

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.

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

SEPTEMBER 29, 1965

NIKE-X FILLS TOP POSTS

Lance Hits Another Bullseye

Friday the Army announced that its Lance ballistic missile chalked up another bullseye in a continuation of its developmental flight test program at White Sands Missile Range, N.M.

All test objectives were met as the Army's newest battlefield missile was fired from its light-weight launcher. The successful firing was accomplished by the firing crew of the system's prime contractor, LTV Michigan Division, with support of Army range personnel.

Lance has been picked for high priority project management with Col. W. E. Mehlinger directing the program for the Army Missile Command.

Lance is being developed to fulfill the requirements for a highly mobile, versatile, accurate weapon system to replace the Honest John and possibly Littlejohn rockets. It would complement division tube artillery and would extend the division commander's capability for nuclear and non-nuclear supporting fire.

It is the first Army missile selected to use pre-packaged storable liquid propellants and it will use a new modified inertial guidance and control concept which was conceived and developed in the Missile Command's Research and Development Directorate.

Major ground support equipment for the system includes a self-propelled launcher, a full mobile light-weight launcher and a transporter loader.

Army Band Tickets Ready Today

Tickets will be available today for a free concert to be given in Huntsville by the U. S. Army Field Band of Washington, D. C.

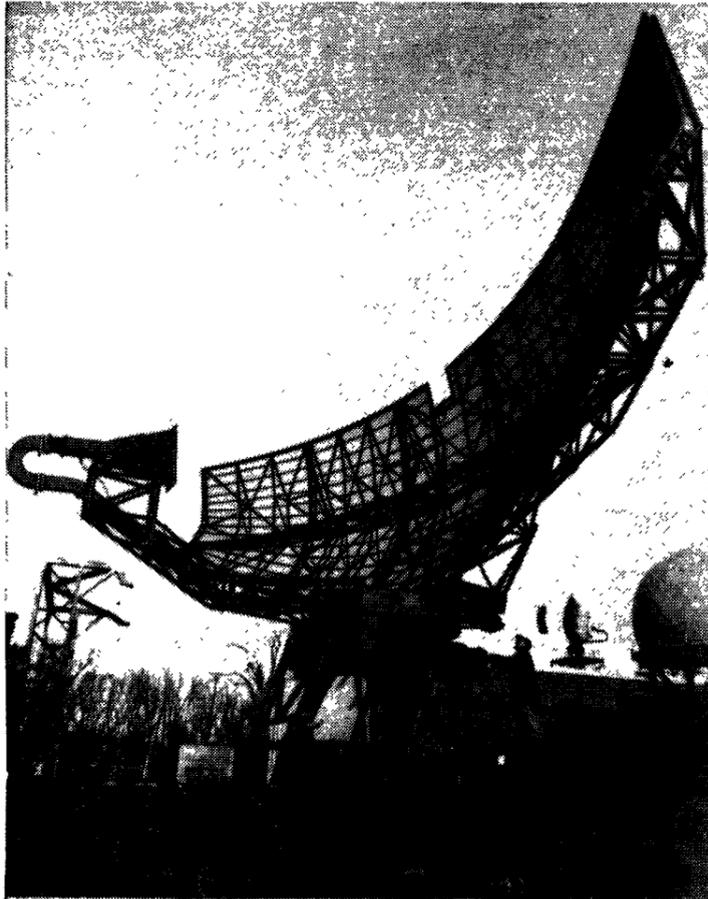
The public concert will be held Friday, Oct. 22, at Lee High School Auditorium, beginning at 8 p.m.

Central ticket pickup points are being announced in an effort to give everyone a fair and equal opportunity to obtain admittance tickets. Tickets will be available at the designated places and one week deadline is being set for eligible persons to pick them up.

All contact personnel are asked to return extra tickets on Wednesday, October 6, to Ralph C. Perrill, Assistant for Community Relations, U. S. Army Missile Support Command, Redstone Arsenal co-ordinator for the band's appearance.

The Huntsville performance of the Army Band is being sponsored by the Department of the Army in co-ordination with the Tennessee Valley Chapter of the Association of the U. S. Army.

"We have made every effort to secure as large an auditorium as possible for the Huntsville appearance of the Army Field Band," Earl J. Dotson, member of the AUSA Special Events Committee, (See ARMY BAND on Page 3)



HERCULES RADAR ON WHEELS—This 43-foot-wide antenna of the Army's Nike Hercules air defense system's High Power Acquisition Radar (HIPAR) is shown in its new mobile configuration. The antenna, three vans of electronic equipment and two generators are mounted on five semi-trailers pulled by truck tractors. Mobile HIPAR will give the missile greater effectiveness against attacking high performance aircraft and short range ballistic missiles. Under tactical conditions, this giant radar antenna searches the sky in a 360 degree sweep for targets.

HIPAR Goes Mobile In Compact Unit

The addition of a new Mobile High Power Acquisition Radar (HIPAR) to the Army's Nike Hercules air defense guided missile system will provide greater effectiveness against attacking high performance aircraft and short range ballistic missiles for the field Army. The Mobile HIPAR will give the same full target detection capability for Army air defense units overseas as now exists at fixed Nike Hercules sites in the United States.

An \$8,134,430 contract for production of Mobile HIPAR was re-

cently awarded to General Electric Company.

The mobile configuration of HIPAR consists of five semi-trailers, each pulled by a five ton truck tractor. One of the other two semi-trailers hauls the 43 foot wide fan shaped antenna in disassembled form and the other carries two prime power generators. Before Mobile HIPAR, transport of the large radar system was time consuming and required more than thirty vehicles.

Under tactical conditions, when HIPAR detects an enemy target as it searches the sky in a 360 degree

sweep, the target location is transferred to the target tracking radar, which points it for intercept purposes. The missile tracking radar issues guidance and burst order to the missile, which has a range of more than 75 nautical miles and can be armed with either a nuclear or conventional warhead.

The Nike Hercules Army Program is managed from the Army Missile Command at Redstone Arsenal, Ala. Col. R. M. Colquitt, Jr., is the Project Manager.

The two stage, solid-propellant Nike Hercules is deployed in key

(See HIPAR on Page 3)



TALKING ABOUT MISSILES—Two representatives of the Missiles and Space Directorate of the Army's Office of the Chief of Research and Development in Washington, D.C., meet with Dr. W. W. Carter, Chief Scientist of the Army Missile Command, during a visit to Redstone Arsenal. From left to right are: Lt. Col. Harold W. Horne; Col. George Sammet, Jr., Assistant Director of Missiles and Space; and Dr. Carter. While at Redstone, the two Army officials visited various weapons system project managers, and research and development facilities. Here, the object of their attention is a model of a Lance, an Army surface-to-surface missile under development.

Project Names Chiefs In Science, Engineering

The Army's Nike-X Project Office at Redstone Arsenal Monday announced the appointment of two civilians with lengthy experience in missile and rocket development to its long vacant Chief Scientist and Chief Engineer positions.

Dr. Oswald H. Lange, the new Chief Scientist, returns to the Army after more than five years with the National Aeronautics and Space Administration's Marshall Space Flight Center at Redstone. During that time he worked directly for Center Director Dr. Wernher von Braun, first as Director of the Saturn Vehicle Project and for the past two years as Assistant MSFC Director for Scientific and Technical Analysis.

Charles E. Richardson, formerly Chief of the Nike-X Project's Test and Range Operations Division was named to the position of Chief Engineer. The appointments were announced by Col. I. O. Drewry, Nike-X Project Manager.

Nike-X is an advanced missile system being developed by the Army as a defense against ICBMs and submarine launched ballistic missiles. It is the Army's biggest single research and development program.

Both Richardson and Dr. Lange will work in the Project Manager's Office at Redstone Arsenal. However, they will participate in Nike-X development activities being carried out at a number of locations in the United States and at the Nike-X operated Kwajalein Test

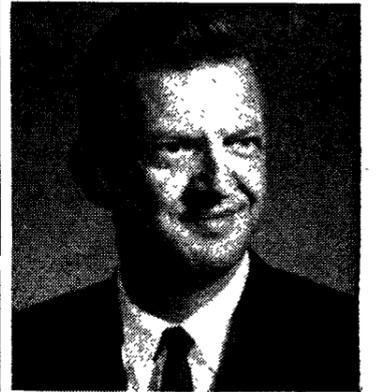


DR. OSWALD H. LANGE

Site in the Marshall Islands in the Pacific.

Dr. Lange, a native of Haynau, Germany, received his Master of Science Degree in mathematics, physics and chemistry at the University of Breslau, Germany, and his PhD in electronics, mathematics and physics at the Berlin Institute of Technology.

During World War II he worked at the German Army Missile Center in Peenemuende, first on V-2 guidance and control and later in charge of development activities



C. E. RICHARDSON

for the "Wasserfall" German anti-aircraft guided missile.

He later became a principal scientific officer at the Royal Aircraft Establishment in Franborough, Great Britain, and, coming to the United States, worked in the Advanced Design Department of the Glenn L. Martin Company at Baltimore, Md.

Dr. Lange joined the Computation Laboratory of the Army Ballistic Missile Agency at Redstone Arsenal in 1955 as Deputy Director.

Dr. Lange has written papers on computers, guidance, instrumentation, and project management. He is co-author of the book "Space Carrier Vehicles." Patents on computers and instrumentation are held for him by the British Ministry of Supply.

As Chief Scientist to the missile defense project, Dr. Lange will be the technical director for research and development work, a post for-

(See NIKE-X on Page 3)

The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket only through the Information Office, Army Missile Command, Redstone Arsenal, Ala., Bldg. 5250, Room A-136, Extension 376-1400 or 376-1500.

