



KWAJALEIN TAKEOVER—In ceremonies on July 1 the Nike-X Project Office assumed responsibility for maintenance and operation of the Kwajalein Test Site in the Marshall Islands. The Army takeover of the facilities was directed by the Department of Defense. Here Col. I. O. Drewry, Nike-X Project Manager, and Col. Glenn Crane, Commanding Officer of the Test Site prepare to assume responsibility from the Navy command. Left to right are: 1st Lt. Kelly Hawkins, Acting Adjutant; Col. Drewry, Col. Crane, Capt. H. D. Allen, the Navy Commander; and Commander Gordoniere, his Executive Officer.

Army Assumes Command Of Kwajalein Test Site

In a 30 minute ceremony under heavily fruited coconut trees, the Nike-X Project on July 1 assumed responsibility for the management and operation of the 50-mile-long Kwajalein Test Site in the Pacific Ocean, some 2,000 miles southwest of Honolulu.

It was the Army's second takeover of Kwajalein. The first was in 1944 after a brutal five-day battle with the Japanese.

This time the Army took over from the Navy which had managed the islands since the close of World War II.

A total of nine islands were involved in the takeover. Kwajalein, the largest in the atoll, is the site of the Free World's most elaborate anti-missile missile test facility.

Also involved was Roi Namur Island, the site of the Advance Research Projects Agency's Project PRESS (Pacific Range Electromagnetic Signature Study.)

Second only to Kwajalein in amount of technical instrumentation, the Roi Namur site is geared

to study in great detail the re-entry of long range missiles fired down the Pacific Missile Range.

Transfer of the Kwajalein facilities from Navy to Army management was included in the reassignment of missile and space test range facilities announced by the Department of Defense on November 20, 1963.

The Army's takeover on Kwajalein ended an era of dual responsibility in operating and managing the island test site.

The Nike-X Field Office there, reporting to Col. I. O. Drewry, the Project Manager at Redstone Arsenal, Alabama, has been responsible for missile test operations.

Management and administration of the islands, on the other hand, including supplies and facilities for some 3,600 American residents, had been handled by the Navy since Kwajalein is a part of the Pacific Missile Range.

The Navy will continue some activities on the atoll, including the operation of a sea-air rescue unit and Marshall Island Trust Territories duties. The atoll is a Trust Territory of the United Nations under United States administration.

The Army has been conducting tests of its anti-missile system at Kwajalein since 1959. Among the milestones it accomplished was the first intercept of a test ICBM nose-cone travelling at true ICBM range and velocity.

The first such intercept was made on July 19, 1962. Since then a number of other intercepts have been accomplished.

Originally designed as a Nike Zeus anti-missile missile test site, Kwajalein has become a test installation for the Nike-X system which succeeded the Nike Zeus system.

Col. Drewry said new construction is scheduled for the Atoll in connection with Nike-X testing. A prototype model of the Nike-X Multi-function Array Radar (MAR) is to be built on Kwajalein Island. And on Meck Island some 20 miles north of Kwajalein construction is to get underway on a launching area for the new Sprint missile.

In line with the Nike-X Project Office's decision to hold to a minimum the number of additional military and government civilian personnel required to perform the new mission, Col. Drewry said many technical and supply services required on the atoll will continue. (See ARMY ASSUMES on Page 6)

The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

JULY 8, 1964

Missile School to Train Infantry to Service TOW

The Army Ordnance Guided Missile School has acquired its first new "customer" in 11 years under a long-term contract, Col. William J. Macpherson, commandant, announced.

The school has been given the mission of training maintenance support elements for the Infantry on a new missile called "TOW."

The name of the new weapon is derived from "tube-launched, optical tracked, wire command, guided missile."

Assignment of the new job was made by the Continental Army Command of Fort Monroe, Va.

