



**MOCKUP OF SPARTAN MISSILE**—This is a full scale mockup of the Spartan Missile which the Army has test fired at the Kwajalein Test Site in the Marshall Islands. The Spartan is a long-range interceptor being developed for the Sentinel Anti-ballistic Missile System.

# The Redstone Rocket

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

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APRIL 3, 1968

**Arsenal-Wide**

**Spot News**

**Dial 112**

# FIRST SPARTAN FLIES



**H. HOYT HARRIS** to study management at Massachusetts Institute of Technology on Sloan Fellowship award.

## Hoyt Harris To Study On Sloan Fellowship

H. Hoyt Harris of the U. S. Army Missile Command, is one of only two Army civilian employees to be awarded a 1968 Sloan Fellowship at Massachusetts Institute of Technology. He is Deputy Director of the Systems Engineering Division of the SAM-D (Surface-to-Air-Missile-Development) Project Office.

The Fellowships provide for a

year's study at M.I.T., leading to a Master of Science degree in Management. The Sloan Fellows attend seminars in management and meet outstanding leaders in business and government here and abroad.

Foreign travel will be nothing new to Harris, who has traveled to England, Scotland, France, Italy and Japan on official Army business. (See SLOAN on Page 3)

## Generals Study Air Defense

Certain to be "star" pupils are three generals taking the five-day Air Defense Command Course presented by the Officers Training Department of the Army Missile and Munitions Center and School this week.

The seventh class since the course was instituted last June by Lt. Gen. Robert Hackett, ARADCOM commanding general, includes Maj. Gen. Melville B. Curn, commanding general, Headquarters 1st Region ARADCOM, Stewart Air Force Base, N. Y.; Brig. Gen. Lloyd L. Leech, Brigade commander, 31st Artillery Brigade, Oakdale, Penn.; and Brig. Gen. Howard E. Michelet, deputy chief of staff for operations, headquarters. (See 3 GENERALS on Page 3)

## Welfare Council Election Scheduled Here Next Week

Seven of the ten seats on the Civilian Welfare Fund Council will change hands next week when some 8,200 Department of Army civilians at Redstone cast their ballots in the annual Council elections.

They will select representatives from three major Missile Command directorates, the Sentinel Systems Command, and the Missile and Munitions Center and School. The tenth seat is newly created and will be filled by personnel of the Metrology Center.

The councilmen elected next week will join with incumbents, Abner McNaron, Missile Command headquarters, Thomas Childress, Supply and Maintenance, and Jack (See WELFARE on Page 3)

## Thiokol Motors Power Long Range Interceptor Of Sentinel ABM System

The Spartan, a long-range interceptor missile for the Sentinel System, has been successfully test fired by the Army at Kwajalein Test Site in the Marshall Islands. This was the first flight for the missile being developed as a part of the Communist Chinese oriented antiballistic missile system deployment announced on Sept. 18, 1967 by the Secretary of Defense.

The missile was launched at 10:01 P.M. (CST), Mar. 30.

The 55-foot long Spartan is designed to intercept intercontinental ballistic missiles and will be deployed at Sentinel sites throughout the nation.

Lt. Gen. Alfred D. Starbird, Sentinel System Manager, termed the flight a "gratifying success for the

first test of the Spartan."

The three-stage Spartan is the Army's biggest and most powerful missile.

The nuclear armed Spartan will be capable of intercepting incoming missile warheads at ranges of several hundred miles. Spartan intercepts will be made outside the earth's atmosphere.

It is one of two interceptor missiles being developed for the Sentinel System under management of the Sentinel System Command at Redstone Arsenal, Alabama. The second is the short-range Sprint Missile which has been undergoing flight tests at White Sands Missile Range, N.M., since late 1965.

The Spartan is being developed by the McDonnell-Douglas Corporation's Missile and Space Systems Division at Santa Monica, California.

Brig. Gen. I. O. Drewry, Com- (See SPARTAN on Page 3)

## Army Civilians Will Be Honored Friday For 30 Days Service In South Vietnam

Patriotism and entertainment will be the main features of a spring meeting of the Tennessee Valley Chapter, Association of the U. S. Army, Friday evening at the Redstone Arsenal Officers Open Mess.

The meeting, with a variety program which does not include a principal speaker, will begin with a social hour at 6:30 p.m.

"We thought it would be a good

time for our AUSA Chapter to recognize Department of the Army civilian employees who have served 30 days or more in Vietnam and representative groups of the thousands of young men who serve the nation by participating in R.O.T.C. programs," J. Burl Gallo-way, chapter president, said.

"As an extra attraction," he continued, "a cadet group of American Rocket Society members

from West Point, at Redstone for an orientation visit, also has been invited as chapter guests. We are privileged to have these young men who will become future military leaders visiting us for this occasion."

"R.O.T.C. detachments from Florence State College and the University of the South at Sewanee, Tennessee have agreed to (See CIVILIANS on Page 3)



**"V" FOR VIETNAM**—Shown is an artist's sketch of a pin which the Tennessee Valley Chapter, Association of the U.S. Army, will present Friday night to Department of the Army civilian employees at Redstone Arsenal who have returned from 30 days or more volunteer duty in Vietnam. The pin, suitable for wearing as a lapel pin or tie tack, is the emblem of the U.S. Army Materiel Command in red, white and blue enamel with a gold "V" centered on the emblem.



**SPARTAN**

(Continued From Page 1)

manding General of the Sentinel System Command, and Kwajalein Test Site Range Commander, said the flight "was the most recent of a series of tests we have had in the program to date. It confirms our confidence in our research, development and production program."

The missile was launched from a vertical concrete cell located in an earthen mound on the West end of Kwajalein Island—the site of test launchings of its predecessor, the Zeus Anti-missile Missile.

Guided in flight by a nearby radar, the Spartan rose during first stage boost and then raced down range across the ocean.

The 16-foot long second stage and the 11-foot long first stage make up the Spartan's main propulsion system. The flight was designed to test the main propulsion system as well as the missile's structural integrity, response to guidance from the ground and controllability in flight.

The missile did not carry a warhead, though the external configuration and most of the internal components were of tactical design.

Spartan flights will continue from Kwajalein Island while launching facilities for both the Spartan and Sprint are being built on nearby Meck Island, 17 miles North of Kwajalein Island. Also being constructed on Meck is the first model of the Sentinel System's Missile Site Radar (MSR). The MSR will be used in the system for detection and tracking of targets, as well as guidance and tracking of the interceptor missiles in flight.

In future system research and development tests, the MSR and the interceptor missiles will engage targets launched from Vandenberg Air Force Base, Calif., 5,000 miles away.

Spartan is both longer and heavier than its Zeus predecessor. It is also more powerful and will have a longer range.

Development of the Spartan was commenced in 1965 to give the Army's ballistic missile defense system a wider area coverage with each battery.

Secretary of Defense Robert McNamara announced last September that the Sentinel System employing the Spartan and Sprint Missiles and the Missile Site Radar and the Perimeter Acquisition Radar (PAR) would be deployed to defend the country against limited missile attacks.

The Spartan and the long-range PAR will enable the Sentinel to protect the entire country—including Alaska and Hawaii—against

**WELFARE**

(Continued From Page 1)

Bailey, the at-large member in forming the new Council. Officers will be elected by the councilmen at their first meeting.

Ballots will be distributed to all civilian personnel by the nominating committee in preparation for the April 10 election. Voters are asked to mark their ballots according to directions, and return them through regular mail channels to their organization headquarters.

Personnel from the Sentinel Systems Command selected three nominees for the post now being held by Rene Mood. They are Caleb Burgoyne, Joseph Lahiere and Cecilia Johnson.

Michael Foster, who has served as president of the Council for the past year, will relinquish his seat as representative of the Research and Development Directorate. Named to contest for the seat are Thomas Campbell and Raymon Dotson.

Four candidates have been named to seek the Missile and Munitions Center and School seat now held by John Parks. They are John Gullick, Robert Kay, Ralph Osborne and W. E. May.

James (Ed) Brazelton and Jean Long are the nominees to succeed David Walsh as the representative of the Procurement and Production Directorate.

The Directorate of Arsenal Support Operations will be voting to fill two seats now occupied by

these limited attacks with 15-20 missile sites.

Western Electric Company is the Army's prime contractor for the Sentinel System and Bell Telephone Laboratories is responsible for system design and development.

Bell Labs is also developing the missile borne guidance system for the Spartan. Thiokol Chemical Corporation, Huntsville, Alabama, division is developing the solid propellant and casting the Spartan motors.

Western, Bell Labs and Douglas have been involved in the Army's air defense Nike Missile Systems since the Nike-Ajax, which was the first anti-aircraft missile system and was deployed in the early 1950's.

Development of Sentinel components was started under the Nike-X Program and its predecessor the Nike-Zeus Program. The first Sentinel site in the United States is expected to be completed in the early 1970's. To date the general locations of 10 candidate Sentinel sites have been announced by the Department of Defense.