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Rocket Ruminations

Man is a creature who lives not upon bread alone but principally by catchwords.

—Robert Louis Stevenson

Firemen Advise Public Practice Prevention

Once upon a time there was an editor who set his wastebasket on fire at least once a day.

He also wrote editorials about fire prevention during the first week in October because that is fire prevention week.

Lots of people are like the editor—they preach but don't practice. That's why the statistics show an annual loss by fire is approximately one and one-half billion dollars. Ten million was lost last week in Nashville when fire razed exhibits at the Tennessee State Fair.

At Redstone Arsenal one life was lost earlier in the year in one of the 109 fires which caused \$536,850 property damage.

Firemen preach year round precautions on the uses of combustibles, the misuse of electricity, carelessness in heating and cooking, and careless smoking habits.

The firemen give good advice. Everyone should perk up and practice what the firemen preach.

MISSILE GRADS GET FRESH TIPS ON THEIR JOBS

An officer of the Army Ordnance Guided Missile School who has recently visited every U. S. Army tactical missile base in Europe last Friday gave 58 graduates from three nations first-hand advice on their new jobs.

CWO. William L. Anthony of the school's Nike division warned the German, Netherlands and U. S. graduates of actual conditions they will encounter in the muck and mire of tactical operations.

He stressed the importance of preventive maintenance ahead of time instead of waiting until some component broke down in the field.

"Every hour you spend on prevention will pay off in six hours saved by the firing battery under combat conditions," he said.

Anthony was introduced by Capt. Dan G. Brewer of the Department of Individual Training at a ceremony in the Redstone Post Theater.

General Motors Receives Contract For \$2 Million

The U. S. Army Missile Command has awarded \$1,944,000 to the General Motors Research Laboratories for 12 months added work on a hypervelocity range research program. The work will be done in the company's Santa Barbara, Calif., plant.

The research authorized by the award is supported by the Advanced Research Project Agency of the Department of Defense and is monitored by the Army Missile Command.

The Missile Command Procurement and Production Directorate executed the award.

SFC Theodorus J. Hendriks of The Netherlands was top man in the group with a 95.5 grade. Other honor graduates were PFC Guenter Eikhoff (Germany), Sp-4 Gary S. Grimes, Pvt Karl B. Ellis, Sp-6 John C. Foster, Sp-4 Paul H. Stowe and PFC Edward C. Mulligan.

Payroll Deduction Proves Popular

Redstone personnel are apparently in favor of the payroll deduction way of contributing to the 1966 Combined Federal Campaign. At least that was the early trend noted from the initial weekly report.

Nine of the 16 campaign areas had made the initial report by press time and in almost every case, better than 50 per cent of the contributions were made through payroll deduction pledges. The nine reporting areas represent approximately 8,000 of the Arsenal personnel.

Total contributions received during the week through pledges and cash donations was \$60,234.67.

The Combined Federal Campaign opened at the Arsenal on Sept. 20 and will continue over a six-week period, ending Oct. 29.

For two of the campaign areas, the initial report turned out to be the final report as each listed 100 per cent participation. These were the Office of the Comptroller and Director of Programs and the Quality and Reliability Management Office.

Abner McNaron was the chairman of the drive for the Comptroller and Edward Michael spearheaded the drive for the Reliability Office.

Each of the large organizations reported auspicious beginnings for

their drives with the Procurement and Production Directorate having reached 40 percent participation in the first week.

The two traditional rivals of P&P were not far behind in the early reporting. Research and Development attained 27 per cent while Supply and Maintenance received contributions from 16 per cent of its employees.

The largest area contribution

has been made by the Army Missile Support Command where 24 per cent of the personnel have contributed a total of \$19,319.90.

Also off to a fast start is the Nike-X Project Office where 36 per cent of the office are listed as early contributors to the campaign.

Three Foreign Officers Receive U. S. Recognition

At an awards ceremony in the Office of the Commandant of the U. S. Army Ordnance Guided Missile School Friday (Sept. 24), three officers of the Foreign Liaison Division were given USAOGMS Certificates of Achievement.

Lt. Col. Luis A. Garcia-Fresca of Madrid, Spain, headed the first group of Spanish Hawk students to graduate from the School.

Capt. Heinz Kuellmer, who came to OGMS over 3 years ago as a lieutenant and was German interpreter, stated that before coming to the U. S. he and the students had only a vague idea of what Redstone Arsenal did although they had heard of it. They did not know of the importance placed on the maintenance of the missile instruction here. Kuellmer stated that after his study and duties here at OGMS he realized the need for having well-trained maintenance men and that upon his return to Germany he hopes to be able to help continue the improvement of maintenance personnel.

Lt. Col. Hans W. P. Finck departs the School after approximately 5 years here. He stated that he was leaving many friends behind but would always remember his close association with the people and OGMS.

On Monday afternoon, Col. Finck was presented the Army Materiel Command Certificate of Achievement by Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command. The citation was for meritorious service as German Liaison Officer to the Missile Command.



DEVELOPS MIPPS SYSTEM — Management of Intellectual Property for Program Savings (MIPPS) has become the operating system for the Army Missile Patent Center, Army Missile Support Command, through efforts of W. R. Murphy, who received a commendation for developing the system from Col. Thomas W. Cooke, Commander, AMSC. The system features a survey of contractual activities and insures that the Government and contractor patents are recognized and that rights are properly administered.

OGMS Officers In Tight Race

About the only thing certain after three weeks of action in the OGMS Officers bowling league is that the loop is in for a close, hard fought race all the way.

The eight-teams are so closely bunched after last week's activity that the league leaders are only two and a half points away from the cellar.

The top rung of the league ladder is shared by the Rocket Rollers and the Satellites. The former forced the tie last week by taking a 2½ to 1½ win from the erstwhile leaders.

Milt Fogel has rolled the top individual total in the league with a 566 while Ed Schroth put together the best handicapped total with 597. Bob Percy has a 547 set to his credit and Abe Chadwick owns the best game, a 222.

The Blackjacks have rolled the best scratch series, 2451, and the Rounders have a 658 game to their credit. The Satellites and the Rocket Rollers each rolled handicap series totals of 2711 and the Satellites put together a 972 game.

Mr. and Mrs. L. P. Weeks Electrocutted Saturday

A Missile Command employee and his wife were electrocuted Saturday afternoon while attempting to install an outside shortwave antenna at their home in Guntersville.

Mr. and Mrs. Louie P. Weeks were found lying on the ground outside their home about 4:30 p.m. It is believed that they were attempting to erect the 50 foot pole and antenna on the house they had moved into just a few weeks ago. Investigators believe that the pole fell out of balance and struck a 7,200 volt power line, bringing death to both Weeks and his wife.

Weeks, a native of Livingston, Texas, was employed in the Industrial Division of the Procurement and Production Directorate. He had been at Redstone Arsenal since 1959, working first at the old Army Ballistic Missile Agency, then with George C. Marshall Space Flight Center, rejoining the Missile Command in March, 1964.

The couple were parents of an eight year old son.

Funeral arrangements were incomplete at Rocket deadline.

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NIKE-X

(Continued From Page 1)

merly held by Dr. Bruce Reese, now at Purdue University.

Richardson, as Chief Engineer will be the Senior Nike-X Project Engineer on development and production planning.

A native of Alabama, Richardson attended Georgia Tech and received a degree in electrical engineering from Auburn University. He held a position with Southern Bell Telephone and Telegraph Company until 1951 when he established his own engineering consultant firm.

He came to Redstone Arsenal in 1952 to do missile research and development work for the Army.

In 1958 Richardson joined the Nike Zeus anti-missile missile program, forerunner of the Nike-X program, at a time when work on the missile defense project was just getting underway.

Later as Chief of the Project's Test and Range Operations Division he was responsible for testing activities carried out at sites literally stretched halfway around the world, Ascension Island in the Atlantic to Kwajalein Island in the Pacific including several sites in the continental United States.

In 1964 Richardson was designated Deputy Nike-X Project Manager for Range Operations in addition to his duties as a division chief.

He is currently attending the Advanced Management Program at the Harvard University Graduate School of Business Administration.

ARMY BAND

(Continued From Page 1)

said, "but only 1,020 seats are available and we anticipate requests for tickets to exceed this because of the Band's popularity."

The general public may obtain tickets on a first-come, first served basis at the Huntsville-Madison County Chamber of Commerce Office.

Arsenal points for ticket distribution for personnel in the organizations mentioned, also on a first-come, first-served basis are as follows:

U. S. Army Missile Command Headquarters Staff, Project and Commodity Offices, and Missile Command elements not otherwise designated, Cortez C. Shepherd, Information Office, Building 5250, Room A-134;

U. S. Army Ordnance Guided Missile School, Information Office, Building 3300, Room 217;

Nike-X Project Office, Rene Mood, Administrative Office, Building 5250, Room A-338;

U. S. Army Missile Support Command, except military personnel of the Troop Command, D. L. Voorhees, Administration and Services Branch, Control Office, Building 7101, Room 30. Military personnel of the Troop Command may obtain tickets at Company orderly rooms;

Supply and Maintenance Directorate personnel, W. P. Burnett, Assistant to the Director, Building 5681, Room A-101-S;

Research and Development Directorate, Don Fulton, Operations Services Office, Building 4505, Room A-129;

Procurement and Production Directorate, Lt. Col. S. W. Tyler, Executive Officer, Building 4488, Room A-200-5;

Missile Intelligence Directorate, Mrs. Betty Burgess, Administrative Office, Building 5250, Room C-311;

Air Defense Fire Distribution Systems Office, Mrs. Barbara Swi-

MICOM Spends \$10 Million For Services

States from all sections of the country received shares of the \$10 million spent by the Army Missile Command during the last month for services, missile hardware and missile related items. This does not include the single contracts for a million dollars or more which go to buy missile weapon systems.

