

Arsenal-Wide

Spot News

Dial 112

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.

VOL. XIII; NO. 32

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

DECEMBER 16, 1964

NEW DECALS WILL HAVE AMC INSIGNIA



A STICKER FOR SAFETY—Miss Judy Edmonson takes time out from her job as a Redstone Arsenal secretary to stick on a couple of safety slogans being distributed as part of the post's "Countdown For a Safe Holiday Season" campaign. It has been five years since anyone, military or civilian, from the Arsenal was involved in a recorded accident at Christmas or New Year's. The target of this season's safety campaign is no accidents again. Miss Edmonson, a native of Boaz now living in Huntsville, is employed in the Protocol Office of the Army Missile Command.

Countdown Is Underway

The 13-day countdown to launch a safe Christmas and New Year's holiday season began Saturday at Redstone Arsenal. By the time the count reaches zero on Christmas Eve, safety officials hope that the 25,000 military and civilian people here will be prepared to escape injury or death during this peak accident time.

Booklets containing suggested day-by-day activities to cut down on the chances of a serious accident happening have been passed out to all personnel.

More than 80 coordinators in the Army Missile Command, Missile Support Command, Ordnance Guided Missile School and Nike-X Project Office are bringing the safety drive down to the office level. These people met last Wednesday to map out final details.

When the countdown ends on Christmas Eve, the drive will be launched toward a target of no accidents by the January 4th report-back-to-work date. It has been five years since an accident was recorded at Christmas or New Year's involving Redstone people.

The Safety Division of the Missile Support Command is spearheading the drive for a safe holiday period.

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Foreign Students Busy Telling About Christmas

Tis the season to be jolly—and jolly well busy if you're a foreign student at the Army Ordnance Guided Missile School.

Local residents and civic organizations have embarked on a give-and-take Christmas program involving students from 17 foreign nations now training at OGMS.

Four Koreans Friday will explain holiday customs in their country to members of the Rocket City Business and Professional Women's Club. Speakers at the Christmas celebration will be Maj. Yong Jee Lee, Capt. Baik Chul Lee, 1/Lt. Jae Yoon Lee and 1/Lt. Huo

Soo Lee.

Italian students were faced at the Yule party this week by the Altrusa Club of Huntsville. Eight Italian students spoke at the event.

Some 35 German officers, enlisted men and their families were the guests of the American Association of University Wives at the group's Christmas party. German children were entertained by Santa Claus who distributed gifts at the holiday celebration.

Lt. Col. and Mrs. Hans Finck, German Liaison officer, spoke on German Christmas customs at this

(See STUDENTS on Page 3)

Tower Helps Missilemen Pinpoint Missile's Yaw

One of the Army's tallest test structures has been added to the skyline at Redstone Arsenal.

The Army Missile Command today said a huge steel tower, slightly more than 400 feet high, has been erected on its Test Range I as part of an overall range improvement program.

The giant tower will play an important role in the testing of many of the Army's smaller missile weapon systems by the Directorate of Research and Development.

With as many as four cameras mounted atop the tower, test engineers now can look directly down on a missile in flight, from the time it leaves the launcher, to a point about 400 feet down range.

"This gives us a capability we have never had before," says D. C. Little, chief of the range engineering section.

"For some time now, most of

our laboratories have been asking for a means of obtaining higher accuracy on yaw data (deviation of a missile from its normal flight path). Now we feel we have the answer."

Little said that yaw data reveals such vital things as effectiveness of guidance systems and response time. "With the tower, we can measure attitude to within one-fourth of a degree in the yaw plane."

A specially constructed elevator, which runs up one side of the tower, carries the cameras to their lofty perch. The elevator, which is rigged with framework on which the cameras are mounted, will not be used by range personnel.

In addition to being extremely sturdy—the tower can withstand winds up to 180 miles per hour—workers who must climb to the top will have every possible

(See TOWER on Page 3)

During January and February the family wagon that comes to work will be assigned a new number by the Provost Marshal Division, according to Geneva Cole, administrative assistant. The administrative staff is organizing registration teams for all Arsenal areas.

Even now, some vehicles are sporting the new decals because the Division has exhausted the supply of the old type and is furnishing newly purchased or newly registered automobiles with the new decal. No changes are being made at this time of automobiles already registered.

Instead of the old Army Ordnance Missile patch, the new ones will display the Army Materiel Command insignia. The assignment of colors will be the same: blue for military officers, red for enlisted men, green for civilians, and black for contractors and miscellaneous. The decals are free.

The instruction sheets were placed in circulation last week. Supplies of the form (DD 1409) can be obtained through regular publications channels.

All contractors and miscellaneous decals will be issued from the Provost Marshall office which will remain open all day Wednesdays until the re-registration is completed.

The Daily Bulletin will carry the place and date each registration team will be in a given area.

At present, the Provost Marshall files show 46,000 registrants which does not include Marshall Space Flight Center personnel but it does include their contractors.

Individuals who have not registered their 1965 license tags with the Provost Marshal are being asked to hold off until it is time to register for the decal and that way they can accomplish both

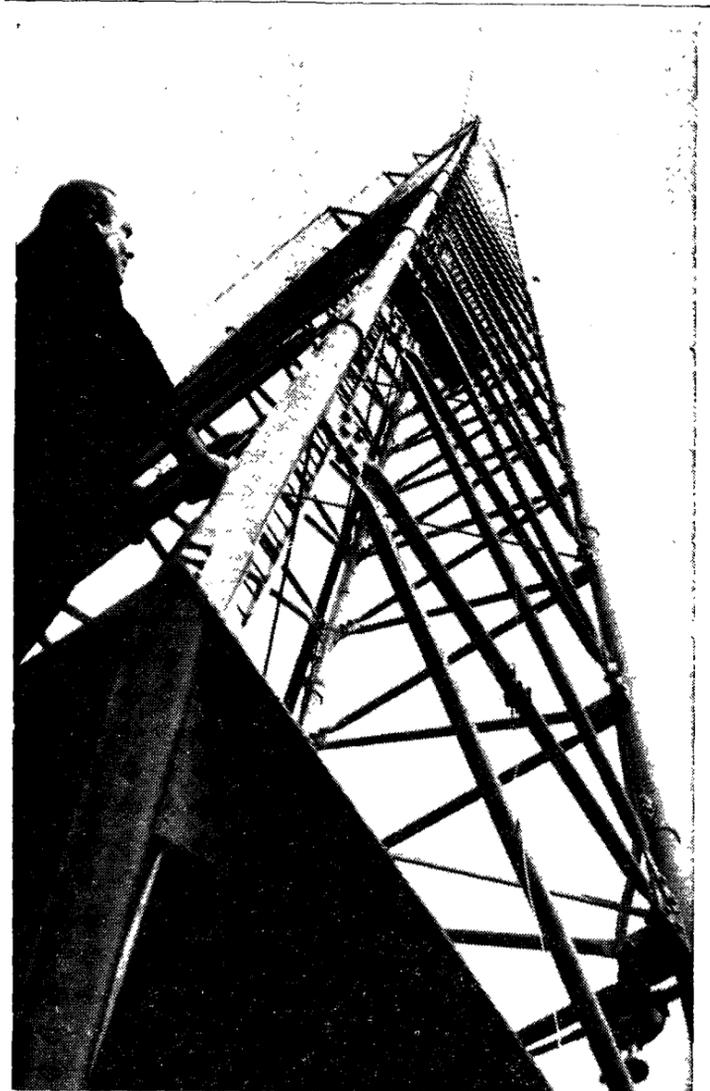
registrations at once. Proof of insurance under the changed regulations will also be required.

The re-registration team will also make a date at the Huntsville Industrial Center building. No other off post areas are on the agenda.

LANCE TRAINING CONFERENCE HELD

A significant milestone in the research and development program of the Lance missile was realized the past week with conclusion of the Lance Army Training Conference held by the Continental Army Command. The meeting was at the Ling-Temco-Vought Michigan Division Plant, Warren, Mich.

The conferees integrated all elements of training into a coordinated plan. After staffing and approval, this plan will serve as the guidance document for both troop training and the new equipment training program necessary to insure the availability of personnel to man the Lance system when it joins the Army's arsenal of weapons. (See LANCE on Page 3)



IT'S A LONG WAY UP—In fact, this huge tower which has just been completed on Test Range I at the Army Missile Command, is 400 feet high. The tower will play an important role in the testing of many of the Army's smaller weapon systems. With as many as four cameras mounted atop the tower, engineers can look directly down on a missile in flight. George Stewart, Chief of the Flight Operations Branch of the Test and Reliability Evaluation Lab, is dwarfed by the imposing structure.

The Redstone Rocket

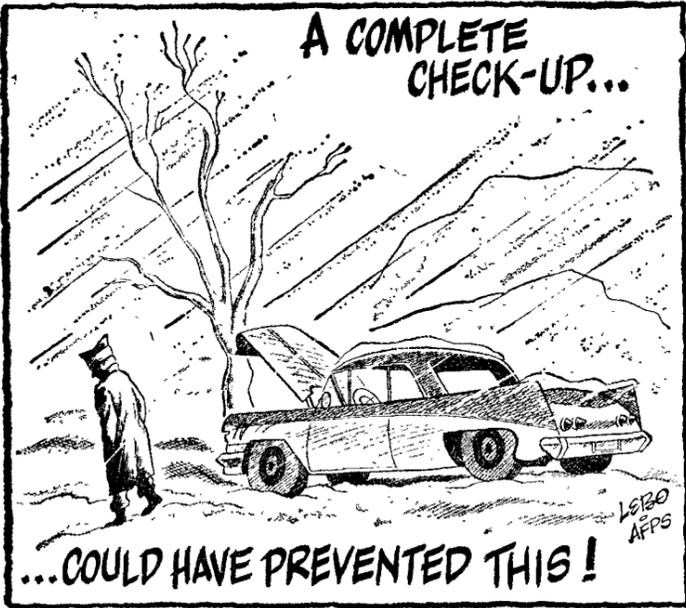
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Rocket Ruminations

Be ashamed to die until you have won some victory for humanity.