**CADETS TO VISIT HERE TOMORROW**

This will be an active week for 30 West Point cadets who will be touring facilities at the U.S. Army Missile Command and Redstone Arsenal on April 4-7.

Lt. Col. Kenneth C. Van Auken, Dragon Project Manager, is in charge of planning the activities for this annual visit from the Rocket Society of the U.S. Military Academy.

The cadets will arrive at the Redstone Airstrip Thursday evening and will meet with Maj. Gen. Charles W. Eifler at the U.S. Army Missile Command Friday morning.

Weekend activities will include a laser demonstration, briefing sessions and tours of the Command's Research and Development Directorate, and other Redstone elements.

The cadets will return to West Point Sunday following church service at the Post Chapel.

Leon Towery and Robert Seavers. The candidates who will seek the places are Sylvia Weyandt Control Office; Larry Miller, Asst. for Operations and Security; E. Witt Compton, Post Engineer; Jean Byrom, Post Hospital; Lester Mitchell, Maintenance Support Division; and James Neely, of the Assistant for Logistics.

The personnel of the Metrology Center will fill their newly created seat from among Charles Sparkes, Larry Fralick, John McSparrin and James Coble.

**CIVILIANS**

(Continued From Page 1)

present our program," Galloway said.

About a dozen student cadets from each school will entertain with popular musical selections which they have worked up for spring shows on their respective campuses.

Galloway said the Tennessee Valley Chapter had invited 31 Redstone civilian employees who have served 30 days or more volunteer duty in Vietnam, to attend the meeting with a guest.

"We also invited Mrs. Lotha L. Abbott to attend and accept posthumous honors for her husband who died in February following his return from Vietnam duty," he said. "She and her son have accepted."

The Vietnam returnees will be presented with a certificate of appreciation from the chapter and a pin specially designed to distinguish them as civilian employees who have served in Vietnam.

The pin, suitable for wearing as a lapel pin or tie tack, is the emblem of the U. S. Army Materiel Command in red, white and blue enamel with a gold "V" centered on the emblem.

Galloway said the price of dinner tickets for this meeting had been kept as low as possible to enable a large group of chapter members to be present when these groups who contribute so much to the Army mission are singled out for recognition.

Charles K. Sparks, Metrology Center, is overall chairman of arrangements for the meeting. His telephone No. is 876-1056.

Others from whom advanced tickets may be obtained for the April 5 meeting are:

Galloway (Thiokol), 876-9505; Greg Moshkoff (MICOM), 876-2512; C. E. Richardson (Sentinel), 876-9210; H. T. Mitchell (Civil Defense), 536-5421; Fred Glickman (General Electric), 883-3242;

Kay Slayden (Brown Engineering), 532-1430; J. Al. Muller (MICOM) 876-1109; Reavis O'Neal (MMCS), 876-3244; Thomas D. Johnson (Decatur), 353-9450; Joe L. Payne (Attorney), 536-2411; W. T. Weissinger, III (Chrysler), 842-4821; Sgt. Maj. John Monger (MICOM), 877-3122; W. T. Brooks, (Wyle Labs), 837-4411.

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**Reiche Named Warrant One**

People have started saying "sir" to a missile-man. Former Sergeant First Class Frank P. Reiche was promoted to the grade of Warrant Officer 1, which entitles him to the salutes of his enlisted friends.

The class of '41 graduate of Pleasantville High, N. Y. received orders for a change of duty as well, although he stays at Red-

stone Arsenal. He moves from the Sergeant missile division at the Army Missile and Munitions Center and School to the Army Missile Command, where he is on the staff of the National Inventory Control Point.

A veteran of 21 years of military service, W O Reiche served in the Pacific Theatre during World War II and was stationed with the occupation forces in Germany after the war. He completed a course as a ballistic missile maintenance technician at MMCS in 1964 and has been stationed at Redstone Arsenal ever since.

**SLOAN**

(Continued From Page 1)

Born in Birmingham, he received a Bachelor of Science degree in Electrical Engineering from University of Alabama in 1950. After working for three years with an Atlanta firm, he served two years as a First Lieutenant in the U. S. Air Force. Following his tour of duty, he worked with the Alabama Power Company before coming to Redstone in 1957.

He is a member of Theta Tau Professional Engineers Fraternity, the Masonic Lodge, and Kiwanis International.

His wife is the former Marlyn Maxine McFachern, also of Birmingham. They are the parents of three children.

The other Army employee to receive a Fellowship is from Fort Monmouth, N. J.

**3 GENERALS**

(Continued From Page 1)

ters, ARADCOM, Ent Air Force Base, Colorado Springs, Colo.

Gen. Coburn joined the 22-member class today, having completed the first two days in an earlier session. The order is designed to provide senior ARADCOM commanders and staff officers with an understanding of the management techniques which can be employed in the maintenance of ARADCOM's missile systems. ARADCOM has operational control of scores of missile batteries defending major cities and strategic points throughout the United States against enemy air attack.

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# 'No Greater Love' To Be Presented At Post Chapel

"No Greater Love", an Easter Cantata composed by John W. Peterson will be presented at the Redstone Arsenal Post Chapel on Good Friday at 7 p.m.

Mrs. Robert Ficke is directing the program with Mrs. Stewart Rodman at the organ backing the 30-voice choir. At the piano will be Marcia LeReau.

Soloists include Lt. James West, tenor; Lt. James Zimmerman, baritone; Mrs. V. B. Hammond, soprano; Pvt. John Prince, baritone; and an alto duet by Mrs. Miller Gatwood and Mrs. Robert Jones.

The story covers the period from Christ's early ministry through the Crucifixion and Resurrection.



**EASTER CANTATA**—Three of the principals participating in the Easter Cantata to be presented at the Redstone Arsenal Post Chapel at 7 p.m. Good Friday are Mrs. Stewart Rodman, organist; Mrs. Robert Ficke, director; and Mrs. Thomas Gannon, narrator. The score was written by John W. Peterson, it's title: "No Greater Love." The story covers the period from Christ's early ministry through the Crucifixion and Resurrection.

## Seniors Eligible For First Officers Wives Scholarship

The first college scholarship awards of the Redstone Arsenal Officers Wives Club will soon be made to two children of active and retired military personnel, the club announced last week.

Mrs. Paul B. Shuppener, advisor to the scholarship committee, said all applications for the two awards of \$250 each must be turned in through high school guidance counselors by Friday, April 5th. The necessary forms are available at the various high schools.

Applications consist of three sections: a title page with full name and address; a completed questionnaire; and a 350-word essay on the topic of "Plans for the Future."

Funds for the awards were raised at a Harvest Ball last fall and through sales of the Officers Wives Club cookbook.

Mrs. Schuppener explained the eligibility rules governing the awards. Two awards of \$250 each will be made to a boy and girl who are now seniors in high school

and are dependents of active or retired military personnel. The father of each applicant must be an active or associate member of the Redstone Officers Open Mess. The mother of each must also have been a member of the Officers Wives Club for at least six months prior to April 5th.

All applications will be evaluated by high school guidance counselors and teachers of English and then evaluated by the club in two separate sessions. A finalist and semi-finalist will be selected in each category.

Certificates of award will be presented to the winners at their respective high school graduation exercises. Each winner must have been accepted by an accredited junior or senior college. The checks will be paid directly to the colleges for credit to the winners. If either winner fails to enter college as planned, the award will go to the semi-finalist.

The club's reviewing committee will include representatives of

the commanding generals of the Missile and Munitions Center and Army Missile Command, Sentinel School; director of Marshall Space Systems Command, Huntsville Division of the Corps of Army Engineers; Commandant of the Army are Mrs. John P. Kirkland, chairman; Mrs. Horace B. Dunn; Mrs. Nils M. Bengtson; and Mrs. Franklin H. Cochran, with Mrs. Schuppener as advisor.

## Air Defense Wives Host Missile, Munitions Wives

Wives of officers from the Air Defense Division at the Missile and Munitions Center and School were hostesses for the Spring Lunch at the Redstone Officers Open Mess last week.

The gay flowers of spring were paper, but they bloomed everywhere—as the rope for swings, on

a plaque announcing Spring, as centerpieces on the lunch tables, in a wheelbarrow, and on a child size surrey with a fringe on top. Balls of leaves and roses were suspended from the ceiling.

Mrs. Raymond C. Bishop was chairman of the event and served as mistress of ceremonies introducing Mrs. Paul G. Schuppener, wife of the school commandant, and Mrs. June Guerre, Revlon representative.

The former announced the Redstone Officers Wives Club scholarship to a child of a member of the women's club.

Mrs. Guerre gave fashion tips on makeup and skin care.

## Garden Club Explores Local Soil, Climate

The Redstone Arsenal Garden Club met at the Officer's Club Wednesday morning, March 27.

A short business meeting was held. Mrs. Archie Meagher presented a program on "Spring Planting." Several newcomers requested advice about growing their favorite varieties of flowers and vegetables in the southern climate. A lively discussion followed concerning the climate, soil, and growing conditions in the Huntsville area. It was announced that the vegetable garden plots have been plowed in the field between Wesson Circle and Ripley Drive. Members may reserve a plot by contacting the Housing Office.