Southeastern states received approximately \$1.2 million in service type awards handled by the Purchasing and Contracting Division of the Army Missile Support Command. This element buys the goods and services which support the missile program.

Purchase orders issued by the Missile Command Procurement and Production Directorate, which generally go to firms in the local area, totaled \$967,102. Other awards executed by this group totaled \$7.9 million, and were placed with both local companies and those nationwide.

Huntsville's portion of the \$10 million is estimated at approximately \$900,000. Two local firms, SPACO, Inc., and Brown Engineering Company, received some of the larger awards.

The money is spent for all types of equipment and services that keep the Army's missile programs running in offices and laboratories at Redstone Arsenal.

HIPAR

(Continued From Page 1)

areas in the United States and some overseas areas.

Mobile HIPAR has been subjected to a variety of tests at White Sands Missile Range, N.M.; Diggs Air Force Base, Texas; Fort Lee and Fort Eustis, Va.; and Aberdeen Proving Ground, Md.

nea, Building 7156, Room 3.

Persons requesting tickets at the above designated places are asked to request tickets only for themselves and members of their immediate families since a limited number of tickets are available. Also, they are asked to pickup tickets personally and not to telephone for reservations.

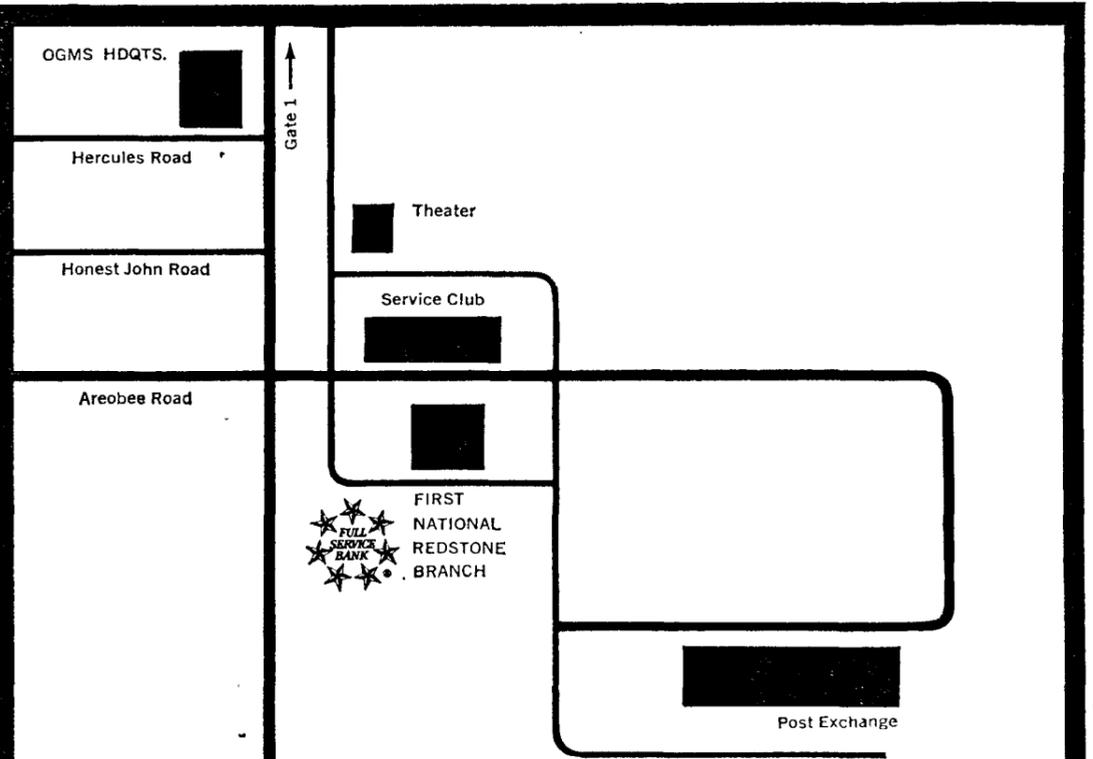
In making the announcement regarding ticket distribution, Dotson said he hoped all persons would cooperate and request only those tickets they needed and would see that other people who want to hear the Army Band had a chance at them if last minute cancellations became necessary.

Directed by Lt. Col. Robert L. Bierly, the Army Field Band is one of the most widely acclaimed musical organizations in the United States.

Selections scheduled to be played during the hour and a half concert will range from popular to classical and military numbers.

Requests by cities, towns and military installations for an appearance of the Band are more than can be scheduled in any one year. Local AUSA officials have been attempting to present the Band in the Huntsville area for several years.

The well-known band was first organized as the Army Ground Forces Band in 1956. In 1950, it became the U. S. Army Field Band of Washington, D.C., with a primary mission of touring grass-roots communities of the United States. It has played in all 50 states.



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Kwajalein Carnival Introduces New Sounds

Three military relief agencies, several thousand natives on a handful of Pacific Islands and a few hundred American kids are thankful these days for bread and circuses—especially the kind of bread that comes wrapped around a wiener.

The story revolves around an American community on a tiny island in the Pacific which didn't want to give up one of its state-side pastimes—a carnival with real hot dogs, rides, side shows and other amusements.

The island is called Kwajalein and it is 4,000 miles from the nearest travelling midway. Kwajalein is the development and testing site for the Army's Nike-X missile defense system.

One of the Marshall Islands, it is home for about 3,000 Americans who came from most of the states

Reserves To Hear About Legislation

Maj. Gen. George O. N. Lodoen (ret.), Director of Army Affairs at National Headquarters of the Reserve Officers Association, will speak Oct. 29 to the Huntsville Chapter of Reserve Officers, wives, and guests at the Redstone Officers Open Mess.

His talk will cover ROA legislation for National Defense, including the status of the proposed Army Reserve-National Guard merger.

Tickets are being handled by Jack Edgar, 876-2918; Bill Potter, 536-9355; Martin Phillips, 536-3301; Edward King, 842-3696; Jim Hoyle, 857-0883; and Pete Redding, 876-1410.

of the Union and who spend one or two years assignments there. Families are included.

This year, as in the past several years, Kwajalein residents built their own carnival. It had a flavor all its own. Its chairman was Army Capt. A. A. Chaney who normally worries about things like range safety where big missiles are involved and WW II Naval shells that keep turning up in Kwajalein's lagoon.

Besides the fun and diversion the carnival also netted a profit of more than \$12,000, all of which was promptly turned over to the various relief agencies and community service projects.

As a result of the carnival the Army Emergency Relief Fund received a check for \$1,741, the Naval Relief Fund received \$1,789 and a comparable Air Force fund got \$143. The distribution was based on the number of personnel each service had based on the island at the time.

Another 20 percent of profits was earmarked for various Marshallese charities and some \$6,000 was kept on Kwajalein for community welfare programs.

The carnival had about everything except fireworks. But, then, Kwajalein kids are used to one of the world's most exotic pyrotechnic displays. The island lies near the end of the Pacific Missile Range where intercontinental ballistic missiles on their way back to earth plunge into atmosphere and turn into giant Roman candles.

The three day affair did, however, boast of parachute jumping exhibitions, water shows and soccer matches.

Carnival goers could call home via "ham" radio, play bingo, try their hands at numerous games of skill, eat a taco from Mexico, take

a chance on an outrigger canoe, buy Micronesian handicrafts, vote for a carnival queen and play a game called Intercept in which the participant tries to hit a tiny moving ICMB with a dart.

This last game had particular

significance on Kwajalein because it was from there that the Free World's first real intercept of an ICBM was made by a Zeus missile.

And, of course, there was a Ferris wheel built right on the island and a merry-go-round that sported airplanes instead of horses.



KWAJALEIN CARNIVAL—A carnival wouldn't be right without some exotic sounds. While grownups might think of carnival music as that provided by a steam calliope, Kwajalein Island kids show them what the new sound is. The two musicians are Stephen Baten (guitar) and Timmy Keeling (drums), sons of Nike-X Project Office personnel. The Kwajalein Test Site is operated by the Redstone based project. Their song is a serenade for Patricia Smith, reigning queen of the Kwajalein carnival.



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Awards Top \$240 Million . . . Nike-X Signs New Pacts With Prime Contractor

The Army announced Friday the signing of a \$221,216,696 contract with the Western Electric Company for the current fiscal year's development work on the Nike-X missile defense weapons system.

The new cost plus incentive fee contract will cover development work on the system for the period Oct. 1, 1965 to Sept. 30, 1966.

The contract was signed by the Nike-X Project Office, Redstone Arsenal, Ala., which is managing the development of the Nike-X system for the Army Materiel Command.

Western Electric Company is the system prime contractor.

The Nike-X system is in advanced development as a defense against intercontinental ballistic missiles and submarine launched ballistic missiles.

The contract does not include funds for production of the system.

Several thousand firms in nearly every state in the Union are expected to share in the award.

The Nike-X system is the highest Department of Defense priority and is the only anti-missile missile system in advanced development in the Free World. It is designed to use highly advanced radars and interceptor missiles to engage and destroy attacking missiles during the terminal portion of their flight.

Bell Telephone Laboratories is responsible for design and development of the system.

Col. I. O. Drewry is Nike-Project Manager with headquarters at Redstone Arsenal. The contract will be administered by the Project's Contract Office.

Besides design and development work on Nike-X, the contract also covers testing of system equipment and related research at White Sands Missile Range, N.M., and the Nike-X operated Kwajalein Test Site in the Marshall Islands.