—Horace Mann



Editorial . . .

Winter Driving Safety Calls For Preparation

Automobile accidents know no season, but during winter months the accident rate each year climbs because of the many adverse driving conditions and the unawareness of many drivers.

Everyone who owns an automobile or has access to one should be aware of the added hazards and dangers of winter driving and prepare for the months of snow, sleet, rain and generally bad weather before it's too late.

No fool-proof formula has been devised to prevent automobile accidents, yet there are certain things a driver can do before the bad weather sets in to greatly improve his chances of being around for the spring thim.

Automobiles should receive a complete check-up, including an engine tune-up to assure easy starts on cold, damp mornings and a thorough check of the heating and defrosting system.

In areas where snow is unlikely, windshield wipers need to be in perfect condition during the weeks of rain and drizzle.

In areas where snow prevails, snow tires or tire chains are necessary for safe navigation on streets or highways.

An automobile's braking system should be in top-notch condition for the slick, dangerous roadways during winter.

However, all of these mechanical precautions mean little if the driver completely disregards all sensible driving habits and insists on writing his own rules. Many restrictions and unfamiliar road signs are used during winter, according to the severity of the weather, and a driver must be alert and able to think and react fast.

Even in areas where winter is only a page on the calendar, a good driver would do well not only to keep his automobile in good running condition but to remain mentally alert while driving. (AFPS)

Christmas Services

PROTESTANT SERVICES — POST CHAPEL—BLDG. 3714

Fri., Dec. 18, 8:15 p.m. — Sunday School program presented at the Service Club for troops.

Sun., Dec. 20—10 & 11:15 a.m.—Worship Services. 6 p.m.—Sunday School program at the Rocket Auditorium for everyone. (This program will replace all Sunday evening programs at the Chapel).

Thurs., Dec. 24 — 7:30 p.m. — Christmas Eve Candlelight Service. 8:30 p.m. — Christmas Eve Communion Service.

Fri., Dec. 25 — 10 a.m.—Christmas Day Service.

Sun., Dec. 27—Regularly scheduled program.

CATHOLIC SERVICES — POST CHAPEL — BLDG. 3714

Tues., Dec. 22 — 7 p.m. Children's Christmas Pageant followed by Birthday Party for Jesus in the Social Room at the Chapel.

Thurs., Dec. 24 — 6:20-8:30 p.m.—Confessions. 11:30 p.m.—Christmas Carols. Midnight Mass.

Fri., Dec. 25 — 7-8:45 a.m., 12:30 p.m. and 5 p.m.—Masses.

PROTESTANT SERVICES — REDSTONE PARK CHAPEL — BLDG. 9600

Sun., Dec. 20 — 9:45—Sunday School. 11 a.m.—Worship Service. 6 p.m.—Sunday School Program.

Thurs., Dec. 24 — 7:30 p.m. — Christmas Eve Candlelight Service.

CATHOLIC SERVICES — REDSTONE PARK CHAPEL BLDG. 9600

Fri., Dec. 25 — 10 a.m. — Mass (Post Chaplain, AMSC)

GERMAN UNIT FORMS AT OGMS

The Federal Republic of Germany acquired a new defense unit last week with the activation at the U. S. Army Ordnance Guided Missile School of a detachment trained for field support of the new Sergeant field artillery missile.

Commanded by Lt. Wilhelm Frank of the German Bundeswehr (Army), the detachment was honored at a farewell ceremony conducted by Col. William J. Macpherson, commandant, at Missile School headquarters on Dec. 8.

The 35-man German unit was highly commended for its excellent grades in passing rigorous technical inspections and field tests which it has been undergoing for the past few weeks. Some members of the unit have been in training here for the past 12 months.

Participating in the ceremony were Lt. Col. Hans W. P. Finck, senior German Liaison Officer at Redstone Arsenal; Lt. Col. James M. MacDonnell, the Missile School's chief of operations; Maj. Verne C. Wolfe, chief of the Directorate of Unit Training; and CWO John C. Dodd, head of the Sergeant unit training division.

A commemorative plaque was presented to Col. Macpherson by Lt. Frank on behalf of the German unit. The 55th U. S. Army Band rendered the national anthem to conclude the ceremony.

The West German government recently purchased rights to the Sergeant field artillery missile which replaced the Corporal with NATO forces in Europe. The German government bears the full cost of Sergeant training here.



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American Magazine, The American Dream.

Caidin, Martin, The Mission. Clayton, James E., The Making of Justice.

Donelson, Kenneth, When You Need a Lawyer.

Freuchen, Peter, Men of the Frozen North.

Golden, Harry Lewis, Mr. Kennedy and the Negroes.

Gunther, Max, The Weekenders. Hutschnecker, Arnold A. The Will To Happiness.

Matthiessen, Peter, Under the Mountain Wall.

Radin, Edward D., The Innocents.

Schlesinger, Arthur M., Paths of American Thought.

FICTION

Anderson, Poul, Trader to the Stars.

Bellow, Saul, Herzog. Butler, Ewan, Loyalty is my Honour.

Chamberlain, Willam, More Combat Stories of World War II and Korea.

Condon, Richard, And Infinity of Mirrors.

Loring, Emilie, Follow Your Heart.

McBain, Ed, Ax.

Searls, Henry, The Pilgrim Pro-

TERRY TO TALK TO GRADUATES

Carroll Milton Terry, a native of Huntsville who has served as a director of Intelligence Resources and Co-ordination for the State Department, will speak Friday to a graduating class of U.S. and foreign missilemen at the Army Ordnance Guided Missile School.

Now retired, Terry has served the State Department as Consul General and First Secretary in Quebec, Madrid, Vienna, Manila and Nanking. He also served as Chief of Biological Information in Washington and was a panel officer and counselor on the State Department's Career Development and Planning Agency.

ject.

Seifert, Elizabeth, Legacy for a Doctor.

Snow, C. P., Corridors of Power.

Wuorio, Eva-Lis, The Woman with the Portuguese Basket.

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STUDENTS

(Continued From Page 1)

week's meeting of the Huntsville Lioness Club.

Nine Japanese students attended a holiday concert at the Huntsville Temporary Arts Center as guests of the Huntsville Symphony Association.

Students representing Spain, China and The Netherlands were guests of honor at a Christmas dinner staged by the First Methodist Church of Huntsville.

Radio listeners of station WNDA-FM, Huntsville, heard student representatives of eight countries explain the celebration of Christmas in their homelands. Speakers on the radio program included SFC Horst Gruenberg of Germany, Capt. Alfonso Martinez of Spain, SFC Jeoung Woong Kim of Korea, S/Sgt. John Bacas of Greece, Sr. M/Sgt. I. B. Hansen of Denmark, Sgt. Jean Amgaud of France, Sgt. Francesco Casta of Italy and Sgt. Gerritt Smit of The Netherlands.

Students related methods of decorating trees in their countries, traditional Christmas customs and the role of Santa Claus in holiday celebrations.

Some 30 students of Denmark

LANCE

(Continued From Page 1)

pons. All agencies having training responsibilities related to the Lance were represented at the conference.

Program management of the Lance is centered at the Army Missile Command with L. T. Col. W. E. Mehlinger as Project Manager.

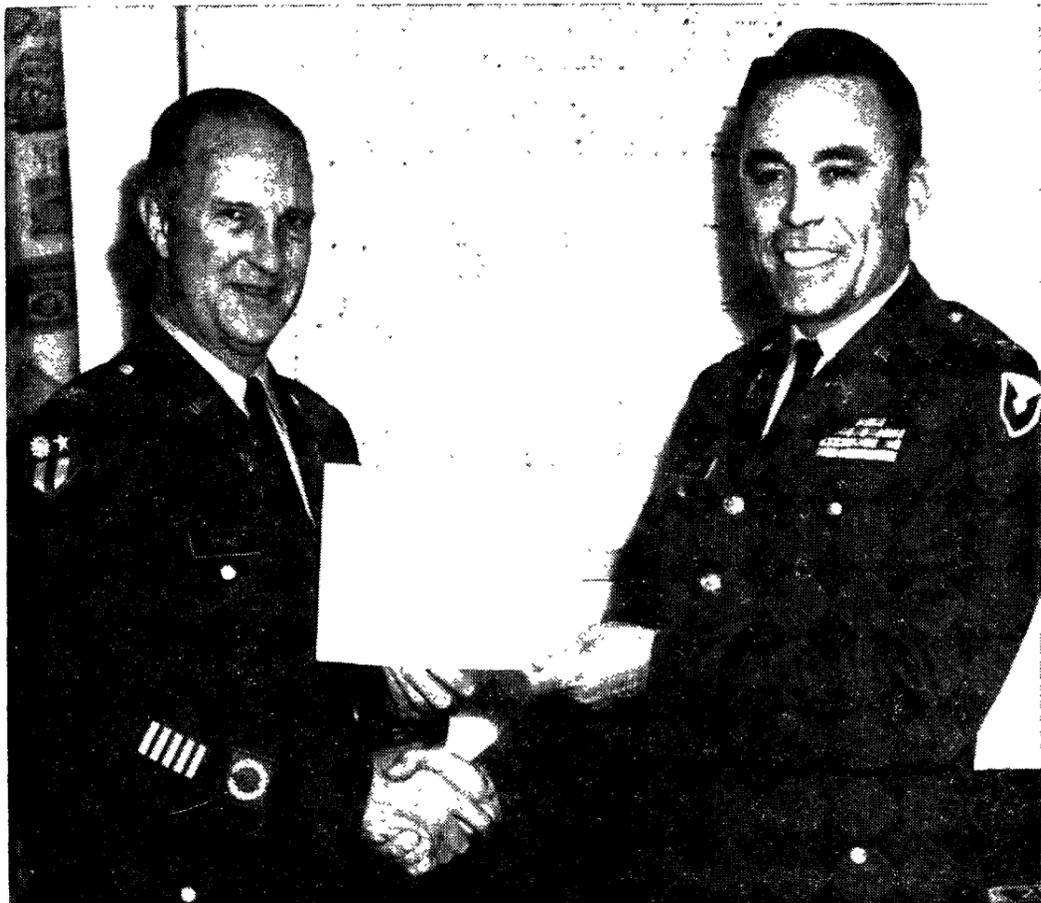
returned this week after spending a 5-day holiday visit in New Orleans, La. Twenty-one students of France, Belgium, Norway and Greece will spend New Years in New Orleans.