The next meeting will be April 24 at 9:30 a.m. in the Officer's Club.

## NCO Wives Offer Scholarship To NCO Dependent

Applications for the \$500 scholarship offered by the Redstone Non-Commissioned Officers Wives Club to a deserving dependent of an active duty NCO stationed at Redstone are now available at the NCO Open Mess and the Community Services Office.

The applications must be completed and returned to the NCO Open Mess by May 1.

For further information, call Mrs. Edwin L. Gedling, scholarship chairman, after 5 p.m. at 534-0063.

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## Engineers To Be Tested At University, Huntsville

The Engineer-in-Training Examination will be given at the University of Alabama in Huntsville at 8 a.m., Saturday, April 27, Room 229, Morton Hall.

The E-I-T, which is being given at UAH for the first time, is geared for senior engineering students. Persons with a degree and less than four years engineering experience, or persons with four years engineering experience are also eligible to take the exam.

The E-I-T will be given in two four-hour sessions, one in the morning and one in the afternoon. The morning session will cover mathematics (analytics and calculus), chemistry, fluid mechanics, thermodynamics, and statics. The afternoon exam will cover dynamics, mechanics of materials, physics, electrical theory and

economic analysis.

Applications and payment of fees should be made by April 12. Forms may be obtained at UAH Graduate Studies Building, Rooms 203 and 223.

All engineers who wish to be registered as professional engineers in the state of Alabama must take the E-I-T, which is the first part of a two day examination.

The second part of the exam, satisfying final requirements for registration, must be taken in Montgomery. Engineers with a total of 8 years training and experience may take one or both parts of the exam in Montgomery.

For further information, you may write or call Robert T. DeWoody, P. O. Box 1247, phone 837-4700, ext. 318.

## MMCS Citations Presented

Citations were presented to 21 personnel of the Army Missile and Munitions Center and School here last week by Col. John R. Henderson, Assistant Commandant.

The Bronze Star Medal was awarded to Capt. William S. Littlefield of the Directorate of Individual Training and Chief Warrant Officer Ernest R. Doss of the Directorate of Logistics.

Other military awards included MMCS Soldier of the Month, PFC Olan D. Williams of the 7th Enlisted Training Company, and the Army Commendation Medal presented to 1st Lt. Elvin T. Smith of DIT, Sgt. First Class Paul Lawson, Jr. (1st Oak Leaf Cluster) of Logistics, and Spec. 6 Eugene B. Turner of Unit Training Command.

A Department of the Army certificate of achievement was earned by Miss Nina McCormick of the Office of Information. An outstanding performance rating was bestowed on Wilfred J. Schmidt of the Office of Doctrine and New Materiel.

Sgt. Maj. William L. Farmer received the non-commissioned officer Logistics program certificate.

A total of 22 persons were pinned with 30-, 20- and 10-year ornaments and accepted certificates in recognition of their extended government service:

Thirty years — Linwood I. Varney, Jr. and Harry D. Palmer, Logistics.

Twenty years — Charles E. Amos, Benjamin F. Heard and

Claude Lee, Logistics; Wesley C. Ruth, DIT.

## NCO Wives Judge Crazy Hats

The Non-Commissioned Officers Wives Club held their social meeting, a "Crazy Hat" party, Thursday night in the NCO Open Mess.

The most original hat won first place, and was worn by Mrs. John Mazikowski. Second place went to Mrs. Robert Metcalf for the craziest hat, and the prettiest hat, worn by Mrs. Vincent Alba, won third.

The judges were Mr. and Mrs. David Phillips and Sgt. and Mrs. Lyndon Jenne, and were selected from the audience.

Thirty members and one guest, Mrs. Lee V. Welch, attended the party.

The hostesses for the event were Mrs. Louis DeMichele, Mrs. John Blankenship, and Mrs. Earnest Aimer.

A Series E Savings Bond purchased for \$18.75 in May 1941 is today worth more than \$42 and is continuing to earn interest at a higher rate than before.



**MISSILE BRIEFING FOR AIRMEN**—Richard Hartig, second from left, of the Hawk Project Office at the U.S. Army Missile Command, describes a cutaway model of the Army's Hawk missile for students from the Air War College, Maxwell Air Force Base, Ala. The visitors received briefings on Missile Command activities during their morning visit with the Army. Shown from the left are: Navy Commander D. M. Sullivan, Hartig, Air Force Lt. Col. A. J. Celick, Army Lt. Col. D. H. Sudderth, Jr., and Coast Guard Commander C. E. Larkin.

## Biggest Class Yet To Graduate Here

The largest class so far this year will graduate at the weekly ceremony of the Army Missile and Munitions Center and School here Friday. The itinerary includes 132 students from 10 different courses, including 21 members of the U.S. Marine Corps and 17 officers and 34 enlisted men from the U. S. Army.

Guest speaker for the event will be Maj. Verle B. Hammond, director of the Review Department in the Office of Doctrine and New Materiel.

Maj. Hammond came to MMCS last September following a year of combat duty with the 1st Infantry Division at Da Nang, Vietnam. Prior to that, he had served in Europe and Korea since coming on active duty 12 years ago.

Raised in Florida, Maj. Hammond is a 1955 graduate of Flori-

da A&M University holding a Bachelor of Science degree in mathematics. There he also received an ROTC commission.

Adding to his career education are courses at four different Army schools. Maj. Hammond's citations include Bronze Star with three Oak Leaf Clusters, Air Medal with two OLC's, Army Commendation Medal, and the Vietnamese Armed Forces Medal of Honor 1st Class.

Residing with him at 293 Skinner Dr. on the Arsenal are wife Eleanor, daughters Veronne, 12, and Pamela, 9, and son Anthony, 10.

Graduation begins at 9:30 a.m. in the Post Theater on Patton Road. A variety of pre-ceremony music, plus appropriate anthems will be played by the 55th Army Band. The event is open to public attendance.



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# Redstone Basketball Crown At Stake Tonight

## MARS Cagers Dominate Opening Round Of Play

The second quarter proved the undoing for two of the Army's three representatives in the second annual Redstone basketball tournament last week and each dropped out of contention by losing to Marshall quintets.

Data Processing was the first CWF casualty when they dropped a 59-50 decision to the Test Lab Fireballers. The space Science Lab Quantum Jumpers made it an all MARS opening round with a 59-45 win over the Industrial Engineers.

The Fireballers went up against the Astrionics Navigators in the first semi-final game on Monday evening with the Jumpers paired against the ICO team that captured the CWF title for the other final berth.

The two Monday night winners will clash tonight for the RSA championship following a third

place duel between the losers of the semi-final games. The two games will be played at the Evangel School gym with the tip off for the opener set for 6:45.

The Fireballers and the Data Processors battled on fairly even terms during the first period with the NASA quintet on top 16-12. But it was a different story in the second quarter as the CWF five was unable to get the ball into the hoop and fell behind at the intermission, 33-18.

Don Donald and Ron Tepool paced the Fireballers to their lead which was extended to 51-33 at the three-quarter mark. The Processors came back strong behind the hot hand of Al Maddux in the final quarter but it proved to be too little, and too late.

Donald topped the well rounded Fireballer attack with 13 points and Tepool hit for 10 more. Maddux topped DPO with 16 points with Joe Stover close behind with 14.

In a close replica of the opener, the Jumpers took a 11-10 first period lead and stretched it to a 12-point bulge at the half as Gary Arnett hit with consistency from the outside and Bill Harrison took care of the in-close shooting.

The second half turned out to be a close duel with the MARS team adding a point to their winnings margin in each of the last two periods.

Arnett and Harrison divided scoring honors with 19 apiece and Jim Watkins tossed in 12 more for the winners while Don Wood was high for the Engineers with 17 and Gene Winterburn collected 13 more.

## Spares Seek Title Clincher This Week

Only one point stands between the Spares and a clear claim to the championship of the Comp Center Mixed League as the league goes into its final night of action this week.

The Spares clinched at least a tie for the crown last week by winning three out of four from Courts and Co., while the All Sports were being held to an even split by the Bad Gnus.

Helen Matthews led the Spares to their tie-clinching win with a 506 and Gene Matthews supported his wife with a 496 count. Johnny Jetton topped the Sports with a 507 total and Peggy Rousseau countered with a 485.

Ed Murrah provided most of the fireworks for the weekly session when he fired a 252 game and used it for a springboard to a big 646 count in pacing the Strike Outs to a sweep of the Skunks. Doris Hielt chipped in with an even 500 for the winners while Joe Bennett hit for 517 in the losing cause.

Jim Traglia was almost as tough as Murrah in one game with a 246 and his 569 was enough to get the Lucky Strikes past the Fortren Fours with three out of four. The Strikes followed Traglia's lead by posting the best scratch series of the league season, a 2046 count.

The final match of the week saw the Hawks take three points from Huntsville Realty as Gayle Green fired a 517 count.



