben, who has a lot of confidence in his ability and the weapon system, "I'm usually pretty relaxed."

Despite the impressive record Ben has notched as a gunner—he has scored direct hits repeatedly on tank-sized targets more than a mile away—he had no previous qualifications as a gunner.

"I had never fired anything larger than a shotgun, or a 30-06. In fact, my previous experience was a cameraman tracking missiles at Holloman Air Force Base,

New Mexico, from 1949 to 1955." "I simply volunteered for the gunner's job—and I got it."

"I have seen a lot of weapons, however, during my tour in the navy and my work in the last ten years and TOW is the most accurate weapon I have ever seen," he praised.

Once you fire most conventional rounds, Harrison explained, you have no control over the weapon after you pull the trigger—like a bullet, for example. But with TOW, you guide the missile to the target—even though the tank might speed up, slow down, or maneuver trying to get away.

This is accomplished by two-hair-like wires which play out behind the missile. Signals can be sent over the wires to the missile in flight, enabling the missile to maneuver in flight to attack a moving target.

Ben has fired the TOW at night and under all kinds of weather conditions. "But the toughest conditions were found in Alaska," he recalls. "Man, it was cold—25 below and sometimes lower. It was so cold I actually felt like crying."

"But it was interesting there—and different," he said. "It wasn't unusual for a moose or buffalo to run across your path before a firing."

Both the ground TOW and the airborne version (XM-26) are managed by the U. S. Army Missile Command at Redstone Arsenal. Col. James N. Lothrop is Project Manager for ground TOW; Col. Cyril D. Sterner, Land Combat Commodity Manager, directs the airborne version. Hughes Aircraft Company, for whom Ben works, is prime contractor for both.



**GUNNER AT WORK**—Ben Harrison makes a few last minute checks prior to takeoff. The TOW gunner was at the controls minutes later when the Army's first Airborne TOW firing was conducted at Redstone Arsenal, Ala. He guided the TOW missile to a fixed target located more than a mile away. This test was one in a continuing series of development tests now being conducted at the U. S. Army Missile Command. The Missile Command manages the XM-26 program (Airborne TOW) under Col. Cyril D. Sterner, Land Combat Commodity Manager.

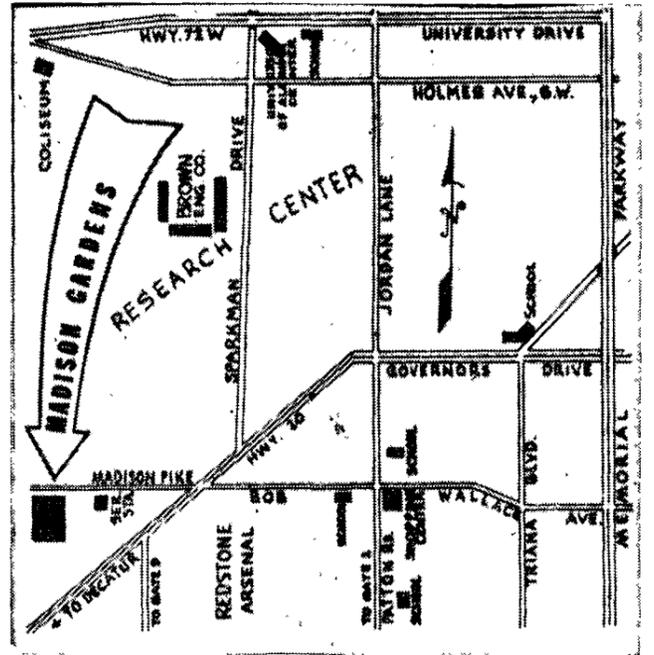
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# Missilemen Get Bigger Picture Of Work Here

The Army Missile Command's Research and Development Directorate will be richer in talent after 22 craftsmen in the Army Inertial Guidance and Control Laboratory complete an 18-month training course which started last week.

The course was coordinated by the Training and Development Division of the Civilian Personnel Office.

This is the first time a technical course, of this type, for craftsmen has been offered at the Missile Command. The career development program will include a practical approach to the three general areas of mathematics, physical

sciences and applied mechanics.

The class includes men, now employed in the Precision Fabrication Shop of the Prototype Branch in the Laboratory, who work closely with all R&D engineers engaged in exploratory development of missile systems.