Japanese students will leave this week for Florida, Washington, D. C. and New York.

Twenty Korean students will spend New Year's Day at the home of Mr. and Mrs. Edwin Dates Jr. of Huntsville.

In keeping with the Christmas celebration, chaplains at the Post Chapel have erected an Advent Wreath, a European custom which can now be observed at OGMS.

Numerous foreign students will spend Christmas with American families they have met this year in Huntsville.



FOR TWO MILLION MILES OF SAFE DRIVING—Capt. Elvin J. Kidd (right), Commanding Officer, 291st Military Police Company, Redstone Arsenal, holds up the Army's Certificate of Merit for Safety he has just received on behalf of his MP outfit. The award is for the year ending Nov. 10, during which the men in the company drove 1,900,621 miles without a recorded accident. Making the presentation is Col. Thomas W. Cooke, Commander, Army Missile Support Command.

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TOWER

(Continued From Page 1)

safety precaution.

Each climber will have a special belt which is connected to a safety pipe. "A man can't fall more than six inches before the belt catches him," Little pointed out. Rest platforms are available at 40-foot intervals.

"This is the highest tower we have built," said Gale Avery, plant superintendent of the Alpar Construction Corporation of Palo Alto, Calif. "But we have built them in such places as Panama and Eniwetok and they can really take it. In fact, one leg of this tower could be shot off and the tower would still stand," he said.

Built in sections—6' by 6' 10" high—all pieces of the tower are interchangeable and can easily be replaced if needed.

All test firings at the range are conducted by the Flight Operations Branch of the Test and Reliability Evaluation Laboratory, headed by George L. Stewart.

SANTA HARNESSES HAWK

Drivers whose routes have taken them past OGMS headquarters during evening hours have seen Santa and his sleigh harnessed to a band of Army missiles led by Rudolph the Red Nosed Hawk.

Workmen erecting the large cardboard cut-outs placed a red bulb on the tip of the lead Hawk missile. As a holiday greeting to Arsenal personnel and local residents, the OGMS headquarters building has been flanked by two large Christmas trees.

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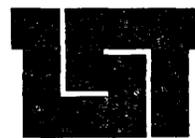
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Specialists Assure Training Of Missile Men

(This is the third in a series of three articles dealing with MICOM educational and training activities. Today's article deals primarily with new equipment training, a mission of the Command, and with specialized inspector training.)

From the time a development contract is awarded to the deployment of the first Army unit equipped with the new weapon system, a great amount of personnel and training activity has been accomplished. The Army Materiel Command is responsible for all personnel training and support action from the early stages of development until the U. S. Continental Army Command has established an operational training base.

As a major field command of AMC, the Missile Command has this responsibility relative to Army missile and rocket programs. The overall mission assignment is under the staff supervision of the Personnel and Training Office.

A small group of well-qualified training specialists is responsible for the operational end of all of the myriad facets of personnel and training activity that must be accomplished early in the developmental cycle of a typical weapon system.

Included in their responsibility is a determination of the new skills that will be required to operate and maintain the new system and the development of qualitative and quantitative personnel data sufficient to permit the Office of Personnel Operations, Department of Army to make MOS decisions.

They must also train top-level managers and planners, the personnel who will perform the early service tests, the in-plant acceptance inspectors and the USCON-ARC instructors. Then too, they schedule equipment for training, and accomplish basic funding and programming functions.

The new equipment training (NET) is accomplished by technicians assigned to the system manager. For example, Project Managers are assigned training specialists who plan and manage the training activity for their system.

The training responsibility for commodity managed systems is assigned to the Directorate of Supply and Maintenance. The training of Government in-plant inspectors is managed by four education specialists assigned to the Procurement and Production Directorate. This four-man staff handles both the project and commodity managed systems.

The New Equipment Training for the Mauler Weapon System is being planned and developed under the direction of George Wilde, the Dean of the specialists working in NET.

Wilde planned and conducted the first NET program for the Army Rocket and Guided Missile Agency and subsequently has conducted more training courses and trained more key personnel than any other MICOM Education Specialist. Some of the more important programs that he has been responsible for are the Nike Hercules, Improved Hercules, and Hawk.

A graduate of Georgia Tech, Mr. Wilde is a veteran of World War II and has over 20 years Federal service.

The training officer assigned to the Hercules Project Manager is James A. McCraw, a native of Hattiesburg, Miss., and a graduate of the University of Southern Mississippi.

McCraw spent four years in the Air Force as an instructor prior to entering college and since graduating in 1955 has been employed by the Air Force and Army in educational and training capacities. His Redstone employment started with OGMS where he was an Education Specialist involved primarily in educational research.

Herman A. Hulsey handles all phases of the training responsibility for the Lance Project Of-



HERMAN HULSEY

fice after having previously worked with a number of other systems including Redstone, Jupiter, Pershing, Honest John and Littlejohn.

A native Alabamian, Hulsey has been employed in a training capacity by both the State and the Federal Governments for approximately 25 years, following his graduation from the University of Alabama.

Prior to and during World War II he was engaged in training prospective employees of the Hunts-



AIR DEFENSE SYSTEM SPECIALISTS—A trio of veteran educators handle the new equipment training phases for the Air Defense Systems. Marty Kingsmore points to a drawing depicting a Hawk battery in action while James McCraw (left) and George Wilde await their turn to point out the Hercules and Mauler systems, which are their respective responsibilities.

ville and Redstone Arsenals and following the end of the war he supervised state sponsored training programs for returning veterans.

Since 1953 Hulsey has been employed by OGMS, ABMA and the Missile Command. His major duties concern the planning for, and executing the transfer of knowledge from the prime contractor to staff and planning personnel, service school instructors, depot personnel and missile maintenance technicians.

A teacher and educator all of his adult life, M. L. "Marty" Kingsmore is the staff training officer for the Hawk Project Office.

Kingsmore has been in the field of missile equipment training at Redstone since 1951 and with the Hawk system since 1961. During his four years with the system he has seen the addition of completely new end items of equipment and major changes to the end items already in the field. This along with the widespread use of the Hawk system throughout the free world has placed an even greater emphasis on the new equipment training mission.

Kingsmore directs the activity of two mobile training units which are presently rotating to Hawk installations in overseas areas. He has a Bachelor's degree from Heidelberg College in Ohio and took his Master's from Ohio State. Prior to coming to the Arsenal, Kingsmore was employed as a vo-

itional psychologist for the Veteran's Administration in Decatur.

Another veteran in missile training programs, Wilbur Fowler, is the training officer assigned to



WILBUR FOWLER

the Nike X Project Office. A former training officer in the Civilian Personnel Office, Fowler brought to the Nike X system a broad knowledge of missile systems gained from his work with the Dart, Lacrosse and Talos systems.

A graduate of Jacksonville State College, he is a veteran Army officer having served in both World War II and Korean War. At the present time, he is Commander of the 113th Signal Battalion, located in Arab.

Fowler is assisted in the execu-

tion of all phases of training in support of the Nike X system by Joseph Sloan and Jimmy Hinton.

The two training specialists have backgrounds in public school teaching prior to entering the Federal service. Sloan is a graduate of the University of Tennessee while Hinton completed his undergraduate work at Mississippi Southern University.

Three more training specialists are assigned to specific systems although not being located with the project or commodity office for which they work. They are Ferrell Hill, assigned to the Red-



FERRELL HILL

stone eye system, Robert Mitchell, who is responsible for the training (Continued on Page 5)

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NIKE X TRAINING STAFF—The above trio assist Wilbur Fowler in the preparation and execution of the new equipment training program in support of the Nike X system. They are, Joseph Sloan (seated), Jimmy Hinton (left) and Janet Falconbury, office secretary.

Every Army Missile System Is Covered Fully

(Continued From Page 4)

functions of the Multisystem Test Equipment (MTE), and John Hendrick who manages the NET for the Anti-Tank Weapons systems. They are assigned to the Supply and Maintenance Directorate.

A former public school teacher in Mississippi, Hill began his Redstone service as an instructor of the Corporal system in OGMS. He joined the Redeye system in 1962.

Mitchell's training background was gained in the Army. During his active duty career of 21 years, he instructed at the Air Defense



ROBERT MITCHELL

School, the 7th Army Electronics School, the Ordnance School at Aberdeen Proving Ground, and the Ordnance Guided Missile School.

Hendrick came to Redstone from Tooele Army Depot, Utah, in 1956 and has since been engaged in



JOHN HENDRICK

both individual and unit training phases for the Redstone, Jupiter and Sergeant missile systems.

He is presently supervising a NET course on the XM-22 Helicopter Armament sub-system, the first such program to be conducted by the Missile Command using MICOM facilities with local personnel as the instructors.

Another facet of the overall training mission accomplished by the Supply and Maintenance Directorate is Technical Assistance Training, through which highly skilled missile maintenance technicians are able to retain the currency necessary to the successful dispatch of their mission.