Western Electric Company will perform work on the system at its plants in Burlington, Greensboro and Winston-Salem, N.C., as well as Laureldale and Allentown, Pa., and field offices at the test sites.

Bell Telephone Laboratories Nike-X development work is centered at Whippany, N.J., and at

the test sites.

The principal Nike-X sub-contractors and their locations are: Avco Corp., Everett, Mass., discrimination techniques and studies; Burroughs Corp., Plainfield, N. J., display system; Control Data Corp., Minneapolis, Minn., computer efforts; Cornell Aeronautical Labs, Buffalo, N.Y., discrimination studies; Douglas Aircraft Corp., Santa Monica, Calif., Zeus Missile airframe and engineering services; General Electric Company, Syracuse, N.Y., radar techniques and signal processing equipment; and the Martin Company, Orlando, Fla., Sprint missile airframe and engineering services.

Others are Hercules Powder Company, Cumberland, Md., Sprint propulsion; Raytheon Company, Andover, Mass., missile site radar and multi-function array radar development; Sperry Rand Corp., Great Neck, N.Y., radars; Sperry UNIVAC Division, St. Paul, Minn., data processing equipment.

Sylvania Electric Products, Needham and Weltham, Mass., radar components; Thiokol Chemical Corp., Huntsville, Zeus missile propulsion; and Wheeler Laboratories, Great Neck, N.Y., engineering services.

The components of the Nike-X system are: Multi-function Array Radar for target acquisition, discrimination, tracking and interceptor missile tracking; missile site radar for target tracking and missile tracking; Zeus missile for long range intercepts; Sprint missile for short range intercepts.

\$12 Million For Studies

The award of a \$12,405,408



ALL OUT FOR ZERO DEFECTS—Eight organizations of the Army Missile Command which were among the first to pledge 100 percent support of the new Army Zero Defects program at Redstone Arsenal this week were presented certificates of recognition by Maj. Gen. John G. Zierdt, Commanding General, Missile Command. From left to right are: (front row) Gen. Zierdt; Brig. Gen. C. C. Harvey, Deputy Commanding General, Air Defense Systems, representing Air Defense Commodity Office; Col. Eugene J. McGinnis, Land Combat Commodity Office; Lt. Col. George C. Eblen, Staff Judge Advocate; Morris Knight, Systems Contract Division A, Procurement and Production Directorate; (back row) Col. Reuben Mundy, Missile Intelligence Directorate; E. K. Charlton, Redeye Project Office; Maj. W. J. Steinebach, Inspector General; and Marvin Snipes, Chaparral Project Office.

contract to the Western Electric Company was announced last Wednesday by the Army for studies relating to the Nike-X missile defense system.

Western Electric is prime contractor for the Nike-X system being developed by the Army Materiel Command as a defense against intercontinental ballistic missiles and submarine launched ballistic missiles.

The contract was signed with the Nike-X Project Office, Redstone Arsenal, Ala.

Under the contract Western Electric and the system's major sub-contractors will perform studies involving production, planning and production engineering for the system.

The studies are of a preliminary nature and are directed toward reduction in production costs and increased reliability since the Nike-X system is not actually in production. It is currently in advanced research and development.

Project officials said the production and engineering studies are a continuation of work already being performed by the Western Electric Co.

The contractor studies will be under the central direction of Western Electric's Burlington, N.C., production planning organization. The major part of the work will be performed at Western Electric facilities in Allentown and Laureldale, Pa., and Burlington and Winston-Salem, N.C.; as well as by the Martin Company at Orlando, Fla.; Douglas Aircraft at Santa Monica, Calif.; the Raytheon Corp., at Andover, Mass.; and the Sperry Univac Division at St. Paul, Minn.

The contract will be administered by the Nike-X Project's Contract Office at Redstone Arsenal.

\$7 Million For Facilities

The Army's Nike-X Project Office, said Friday it had signed a \$7,283,304 contract with the Western Electric for facilities to support the Nike-X research and development program.

Nike-X is the Army's missile system being developed to engage and destroy enemy intercontinental ballistic missiles and submarine launched ballistic missiles.

Western Electric is the system prime contractor.

Project officials said a number of sub-contractors would share in the award. These include: Douglas Aircraft, Santa Monica, Calif., Zeus missile developer; Raytheon Corp., Wayland, Mass., radars; Microwave Associates, Burlington, Mass., electronic components; General Electric, Syracuse, N. Y., electronic components; Sperry UNIVAC, St. Paul, Minn., computer; and several smaller firms.

The contract covers the cost of

the facilities furnished by each firm and does not include a fee.

Col. I. O. Drewry, Nike-X Project Manager, said the Nike-X Contract Office at

Redstone Arsenal, headed by William O. Turney, will administer the contract. The Project is an element of the Army Materiel Command.

OUR FALL SHOES

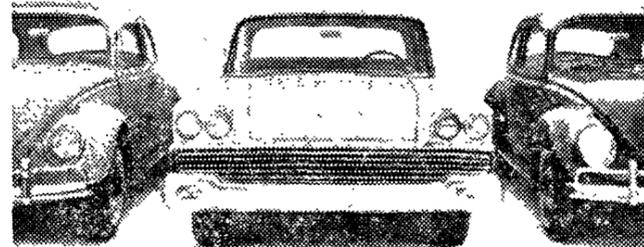
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Demonstration Opens Martial Arts Program



Rymer Sets Fast Pace As Civilian Bowlers Get Hot

Supply Management League: Charley Rymer, 609 (214-203-192), Bob Hollman, 572, Fred Stewart, 563, George Bush, 562 (205, 201), Tom Lindsay, 553 (210), John Montana, 552, Wes Gibson, 549 (243), Bill Wright, 547.

Redstone League: Carl Worley, 574 (212), Vic Passavant, 568 (204), Lou Fabian, 559 (214), Ed Murrah, 550, Bob Adams, 550.

Field Services League: Sam Boda, 571, (203, 212), Troy Faulkner, 563, Nick Sparks, 561 (215), Hal Williams, 559, Al Sarge, 552 (212), Bob Adams, 547, Tom Childers, 545 (213).

AMC League: Bill Crews, 598 (227, 200), Paul McLin 593 (213, 209), C. Shepherd, 569, Varner Dudley, 555, Bob Hubbard, 553, Don Ellerbe, 546, Jim Anderson, 542.

Consistency was the key last week for Charley Rymer as he put together a 609 series to grab Bowler-of-the-Week honors in the four civilian employee bowling leagues.

Rolling for the Bramblett team of the Supply Management League, Rymer fired games of 214, 203 and 192 in posting the second Honor Roll count of the young season. Troy Faulkner had opened the Field Service League season with a 602.

The big series by Rymer set the pace for the most productive week the civilian keglers have enjoyed



CHARLEY RYMER

to date. Fifty-six bowlers exceeded 500 in total and no less than 40 200 games were rolled.

Their efforts also showed in the team total records with a new high game and series rolled in each of the leagues.

The top team effort was put together by the Guided Muscles of the Field Services League. Led by Nick Sparks, Tom Childers and George Farrar, the Musclemen tossed a 1028 game on their way to a 3010 series on their way to a clean sweep over the Spoilers.

Sparks collected 561 sticks, Childers tossed a 545 and Farrar fired for 524.

The top individual effort in the Field Services League was turned in by Sam Boda who collected 571 for the Crackers. Troy Faulkner added 563 more for the same team.

The Maulers and the Ramblers each had a trio of 500 bowlers as they put together the best team totals in the AMC League. The former had a 1027 game while the latter crew posted a 3002 three-game total. The big scorers were good for sweeps for each and moved them into a first-place tie.

Bill Crews led the Mauler assault and the league with a 598. His 171 in the final game left him just two pins short of Honor Roll status. Shepherd led the Ramblers in their ramble past the Bombers with a 569. Hubbard chipped in with a 553 and Don Ellerbe added 546.

The Bramblett's and the Debuggers split the team honors in the Supply Management with the former taking the actual pin fall lead and the latter leading the handicapped totals.

Bramblett's led by Rymer and

Soldiers representing four countries will take part in the martial arts demonstration to be held at the Post Gymnasium, Saturday morning.

The demonstration, performed by experts in each of the four arts of self defense, is being conducted prior to the outset of a training program to be conducted for military personnel throughout the fall and winter months. The exhibitions will start promptly at 9:30 and spectators are requested to be in their seats before the start.

All military personnel, civilian employees and residents of the local community are invited to attend the demonstration. However, the classes will be open to military personnel only.

Col. David Marcelle, the Missile Command's Comptroller and Director of Programs, is Project Officer for the overall program. He said that the exhibitions will be restricted to a half hour apiece.

The participants in the demonstration include Japanese, Korean and German personnel as well as several U.S. Army officers and men. Each is an expert in his particular skill and will later instruct classes.

Probably the least known of the four martial arts among Americans is kendo, the art of two-handed Japanese fencing. Lt. Col. Mikio Kimata will demonstrate, assisted by several Japanese officers.

Col. Kimata is the Japanese Ground Self-Defense Force Liaison officer with the Ordnance Guided Missile School.

Col. Marcelle will handle the aikido exhibition assisted by Capt. Morton Shertzer. Aikido, often called the hand art, is the art of avoiding and throwing an opponent and defeating him with a minimum of force.

The other two arts, judo and (See DEMONSTRATION on Page 7)

John Montana with a 552, had a 907 game and a 2638 total. The Debuggers had a 1008 game and a 2911 three-game total.

Bill Hollman was runner up to Rymer for individual honors with a 572 for the All-Sports, Fred Stewart rolled a 563 for Mac's Marauders and George Bush put together a 562 count for the Bee Burgers.