**SPONSOR TROPHY**—Three members of the Missile Command's girls basketball team present their winning trophy to Mike Foster, president of the Civilian Welfare Fund Council, the team's sponsor in the Huntsville Industrial League. Wynell Newton and Helen Smith stand by as the team captain, Gladys Hill, handled the honors. Foster said that the trophy, representing the MICOM team's first round title, would be on display at Building 7101.

## Marauders And Braves End Season In Deadlock

A playoff had to be staged Monday night between MICOM and School Brigade's Company B to decide the Redstone Arsenal basketball champion. The 'B' Braves, one of 11 entries from the Missile and Munitions Center and School, won two games last week and MICOM captured its finale as they finished in a dead heat with 13-1 records.

With Bob Atkinson pouring in 91 points, the Braves' victims were the combination team from 1st-4th ETC, 83-65, and Company D, 112-36. Atkinson scored 44 and 47 points in the two contests to finish as the league's high scorer with 381 points (27.2 average). Don Reichert scored 16 and 17 in support of Atkinson, while Jim Norles added 18 against Company D. Richard Gillespie scored 22 and Al Taylor 21 for 1st-4th and 'D' was paced by John Carter and Karl Kelly with 12 apiece.

MICOM routed 'D' by a 94-36 count one night before 'B's walk-away. Leading the Marauders were Doug Morgan with 16 and Bob Shineflug with 14, while the Demons received 10 from Ike Morrison and 10 from Tom Browning.

In other contests last week, the combo squad from 5th-7th ETC won a pair but still fell short of third place as 6th ETC won its final game. The 5th-7th Silencers, league leaders the first half of the season, dumped the 291st MP's 70-62 and the Marine Corps 64-46. Bernie Atkins potted 25 and 15 in the wins, Al Palmer adding 17 to the first and Roger Devole leading the way against USMC with 16. Fred Jackson headed the Cops with 17, as teammates Ken Jackson and Vic Mandia each hit 15. Jim Ayer was the only consistent Marine with 11.

Paced by Jim Boeske's 25 points and Gary Plymale's 21, the Six-Shooters pounded 3rd ETC 86-38 to offset a 20-point output by John Anzelmo.

The 9th ETC Roadrunners were double winners in the only other games aside from forfeitures. Breaking even on the year at 7-7, the Roadrunners earned close decisions over Company A 63-50 and 8th ETC 66-64 in overtime.

Dwight Reeves and Tony Kulasa were the big guns in each victory. Both scored 17 along with Dave Stafford's 15 the first night, then Reeves came back with 25 and supported by Kulasa's 20 in the overtime squeaker. High for the Aces were Jim Denton, 16, and Arnold Cruz, 15. Eighth's inspired effort was headed by the 33 tallies

of Howard Grimes.

Atkinson walked off with honors for the trophy awarded to the league's top scorer. Nearest challenger in the point column was Boeske, who scored 265 (18.9) for Sixth. Others with an average of 11.0 or better included Atkins with 209, Anzelmo 200, Tom Glynn of Third 167, Kualasa 166, Morgan and MICOM teammate Richard Moore, 158 each, and Reichert 155.

The final regular season standings:

Company B	13-1
MICOM	13-1
6th ETC	12-2
5th-7th ETC	11-3
2nd ETC	10-4
1st-4th ETC	9-5
9th ETC	7-7
Company D	6-8
291st MP's	6-8
Marine Corps	6-8
3rd ETC	4-10
8th ETC	3-11
Company A	3-11
Company C	2-12
UTC	0-14

## P&P Golfers Set For Opener

A new champion is assured when the Procurement and Production Golf league opens its third season of play on Tuesday, April 16, at the Piedmont Par 3 course in Huntsville.

Eddie Hammonds and Don White who combined to capture the league crown last summer, have dropped out for the 1968 season leaving a wide open field. However, the 1966 winners, Floyd Clark and Ray Bridges, are still in the running and have their sights trained on regaining their crown.

Clark, who is doubling as the league secretary this year, said that the league roster is tentatively filled with twenty two-man teams set to open play.

He added that the committee is presently working out a prize distribution list which will probably include weekly as well as seasonal awards. The tentative prize list will be submitted to league members for approval during the first few weeks of the league season.

## Bob Rice Shoots P&P To Crown

Twin 19-point scoring performances by Bob Rice on consecutive nights last week gave Procurement and Production the consolidation championship for the Civilian Welfare Fund basketball league.

P&P captured the final game by shading SAM-D, 46-40. The winners had qualified for the final game with a 56-42 win over Supply and Maintenance while SAM-D made it to the finals with a narrow 44-41 win over Sentinel.

Rice accounted for nine fielders and a foul in each of the winning games with Bolling connecting for 12 in the win over S&M and 14 in the final. Lassiter topped the S&M scorers with 12 and Austin got 10 more.

Ken Magnant was the most productive scorer for SAM-D in the title clash with 18. Allen led the Missilemen to a 45-29 win over G&C Lab in the first tourney game with 14. Jacobs took over the scoring lead against Sentinel with 13.

S&M came back to capture third place for the tourney with a 58-55 decision over Sentinel with Dick Lassiter leading the way with 25 points. King topped Sentinel with 14.

It was the second win out of three starts for S&M. The Directorate five had advanced with a 54-51 win over the Metrology Lab as Austin and Brown divided scoring honors with 12 points apiece. Lee fired in 21 points for the Labmen.

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## All-Sports Lock Out AMC Rivals

The All-Sports put a clamp on the championship in the AMC League last week but the three-way duel for runner-up honors continues as tight as ever.

The Sportsmen put the title beyond the reach of any of their rivals with a four point sweep over the Packers. The deadlocked Avengers and Voyagers also scored sweeps but it turned out to be too little and too late.

The Bombers fell another point off the pace despite winning three out of four from the Travelers. The Bombers take on the Voyagers tonight while the Avengers have a date with the Tigers.

Harold Leahy was the top gunner in the Sportsmen's title clinching battle with the Packers with a 552 count. Harold Madry backed Leahy with a 532 count as the new champs won all three games in the final two frames.

Gaylord Huffman and Jim Galbreath teamed up to provide the fuel for the Voyager sweep of the Rejectors. Huffman protected his league leading average of 175, with a 538 and Galbreath totaled 535.

Tom Patterson was the Avengers' leader with a 574 that included a closing 222. Bob Brand continued his torrid late season pace with a 558 to keep the Bombers in contention.

In other matches the Raiders followed the 539 lead of Bob Lindeman to a sweep of the Stars and the T Birds were paced by Clark Tannehill in scoring a shut-out over the Tigers. The Lancers and the Winners split their set.

## MEETING CALLED FOR CWF SOFTBALL

The initial steps toward reorganizing the slo-pitch softball league will be taken next week with a meeting on Tuesday in Room A-115 of Building 5250.

Sid Douglas, who will be relinquishing the presidency of the CWF-sponsored loop, called the meeting for 4:45 that day, and called on all organizations planning to enter a team to be represented.

Douglas said that league officials will be elected and they will be responsible for setting up a schedule for completing plans for the league season.

## Handball Leaders Await Opposition

Awaiting a challenge from the loser's bracket are PFC Joe Podobnik and Max Friedenberg, currently undefeated partners in the Special Services handball doubles tournament being conducted in the Workout Facility, Bldg. 3474 in the MMCS area.

Podobnik and Friedenberg swept past four opponents to reach the final rung in the winner's bracket. Their foe in the championship match will come from one of the following once-beaten duos: Sgt. Lyle and Sgt. Clinton, Capt. Sherron and Lt. St. Cermain, or Spec. Weyl and Col. Tipton.

Weyl and Tipton had a bye in the lower bracket semi-final and were scheduled to play the winner of the Lyle-Clinton vs. Sherron-St. Cermain battle.

Matches consist of a best two-of-three series and a team must be defeated twice to be eliminated from competition.

Podobnik possesses the singles handball title, while Lyle and Capt. Johnson have captured singles tournaments in paddle tennis and squash, respectively. Doubles competition in paddleball and squash will be staged in the near future.

Meanwhile, trophy presentations to the winners and runnersup in handball singles and squash singles will be made Thursday, Apr. 11, in the Service Club at 3:30 p.m.

## Flat Tire Wipes Out Oliver Bid

Three more Honor Roll counts went into the Supply Management League books last week but the loudest noise was generated by a bowler who didn't even hit 500.

After sitting out the opening game to fix a flat tire Bob Oliver took his wrath out on the pins with games of 170 and 269 as the Strike Outs took three out of four from the Auto Center. Joe Holub just missed with a 595 for the center.

The misfortune kept the soldier from making the Honor Roll for the third time this year and wiped out all chance he had for posting the highest series total of the season.

Tom Patterson, Floyd Clark and Fred Stewart were the bowlers that did reach the better than 600 category bringing the league's total to 35 in 27 weeks.

Patterson hit a rousing 655 for Lily Flagg Auto Clinic but it wasn't enough to stave off a 3 to 1 loss to HUBCO. Gary Phillips topped Hubco with 574.