Two training specialists, Glen King and Michael Kinney, are as-



GLEN KING

signed to the Technical Assistance Division to assure that these technicians are current in all the latest modifications to the systems they support.

King's responsibility is oriented

to Air Defense Systems and his activity lies in the area of course planning, course documentation, and supervising in-house training programs applicable to his systems.

A former public school teacher in Florida, King is a graduate of the University of Florida. Prior to coming to Redstone, the former Marine was a staff instructor at Florida State University and was at one time on the staff of the Naval Air Technical Training Center.

Kinney performs the same type of mission for Land Combat Systems. He is a graduate of Auburn



MIKE KINNEY

University and formerly taught in the Alabama public school system.

Prior to joining the Technical Assistance Division in 1960, Kinney was an instructor at the Ordnance Guided Missile School.

At the present time action is being taken to establish a Training Unit within the Supply and Maintenance Directorate. Essentially this unit will develop, document, support and execute NET and associated activities for MICOM-managed weapons systems.

The Training Unit will also develop and sustain an "in-house" training capability which will be available to Project and Commodity Offices as needed. William Makowsky has been transferred to the Technical Assistance Division to assist in the preliminary planning and organizational studies preparatory to establishing the in-house training unit.

Another former Florida high school teacher and principal, Ma-



WILLIAM MAKOWSKY

kowsky brings to the position a wealth of knowledge of Army weapons system gained through his work with the Redstone and Jupiter training programs.

He holds BS and MS degrees from the University of Florida, and has completed over 20 years Federal service, almost all of which has been spent in some phase of education and training.

One of the more recent additions to the MICOM family, the Air Defense Fire Distribution Systems Office, also has a regularly assigned education specialist. He is Bobby Ballard, a former Air Force electronics technician and instructor.

Ballard has the responsibility for procuring and monitoring contractor-provided NET on all Air Defense Fire Distribution and Coordination Systems.

He is a graduate of Mississippi State University and started his



BOBBY BALLARD

Redstone employment as an Electronics Instructor at OGMS.

The responsibility for accomplishing the specialized inspector training is assigned to the quality assurance element of the Directorate of Procurement and Production.

The four education specialists

assigned to this element insure that the in-plant acceptance and verification inspectors have the specialized technical training that is necessary to the performance of their jobs.

A one-time Alabama legislator, B. D. Broadwater, has headed the inspector training unit for the past ten years. He came to Redstone originally as an Army Inspector of Ordnance.

In addition to serving in the State Legislature for four years, Broadwater taught in the Limestone County High School for four years. During World War II he served in the Airborne Artillery rising to the rank of Colonel prior to release from active duty in 1946.

Other members of the inspector training element are Thomas Sanders, O. W. Jackson and Joe Ar-

nold, each of whom has a background in the field of education.

A graduate of Middle Tennessee State College in education and industrial arts, Sanders started his Federal service as an Engineering Draftsman. He has been with the Inspection Training Unit since 1957.

Jackson is a graduate of Auburn University and was employed by the Department of Agriculture prior to his transfer to the Arsenal in 1956. He has been assigned to the unit since starting work here.

Arnold has been actively engaged in technical and supervisory training both in private industry and the Federal service for over 20 years. Prior to coming to the Arsenal in 1956 he was employed by the Ordnance Corps at Milan Arsenal and the Ordnance Ammunition Command at Joliet, Ill.



INSPECTOR TRAINING UNIT—B. D. Broadwater (seated) heads the specialized inspector training unit, an element of the Procurement and Production Directorate. The three education specialists who assist him in the management of the program are, (l to r), Joe Arnold, Thomas Sanders and O. W. Jackson.



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AWARD WINNERS — Twenty-four Army employees at Redstone recently received awards—including three Meritorious Civilian Service Awards and the largest single suggestion award ever made by the Missile Command. The awards were made during ceremonies marking the 10th anniversary of the Federal Incentive Awards Program. The winners, part of whom are pictured here, were: Meritorious Civilian Service Awards; Horace Lowers, Ro-

bert Lowery and Kenneth Joy; Suggestion Plaques: Directorate of Procurement and Production accepted by Paul Schaeppi, and AMSC Calibration Lab accepted by Don Hervig; 30 year service award, Joseph N. Gazaway; Federal Woman's Award Nomination, Jessie Ruth Milner; Nike-X Senior Executive Award, Hugh Watson, runner-up, Sara Bruce; Suggestion Awards, Lloyd L. Jenkins (his

award of \$1,010 was the highest awarded by the Missile Command), Ernest Winkles, Ira M. Light, Sgt. Major Paul Hoverson, William Kroelinger, Rahn O. Beeson, Raymond T. Wright, Stonewall Sanders, Charles Cooper, Lloyd R. Jones, Howard M. Raspilair, Charlie M. Hallman, Roy B. Moorman, and Cecile Homuth; Outstanding Rating, George L. Lambert.

Class Reunion Held Here

Seven Ordnance Guided Missile School graduates who attended known as the "Little Redstone School House" some eight years ago met at a class reunion and

concluded that "all roads lead back to RSA."

"There is an old saying among career OGMS graduates that sooner or later a return to Redstone Arsenal is inevitable," CWO Arthur E. Wilkins explained. "To prove this old adage, we staged a reunion. All of us who graduated from the same course were sent all over the globe. Seven of a class of 13 ended up back at our Alma Mater."

Capt. Edward W. Schroth of the Missile Support Division; CWO Frank C. Baker and CWO Floyd C. Danielson, Nike Hipar students; CWO Houston C. Pelham and CWO Bobbie D. Taylor of AMICOM; and CWO Arthur E. Wilkins of the Missile Support Division and their wives celebrated at the class reunion, staged at the Officers' Club.

"Eight years ago in 1956, diplomas were awarded to Nike-Ajax students. The class was comprised of a captain, a CWO, and eleven NCO's," Wilkins said. "This totals an unlucky 13. But in the intervening eight years, we have been lucky. All members are hale and hearty, and 11 are still on active duty with two retired."

During the intervening years, class members were assigned to Thule, Greenland; Korea, Okinawa, Formosa, Germany, France, Japan, and Hawaii.

"It may be coincidence that we are all back at RSA again," Wilkins said. "But we are glad to be home again at a much-improved and much-expanded Redstone Arsenal."

Missing from the class reunion were Capt. Fred C. Gotham (Ret.), CWO Carl V. Boyer now stationed in San Francisco, Calif.; CWO Billy G. Elwood, now at Loring AFB, Maine; CWO Charles J. Johnson and CWO David M. Jordan, both assigned to New York; CWO Richard K. Baker, assigned at Milwaukee, Wis.; and M/Sgt. Jack L. Horner (Ret.) of California.

CONTAMINATION MEETING

The American Association for Contamination Control will meet at 6:30 p.m. tomorrow night at the Pin Palace to vote on the constitution and by-laws for the Huntsville chapter and to select technical committees to serve for the coming year.

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OPERATIONS RESEARCH TALK

Emery L. Atkins talked about "Operations Research" at the Monday night meeting of the North Alabama Chapter, American Institute of Industrial Engineers.

Atkins is special assistant for Operations Research for Future Missile Systems in the Research

and Development Directorate. He has been at Redstone Arsenal since 1954. Before that he was a senior professor at Johns Hopkins University.

April 11, 1951 — President Truman relieved General Douglas MacArthur of his command in the Far East.

Page 6 Redstone Rocket — December 16, 1964

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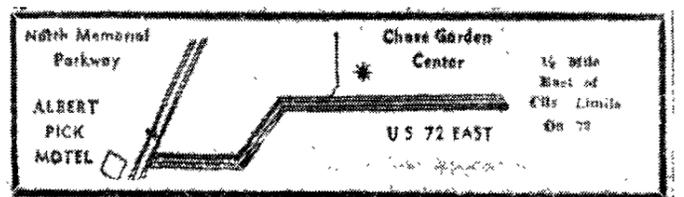
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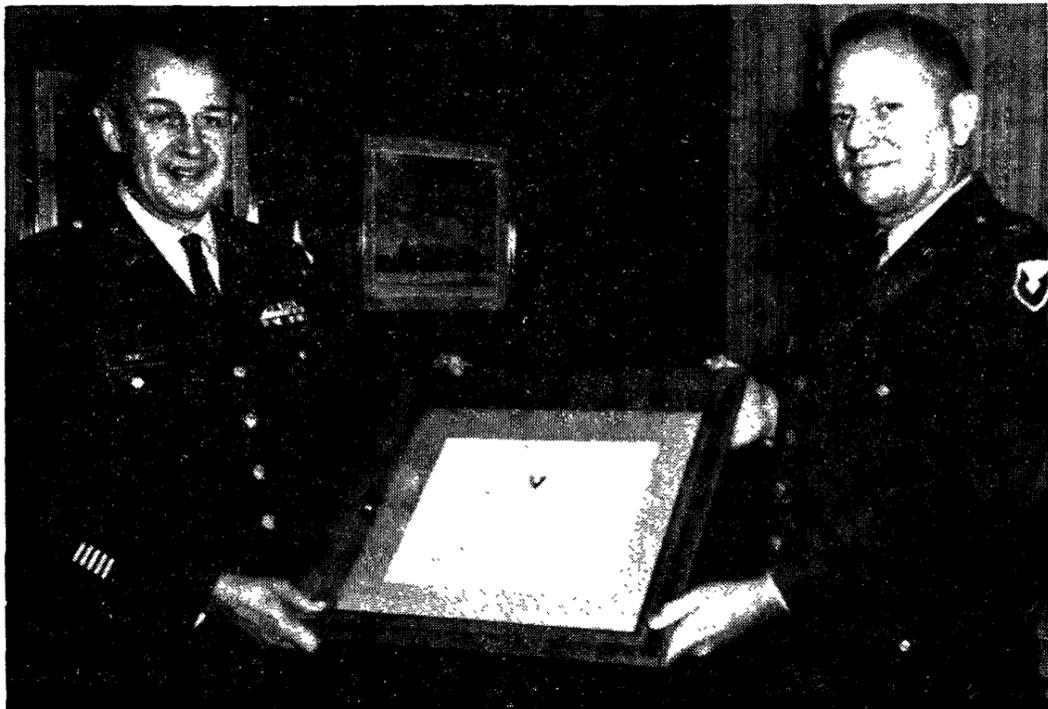
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TWO YEARS WITHOUT AN ACCIDENT—The Nike-X Project Office at Redstone Arsenal has received the Army Materiel Command's commendation for safety after operating without a recorded accident in fiscal year 1964. Maj. Gen. John G. Zierdt (left), Commanding General, Army Missile Command, presents the award to Col. Ivey O. Drewry, Project Manager for the Nike-X anti-missile system. Nike-X also did not record an accident during fiscal year 1963.