Burkett's grabbed team honors in the Redstone League with a rousing 1093 game and a 2927 series while Dean's Trailer Court had the two leading individuals and scored the only sweep of the evening.

Carl Worley downed 574 maples to lead the Dean attack that boosted them into a share of the league lead with Sanders Motors. Each has won seven out of eight.

Vic Passavant was next in line with a 568 and Lou Fabian fired a 559 for the defending champion Giles Garden Center team.



KARATE—Lt. Kim (right) defends himself against a knife attack by Capt. Shertzer. Lt. Kim is applying a karate parry-hold together with a right side kick.



AIKIDO—Col. Marcelle uses an 'aiki nage' to throw Capt. Shertzer. The aikido throw is used against a hand hold.

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KENDO—Lt. Col. Kimata assumes the high ready position in full kendo armor.

DEMONSTRATION

(Continued From Page 6)

karate, are more widely known in this country. Judo, or the "gentle way," is the art of throwing, holding, strangling and joint twisting. As an art of self-defense it is called jui jitsu.

Another Japanese officer, Lt. Takashi Minawa, is the judo expert. He will be assisted by Sgt. Lisse, of the German Army.

Karate, the "empty hand," comes to us from the Koreans. It is the art of striking and kicking employed for self defense.

Lt. Kyung Sen Kim, a student at OGMS, will present the karate demonstration assisted by fellow Korean, Sgt. Chung.

Two Aces Spark Early Golf Play

Only one round of matches in the Redstone Arsenal Fall Golf tournament has been completed but already the meet can be stamped as an artistic success.

The early appraisal of the meet is based on a couple of booming tee shots that found their way into the cup. The golfers that scored the aces were Lt. Eric Norman and Maj. John Harris.

Norman drilled his tee shot into the cup on the 165-yard No.5 hole during a practise round in preparation for his opening match. He used a three wood.

Harris waited for the tournament to start to perform his feat when he dropped his hole-in-one on the 165-yard eighth hole. He was using a four iron.

Sportsmen's Club Meets With Wildlife Officials

A special meeting of the RSA Sportsmen's Club has been called by president Eugene Pettenger for Wednesday evening, October 6, at the clubhouse in Building 3648.

Pettenger said that the special meeting was called to enable club members to meet with F. H. (Pete) Farrar, southeastern representative of the National Wildlife Federation, and John Spaulding, executive secretary of the Alabama Wildlife Federation.

The two officials will be in the Huntsville area that day and have expressed a desire to meet with the Arsenal group to discuss conservation problems and other matters of interest to the local club.

Members of other clubs in this locale have been invited to join with the Redstone club for the meeting which will start at 7:30, according to Pettenger.

The president, together with Irving Latham and Ernest Pitts recently attended the annual convention of the Alabama Wildlife Federation at Mobile, as representative of the local club.

They revealed that the Redstone group had been judged the second "Most Outstanding Club in Conservation" at the convention. Only the host club was adjudged superior to Redstone and then only after three committees had a chance to select a winner.

Considering that the Redstone Club has only been organized for one year, the recognition that was gained is a tribute to the dedicated efforts and hard work by the members.

On the final day of the convention Latham was elected to the Federation's Board of Directors and will serve as Director-at-Large for northern Alabama.

Latham was just recently elevated to the office of first vice-president of the Redstone Club succeeding Estel Hobbs who was separated from the service. Pitts was elected to the post of second vice-president, which had been held by Latham.

HOOK REMOVAL

If a stubborn hook won't come out, tie a loop in a fishing line about 18 inches long. Insert the loop over hook, cutting line if necessary to get it on. Then jerk hook free using the increased pulling power of the loop.



JUDO—Lt. Minawa throws Col. Marcelle with an over the shoulder judo throw.

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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

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	24 Months	36 Months	60 Months
\$500	\$46.81	\$24.73	
700	64.52	34.30	
1000	92.50	48.76	\$40.05
1500	137.80	72.80	59.80
2000	181.96	96.13	78.96

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Ask about our evening hours

Oldtimers Plan Biennial Get-Together Nov. 4

Calendars on the desks of rocket experts at Redstone Arsenal show Nov. 4-6 already committed.

That date promises to be the largest celebration ever of the Fort Bliss, Texas "Oldtimers" — many of them a group of former German rocket scientists and engineers who will celebrate their 20th anniversary in the United States. The first group of seven, led by Dr. Wernher von Braun, arrived in the U.S. Sept. 2, 1945.

The group again decided to hold the biennial meeting in Huntsville where Dr. von Braun today directs the Marshall Space Flight Center and has 63 of the original members in his organization. All are now U.S. citizens.

Of the 118 who signed contracts with the U.S. War Department Sept. 15, 1964, eight are now deceased. Fifteen are living in Germany or other European countries and 31 are located with industrial or governmental organizations in the United States. Most of them remain in Huntsville where they have now been residing longer than 80 per cent of those in the city today.

This year, they plan an official observance of the 70th birthday of Dr. Walter Dornberger, who commanded the Peenemuende Rocket Center on the Baltic Sea as a general. He now is an industrialist living in New York.

Others who will attend the celebration include a number of native Americans who started working with the group in Texas.

active in a local music appreciation group.

A cast of 46 will back up these three performers. The show, one of the most elaborate ever produced by HLT, will be directed by Gerry Cortright.

Season membership for the upcoming year, including "Wonderful Town", will be available until the end of September. All seats will be reserved. More information can be obtained by calling the Arts Council at 539-2592.

WIVES OF MILITARY OVERSEAS, WIDOWS INVITED TO COFFEE

Wives of both enlisted and officer military personnel residing in the Huntsville area while their husbands are overseas, and the widows of armed forces personnel in the area, are receiving invitations to a coffee set for 10 a.m. on Oct. 7 in the home of Mrs. John G. Zierdt, 1 Wadsworth Drive, Redstone Arsenal.

Any ladies in this category who did not receive invitations are urged to attend, as the list available at Redstone may not include everyone eligible to join the group.

Plans to form an informal organization of these wives in the geographic area were announced earlier, with the intention of offering Army assistance where ever possible.

Those whose names and addresses are listed at Redstone are now being mailed information weekly about Army activities and

NCO Wives Hold Crazy Clothes Show

The Non-Commissioned Officers Wives Club met for their monthly social and a buffet dinner last Thursday night at the NCO Club. Hostesses for the event were Mrs. Billy D. Martin and Mrs. Manuel Portuguese.

The wives came dressed in "crazy" clothes with the NCO club audience participating in judging their costumes. Mrs. Edwin Getling won first, and Mrs. Edward Powell was runner-up.

There were six guests at the meeting.

services such as religious schedules at the Post Chapel and the medical facilities, as well as other news which may be of interest.

Anyone wishing to add her name may do so by calling 876-3816, the adjutant's office at the Army Missile Support Command, and giving her name, address and husband's current status.

SOCIAL and CLUB EVENTS

Little Theatre To Present 'Wonderful Town' Thursday

Redstone Arsenal will contribute two key leads for Huntsville Little Theatre's season opening musical "Wonderful Town" which is slated for Thursday, Friday and Saturday nights at Huntsville High School auditorium. Curtain time is 8:15.

Ruth Milner will portray Ruth Sherwood, an aspiring writer who arrives in New York in the 1930's with her sister for a crack at the Big City. Miss Milner has appeared in more than two dozen HLT productions.

Miss Milner is chief, Program and Scheduling Branch, Metrology Center, Army Missile Support Command, Redstone Arsenal. James Oaks, an army officer at

Redstone Arsenal, has the top male role of Robert Baker, the magazine editor to whom Ruth tries to peddle her melodramatic stories. Oaks works in the Nike-X Project Office.

A native of Iuka, Miss., Oaks was a soloist for the Choir and Glee Club during his military training at West Point. Oaks performed in "Carousel" for Community Chorus. This will mark his first appearance for HLT.

Appearing as Eileen, Ruth's sister, will be Annette Shingler, who will also be making her initial effort on stage for HLT. Mrs. Shingler is director of the Huntsville Women's Chorus, a member of the Community Chorus and



HAPPY AS WORK PILES UP—Kenneth Cox and Faye Sharp of the Missile Support Command Safety Division are unusual employees because they are happy with this stack of work. They are counting Courteous Driving Caravan pledge cards signed by employees at Redstone Arsenal. Mrs. Sharp says of her work, "As the pledges go up, accidents are bound to come down." Every organization housed on Redstone Arsenal is taking part in the safety campaign.

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Plum Nelly Show To Be Oct. 9-10

Plum Nelly-goers will be able to attend the annual clothesline art show at Miss Fanny Mennen's mountaintop studio-home on Look-out Mountain, in the New Salem Community, Oct. 9-10.

This is the nineteenth Plum Nelly Clothesline Art Show which Miss Fanny started to create a market for the work of serious hometown painters and artisans across the South.

Among the exhibits will be

At The Service Club

By BETTY HAYES

What places will the travel-ogues take us tonight? That is the big question. In order to find out the answer join us at 7:30 p.m. for interesting travel adventures.

The card nights are Thursday and Tuesday evenings this week.

Emphasis will be placed on bridge Tuesday evening, but other card players are welcome to participate at 7 p.m.

If you have a sweet tooth, you won't want to miss the fudge party on Friday night at 8 p.m. We invite you to give us a hand in the kitchen by preparing your favorite recipe for fudge.

Tasty refreshment will be served Saturday afternoon at 3:30 p.m. and coffee and donuts are scheduled for Sunday morning at 9 a.m.

Dance to your favorite records on Sunday evening at 8.

Lots of good times are planned for October at the Service Club. Check this column weekly for details of the month's events.

See you at the Service Club.