Clark clobbered 614 of the Starlite maples for the Ramblers and his mates chipped in with enough support to account for a sweep over the Pin Busters. Joe Medders led the supporting cast with 568.

Stewart's fifth Honor Roll count of the season was a 600 even and it led the All Sports to a sweep at the expense of the Bushwackers. The sweep enabled the Sportsmen to extend their lead over HUBCO to three and a half points.

## CAMPING TIME

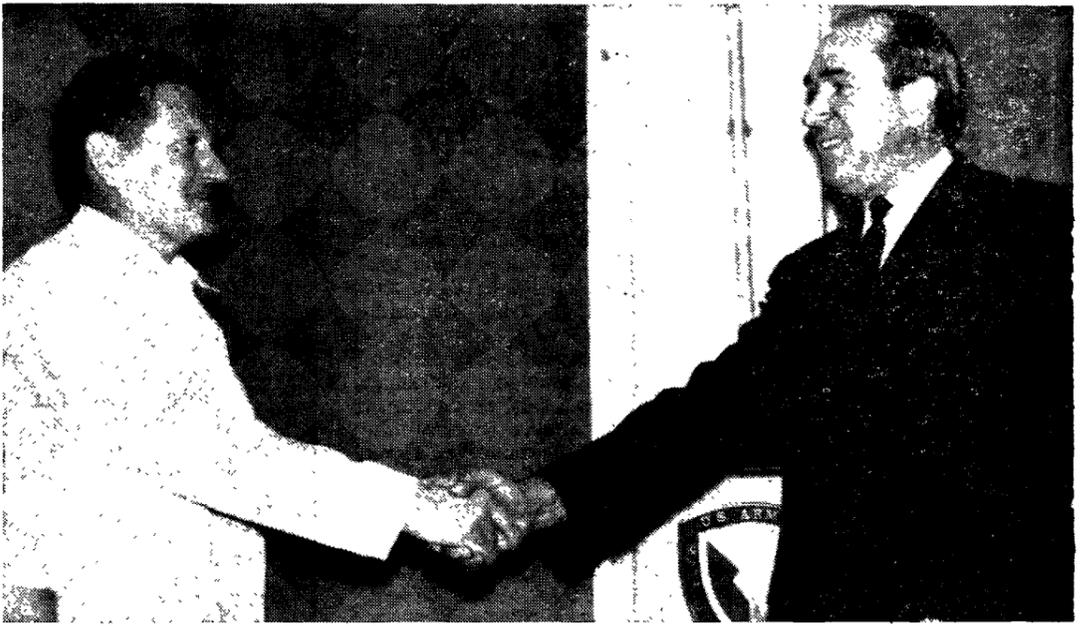
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**4,000 STUDENT**—Lloyd O. Gilbert, (left), corrosion consultant with the Army Weapons Command at Rock Island, welcomes Maurice G. Riddle of the Lance Project Office as the 4,000 student to study corrosion control under the auspices of the Army Missile Command's Personnel Training Division of the Civilian Personnel Office. Gilbert is teaching contractors representatives as well as Department of Defense personnel the various corrosion control techniques which have been developed. He scheduled classes at Redstone Arsenal last week and this week. The courses are designed to help both the man who handles the hardware and the man who handles the paperwork.

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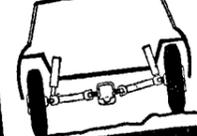
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## Army Awards \$2.6 Million For Hawk Missile System

The Army Missile Command has awarded \$2.6 million in two awards for the Hawk Missile system.

The larger of the two awards was for \$1,956,460 to the Raytheon Company for added production of Self-Propelled Hawk Missile System ground support equipment. The work will be performed in Andover, Mass., and in other locations.

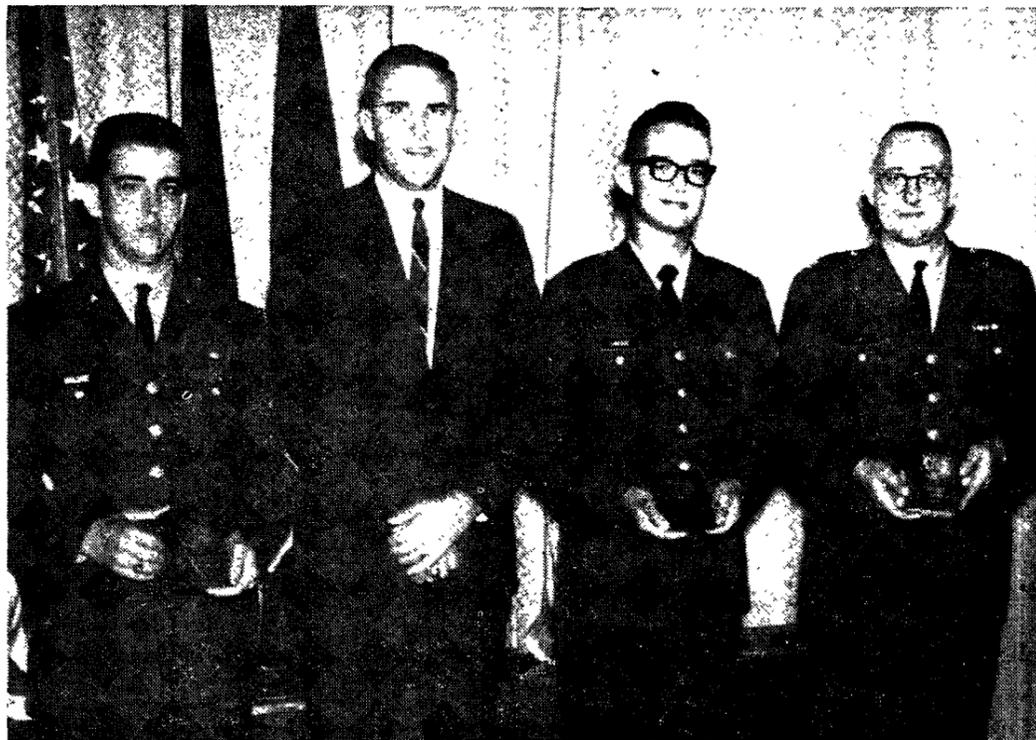
\$650,647 was awarded to Applied Devices Corporation for production of industrial prototype hardware for the Improved Hawk Simulator. This work will be performed in the company's plant at College Point, N. Y.

Hawk is a highly mobile member of the Army's air defense ar-

senal of missiles, capable of intercepting high performance aircraft and airbreathing guided missiles at low altitudes. The weapon system is operational with U. S. and North Atlantic Treaty Organization troops.

The Self-Propelled Hawk was designed to provide additional mobility and ease of emplacement for the Hawk system currently deployed, while the Improved Hawk includes a new guidance package, larger warhead and improved propellant.

Technical supervision of Hawk is from the Army Missile Command, where Col. John G. Redmon is Hawk Project Manager. Negotiating the contracts was the Command's Procurement and Production Directorate.



**FOUR EARN PLAQUES**—At MMCS graduation last week, the Tennessee Valley Chapter of AUSA presented special plaques to honor graduates with a 96.0 scholastic average or better. From left: PFC Joseph L. Malone, Kay W. Slayden, a director of the local AUSA chapter; PFC George B. Lenoue and Capt. Andrew C. Lewis. Not pictured: PFC Winston C. Neubecker.

## Caverns Tour Set Saturday

The Service Club has scheduled a tour of Cathedral Caverns for Saturday at 9 a.m.

Located at Grant, about thirty miles from Huntsville, Cathedral Caverns is one of the most colorful and unique attractions in Alabama. The Stalagmite Forest located within the cave has the largest stalagmites in the world. The temperature in the Cavern remains at 60 degrees the year round.

That the cave was inhabited by Indians has been authenticated by archaeologists. The pile of rocks near the entrance is thought to have been the location of a burial or ceremonial ground.

The tour bus will leave the Service Club at 9 a.m. and return at 5 p.m. A picnic lunch will be furnished.

## HONOR STUDENTS REPRESENT THREE COUNTRIES HERE

Three nations and three branches of service were represented by honor students Friday in a graduation ceremony at the Army Missile and Munitions Center and School.

Nine students from eight courses were distinguished from a class of 116, and four men received special recognition from the As-

sociation of the U. S. Army for achieving a scholastic average of 96.0 or better.

Kay W. Slayden, a director on the Tennessee Valley Chapter of AUSA, made plaque presentations to Capt. Andrew C. Lewis of Spokane, Wash., who scored 97.0 in the ammunition officer course; PFC Joseph L. Malone of Pittsburgh, Pa., 96.0 in Nike Missile launcher control; and PFC George

B. Lenoue of Kent, Minn., 96.8, and PFC Winston C. Neubecker of Parma, Ohio, 96.2, both in ammunition storage.

Others listed as tops in their respective courses included Sgt. Angel-Antonio Angelino of the Italian Air Force, 92.2 in Nike launcher control, and Cpl. Karl U. Hermanns of the German Army, 90.7 in Sergeant missile guidance. Two members of the U. S. Mar-

ine Corps also excelled. They were Staff Sgt. John A. Rinehart of Janesville, Wis., 95.0 in Hawk air defense technician, and PFC James M. Morrissey of Washington, D. C., 94.3 in Hawk missile and launcher.