Heretofore, the Missile School has been training 5,000 students per year exclusively for the Artillery branch of the Army. These weapons have included the Nike-Ajax, Nike-Hercules, and Hawk for air defense, and the Lacrosse, Corporal, Redstone, Jupiter, Sergeant

(See MISSILE SCHOOL on Page 3)



CALL IT A CAREER—A trio of Redstone enlisted personnel brought long and honorable military careers to a close during the monthly retreat parade and review at the end of June. Col. Thomas Cooke, the reviewing officer, is shown presenting retirement papers to M/Sgt. William Cole. The other retirees are SFC. Henry Crider (center) and SP6 Jack McNee. Sgt. Cole's last assignment was with the Medical Detachment of the Post Hospital. Sgt. Crider and Specialist McNee were members of the Student Training Command of the Ordnance Guided Missile School.

KENTRON HAWAII AND NIKE-X SIGN NEW CONTRACT

The Army's Nike-X Project Office has announced the award of a new \$4,748,845 contract to Kentron Hawaii Ltd., a subsidiary of the Ling-Temco-Vought Corp., for continued services at the Nike-X test site on the Kwajalein Atoll in the Pacific.

Nike-X is the Army's missile defense system under development.

Col. I. O. Drewry, the Nike-X Project Manager, announced the signing of the 15-month, cost-plus-fixed-fee contract at his office at Redstone Arsenal.

He said Kentron Hawaii would receive an initial funding increment of \$640,000.

The Honolulu based firm will operate and maintain technical instrumentation and range facilities on the atoll. The instrumentation includes telemetry and photo-optical equipment, meteorological radars, range timing and communications.

Kentron is to have some 150-160 men stationed on the atoll during the contract period.



SIGN NIKE-X CONTRACT—Col. I. O. Drewry, Nike-X Project Manager at Redstone Arsenal, prepares to sign a 15-month, \$4,748,845 contract with Kentron Hawaii Ltd. for technical services at the Nike-X Kwajalein Test Site in the Pacific. Present for the signing are Adrian Perry, President of Kentron Hawaii and William O. Turney, Chief of the Nike-X Contract Services Office.

Missile Intelligence Has Outstanding Bond Record

With almost all of the publicity in the recently completed Savings Bond promotion having been directed at the larger organizations, the work of the smaller units has gone all but unnoticed, despite the fact that in a number of cases outstanding achievements were accomplished.

One such organization is the Missile Intelligence Directorate, where the percentage of participation increased from below 70 per cent to 93 per cent during the promotional drive.

Throughout the campaign Missile Intelligence has been included as a part of Missile Command headquarters units for the sake of reporting. The Savings Bond salesman for the Directorate is Don Mills.

The Savings Bond promotion was conducted on the Arsenal through the months of May and June with early indications pointing to an outstanding success in almost every one of the large reporting organizations.

The official tabulations of participation in the payroll deduction program had not been completed at press time. John Edgar, deputy Finance and Accounting Officer, said that the final result should be available around the middle of July.

(See INTELLIGENCE on Page 5)

North American Gets \$5½ Million For Roadrunner

The U. S. Army Friday announced the award of a \$5,666,450 contract to North American Aviation Columbus Division for production of Roadrunner target missile systems.

The contract was awarded by the U. S. Army Missile Command.

The Roadrunner was developed, fabricated and flight tested by the Columbus Division under the technical supervision of the U. S. Army Missile Command. Since March of 1961 it has undergone a rigorous flight test program at White Sands Missile Range, N. M.

Primary purpose of the Roadrunner is to help exercise and train Hawk and other missile batteries of the U. S. Army Air Defense System.

The Roadrunner is ground launched by a solid propellant booster rocket which drops away after burnout, is powered in flight by a ramjet engine and is recoverable for re-use by a built-in parachute recovery system which is released either automatically or upon command from the ground.