\$2.5 Million in Goods And Services Purchased Last Month By Command

More than a quarter of the \$2.5 million spent by the Army Missile Command in November for small orders and purchases went to firms in the Southeast.

Huntsville companies topped the list with \$350,000 worth of business. Georgia and Tennessee concerns received approximately \$170,000, Birmingham merchants shared some \$93,000 in awards, and other Alabama cities ran up a \$45,000 total.

Two small orders went outside the United States for printed material, one to an association in Belgium, and the other to a corporation in Japan.

The remainder of the business was spread across the country.

The awards, which cover several hundred separate actions, vary from a few cents to thousands of dollars, but do not include those for a million dollars or more going to missile system prime contractors.

The Purchasing and Contracting

Division of the Army Missile Support Command and the Missile Command Procurement and Production Directorate execute the orders to buy items used in support of the Army's missile and rocket programs.

These items include repair parts, office supplies, electronic gear, food, electricity and all the material it takes to keep daily business functioning at the Army's missile and rocket research installation, Redstone Arsenal.

The easiest place to shop this Christmas is your bank. It's well-stocked with gifts of U.S. Savings Bonds, wrapped free in red, white and blue gift envelopes.



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Movie Schedule

WEDNESDAY, December 16
"Goliath and the Vampires" (M-YP)

THURSDAY-FRIDAY, Dec. 17-18,
"The Americanization of Emily"

(M)
SATURDAY, December 19
"So Dear to My Heart" (F)

SUNDAY-MONDAY, Dec. 20-21
"Behold a Pale Horse" (M-YP)

TUESDAY, December 22
"The Pumpkin Eater" (M)
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SONG TELLS STORY—The Nursery School students reach high to illustrate a point during the program they presented for the Redstone Arsenal Officers Wives Club tea. Mrs. J. R. Moore and Mrs. T. E. Little, Jr., are the song leaders.



Tea Proceeds Go To School Fund For Needy

The Silver Tea sponsored annually by the Redstone Arsenal Officers Wives Club will swell the school lunch fund in Huntsville this year.

About 200 members and guests attended the event at the Squirrel Hill Officers Club on Tuesday of last week.

The Christmas theme was carried out with blue-green satin-ball Christmas trees centered on the buffet tables, lighted by tapers in silver candelabra. Army-Navy cloths covered the tables. Along the walls of the room, the decorators used pine branches and cones lighted by a single red taper. The event was held in the ballroom.

Arrangements for the tea were

made under the chairmanship of Mrs. Edwin I. Donley, by wives of officers assigned to the Pershing Project.

Pouring during the afternoon were Mrs. J. G. Zierdt, wife of the Missile Command's Commanding General, Mrs. Howard P. Persons, wife of the Deputy Commanding General for Air Defense Systems; Mrs. Thomas W. Cooke, wife of the Commander of the Army Missile Support Command; Mrs. I. O. Drewry, wife of the Nike Project Manager; Mrs. F. J. Wasson, Jr., wife of the Chief, Missile Support Division at the Ordnance Guided Missile School; Mrs. J. M. Loomis, wife

of the Sergeant Project Mgr; Mrs. William J. Macpherson, wife of the School Commandant; Mrs. Robert W. Grote, wife of the Director of Supply and Maintenance at the Missile Command; Mrs. C. D. Sterner, wife of the Commodity Manager of Antitanks and aircraft; Mrs. G. C. Albert, wife of the Command's Chief of Special Review Office; Mrs. J. T. O'Keefe, club president and wife of the chief of the Research and Development Directorate's Development Division;

Mrs. R. B. Braid, wife of the Nike-X Deputy Project Manager; Mrs. Donley, wife of the Pershing Project Manager; Mrs. W. J. Newman, wife of the Command's

Comptroller and Director of Programs; Mrs. Samuel Yarchin, wife of the Assistant Technical Manager in the Saturn V Project Office Research and Development Division at NASA; Mrs. B. A. Saholsky, wife of the Director of Production and Procurement at the Missile Command; Mrs. A. W. Reed, wife of the Redeye Project Manager; and Mrs. B. R. Luczak, wife of the Mauler Project Manager.

Members of Mrs. Donley's committees were: Mrs. Thomas E. Little, Jr., chairman for decorations; Mrs. David Smith, Mrs. Richard Huff, Mrs. Frederick C. Breslin and Mrs. Peter Stadler, members; Mrs. Johnathan L. Hal-

land, Jr., chairman of the menu and pouring; Mrs. Theodore D. Felber, Mrs. Richard L. Rogers, Mrs. David Bliss, Mrs. Clarence L. Dodson and Mrs. Raymond C. Achterberg, committee members. Mrs. Felber, Mrs. Rogers, Mrs. Bliss and Mrs. Dodson also poured.

Mrs. James Watson played Christmas music on the piano and played for 25 nursery school members who sang for the assembly. Mrs. J. R. Moore, Nursery School teacher and president of the NCO Wives Auxiliary, led the singers assisted by Mrs. T. E. Little, Jr.

Mrs. O'Keefe, welcomed the guests and introduced the entertainers whose average age was four.



SODALITY COFFEE—Mrs. Earl P. Otto (standing), president of the Catholic Women's Sodality, accepts a cup of coffee from Mrs. Donald R. Carter, wife of the Redstone Arsenal Post Chaplain, during a morning coffee in the social rooms of the Post Chapel. The Sodality sponsored a joint social with the Protestant women of the Chapel. A branched Dresden candelabra and little Meissen angels highlighted the Christmas theme.

Sodality Sponsors Morning Coffee At The Post Chapel

The Catholic Women's Sodality sponsored a joint coffee for the Protestant Women of the Chapel in the Chapel social rooms after Mass last week.

Approximately 70 women attended the event. Co-chairmen were Mrs. Richard Fields and Mrs. Donald E. Burnett.

Pouring during the event were Mrs. Donald Carter, Mrs. Orville O'Neal, Mrs. Henry Asselin, Mrs. John O'shea, Mrs. Paul McDermott,

Mrs. David Landrum and Mrs. Earl P. Otto, Sodality president.

Among the guests were the Post chaplains.

A multibranch Dresden candelabra lighted the tea table which had a host of Meissen angels grouped in clusters.

The Catholic women of the choir sang four songs.

Hostesses were Mrs. Kenneth Gubert, Mrs. Donald Diehl and Mrs. Leo Hobbs.



HOSTESSES—Three of the committee who helped make the Redstone Arsenal Officers Wives Club silver tea a success take a break beside the Christmas tree. Left to right are Mrs. Richard Huff, Mrs. J. L. Holman and Mrs. T. D. Felbers, Jr. Wives of officers assigned to the Pershing Project were in charge of plans and execution.



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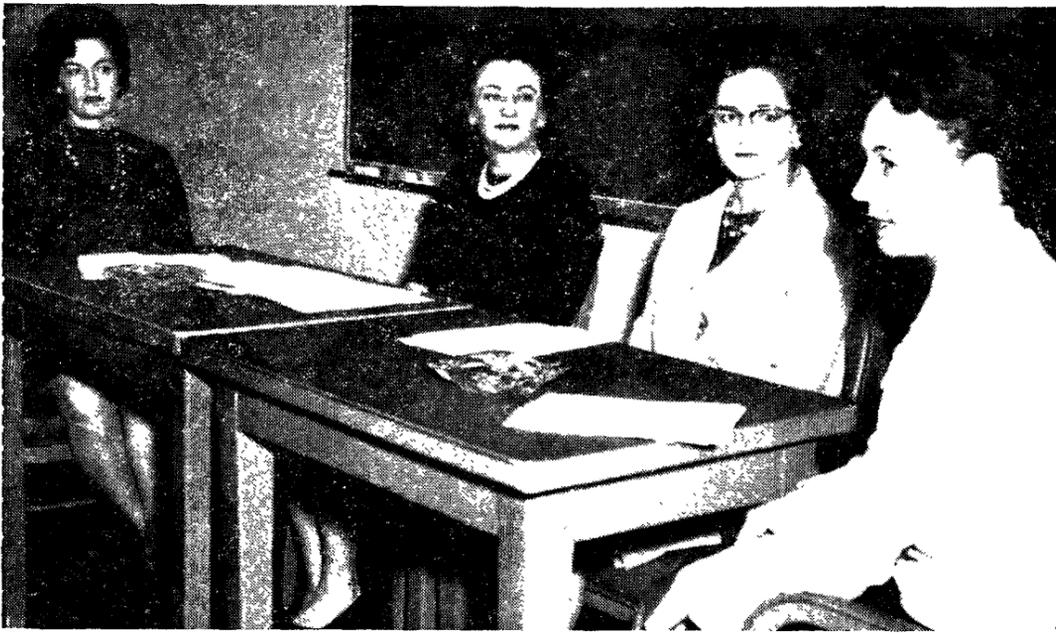
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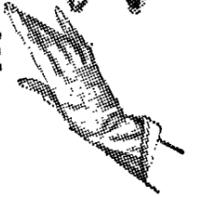
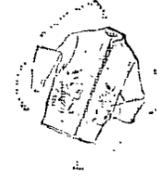
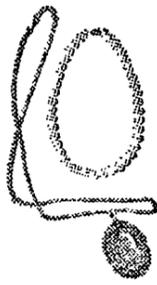
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SECRETARIAL SEMINAR—Highlight of the recent Secretarial Seminar was the panel discussion "The Secretary Looks at Her Job." Panel members are, (left to right), Fran Foster, secretary to the Assistant for Logistics, Missile Support Command; Thelma Fliszar, panel moderator, secretary to the Chief Engineer, Missile Command; Bonnie Holmes, secretary to the Director, Marshall Space Flight Center; and Eileen Hennessee, secretary to the Chief of Staff, Missile Command. The seminar was presented by Training and Development Division, Civilian Personnel Office, AMSC.