The other honor graduate was PFC Dennis F. Burnick of Milwaukee, Wis., with a 91.0 average in Pershing ballistic missile digital computer training.



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- 1967 CHEVROLET Caprice, 4-door hardtop, vinyl top. \$3195
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- 1966 LINCOLN Continental 4-door. \$3495
- 1966 OLDS 98. 4-door. \$2795
- 1967 BUICK Electra, Custom 225, 2-door hardtop, vinyl top. \$3795
- 1967 BUICK Electra, Custom 225, 4-door hardtop, vinyl top. \$3895
- 1965 BUICK Electra, Custom 225, 4-door hardtop, vinyl top. \$2495
- 1966 TEMPEST Lemans, 2-door hardtop, vinyl top. \$2495
- 1967 PONTIAC Catalina, 2-door hardtop, vinyl top, 8,000 miles. \$3195
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- 1965 CADILLAC Coupe DeVille, 2-door hardtop, vinyl top. \$3295
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- 1967 PONTIAC Bonneville, 4-door hardtop. \$3295
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# How Weather Bureau Warns Of Local Tornadoes

(Fourth in a series of five articles)

A weather bureau office is an extremely busy place when tornadoes threaten. Teletypes clamor away, radar scans the skies, phones ring continuously and the forecasters on duty work with increasing urgency.

On one typical March stormy day, a terse three-line teletype message was flashed to the Birmingham weather bureau from the Meridian office. This message warned that a huge thunderstorm was being tracked on Meridian radar and that it was approaching the Alabama border near Columbus, Miss., and appeared to contain considerable hail.

Birmingham weather radar had already been watching this thunderstorm, but on receiving the note from Meridian, extra attention was given to it. The forecasters on duty zeroed in on the giant thunderstorm to determine its intensity, direction and speed of movement, and by scanning the beam up and down the side of the thunderstorm, even its height was determined.

The thunderstorm did indeed look severe and warnings were immediately issued for counties in its path. About 90 minutes later it spawned a tornado that cut a path one-fourth to one-half mile wide across southern and eastern Cullman County. However, the communities in its path had been warned up to a half hour in advance.

Such teamwork is common. New Orleans or Jackson may tip off Mobile and Montgomery as to intensity of radar echoes approaching south and central Alabama, Memphis or Nashville may caution Huntsville, etc. In turn, stations in Alabama may give Atlanta valuable tips as to severity of conditions that will later move

into Georgia.

On several occasions when severe lightning has knocked out Birmingham's radar, weather bureau offices at Huntsville and Montgomery have done excellent jobs of covering the Birmingham area. Only a few nights ago powerful winds disrupted communications at the Huntsville weather bureau and the Birmingham office immediately issued warnings for Madison County.

An example of the teamwork was evidenced on May 6, 1967, when a severe weather outbreak produced tornados across north central Alabama during the afternoon. In every case, the areas were warned well in advance.

But the weather bureau is first to recognize that warnings are not always this timely. Sometimes thunderstorms intensify so rapidly that there is not time for warnings to be issued.

While radar is an extremely valuable tool in severe weather work, it is certainly not fool-proof. Thus it is possible for a tornado to strike with very little radar indication of its severity. Such was the case at Harpersville, in Shelby County, in January 1964. The thunderstorms that produced the tornado appeared to be moderate in intensity and as a result no warning was issued for the Harpersville area.

Needless to say, tornado weather requires close cooperation of not only weather bureau stations, but many other agencies as well. In Alabama, stations at Huntsville, Birmingham, Montgomery and Mobile are hooked together, not only by teletype, but also by the Civil Defense "Hotline"—officially known as NAWAS. Also hooked into NAWAS, in addition to the various CD offices, is every post of the State Patrol and several police and fire departments.

In Kansas City, the weather bureau has a special office set up to watch for conditions favorable for severe local storms such as tornados and severe thunderstorms.

A "watch" usually includes an area about 120 miles wide by some 300 miles long and is issued about six hours in advance. It is not intended to mean that a tornado has necessarily been sighted. Rather, the watch is meant to mark off the general area most favorable for the formation of a tornado. After this is done, the local weather bureau stations watch the conditions closely since it is their responsibility to issue the actual "warning."

And when the warning is issued, it means that there is evidence that a tornado or severe storm has formed, or at least suspected of being formed. It is time then to take immediate safety precautions. A warning, naturally, covers a much smaller area than the more general watch. In fact, a warning may cover a few counties, a portion of one county, or even a single community. The weather bureau places emphasis on the difference between a "watch" and a "warning."

After the danger of a tornado passes a community, an "all-clear" is issued. However, if there is some danger of violent weather affecting the community again later, it is called "limited all clear."

While radar is a valuable tool, it would be useless without rapid communication and the excellent cooperation of radio, and TV stations around

the state. This will be the first season that the Alabama ESSA Weather Wire has been in operation with its 58 outlets blanketing the state.

All four weather stations in the state can transmit their statements

and warnings on this circuit and get instant distribution all around Alabama. The system should prove invaluable for severe weather warnings as well as serving as the medium for the distribution of routine forecasts and summaries.

Page 10 The Redstone Rocket — April 3, 1968

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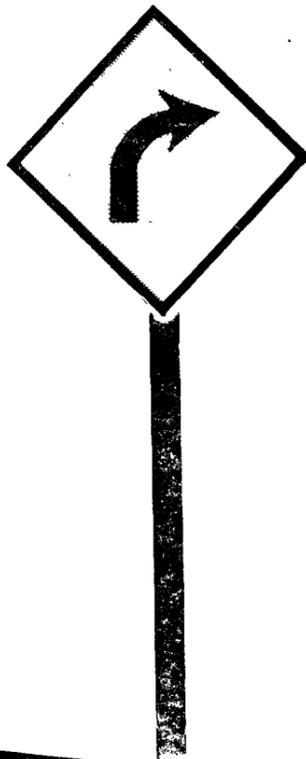
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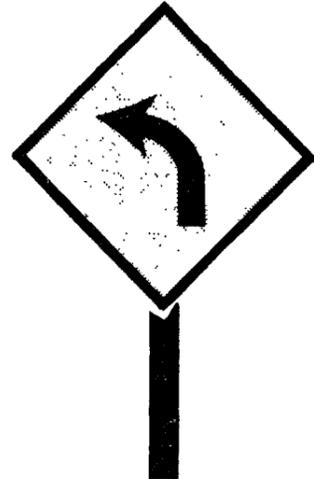
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YES, IT'S TRUE—34 healthy people in the Repair Parts Division of the Army Missile Command Procurement and Production Directorate have amassed a total of more than 34,000 hours of sick leave. Left to right, first row are, James A. Brown, Jr., Marion A. Dodgen, Alwin C. Blumenschein, Clarence J. Luebig, James D. Garrett, Jr., Gladys H. Moorehead, Flora J. Gibson, Reba C. Galbraith, and Grady L. Scott. Second row,

left to right, Larry D. Moyers, Santo Gibilisco, Irene S. Chapman, Joanne Wilkerson, Evelyn T. Caldwell, Aldredge M. Stephens, Vernon L. Oden, and Mary E. Brennan. Third Row, Left to right, Frederick M. Yates, Paul R. Kittle, Bobby G. Morrison, Anna M. Beaver, Marguerite E. Martin, Retha J. Jones, and P. L. Moring. Fourth row, left to right, James F. Willis, Jean W. Smith, Phillip R. Welch, Alice E.

Butler, Betty L. Lathan, Thomas L. Henry, and James K. Fowler. Not present for the photos were L. F. Paris, J. S. Renfroe, Walter G. Kittleson and Jerry H. Williams. Nineteen of these have more than 500 hours, seven have more than 1000, six more than 1500, and two have more than 2000 hours to their credit.

# Sick Leave Register Heavy With Hours In P&P

A total of more than 34,000 hours of sick leave for 34 people is the record held by an Army

Missile Command Procurement and Production Directorate division. The 34 make up approximately one-fourth of the division's staff of 145.

Because of the variations in the pay scale, there is no close estimate of the dollar value of this time, but using a median rate of pay brings the total to around \$150,000 worth for the Directorate's Repair Parts Division.

Two of the group, P. L. Moring, chief of the division, and James F. Willis have more than 2000 hours. In the 1500 hour category are Alwin C. Blumenschein, Santa Gibilisco, Irene S. Chapman, Anna M. Beaver, Leon F. Paris and

James S. Renfroe.

Marion A. Dodgen, James D. Garrett, Jr., Mary I. Brennan, Frederick M. Yates, Phillip R. Welch, Betty L. Lathan and Vernon L. Oden have more than 1000 hours.