Instruction will be given at the rate of four hours a week in a Bldg. 5400 classroom on Redstone.

It is anticipated that the trainees will have a better understanding of the overall picture of missile development work as a result of their studies, and that they will be better qualified to work with the engineers.

The course is specifically tailored to upgrade the theoretical and practical skills of the craftsmen and keep them abreast with the state-of-the-art.



**CLASS OPENS**—The first session of an 18-month training course for craftsmen in the Army Missile Command's Research and Development Directorate was held last week in Bldg. 5400 on Redstone. The instructor, Jack Siersma, second from right, explains the first lessons which cover mathematics, physical sciences and applied mechanics to students Robert Cannon and Ray Jones of the Precision Fabrication Shop, Prototype Branch of the Army Inertial Guidance and Control Laboratory. Herb Allen, right, Training and Development Division, Civilian Personnel Office, assisted in initiating the new course which was coordinated by his office.

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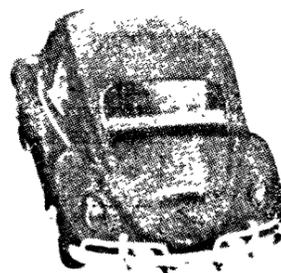
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1,000,001 LAWS LATER—Paul V. Choate (second from left) presents to Maj. Gen. John G. Zierdt the one millionth and one LAW to come off the production line at Hesse-Eastern. At right is Ray Edmondson, the Army's first Project Engineer for LAW, who holds the first weapon that was produced and delivered to the U. S. Army Missile Command in September 1962. Looking on at left is Raymond Turner who succeeded Edmondson as LAW Project Engineer. Turner is now with the TOW Project Office and Edmondson is Deputy Shillelagh Project Manager. LAW, or M-72, is a light anti-tank weapon for the infantryman which was developed and deployed by the Missile Command and subsequently turned over to the Army Munitions Command.

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Page 14 The Redstone Rocket — March 1, 1967

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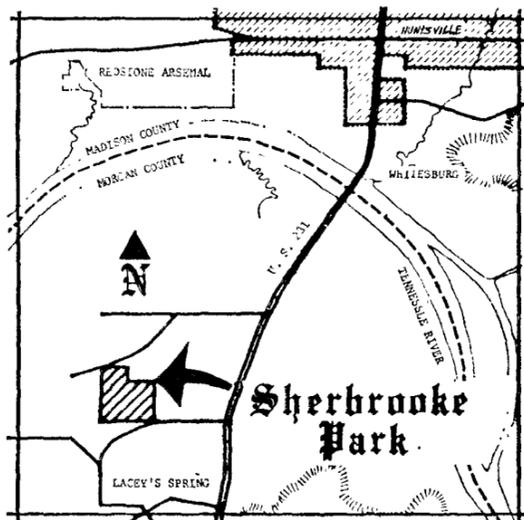
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# AMC Sergeant Majors Hear Gen. Besson Describe Role

"Top priority" should be given to building the noncommissioned officer corps, General Frank S. Besson, Jr., commanding general, Army Materiel Command, told 17 sergeants major at the command's first sergeant major conference, held recently at AMC headquarters in Washington.

"As you are no doubt aware, over 40 percent of the officer personnel and over 70 percent of the enlisted personnel in the Army today possess less than two years of active service," General Besson said. "This means that each of you and each of our other senior noncommissioned officers will have to give top priority to identifying, motivating, and training any potentially qualified future noncommissioned officer. These men must be given every opportunity to learn, progress, and eventually become the leaders the Army so urgently requires. This void between top and bottom must be filled by qualified leaders. This is your responsibility, and more than

that, it is a mandatory responsibility that you must assume.

"You may be wondering how these references to noncommissioned officers' qualities and requirements tie in with the Army Materiel Command. Well, have you ever stopped to think just how widely dispersed are the elements of the Army Materiel Command—just how few military personnel are physically located in these elements—just how long and tenuous are the channels of military communication, and as a result, just how often the junior officer or noncommissioned officer will find himself in a position where a decision must be made and he is the only one there to make it.

"This, then, is why I stress the need for qualified, thoroughly, trained noncommissioned officers. They are not going to have four years of personal experience to draw on, so education and training are the substitute until the time when experience will also be theirs," General Besson added.