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25 YEAR CLUB HOLDS ANNUAL MEETING DEC. 1

The Ten-Twenty Five Year Club of Thiokol's Huntsville Division held its annual meeting Dec. 1 at the Redstone Arsenal Officer's Club.

Membership in the club is automatic for Thiokol employees with ten years uninterrupted employment with the Company. Ninety employees became members during 1964 bringing the total membership at the Huntsville Division to 369.

John H. Goodloe, General Manager, presented the awards to new members. Awards were pins for the men and bracelets for the ladies plus a \$50.00 Savings Bond to each.

In speaking to the group, Goodloe recalled many incidents that have been experienced at the Huntsville Division. He said that he had confidence in the future of the solid rocket industry and in Thiokol, and that his confidence was based on the capabilities and loyalties of people such as were members of the Ten-Twenty-Five Year Club.

MRS. SAHOLSKY, MR. DUNLAP WIN AT PARTY BRIDGE

At Monday night bridge last week Mrs. B. A. Saholsky was high for the women and J. R. Dunlap high for the men.

The bridge group drew seven tables of players to the Squirrel Hill Officers Club.

Second high for the women was Mrs. J. H. Hellmers and for the men C. McBrearty.

To play with the group, reservations are made with Mrs. R. U. Scott, 772-3273.

MRS. IRVIN WINS AT PARTY BRIDGE

Nine tables of players were at the Squirrel Hill Officers Club Thursday to compete in the bridge group sponsored by the Redstone Arsenal Officers Wives Club.

Winners during the play were Mrs. John W. Irvin, first; Mrs. William A. Brooks, second and Mrs. Harry H. Garmon, third. Miss Jorie Rieves was low.

Mrs. A. J. Matthews handles reservations for the group which will meet tomorrow and then suspend play until after the holidays. Tomorrow's competition will be interrupted for a Christmas lunch and the exchange of gifts.

JUDGING IS MONDAY

The Redstone Arsenal Officers Wives Garden Club committee will judge outdoor decorations in the housing area on Dec. 21, according to the chairman, Mrs. Harold D. Frear.

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Lt. Col. Bain Predicts

A veteran missileman told U.S. and German graduates last Friday at the Army Ordnance Guided Missile School, that as maintenance specialists they will be much in demand.

Lt. Col. James Bain Jr., chief of the Systems Engineering Division at the Army Missile Command's Mauler Project Office, cautioned the graduates that "one can easily evaluate a maintenance specialist's performance, for a missile either flies or it doesn't fly. There can be no bluffing about whether or not you are 'cutting the mustard.'"

He outlined a plan for success in the missile maintenance field, citing some of the pitfalls to be avoided when tackling an assignment, and reminded the graduates that "stopping failures before they start, or preventive maintenance is the real secret of success in the maintenance business."

"Once you learn preventive maintenance," he said, "Every missile unit will eagerly await

your intelligence on what few deficiencies are causing most of their unnecessary repair. You will be welcomed with open arms by every unit. You will realize how important maintenance men are to the defense of missiles protecting the free world."

The graduating ceremony was highlighted by the presentation of honor degree diplomas to three top students. They were 2/Lt. Larry E. Collier, high man in his Systems Maintenance Officer course; CWO Derwin C. Sundberg, top student in his Nike Maintenance Supervision course, and S/Sgt. Donald R. Amaral, who made the highest grade point average in his Ballistic Missile Inertial Guidance and Control Repair course.

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Two Named Outstanding Instructors

First Lt. Robert A. Lurcott and 2/Lt. Orrin L. Butterfield were named outstanding instructors of the month by the Officer Training Division of CGMS marking the first time this year that OTD has selected co-honorees.

Lt. Lurcott of the New Missile and Literature Division, is a graduate of Cornell University and has attended courses at Aberdeen Proving Grounds and Redstone Arsenal.

He has served as Operations Officer and commanding officer of a Nike direct support unit in Korea. Returning to the States, he taught logistics at the Officer Training Department where he received the outstanding instructor of the month award for March of this year.

He will leave the Army this January to work as an engineer for Hooker Chemical Corp. in Niagara, N.Y. He and his wife, Virginia, reside on post.

Lt. Butterfield is a graduate of Michigan State University. Following completion of a missile systems maintenance course here last March, he was assigned as an instructor for the Field Artillery Branch of the Missile School.

He is primary instructor for the Sergeant Test Equipment, types of guidance and late developments with secondary responsibility for the Pershing System. He and his wife, Ann, and their four children also reside on post.

(ANF)—On October 19, 1781, Washington at Yorktown, Va., thus Lord Cornwallis surrendered his British forces to General George assuring America's independence.



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At The Service Club

By BETTY HAYES

Have you finished your Christmas shopping? If you haven't let me remind you that you only have seven more shopping days until Christmas.

The Service Club programs for this week will give you the true Christmas spirit. Tonight, for instance, the Germans are responsible for a Christmas program from 5 until 7 p.m. Refreshments will be served; all Enlisted Men and their guests are invited to attend this festive activity.

Thursday evening the Junior Hostesses will meet at 7 p.m. Girls, we need your suggestions for better Service Club programs. Come out tomorrow night and help us plan bigger and better programs for 1965.

Once again the Christmas story will be told in verse and song when the Post Chapel will present a Christmas Pageant to us on Friday Dec. 18, at 8:15 p.m.

Enjoy your chess game, card game, or TV program with a cup

of coffee on Saturday, at 3:30 p.m. Saturday evening, at 8 p.m., a popcorn popping party will take place.

Coffee and donuts will be served on Sunday morning, at 9 a.m.

Instead of the usual Sunday evening dance the Harding College Band will present a concert at 8:15 p.m. For a delightful evening of musical entertainment mark your calendar for this event.

The Service Club will play Santa on Monday Dec. 21 during the evening of games, at 2000 hours. Attend this activity; you may leave with the grand prize.

Tuesday Dec. 22 has been designated as an evening of bridge instructions. Come and learn to play this popular card game with us, at 7:30 p.m.

Since most of you will be leaving this week to go home for the holidays, the Service Club Staff would like to wish you and yours a very Merry Christmas and a Happy New Year. If you plan to spend your Christmas here, attend our activities for a happier holiday season.

Betty

35 To Be Added For Nike X Work At Northrop Corp.

A contract which will eventually result in the addition of some 35 people to the staff of the Northrop Corp. in Huntsville has been signed between the firm and the Nike-X Project Office at Redstone Arsenal.

The contract is for \$746,082. Under it Northrop will perform various technical support services and technical studies as part of the Nike-X research and development program.

Nike-X officials said the contract covers a period of one year. Col. I. O. Drewry is Nike-X Project Manager.

Sept. 16, 1776—Congress completed "Thee Articles of War", with the injunction that they be read every two months at the head of each company, troop and regiment.



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Cash You Get	MONTHLY PAYMENT PLANS			
	6 paymts	12 paymts	18 paymts	24 paymts
\$ 50	\$ 9.23	\$ 5.02		
75	13.84	7.53	\$ 5.45	
100	18.46	10.05	7.27	\$ 5.90
200	36.92	20.09	14.54	11.81
300	55.09	29.87	21.54	17.42

Above payments include principal and interest. Life Insurance is available at group rates on loans of \$100.

Cash You Get	MONTHLY PAYMENT PLANS		
	12 paymts	24 paymts	30 paymts
\$500	\$46.81	\$24.73	
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

Payments above include principal and loan charges if repaid according to schedule, but do not include life and disability insurance, available at group rates.



All HFC Offices Open Saturday Mornings Until Christmas

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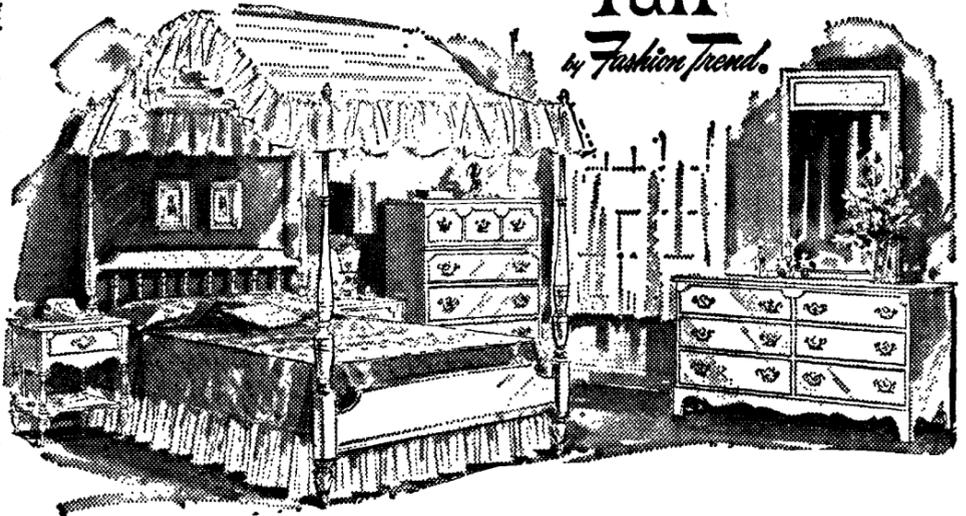
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Bachelor Chest with 3 Drawers

1-Drawer Corner Desk



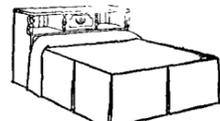
8-Drawer Triple Dresser Framed Tilting Mirror, 45" x 41"



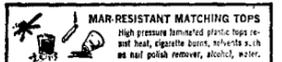
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MP's Edge Ahead In Basketball League Now

Winning 2 games this past week has moved the MP team closer to the league lead. All the other teams are still very much in contention as can be seen by the hot and heavy action by all teams involved.