Those with more than 500 hours are James A. Brown, Jr., Clarence J. Luebig, Gladys H. Moorehead, Flora J. Gibson, Reba C. Galbraith, Grady L. Scott, Larry D. Moyers, Joanne Wilkerson, Evelyn T. Caldwell, Alredge M. Stephens, and

Paul R. Kittle.

Also, Bobby G. Morrison, Marguerite E. Martin, Retha J. Jones, Jean W. Smith, Alice E. Butler, Thomas L. Henry, Walter G. Kittleson, and Jerry H. Williams, have more than 500 hours.

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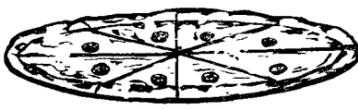
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# Sentinel Command Lets Contract For Site Study

The Army's Sentinel System Command last Wednesday announced the Boeing Company, Seattle, Washington, had been named to carry out studies of selected anti-ballistic missile sites. The Cost-Plus-Fixed-Fee Contract provides for compilation of site validation information from

internal and outside sources and the publication of reports on which the Commanding General, Sentinel System Command, can validate a missile site at each Sentinel deployment location. The total amount of the contract is \$590,932, which includes into \$541,932 cost and \$49,000 fee.

William E. Barger will be program manager for Boeing. The contract is being administered by the Sentinel System Command, Redstone Arsenal.

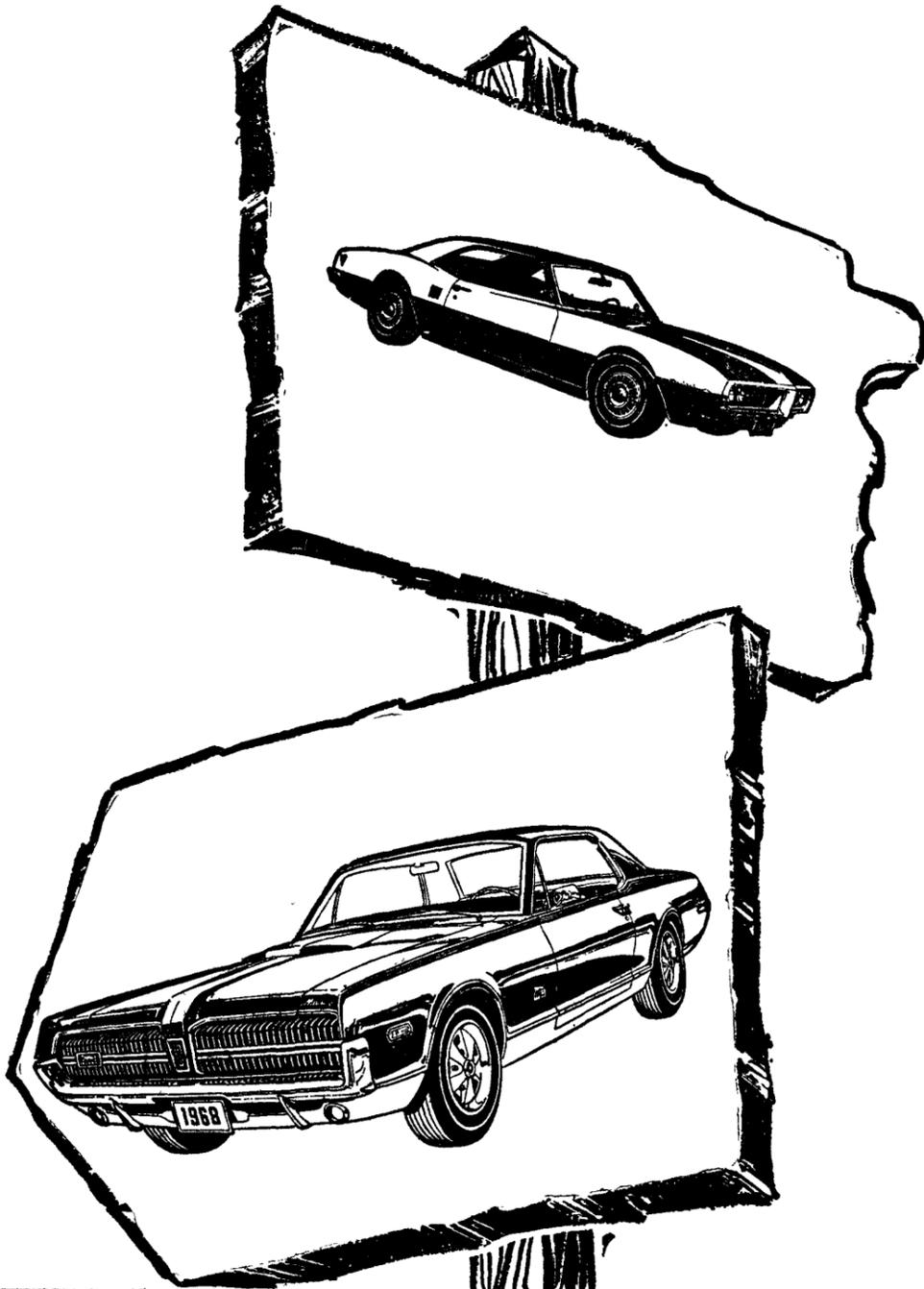
During the course of the 14-month study Boeing's Missile and Information Systems Division will conduct local studies in several areas across the nation which have been selected by the Army.

The teams will evaluate such things as transportation, labor, housing, land costs, local industry and educational facilities. Work under the contract will begin immediately.

# Shillelagh Awards Contract For Engineering Services

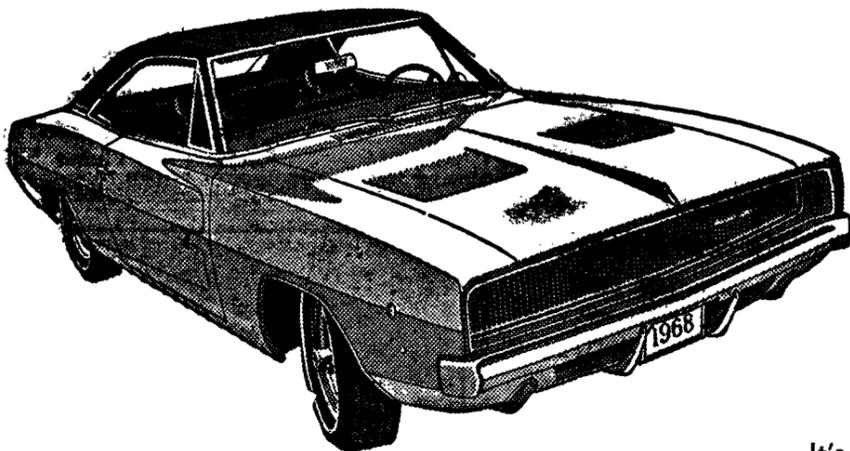
The U. S. Army Missile Command has awarded \$1,753,999 to the Aeronutronic Division of Philco-Ford Corporation for continued engineering services on the Shillelagh anti-tank missile system. Work under the contract extension will be performed at Lawndale, Calif. Shillelagh is a gun-launched

guided missile system being developed for the Army's armored vehicles. Its 152mm dual-launcher can fire either missiles or conventional rounds of ammunition. The Missile Command manages the Shillelagh program under Col. Spencer R. Baen, Project Manager. Aeronutronic is prime contractor.



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## 5. Houses, Lots - Sale

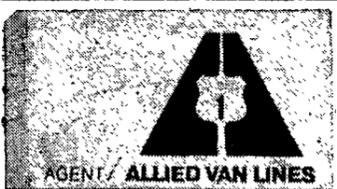
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# Army Scientists To Give 19 Technical Papers At Conferences This Week

Nineteen Army Missile Command scientists and engineers from the Physical Sciences Laboratory are attending two separate conferences this week to present technical papers.

Attending the American Chemical Society meeting in San Francisco, Calif. from March 31 to April 5 is First Lt. Leonard J. Kuzma, a research chemist. Lt. Kuzma's paper is entitled, "Studies of the Redistribution Reactions of Some Germanium and Silicon Compounds."

Eighteen other employees will be attending a conference of the Alabama Academy of Science at Samford University in Birmingham, Ala., April 5-6. They are:

Dr. Thomas A. Barr, Jr., "Laser Transmission Studies Through a Flowing Plasma"; Charles M. Cason, "Use of an Electron Beam Probe in Arc-Jet Plasma Flows"; Dr. Oskar M. Essenwanger, "90 to 99% and Extreme Values of Wind and Wind Shear."

Dr. Dorothy A. Stewart, "Eddy Flux of Sensible Heat at Different Levels in the Stratosphere"; Dr. Thomas G. Miller, "Experiment to Determine the Wolfenstein Depolarization Parameter for Deuterium"; First Lt. Donald L. Smith, "Neutron Polarization Measurements from the Study of Scatterer Recoil Asymmetries."