"The one characteristic which every sergeant major

and senior noncommissioned officer must possess in today's modern Army is 'professionalism.' This is a versatile and dedicated noncommissioned officer of the highest caliber. He is one whose physical, mental, and moral standards are those of a leader who is physically fit, technically qualified, skilled in leadership, and who serves as teacher, humanitarian, and diplomat in the far flung cold war fronts, as well as directs his subordinates in the major task of being combat ready. He is the man who has his sights set on the future.

"In my own travels throughout the Command and from reports of my other commanders, the fact that most impresses me is the dedication and the intelligence of the senior officers and noncommissioned officers. These two groups, I believe, are just about as highly motivated as any I have ever encountered in my military career. Now, as in no other past period of time, this is a vital necessity if the Army is to sur-

vive," he pointed out.

Army Materiel Command Sergeant Major Harry H. Hess was conference host. Sergeant Major of the Army William O. Wooldridge also spoke. They both stressed the importance of the Sergeant Major's role and pointed out that the attendees could not rest on their laurels, but must devote full time to the training, welfare, and well-being of enlisted personnel.

The conferees were briefed on

current activities in the command by representatives of staff elements. Speakers were Col. J. S. Kurtz, personnel and training; Col. D. L. Sallee, operational readiness; Chaplain (Col.) R. W. Jungfer, Jr.; Col. G. A. Barten, international logistics; Lt. Col. Albert K. Tank, research and development; Col. J. H. Schofield, Jr., project managership; T. M. Harvey, comptroller activities; Col. C. S. Freed, Inspector General; and Lt. Col. Joseph E. Melanson, Information Office activities.



**HEADLINE SPEAKER AT SYMPOSIUM** — Prof. Steven Anson Coons of Massachusetts Institute of Technology, will be one of the major speakers at the Computer Graphics Symposium to be held March 1-3 in Huntsville. Jointly sponsored by the Army Missile Command and Marshall Space Flight Center, the Symposium is expected to attract several hundred attendees. Professor Coons' subject will be "Mathematical Considerations for Dynamic Graphic Representation." He is in the Design Division of the Mechanical Engineering Department of MIT and previously had been a design engineer for Chance Vought Aircraft Division of United Aircraft. [U. S. ARMY PHOTO]

## University Plans New Short Course

The University of Alabama Huntsville Campus will present a short course, "Rotational Dynamics for Spacecraft Applications," March 20-31, 1967.

The purpose of the course is to present a comprehensive development of the mathematical description of the rotational behavior of space vehicles and of the torques which act to disturb their orientations; thereby, providing a definitive basis for the study of the passive and semi-passive methods of attitude stabilization (such as gravity gradient stabilization), as well as a partial foundation for the treatment of problems of active attitude control.

The lectures will be well integrated and focused on a single subject area.

Enrollment may be made by individual or companies. Any number of persons from a single company may enroll as long as there are vacancies. For further information contact Conference Activities, University of Alabama, Huntsville, Alabama, P. O. Box 1247; 887-4700, Extension 321, 322.

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# Military And Civilian Personnel Take Advantage Of Army Training

Six officers are included in a list of 44 Arsenal personnel who left their normal duty assignments this week for off-post training courses under the Command's career development program.

The local personnel traveled to military schools, contractor plants and colleges in ten states, the District of Columbia and Canada for the graduate level training.

The Training and Development Division of Civilian Personnel administers the MICOM Career Development Program. Under it selected civilian employees and military personnel are enrolled for advance training in their individual career fields.

Those leaving this week will be away from Redstone for periods ranging from one week to three months.

The largest single group is the 13 Arsenal personnel who went to Ft. Lee, Va., to attend classes at the U. S. Army Logistics Management Center. One of these, William Crum (S & M) is taking the 5-week Defense Advanced Inventory Management course.

The other 12 started the Defense Procurement Management course. Included in this five-week course are Emmett Pearson (Hawk) and Wilodene Edwards (Nike-X).

Also included are Rachel Meeler, Milton McGowan, Charles Mills, Christine Toney, Roy Welch, Lt. Michael Haney, Houston Townsend, Hosea Bartlett, John Rhodes and Lt. Jim Tarter, all assigned to the Procurement and Production Directorate.