Movie Schedule

- WEDNESDAY, Sept. 29
"The Desert Raven" (M)
- THURSDAY-FRIDAY, Sept. 30-Oct. 1
"Ski Party" (M-YP)
- SATURDAY, Oct. 2
"Willie McBean and His Magic Machine" (F)
- SUNDAY-MONDAY, Oct. 3-4
"The Carpetbaggers" (M)
- TUESDAY, Oct. 5
"The Hill" (M)

Two shows nightly at 6:00 and 8:30 p.m. Saturday matinee at 1:00 p.m. Sunday matinee at 2:00 p.m.

PLASTIC TUBING

Plastic tubing such as is sold in electronic parts stores shrinks to half its size when heated with a match. Good to slip on the end of ropes to prevent fraying. Smaller sizes make good bodies for streamer flies and popping bugs. Can you think of any other uses?

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MAP ON PAGE 3

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paintings, pottery, jewelry, candles, weaving and dolls. Many of the artists are repeaters at the Plum Nelly Show, others are newcomers who Miss Fanny is sure will be a welcome find for the visitors.

The New Salem Methodist Church will operate the canteen.

If the weather is rainy, radio stations will be notified early and the show will be postponed a week. It's usually cool atop the mountain and the walking is easier in low-heeled shoes.

From Huntsville, Sand Mountain and Birmingham, Miss Fanny advises visitors to drive to Trenton, Ga., before climbing the mountain. She says the Rising Fawn road is dangerous. Blue and White arrows will point the way.

Tool Engineer Schedule Brimming With Activities

The Huntsville Chapter of the American Society of Tool and Manufacturing Engineers will tour the Wolverine Tube Company in Decatur Tuesday night, and will then return to the Pavilion Inn (where they will meet for the plant tour) to have dinner.

Plans have also been announced for the Southeastern Engineering Conference and Tool Exposition at Atlanta's new Mariot Motor Hotel and the Region V Chapter



PLEDGES—Perfect in the area of Zero Defects pledges are three Army Missile Support Command Organizations. Col. Thomas W. Cooke, Commander, AMSC, honored the first organizations, in three categories, to submit 100 percent ZD pledges after the ZD kick-off ceremony. Coordinators are, (left to right, front), Walter Zuhn, Metrology Center; Charles Amos, Installation Systems and Procedures Office, MICOM Finance and Accounting Center; and Mrs. Robbie Barnett, Operating Services Office, MICOM Finance and Accounting Center. Back row are Don Hervig, Chief, Metrology Center, and Lt. Col. M. A. Jones, Chief, MICOM Finance and Accounting Center.

Officials Conference. The former runs from Oct. 27-29 and the latter is scheduled for Oct. 30. Semiannual Meeting is also scheduled. From Oct. 27-29 the ASTME

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Value Engineers Report \$18.9 Million Savings

Value Engineering has become "valuable engineering" for the people at the Army Missile Command who design and buy the Army's missiles. It was valuable to the tune of \$18.9 million during the last year.

Among the programs reporting outstanding savings through Value Engineering were Lance, Nike Hercules, Pershing, the Air Defense Fire Distribution Systems Office, and an element of the Procurement and Production Directorate.

Pershing topped the list with \$7.9 million in reduced costs.

A redesigned instrumentation system for Pershing missile firings resulted in a cost savings of \$3.4 million as well as affording many logistic advantages. The new concept eliminates the Instrumentation and Range Section. All functions are now being measured by a single telemetry package located in the warhead section.

In another area, the Pershing Project engineers were able to cut costs \$3.2 million after taking a closer look at one phase of the program.

Originally, it was planned to develop Improved Programmer Test Stations (IPTS) and another device called a "Launch Sequencer." The sequencer was intended to enable holding and maintaining a missile ready for firing for a period of time.

The plan called for several sequencers depending on one IPTS for computations. After further study it was apparent that only the

Tripartite Technical Group Meets

Key target guided missile experts from the United States, Britain and Canada are meeting for three days this week at White Sands Missile Range, N.M., to exchange information on the latest developments in their field.

Nineteen people from the three countries will make up the Aerial Target and Drone Working Panel of the Tripartite Technical Cooperative Program, which has been underway for the past several years. The U.S. Army is host for this year's meeting, with the Army Missile Command at Redstone Arsenal planning the program.

The meeting opened Tuesday morning with an address by the Deputy to the Commanding General of White Sands Missile Range, Col. Karl F. Eklund. After a day of presentations by the U.S. Army, Navy, and Air Force, and representatives of Britain and Canada, the group will go to Ft. Bliss, Texas, to visit the facilities of several target missile and drone manufacturers. While in the Ft. Bliss area they will have a chance to watch missile firings at McGregor Range.

A demonstration firing of the Army's Firebee is on the schedule for tomorrow, last day of the meeting. The Firebee has flown thousands of missions in support of U.S. Armed Forces training programs and missile evaluation exercises.

The 1964 meeting was in London.

IPTS should be developed and greater quantities fielded to permit deletion of the sequencer concept.

The total sequencer research and development cost was saved, \$3.2 million.

Maj. J. L. Holman, who was assigned in the Pershing Project Office at Redstone Arsenal, is credited with furnishing the spark that made their efforts so successful.

The Nike Hercules Project achieved \$5.4 million savings. A single effort resulted in cutting out a \$5.2 million expenditure by eliminating a requirement for a target simulator test set. It was found after careful analysis and study that the same data could be received through modification of a piece of current test equipment.

The Air Defense Fire distribution Systems reported a \$1.2 million cost reduction. Although the research and analysis necessary to

establish a change in a piece of air defense fire distribution system equipment was not simple, the final results were simply a substitution of mylar tape for magnetic tape.

The \$1.2 million is being used to produce other items of required equipment.

Lance's contribution totaled \$810,000 and represents numerous Value Engineering efforts. One of the larger savings, \$152,250, was realized by simplifying a design for a ballast warhead for use in the Lance missile test program. V. E. Robeson in the Lance office received a Society of American Value Engineers citation for this work on their V.E. program.

The coordinated effort of procurement and engineering personnel in the former General Support Division of the Procurement and Production Directorate accounted for \$553,000 savings.

When requirements were received in the division for procurement

of luneberg lenses and X-Band beacons for target missiles, there was no existing government documentation available. There was only a single source for luneberg lenses and there were no X-Band beacons which could be purchased "as is" from any known source.

Procurement experts and engineers received the functional and physical requirements from which they prepared missile interim specifications. They were used to purchase the material.

Ordinarily, complete documentation would have been necessary, a time consuming and costly project.

Instead, the engineers in the responsible Procurement and Production are aptly described the physical characteristics and performance requirements in the specifications. This enabled procurement of these items in a competitive basis rather than having to

make purchases from sole source suppliers.

Savings on the luneberg lens purchase for the RP-76 target missile were \$144,000, and \$198,000 and \$193,000 for the Firebee and Redhead/Roadrunner target missiles, respectively.

These savings were established based upon what the indicated prices would have been had the material been purchased from single known sources.

Lt. John Pittman, formerly assigned in the Procurement and Production Directorate as Technical Operations Officer, General Support Weapon Systems Division, and as acting chief, Value Engineering Office, office of the Assistant Director of Systems Operations, was awarded the Army Commendation Medal for his contribution to an effective Value Engineering program.

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ACCIDENTAL POISONING

NOTE: Third in a series prepared by the occupational Health Service, U.S. Army Missile Support Command.

By: Larry G. Wyatt, former Industrial Hygienist,

An analysis of 4000 cases of poisoning in the United States has shown that ninety per cent of the cases involved children. Children under 5 years of age represented 86 per cent of the cases analyzed, the largest number being one or two year olds. A study of the causes clearly indicated that American adults are not taking adequate precautions to protect children in a society that uses over 250,000 different kinds of drugs and household products, many of which are potential killers if misused.

In eighty-five per cent of the cases analyzed, children were under the supervision of a parent at the time the accident occurred; ten per cent were being cared for by other adults; and only 5 per cent had been left in charge of other children. However a few minutes' negligence can cause tragedy as illustrated by the following cases:

A mother who left a can of cleaning fluid on the kitchen table while she answered the telephone returned to find her 2-year-old had swallowed the fatal fluid. A grandfather put kerosene into an empty coffee can and was using it to clean car parts. While he turned his back briefly, his 16-month-old grandchild swallowed a small amount and died 9 hours later.

Evidence that the toxicity of common products is not generally recognized is the fact that many parents delay hours and even days in seeking treatment for children whom they know have swallowed drugs or household products.

For example, one of the fatalities, an 18-month-old child who swallowed iron sulfate pills prescribed for his parents received no medical attention until two days later. A delay of 6 hours in seeking medical care proved fatal for a 2-year-old child who swallowed a few grains of a cornmeal-sugar-rat poison mixture. The mother had put the mixture on the floor late at night and swept it up in the morning, but enough grains remained to kill the child.

Aspirin tops the accident list, accounting for a fourth of the cases studied, most of them small children who swallowed candied aspirin. Prompt stomach pumping prevented serious consequences in most of these cases and there was only one aspirin fatality—a two-year-old child who swallowed 35 tablets and died a day later despite prompt hospitalization and treatment.

One case occurred where a 22-month-old boy inhaled talcum powder while playing with a talcum powder container, often a favorite plaything of small children. The mother heard the child choking, and immediately gave emetics, but failed to induce vomiting. The child was hospitalized, but in spite of various emergency measures, the child died within 20 hours.