The Redstone Rocket

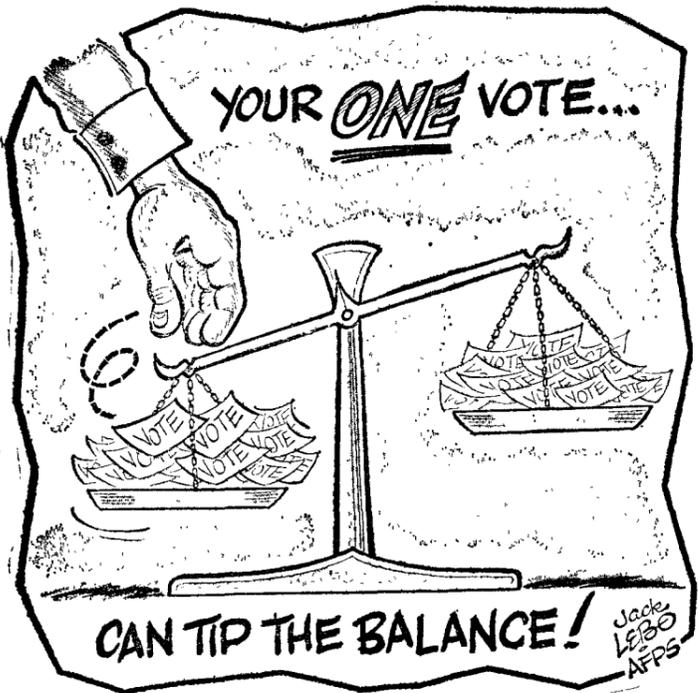
The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket only through the Information Office, Army Missile Command, Redstone Arsenal, Ala., Bldg. 5250, Room A-136, Extension 876-4161.

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Rocket Ruminations

"The only fence against the world is a thorough knowledge of it."
—John Locke



Who Would Dare Say I Vote Won't Count

Ever hear of James G. Blaine? He was an American whose name today would be known to virtually every citizen, had it not been for 575 New Yorkers living in his time. In 1884, less than one additional vote per precinct in New York State would have elected Blaine President of the United States. But New York favored Grover Cleveland by 1,149 votes. If Blaine could have garnered half that total—575 votes—he would have won New York's electoral votes—and the election.

In 1948, President Truman won Ohio by 7,107 votes and California by 17,865. If one voter in only half the precincts in those states had changed his mind, Thomas E. Dewey would have captured 50 more electoral votes, President Truman would have lost 50, and the election would have been thrown into the House of Representatives.

In 1960, the late President Kennedy's national majority was less than one vote per precinct. He defeated Vice-President Richard Nixon by less than 120,000 votes out of the nearly 69 million votes cast.

In 1962, the governor of Massachusetts was elected by 5,341 votes; the governor of North Dakota by 2,007, the governor of Maine by 483 and the governor of Minnesota, after three months of recounting, was elected by 91 votes.

In recent local elections, a mayor in Ohio, a councilman in Arizona, a state legislator in Pennsylvania—all won office by one vote. On Nov. 5, 1963, a candidate for city council in Cincinnati, Ohio, was hospitalized on election day and was unable to go to the polls. He lost by one vote.

Now then, what voting-eligible citizen would dare make this statement: "Aw, the heck with it! My vote won't make any difference anyway?"

Whether it's a lever pulled in a booth on election day or a serviceman's absentee vote mailed in beforehand, every ballot counts! Remember that when you cast yours this year. (AFPS)

Figures Don't Always Refer To Pretty Girls

Al Maykut's job, at first glance, is enough to make any red-blooded male turn green with envy.

Maykut, 27, an engineer at the U. S. Army Missile Command, deals with "shapes" and "figures." But not those of the 36-23-36 variety.

An aerospace engineer with the Propulsion Laboratory of the Research and Development Directorate, Maykut helps determine the shape of the Army's missiles. He designs grain configuration for solid missile propellants.

The figures he works with come from computers which make it possible to predict performance of virtually any propellant grain design.

Maykut, a native of New Britain, Conn., says that slight variations in the shape of solid propellant casting, or grain, change the burning area and have a marked effect on a motor's performance.

One method of grain design requires Maykut to do enough calculations by hand to determine the general grain shape to be evaluated. This data is then fed into a computer, along with information on the propellant—such as burning rate and specific impulse.

The computer digests this information and gives specific answers on the performance of the proposed grain shape. If performance is not up to the standard expected, Maykut makes other calculations to decide another grain shape and the process is repeated until the best possible performance is achieved.