Seven others went to Rock Island, Ill., for attendance at the U. S. Army Management Engineering Training Agency.

Johnny King (C & DP) is attending the Middle Management Seminar while John McArthur (R & D) and Col. John Levaas (Hawk) are included in the Seminar for Quality Managers.

Lt. Bruce Sharp (Lance) is studying Elements of Reliability and Maintainability along with Dennis Vaughn (P & P). William Wood (DASO) is enrolled for Work Planning and Control and Stanley Wicker (C & DP) is taking Economic Analysis for Decision Making.

Lt. Harvey Berson (Pershing) went to Aberdeen Proving Ground, Md., for Orientation for Design Personnel at the Human Engineering Laboratories and Serge Tonetti is enrolled for CBR Weapons Orientation at Dugway Proving Ground, Utah.

The U. S. Army Finance School, Ft. Benjamin Harrison, Ind., is the destination of Charles Trull (F & A) and Leola Agee (DASO). The former is taking the Financial Management System Automated Applications course and the latter is in the Programming and Budgeting class.

E.A.R. Marshall (Nike-X) went to Los Angeles to study Propulsion Theory and Design at the University of California, and Michael Deegan (Lance) is attending the Civil Service Commission school at Kings Point, N. Y., for Administration of Public Policy.

Charles Wingard (Nike-X), Hector Finger (Shillelagh) and Joseph Robinson (P & P) are attending the U. S. Naval Materiel School

in the nation's capital. The first two are attending the Incentive Contract Structuring Workshop while Robinson is enrolled for the Procurement Executive Refresher course.

Another P & P employee, Oscar Read is at Wright-Patterson AF Base, Ohio, for the Reliability course at the School of Systems and Logistics, while Lewis Ellenburg (Metrology) is in Mamaroneck, N. Y. to study Precision Measurement at Hallmark Standards, Inc.

Roland Gossett (DASO), Willie Wood (S & M) and CPT Curtis Truett (VAAP) are studying Munitions Safety at the AMC Safety Agency, Charlestown, Ind., and Charles Brooks (Metrology) is in Smith Falls, Ontario, Canada, for a course in Precision Measurements at Guideline Instrument, LTD.

Five of the Arsenal students will stay in Huntsville for a 40-hour course on Laser Principles at the University of Alabama. They are Edmund Wheelahan, Arthur Jones and James Johnston (all of R & D), Charles Bucy (Instal & Svs) and Henry Ramos (Hospital).

The Assistant for Communications sent Clarence Tucker and Roland Crews to Jacksonville, Fla., for Telephone Equipment Survey Training under the General Services Administration.

Completing the list are Emmett McDaniel (Post Engineer) and Helen Hammonds (Hospital) both of whom are in Cincinnati for training under the Department of Health, Education and Welfare.

The former is studying Combustion Evaluation Sources and Control Devices and the latter is enrolled for Fundamentals of Occupational Health Nursing.

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## A CHEVROLET PICKUP

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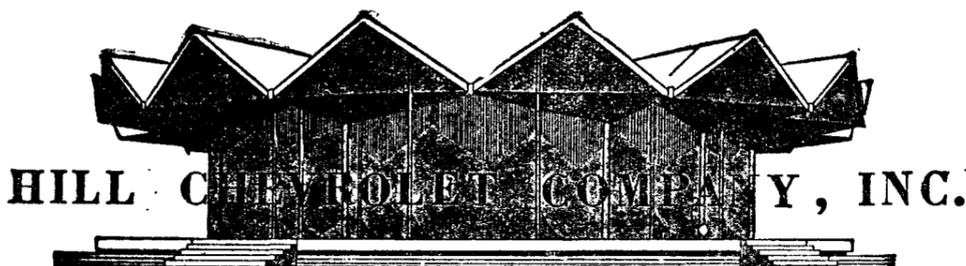
CHEVY STEPSIDE PICKUP equipped with . . . Heater • padded dash • padded sun visor • 2 speed electric windshield wipers and washer • Back up lights • Seat belts • Hazard warning flasher.

# \$1865.00

Price Does Not  
Include Sales  
Tax or Tag.

## \$188.00 Down . . . GMAC or First National Bank Financing

You'll never know how much you can save or how little it would cost to trade . . . Until you get a Hill Chevrolet deal.



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