Bleaches, detergents, soaps, wa-

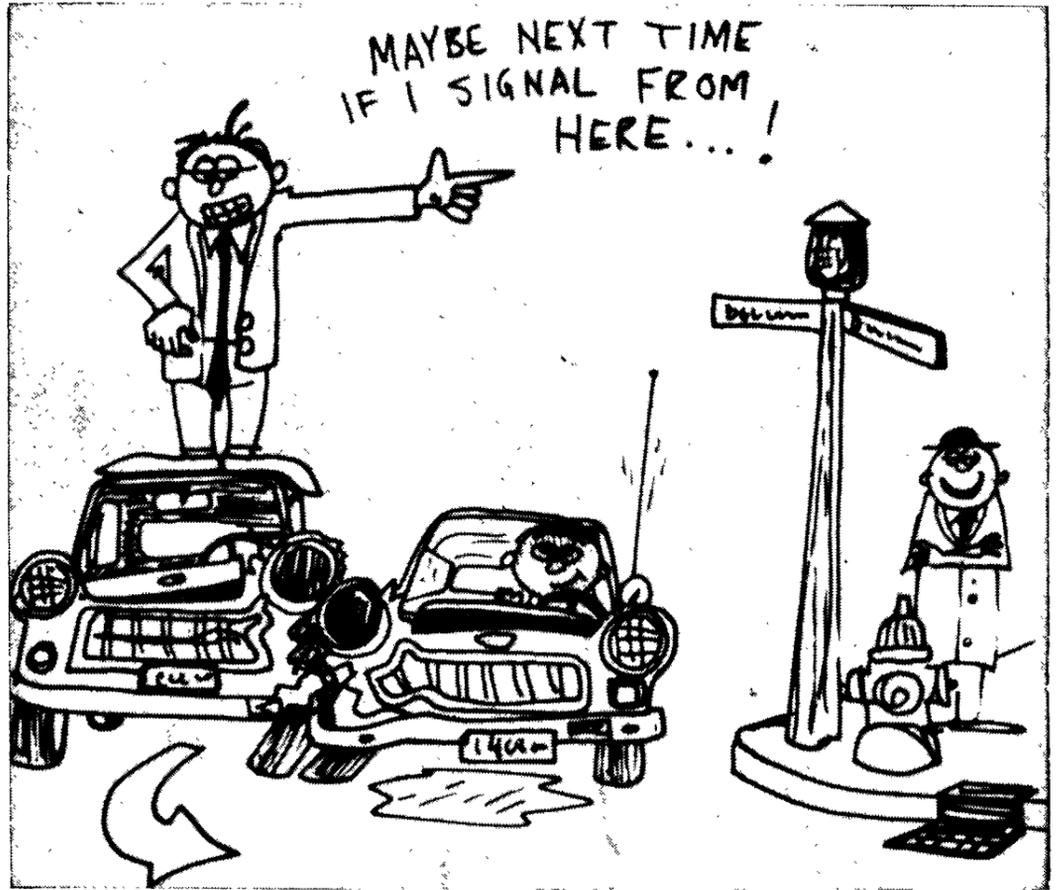
ter softeners, waxes, polishes, lighter fluids, cosmetics, insecticides and herbicides as well as all types of medicines and drugs were among the products cited in the study as causing accidents of varying degrees of severity.

The three principal circumstances under which these products proved dangerous were: they were in old bottles or food cans instead of their original containers; they were not in their usual storage place; the storage place was not locked and was in reach of the child.

The place the accidents most frequently occurred were: the kitchen (41 per cent of all cases); the bedroom (21 per cent); and the bathroom (12 per cent).

Most accidental poisonings could be avoided if parents of pre-school children kept all products either under lock or out of reaching and climbing distance. Many serious consequences of poisoning could be prevented if parents called physicians promptly, without waiting for symptoms to appear.

(Portions of this article are based on a statement by former Secretary of Health, Education, & Welfare Arthur S. Flemming.)



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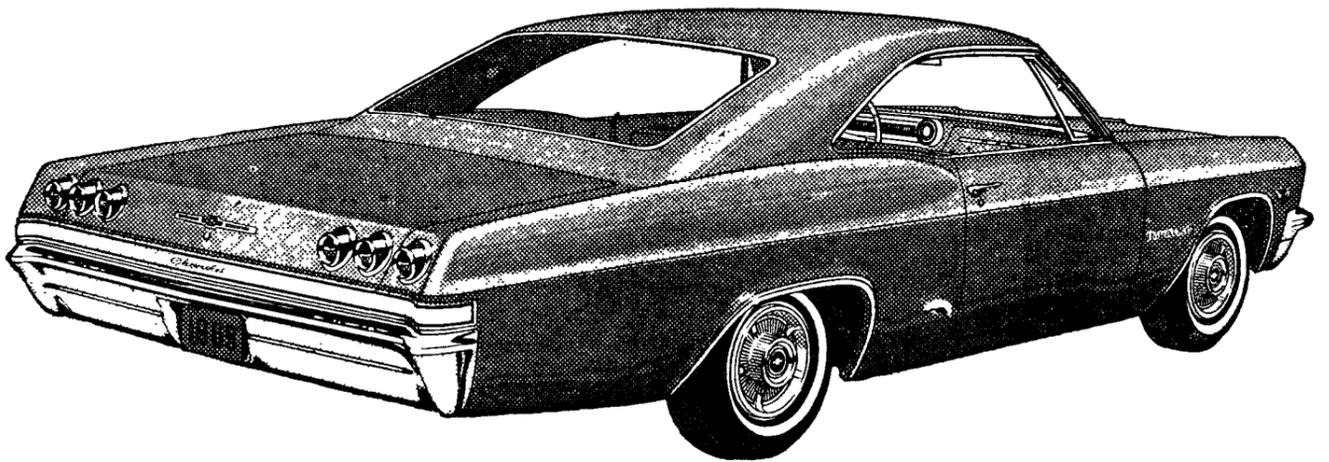
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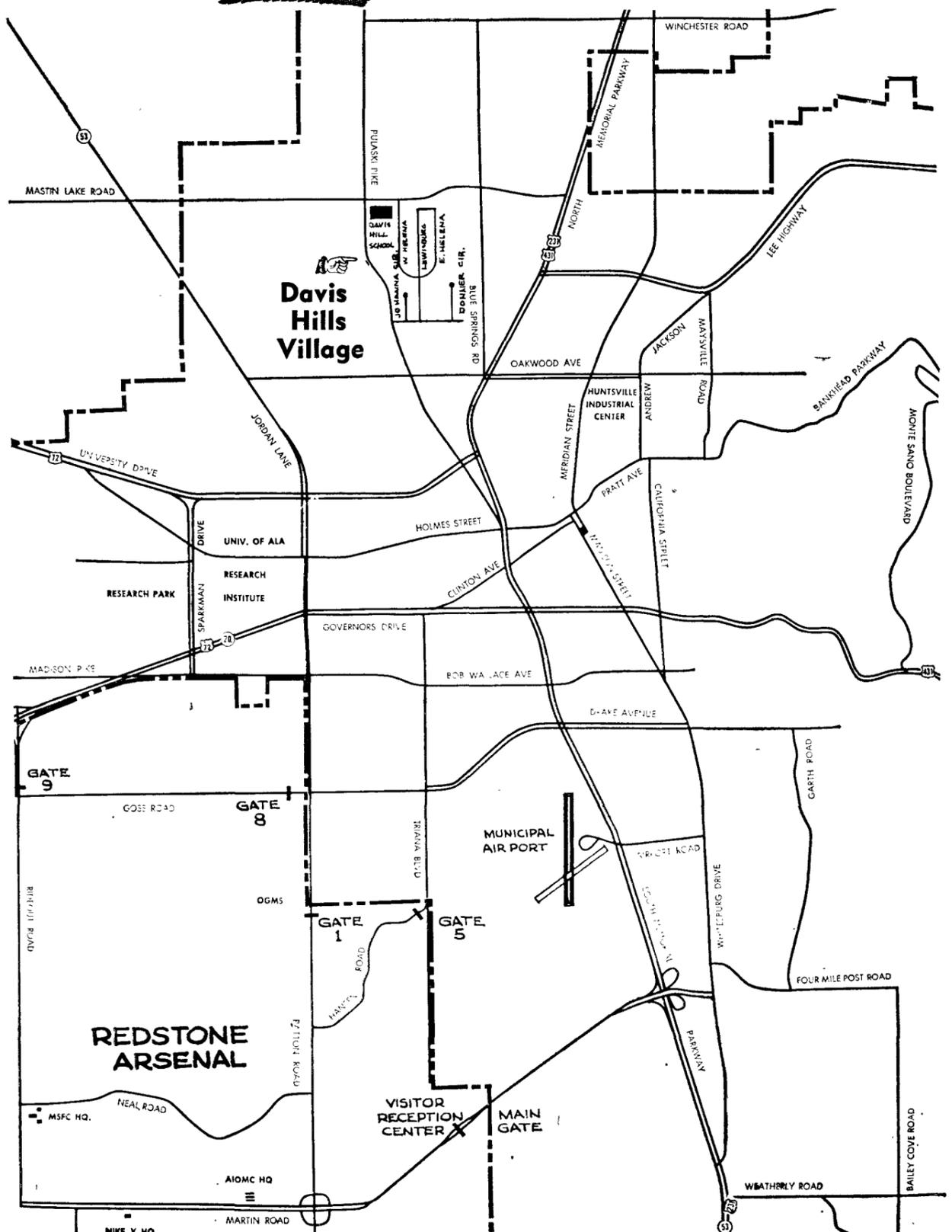
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Page 14 The Redstone Rocket — Sept. 29, 1965

1. For Rent

FOR RENT Extra nice 3 bedroom furnished apartment with bath, air conditioned, electric heat, wool carpets, draperies, off street parking, water furnished, close in \$90.00 mo. Call 536-9171 or 539-9197. 1tc

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3. Miscellaneous

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ARAB—New 3-bedroom, 2 bath on Cambridge Road, no down payment, no closing cost to G.I. T. M. Dorman, Gunterville, 582-3654 after 6 p.m. 1tc

SEVERAL 3 BEDROOM BRICK HOMES in and around Arab, very small down payment. Priced from \$15,000 up. Cardinal Real Estate, Arab, Ala. Phone 586-2561. 9-29c

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MISSILE PARTS FROM ARKANSAS—Two employees of Structures and Mechanics Laboratory at the Army Missile Command, Gay Chancy and Edgar A. Verchot, sort a box of 29 pairs of used nylon hose which was shipped to the lab by a 75-year-old Arkansas woman. The donor, Mrs. W. H. Hurd, Rt. 3, Trumann, Ark., read in an Athens, Ala., newspaper where chemists in the laboratory needed used nylons to make caps for missile launch tubes. Mrs. Hurd said she donated the hose hoping to "... do some good in my small way and help the boys over in Viet Nam."