Once the grain shape is determined, Maykut said, a motor case is designed around it. This combination is then evaluated by flying a trajectory—all on a computer.

On some of the more simple grain shapes, Maykut can program the computer to both design and evaluate the performance of the grain that it has just designed.

Maykut and his computers frequently have the task of evaluating grain designs submitted by

contractors to determine whether or not they meet specifications or performance requirements.

In addition, he occasionally runs a study on the propulsion system of an existing missile to determine if modification or re-design of the propellant grain would improve performance. If modification is found advisable, the computer tells what steps to take. If not, the propulsion scientist is assured that he's getting good mileage with his missile.

Maykut, who received his Bachelor of Mechanical Engineering Degree from Pratt Institute in New York, has been at Redstone Arsenal since October, 1960.



WILL IT WORK?—Al Maykut, an aerospace engineer with the Army Missile Command's Research and Development Directorate, programs a computer which will give him answers on the performance of virtually any propellant grain design. Maykut, who works in the propulsion laboratory, asks questions by inserting various programs into the computer and gets his answers neatly typed.

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MISSILE SCHOOL
(Continued From Page 1)

and Pershing field artillery weapons.

Training of maintenance personnel for these missiles has been conducted to support tactical elements formed at the Army Artillery and Missile Center at Fort Sill, Okla., and the Army Air Defense Center and School at Fort Bliss, Texas.

The TOW training will support tactical forces formed at the Army Infantry Center and School at Fort Benning, Ga.

Assignment of the TOW maintenance training mission means that the Missile School will now be meeting the needs of two of the Army's three "combat arms", Col. Macpherson said. These are Artillery, Infantry and Armor.

The time frame of the new mission extends into the 1970's he said.

The TOW system is produced by Hughes Aircraft Corp. of Culver City, California. It uses a tube-

INTELLIGENCE
(Continued From Page 1)

He said the reason the figures are not available at this time is because the manpower figures as of the end of June had to be utilized in compiling the participation percentages. These figures were not available until this week.

He added that he feels certain that when the percentages are released they will reflect an outstanding achievement by the entire Arsenal work force.

launched missile which is commanded through a wire to destroy the latest types of thick armored vehicles, concentrations of enemy troops and entrenched fortifications.

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CLINTON STREET — HUNTSVILLE, ALA.

The Civil Service Board of Examiners has announced the close of examinations for electronic maintenance technician (computer) tomorrow at the close of business. The original announcement is numbered AT-35-1(64) and has grade ranges from GS-5 through GS-10 with comparable salary steps

July 16, 1776—Continental Congress appoints Commissioner of Artillery Stores (later styled Commissioner General of Military Stores), predecessor of Ordnance Corps.

between \$4690 and \$7690 a year.

The importance of U. S. Savings Bonds to the financial portfolios of individual Americans is reflected in the \$20.1 BILLION Series E and the \$661 MILLION Series H Bonds now being held beyond maturity under the automatic extension terms of both series.

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- 8—10 Ton Dorsey van and flat bed semi-trailers
- 1—25 Ton Dorsey low boy
- 1—1961 Ford 9 passenger station wagon
- 5—Cushman Trucksters

Spot bid sales procedure will be followed. No deposit required with bid but successful bidder will be required to immediately place 10% deposit and complete purchase not later than 5:00 P.M. Wednesday, July 15th.

Vehicles may be inspected all day Friday and Friday evening July 10 until sale time of 10:00 A.M. Saturday, July 11, 1964. Bids may be deposited in receptacles beginning Friday afternoon and up to time bids are closed for each vehicle.