MP's ran away from the 2nd ETC five as they coasted to a 79 to 37 win. Viking Stuart led all scorers with 22 points, Ron Percifield added 12 for the MP cause. Olson with 18 and Wyche with 13 accounted for most of 2nd ETC's points.

Hq. Co. STC won an easy 55-37 win over A Co. Both teams were cold the first half as the score at

the half was only 18-12. Lonnie Underwood again led his team with 14 pts. as Wiley McMillian added 13 for Hq. Co. STC Pete Carruthers led A Co. as he dumped in 18 points.

Monday nights action found the MP's pulling out a close 53-50 victory over a fired up A Co. team while Hq STC knocked Hq Co. MICOM out of 2nd place and 1st ETC rolled by 2nd ETC 56-30.

Hq STC's victory over Hq MICOM moved Hq STC into a tie for 2nd place in the league. Wiley McMillian led STC with 14 points but was followed closely by Lonnie Underwood and To:n Werth

with 13 and 12 points respectively. Joe Schenk with 20 led MICOM while Larry Davis and Bernard Bell added 15 and 10 points to MICOM's Total.

A Co. put up a very good game and fired up battle before falling to the MP team 53-50. Trailing 26 to 23 at half time A Co. played the MP team even ball the 2nd half. Viking Stuart accounted for 18 MP points while Ron Percifield added 15 for the MP Team. Bill Huber and Ron Zajcek had 16 and 11 points respectively for A Co.

1st ETC ran away from 2nd ETC by a score of 56-30. Leading 36-8 at half-time. They coasted to the

win. Larry McMillin led all scorers with 24 points for 1st ETC while Olson and Wyche added 8 apiece for 2nd ETC.

Final night of the weekly schedule found C Co. trimming B Co. 61-37. Harvey Spencer and Ed Logan were again leaders in the scoring for C Co with 21 and 20 points respectively, while Jerry Work added 12 to that total. Don Smith and Gene Brantley scored 12 and 11 for B. Co.

The Officers took the measure of Hq Co. AMSC in the final game. The final score was 56-47. Bowen led the officers with 17 while Bill McCarthy with 11 and Andy Anderson with 10 led AMSC.

Hq. Co. STC	4	1
Officers	4	1
3rd ETC	2	1
C Co STC	4	2
Hq Co MICOM	3	2
Hq Co AMSC	2	2
4th ETC	2	2
1st ETC	3	3
A Co. STC	2	4
2nd ETC	2	4
Marines	0	5
B Co STC	0	6

LEADING SCORERS

NAME	UNIT	FT	FG	FTA	TP
Stuart, 291st MP		15	38	21	91
Logan, C Co.		22	32	29	86
Underwood, Hq Co. STC		29	26	39	81
Mac Millian, 1st ETC		14	33	24	80
Spencer, C Co.		12	34	23	80
Percifield, 291st MP		11	32	16	75
Olson, 2nd ETC		4	34	8	72
Bell MICOM		22	23	49	68
Collier, Officers		5	29	13	63

STANDINGS DEC. 10

Team	Won	Lost
291st MP	5	0

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Hill Chevrolet Company



GOOD SHOTS ON THE FIRING LINE—Members of the Redstone Arsenal Largebore Rifle Team and Col. Thomas W. Cooke, Commander, Army Missile Support Command, hold trophies the team won during the past six months. From left to right are: Pfc. James K. Chilcoat, Odessa, Texas, Sfc. James R. Dillon, Ft. Smith, Ark.; S/Sgt. Gentry M. Hawk, Montgomery, Ala.; and Col. Cooke. Two members of the team not shown are Sfc. Carl R. Franquet, Pennsylvania and Sfc. William L. Justus, Marietta, Ga. All of the team members are instructors at the Army Ordnance Guided Missile School.

'Deadeyes' With Rifles Bring Six Trophies Back From Three Contests

The Redstone Arsenal Largebore Rifle Team is closing out the first six months of the 1964-65 season of matches after winning six team trophies in three different contests.

Members of the team are: S/Sgt. Gentry M. Hawk, Montgomery, Ala., team captain; Sfc. William L. Justus, Marietta, Ga.; Sfc. Carl R. Frankquet, West Pittston, Pa.; Sfc. James R. Dillon, Fort Smith, Ark.; and Pfc James K. Chilcoat, Odessa, Texas. All are instructors at the Army Ordnance Guided Missile School.

Five of the trophies were won at matches in Knoxville, Tenn. The team brought back three sharpshooter trophies last July 11-12. At a Sept. 10-11 match, the

local team won two expert trophies.

Competing against 10 teams at an Aug. 8-9 match in Tullahoma, Tenn., the Redstone team scored a second-place win. Taking first place was the Tennessee State Championship Team, composed of

top civilian shooters from across the state.

The team uses the Army's M-14 rifle in matches, firing from either the 200, 300, 500 or 600-yard-lines. Shooters are scored as masters, sharpshooters, experts or marksmen.

VOLLEYBALL

Five Teams Share Top

Five teams share top honors in the Unit Level Volleyball League. Hq. Co. AMSC, Officers, German No. 1, C Co. STC, 291st MP's all have like records of two win and no losses. The officers beat the German No. 2 team by scores of 15-3 and 15-2. Hq. Co. AMSC beat German No. 1 by close scores of 15-13 and 15-12. In all other games one of the teams forfeited for failure to field a team in the allotted time.

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Missilemen Gauge Watusi's Jumps

Harry Hall is an Army missile maintenance technician who knows missiles from pitot tube to tail fins, and can reel off complicated electronic formulas like most people can their Social Security numbers.

But Hall was no match for a 10-year-old boy who came to him to untangle the problem of the Watusi jumpers.

The Watusi, as you may remember from geography, live in the equatorial belt of Africa and rival the antelope at feats of jumping. They are champion jumpers.

The problem came to light when Hall called his office at the Army Missile Command, for help. Mike Munsil, the lad who posed the problem, is a neighbor of Hall's in Panama.

Mike figured the Watusi might not be performing all their record jumping on the level. They jump at the equator and Mike had found out that gravity is less at the equator than elsewhere on the earth's surface.

Said Mike, in stating his views to Hall in a hand written letter, "my theory is that if you took a record breaking Watusi jumper to the North or South Pole he would not be able to jump nearly so high." In a no-nonsense ending he added, "what I want to know is if gravity helps the Watusi jumper or not."

Hall pondered and then fired the letter back to the Missile Command where scientists and engineers normally solve problems dealing with missiles and rockets. He said, "I feel that if we are able to give Mike an adequate reply it will prove of great value to increase his interest in science."

Within days Mike got his answer from technicians at the Air Defense Branch Technical Assistance Division in the Missile Command's Directorate of Supply and Maintenance which has technicians like Hall stationed throughout the Free World.

The answer was sent to Hall so he could pass it on to young Munsil with some explanation. It was a lesson in college physics, complete with mathematical formulas and illustrations. Hall's answer to the boy was something like this: It's true that because the earth

has sort of a middle-aged spread around its belt line, the pull of gravity is less at the equator than at the North Pole. The pull of gravity exerted on a body—in this case the Watusi jumper—depends on how far the body is from the earth's center.

Now, while that bulge around the earth at the Equator may concern scientists dealing with highly precise measurements, it will never figure into track meets.

The Watusi may be able to get a little better altitude at the equator than at the North Pole. But, the amount would be "negligible," according to the Missile Command experts. It would take an instrument far more accurate than a field judge's tape to measure it.

So, Mike got his answer. And the Missile Command technicians turned back from calculating how high a Watusi could jump to how high a missile should fly.

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ANNOUNCES THE OPENING OF WINTER QUARTER

JANUARY 4, 1965

Four-year undergraduate programs leading to the bachelor's degree in Arts and Sciences with majors in English, history, mathematics and physics are available in Huntsville to first year students. An undergraduate curriculum in engineering is being determined and will be announced soon. Upper level undergraduate courses are being provided as facilities and availability of faculty permit,

Undergraduate classes will be taught in the following subjects:

ACCOUNTING—Principles of Accounting, Accounting Analysis, Advanced Accounting.

BIOLOGY—General Biology

BUSINESS LAW—Introduction to Business Law

CHEMISTRY—General Chemistry, General and Analytical Chemistry

EARTH SCIENCE—Fundamentals of Earth Science

ENGINEERING DRAWING—Engineering Drawing, Descriptive Geometry

ECONOMICS—Principles of Economics

ELECTRICAL ENGINEERING—Electric Circuits, Electronics I

ENGLISH—Fundamentals of English, English Composition, English Literature, English Composition for Engineers, American Literature, Fiction Writing, American Novel

EDUCATION—Principles of High School Teaching, Secondary School Teaching

FINANCE—Corporation Finance

FRENCH—Elementary French

GERMAN—Elementary German, Intermediate German

HOME ECONOMICS—Introduction to Child Development

HUMANITIES—Man and His Behavior

HISTORY—History of Western Civilization, The U. S. since 1865, Social and Cultural History of the U. S. to 1865.