Suprised Missilemen Get Used Hose For Tube Caps

When the mailman delivered a pasteboard box wrapped in white paper to chemists at the Army Missile Command last week, he ought with him the efforts of little old lady in rural Arkansas help the American soldier. In the battered box were 29 pairs of used nylon hose—with the cut out of each. The chemists were surprised, but knew what the nylons were for, even though there wasn't a letter or note inside. Scrawled on the package was the return address: Mrs. W. H. Hurd, Route 3, Trumann, Ark. One day a few weeks earlier,

after the postman had made his midday run by Mrs. Hurd's home in the rice and cotton Mississippi River delta country of northeast Arkansas, she settled down to read the Athens, Ala., newspaper. Her husband, now 82 and retired, once lived in Athens and they take the bi-weekly newspaper in order to keep up with the folks back home. A feature story on one of the inside pages caught Mrs. Hurd's eye and she read it through. It told about how Missile Command chemists at Redstone Arsenal were using nylon hose to make caps for missile launch tubes. They

were running into the problem of getting a supply of hose. "After I read it, I got to thinking that I might be able to do some good in my small way and



GIFT FROM JAPANESE CHIEF OF STAFF—The U. S. Army Ordnance School receives a Japanese flag from General Yoshihide Amano, Chief of Staff of the Japanese Ground Self-Defense Force in appreciation of training of several Japanese missile maintenance units. Here Lt. Col. Mikio Kimata, liaison officer at the School, presents the flag to Col. Erwin M. Graham, Jr., Commandant.

help the boys over in Viet Nam," Mrs. Hurd later said. "We used to deal in used clothing. And I had been saving these old stockings to stuff pillows with, but I'll let the pillows wait." The missilemen were glad to get the package of hose from Arkansas. They plan to use them in making more missile launch tube caps. Here's the way they do it: After snipping off the foot part and ripping the hose down

the seam, they dip it in epoxy resin and stretch it across a mould. It takes nine pairs of hose for one cap. The chemists can expect another package in the mail with a Trumann, Ark., postmark soon. Mrs. Hurd already has been on the telephone calling up her neighbors and asking them to turn in their runnered nylons to her for shipment to Redstone Arsenal ... and a missile age use.

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Many Civilians Enroll In Off Post Training

A large group of Redstone civilian employees have been enrolled for off-post training courses under the career development program administered by the Training and Development Division of Civilian Personnel.

The courses vary in length and are being conducted at colleges, industrial plants and Defense Department installations scattered across the country.

The local personnel, all of whom started their training this week are:

John Englert, Management Science & Data Systems Office, who will attend the AF/Industry Data Management Symposium, sponsored by the Aerospace Industries Association of America, at Los Angeles.

Donald Kennedy, George Wickware, Arthur Robbins and Loyd Hutson, all of Supply & Maintenance, and John Reppert and Lawrence Parker, of the Hercules Project Office. They will take a 56-hour course on the Transistor Test Set at the American Electronic Laboratories at Colmar, Pa.

Frank Westmoreland, Arthur Bentley, Charles Brown and Roy Cameron, all of the Metrology Center, who were selected to attend the 2nd Annual Contamination Control Lecture Series, conducted this week in Huntsville.

Fred Cheplen, Luther Smith, Donald Bollenbacher, Herbert Walker and Charles Jones, all of Pershing. They are enrolled for the Dale Carnegie Course offered in Huntsville by Leadership Training Services.

Millard Jernigan, Samuel Willis, Larry Turnipseed and Carlos Jordan, all of the Metrology Center, who left for San Francisco this week to study at the U.S. Naval School Command. They are enrolled for a course in the Maintenance of Radiac Equipment.

Billy Gabe, Supply & Maintenance, who is taking the Hawk System Engineering Course offered by the Raytheon Company at Ft. Bliss, Tex.

Lester Mitchell of the Support Command's Maintenance Support Division, who will study Industrial Safety at the AMC Field Safety Division, Charlestown, Ind.

Louis Sisco, Research and Development, and Vernaize Burnett, Procurement and Production, both of whom are enrolled at the U.S. Army Management Engineering Training Agency, Rock Island, Ill. Sisco is taking Quality Assurance Appreciation and Burnett is studying Work Methods & Standards Appreciation.

Melvin Smith, S & M, is studying Packing and Carloading at the Joint Military Packaging Training Center, Aberdeen Proving Ground, Md.

Carl Hanzlik, P & P, is enrolled for the Defense Advanced Procurement Management Course at the U.S. Army Logistics Management Center, Ft. Lee, Va.

Bernice Hawkins, General Counsel, Lloyd Ackerman and Mary Duncan, both of P & P, F. D. Folette, ADFDS Office, and Otha Acuff, of Hawk, all of whom will be taking the Defense Procurement Management course at the Ft. Lee school.

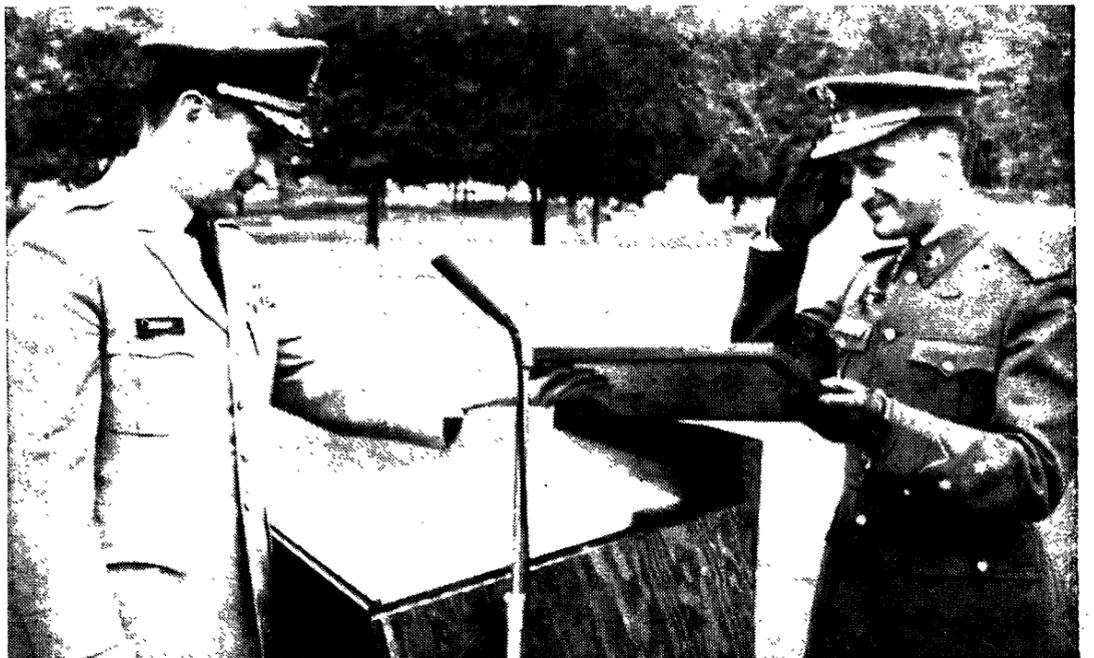
Thomas McIntosh, Marion Banks and Joseph Cannon, of P & P, together with Arthur Pinkham, of

Sergeant, will also attend classes at the Logistics Center. They are enrolled for the Defense Quality Control Management course.

William Jann, Pershing, and Stanley Wicker, of Comptroller & Director of Programs, were selected to attend a seminar sponsored by the Civil Service Commission at the Executive Seminar Center, Kings Point, N. Y. The seminar will cover the Effects of Technological Development.

Harry Vincent, R & D, is spending this week with the Strategic Air Command studying Phase IV, Air Force Missile and Space Program.

Charles Wingard, of the Nike-X Project Office, is at the School of Systems & Logistics, Wright-Patterson AFB, Ohio, for a 200-hour course in Contract Administration.



SPANIARDS END TRAINING—The Spanish Army Hawk Detachment ended training last week at the U. S. Army Ordnance Guided Missile School. Col. Erwin M. Graham Jr., OGMS commandant, left, and Lt. Col. Luis A. Garcia-Fresca, Spanish Army Liaison officer at the school, addressed the graduating group and presented certificates. The Spanish missile unit consists of 43 officers and enlisted men.

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Sunroof sedan, real sharp.
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Sport suburban, nice.
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Bel Air station wagon, V-8, automatic
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1964 V.W. Deluxe Station Wagon

50 h.p. engine. Real nice.
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Solid white. A real beauty.
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Sedan, convertible, radio, nice.
\$795

1960 VW

Sunroof sedan.
\$845

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