Dr. Charles M. Bowden, "Intrinsic Strain Broadening in the EPR and UPR Spectrum of CaF<sub>2</sub>:U<sup>4+</sup>11"; Dr. John D. Stettler, "Application of Ehrenfest's

Theorem to Calculate Eigenstates of Non-Rigid Vib-Rotors"; George A. Tanton, "Uniaxial Stress Splitting of Zero-Phonon Lines in Additively-Colored CaF<sub>2</sub>"; Edward L. Wilkinson, "Spin Relaxation of Fe (2±) in MgO".

Dr. Richard L. Hartman, "Some Effects of Quantization of Internal Rotation on Spin Relaxation"; Jefferson S. Bennett, "Angular Dependent Raman Relaxation of Fe (3±) in MgO"; Dr. Howard J. Foster, "Nearly Free Electron Wave Functions and the Fermi Surface in Simple bcc Crystals."

Perry F. McDonald, "Magneto-Elastic Coupling of Tetravalent Uranium Ions to CaF<sub>2</sub> Lattice"; Dr. Horst R. Whittmann, "Single-Mode Operation of GaAs Lasers"; Dr. Herbert B. Holl, "Laser Interferometric Studies of Astigmatic Corrections"; Haywood A. Handy, "Optical Absorption Lines in Additively Colored Calcium Fluoride"; William L. Kimber, "Calculation of Theoretical Parameters from Ultrasonic Paramagnetic Resonance Data."

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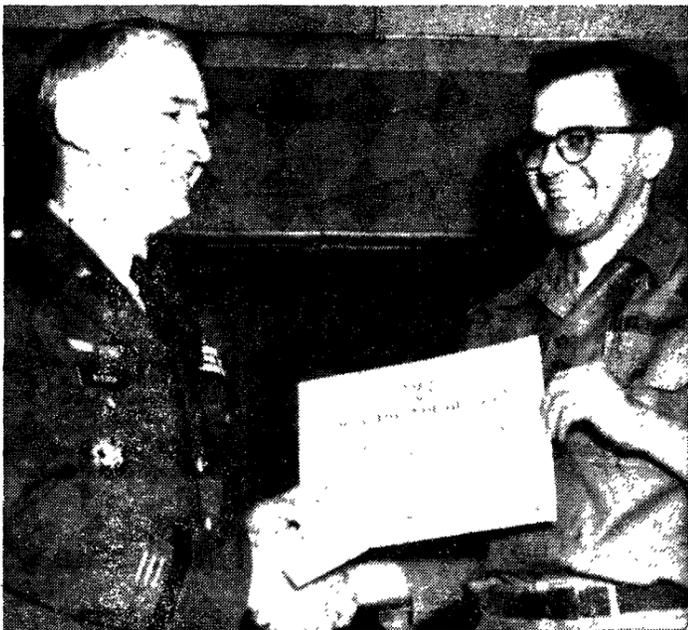
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**SUGGESTION WINNER**—SSG. Ricardo P. Gonzalez receives a \$300 check and a certificate from Col. Raymond C. Bishop, director of the Air Defense Department at the Army Missile and Munitions Center and School, for winning a Department of the Army suggestion award.

## Equipment Modifier Gets \$300 And DA Certificate

Staff Sergeant Ricardo P. Gonzalez may not be a U. S. citizen yet, but he's already working hard for this country. The Honduran, an instructor with the Nike division of the Army Missile and Munitions Center and School, has thought up a major modification of test equipment and in the process won a \$300 check.

Designed as an answer for those government workers who ask, "why does the government do it this way?—they could save time, money, and be more efficient if . . .", the Department of the Army suggestion program rewards individuals who have the initiative to solve the problems generated by the massive organization they work for.

Plagued with a test set that burned out almost every transistor tested, Sgt. Gonzalez went to work to discover what was wrong with the basic design of the device. He located the trouble in the circuitry of the automatic lead selector, which automatically determines the polarity, leads, and composition of the transistor being tested. Suggesting a modification of the circuitry won him the biggest award ever given at MMCS for a suggestion in the "intangible benefits" category.

The 27-year old soldier came to this country from La Ceiba, Honduras, as a student at Jacksonville State University, Jacksonville, Ala. After two years of math and physics, he joined the Army. He first came to MMCS in January, 1965, when he took the course he is now teaching—Nike test

equipment repair. Before returning here as an instructor, he saw duty with a Nike unit in Miesau, Germany.

SSG Gonzalez is the son of Dr. C. H. Gonzalez, Avenida Roman Roca No. 10, La Ceiba. His wife, Elizabeth, is the daughter of Mr. and Mrs. B. Hudson, Jasper, Ala. SSG and Mrs. Gonzalez presently live with their three children on Triana Boulevard in Huntsville.

## MICOM Downs Braves: ICO Reaches Finals

The MICOM Marauders captured the Unit Level basketball crown and ICO earned the right to challenge the Astrionics Lab Navigators for the RSA championship in games played on Monday night.

MICOM captured the military cage title by defeating the B Company Braves, 74-58, in a game played in the post gym.

Bob Shineflug topped the balanced Marauder attack with 18 points, while Bob Atkinson was high for the Braves with 24.

ICO qualified for tonight's championship game by stopping the Space Science Lab Jumpers, 58-41. The Navigators earned the other final berth at the expense of the Test Lab Fireballers, 63-47.

The Jumpers and the Fireballers will meet for third place at 6:45 tonight, with the championship game set for 8:00.

### Theatre Schedule

WED., April 3  
"Don't Just STAND There" (M-YP)

THUR.-FRI., April 4-5  
"No Way to Treat a Lady" (M)  
INCREASED ADMISSION: adults 50c, children 25c

SAT., April 6  
"Guess Who's Coming to Dinner" (M-YP)

INCREASED ADMISSION: adults 75c, children 25c

SUN.-MON., April 7-8  
"Guess Who's Coming to Dinner" (M-YP)

INCREASED ADMISSION: adults 75c, children 25c

TUE., April 9  
"Buckskin" (F)

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

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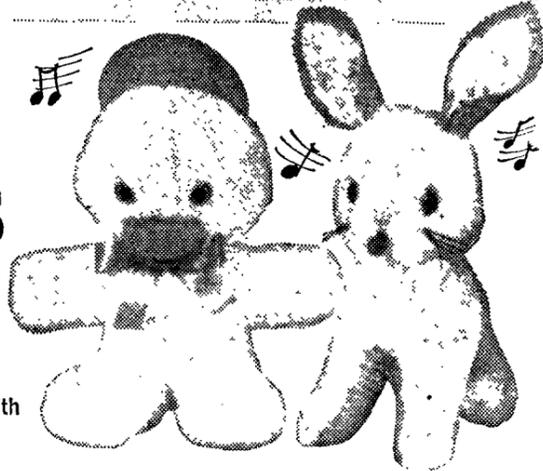
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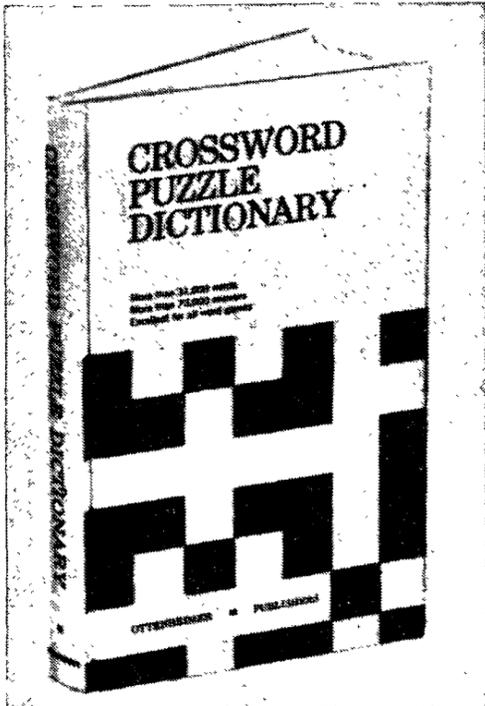
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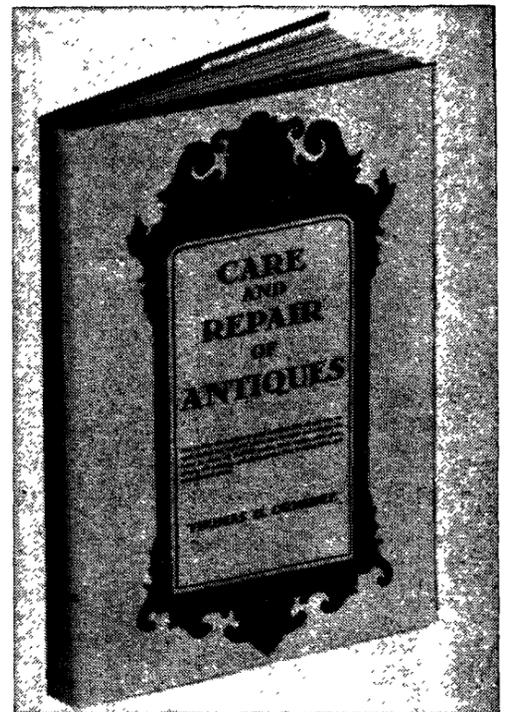
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