INDUSTRIAL ENGINEERING—Engineering Organization, Engineering Statistics

MATHEMATICS—High School Algebra, Plane Geometry, College Algebra, Introductory College Mathematics, Analytic Trigonometry, Analytic Geometry and Calculus, Fundamentals of Mathematics, Calculus and Analytic Geometry, Calculus, Applied Differential Equations, Theory of Equations, Introduction to Real Analysis, Introduction to Theory of Differential Equations.

MECHANICAL ENGINEERING—Thermodynamics I, Thermodynamics II

MANAGEMENT—Labor Economics

ENGINEERING MECHANICS—Dynamics, Mechanics of Materials, Fluid Mechanics

MARKETING—International Industries and Commerce

PHILOSOPHY—Introduction to Logic, Ethics

PHYSICS—Technical Physics, Methods of Theoretical Physics, Mechanics, Electricity and Magnetism

POLITICAL SCIENCE—Principles of American Government, Introduction to Foreign Governments

PSYCHOLOGY—Introduction to Psychology, Psychology of Adjustment

SPEECH—Public Speaking

Graduate classes leading toward advanced degrees will be taught in the field of engineering, mathematics, physics, chemistry, education, and public administration. Masters degrees may be completed in Huntsville in mathematics, physics, mechanical engineering, electrical engineering, engineering mechanics, and industrial engineering.

Courses of a non-credit nature of interest to special groups of persons will be provided from time to time. Such courses are dependent on the indicated need of the groups and on the availability of instructional capability. Courses tentatively listed for the winter quarter are American Citizenship, Art Painting Workshop, Calculus Review, Digital Computer Fundamentals II, Investments I, Labor Management Relations, Reading Improvement I, Traffic Management.

Persons who have not previously attended the University of Alabama and who wish to enroll for the Winter Quarter must complete applications well in advance of registration which will begin on January 4. Only those students who have been admitted by the Office of Admissions and Records of the University of Alabama may be registered for classes. Persons who have previously been admitted to the University of Alabama but who have not attended classes at the University of Alabama in recent quarters are advised to check their admission status before attempting to register on January 4.

For further information concerning these courses and concerning applications, contact the University Offices in Morton Hall at 4701 University Avenue, NW. Telephone 837-4700. Registration for the Winter Quarter will be on January 4 and 5 from 1 p.m. to 7 p.m. First classes will meet January 6, 1965.

CLASSES ARE OFFERED MORNING, AFTERNOON, AND EVENING.

Sparks Is Guest Leader At Island Conference

Enoch P. Sparks, logistics advisor to Col. R. W. Grote, Director of Supply and Maintenance, was a guest conference leader at the Top Management Seminar at Rock Island Arsenal recently.

Sparks spoke on organization and planning control, management problems, and techniques used in establishing the National Inventory Control Point at Redstone Arsenal during 1951-53 and of the Stock Management Agency in Japan during 1948-49.

The Top Management Seminar is a training course offered by the Management Engineering Training Agency at the Island Arsenal.

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WANT AD RATE—\$2.50 minimum, per weekly insertion, covering first 25 words. 8 cents per word for all over 25 words. Cash with copy, except where open account basis is previously established. 25c service charge added for credit. Mail copy with payment to Mrs. Zillah T. Heath, P. O. Box 346, Room 217 Times Bldg., Huntsville. Deadline is Friday noon, before Wednesday publication.

Page 14 Redstone Rocket — December 16, 1964

1. For Rent

FOR RENT—1 bedroom furnished apartments conveniently located to arsenal. Reasonable rent. Phone 539-7421 or 534-0748 ttc

FOR RENT—Trailer space on Guntersville Lake 11 miles northeast Guntersville Highway 79. Call Guntersville 582-4702 or write Tanglewood Acres, Route 3, Scottsboro, Ala. for information. ttc

FOR RENT—4000 sq. ft. workable area office space, second floor Quick Building. Available July 1. 117 Greene St., Downtown Huntsville. Phone 534-5127 or 534-4351. ttc

ROOMS FOR RENT—Single and double for men with good habits, completely and newly decorated, economically priced. Central Y.M.C.A. Dial 534-6452. ttc

FOR RENT—TV's portables, UHF-VHF, by day, week or month. 1964 models. Phone 536-9761. Central TV and Stereo Co., Inc., corner Governors Drive and Parkway. Open 8 a.m. to 9 p.m. daily. Phone 534-8689. ttc

FURNISHED—1 or 2 bedroom apartments on dead-end street away from noise, yet very convenient to Gates 1, 8 and 9. Call 536-0775. ttc

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3. Miscellaneous

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FOR SALE—Ponies, Shetlands and horses. Wonderful Christmas gifts. Bring your child and let him choose one. Will keep until Christmas. E. L. DRINKARD, JR., Hartselle, Ala. Phone 773-7302. 12-23c

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4. Mobile Homes

FOR A NAME BRAND Mobile Home come to Texas Auto Sales, 1003 Meridian St., next door to Ray-Piermon Mercury. \$2995.00. Payments as low as \$42.67 monthly. ttc

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EXECUTIVE HOME — Montdale, 1505 Glenwood Drive SE Near Blossomwood School, 3 large bedrooms, family room, 2 ceramic baths, foyer, living room with fireplace, dining room, wall to wall carpets, draperies, 9 large closets, pantry, air conditioning. Phone for appointment, 536-7612 or 539-9765 1tc

BUCK ISLAND SPECIAL—Four acre wooded lot with large two slip boathouse. Owner will sacrifice for \$5,500. Also other lake property Woodall Real Estate & Ins. Agency, Guntersville, Alabama. Phone 582-4351 or 582-2131. 12-23-c

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FOR SALE—New brick veneer; 3 bedrooms, 1 1/2 ceramic tile baths; large living room, central heat and air conditioning. FHA or conventional financing. E. L. DRINKARD, JR., Hartselle, Ala., Phone 773-7302 12-23c

6. Pets

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Alien Reports Due During January 1965

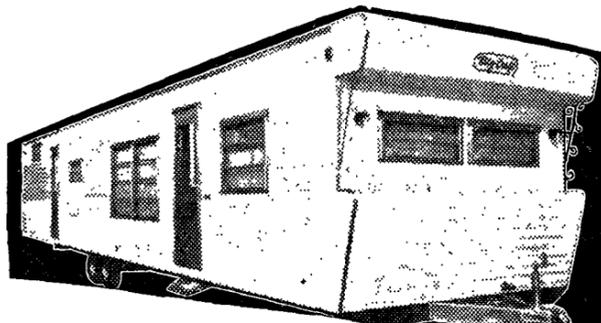
New York, (AFPS)—The Immigration and Nationality Act requires all aliens in the United States and its territories to report their addresses to the U. S. Attorney General annually. The report is to be made during January 1965.

Aliens temporarily absent from the United States during January must report their addresses within 10 days after returning to this country.

Cards with which this report can be made are available at any U.S. Post Office or through the assistance of post or base commanders.

Willful failure to submit the report may lead to serious penalties. Compliance with this requirement is, therefore, of importance to all aliens in the Armed Forces of the United States and to members of the armed forces having relatives who are not citizens but residents of this country.

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Danish Air Force Unit Goes Home

A formal farewell ceremony for a Hawk support unit of the Royal Danish Air Force will be held at the U.S. Army Ordnance Guided Missile School today at 2 p.m.

Commanded by Capt. Hans Arthur Maarth, the unit consists of two officers, two warrant officers and 32 airmen.

Col. William J. Macpherson, OGMS commandant, will present the unit with a certificate of activation.

Participating in the ceremony will be Maj. Svend Moeller, Danish Liaison Officer; Maj. Verne C. Wolfe, chief of the Directorate of Unit Training; and CWO David L. Byrd, head of the Hawk unit training branch. An exchange of mementoes and the rendition of national anthems by the 55th Army Band will highlight the proceedings.

Special guests for the occasion will be Mrs. Harry L. Rhett Jr. and members of the Grace Club Auxiliary of Huntsville who have been hospitality sponsors to the Danish group during their stay here. Col. Macpherson will hold an informal tea for the Danish officers and the Grace Club Auxiliary in the OGMS control room immediately following the ceremony.

Commandant Schedules New Year's Reception

The Commandant's New Year's Day reception for personnel of the Army Ordnance Guided Missile School will be at the Redstone Officer's Club from 11 a.m. to noon Jan. 1 with Col. William J. Macpherson and Col. Frank J. Wasson, chief of the Combat Development Command Ordnance Agency at OGMS, as joint hosts.

Col. H. V. Smith, assistant commandant, and Col. C. E. Chapman, School troop commander, will also receive. Active and retired officers, warrant officers and their ladies are invited for the social hour.

TREE TO BE LIT

The Brownies and Girl Scout Troops at Redstone Arsenal will formally light a Christmas tree at the corner of Bomford Drive and Goss Road at 4 p.m. tomorrow.

The public is invited to attend the ceremony. Afterwards, the Scouts and Brownies will have supper at the Teen Age Club.

1 SHOPPING WEEK LEFT



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Mayor Addresses Federal Bar Men

Mayor Glenn Hearn last Wednesday spoke to the Federal Bar Association during luncheon at the Squirrel Hill Officers Club.

Hearn told the group that, after conferences in Washington with federal administration officials, he was confident that NASA operations at Marshall Space Flight Center would not be curtailed, but would continue far into the future

at its present or an accelerated pace.

The mayor outlined some of the operational plans for his administration and noted the many problems that have resulted from the city's rapid expansion. He expressed again his belief that solution to those problems will require the cooperative efforts of all Huntsville citizens. Mayor Hearn appealed particularly for qualified Huntsville citizens to offer themselves for service on the city's numerous committees and boards.

"Only in this way," he said, "can the city reach its full potential."

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