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U-72—1962 CHEVROLET, 4-Dr.	1775.00	1960 STUDEBAKER LARK—9 Pass. Wagon	\$875.00
A-236-A—1962 CHEVY II, 2 Dr.	1475.00	A-173-A—1959 RAMBLER, 4-Dr. Sta. Wag.	775.00
A-424-A—1959 CHEVROLET Impala, 2-dr., 6, auto.	1275.00	R-65—1963 RAMBLER, 4 Dr.	1575.00
R-60—1958 CHEVROLET Wagon, 9-Pass, V8	875.00	R-64—1963 RAMBLER, Convertible	1975.00
A-444-A—1950 DODGE, 2 Dr.	175.00	A-292-A—1961 RAMBLER, Sedan	875.00
A-443-A—1960 FORD Convertible	975.00	A-143-A—1958 RAMBLER, Ambassador	475.00
A-341-A—1961 FORD, 4 Dr. S.W.	1475.00	U-73—1963 RAMBLER, 2 Dr.	1575.00
A-244-A—1960 T-BIRD	1875.00	A-347-A—1960 RAMBLER, 4 Dr.	875.00
U-70-A—1958 T-BIRD, 2 Dr. H.T.	1275.00	A-148-A—1963 RAMBLER, 2 Dr. H.T. Coupe	1675.00
A-86-A—1961 FORD, 4-Dr.	1375.00	A-418-A—1959 RAMBLER Wagon	675.00
R-63-A—1960 OLDS, 4 Dr. Hardtop	1375.00	A-247-A—1961 RAMBLER, Station Wagon	1075.00
A-180-B—1959 OLDS. 4 DR.	1175.00	A-434-A—1957 DeSOTO, 2 Dr.	575.00

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Income Tax Withheld vs. '64 Liability

By J. L. Edgar

The Revenue Act of 1964 reduced the amount of federal income tax withheld (14%). When filing the 1964 federal tax return, the amount presently being withheld may not be sufficient to pay the amount due.

Personnel who desire to increase the amount of tax withheld may do so by submitting a new TD Form W-4 (Withholding Exemption Certificate) to reduce the number of exemptions. Personnel may also increase or initiate payroll deductions for U. S. Savings Bonds sufficiently to meet their income tax liability.

The attached chart "Federal Income Tax Withheld Versus 1964 Income Tax Liability" is provided to assist individual to find what his tax status will be at the time the 1964 return is filed. An explanation of the chart follows:

Column A -- Selected monthly taxable incomes listed in ascending order.

Column B -- Annual taxable income based on the monthly income under Column A.

Column C thru K -- Two entries appear in each block. The upper figure represents the amount of income tax which will be withheld during the year based on the taxable income under Column B and the number of exemptions claimed on the W-4. The lower figure represents the income tax liability on that income for 1964 based on the standard deduction of 10% or \$1,000, whichever is less. The lower figures in each block under Column C have assumed that an individual return will be filed; the lower figures in Column D thru K have assumed a joint return will be filed.

To use the chart, select under

AWARDS AND DECORATIONS

The award of the Good Conduct Medal has been made to the following named enlisted personnel in recognition of their exemplary behavior, efficiency and fidelity.

Good Conduct Medal Clasp -- Fifth Award: SFC Charles L. Carpenter and SSGT Milton L. Allsup.

Good Conduct Medal Clasp -- Fourth Award: Samuel J. Warner, Jr.

Good Conduct Medal Clasp -- Third Award: SGT Rodney J. Lavergne.

Good Conduct Medal Clasp -- Second Award: SP5 Robert Jenkins, SP7 Raymond C. Waldron, SP5 Joe D. Worsham and SGT Delbert E. Pate.

Good Conduct Medal -- First Award: SP5 Robert W. Bloch, SP5 George R. Breeden, SP5 Sherman R. Gooden, SP4 Tadashi Kimura, SP4 Ronald J. Muncy, SP5 Harold F. Dill, SP4 Paul A. King, SP4 Tamao Sasaki, SP4 Roysell Hall, SP4 Melvin F. Larmon, SP5 Russell R. Moyer, SP4 Alford H. Pilkins, Jr., SP4 Wayne F. Thompson, SP4 Willie J. Thompson, SP5 James R. Walker and CPL Herbert E. Wells.



FEDERAL INCOME TAX WITHHELD VERSUS 1964 FEDERAL INCOME TAX LIABILITY

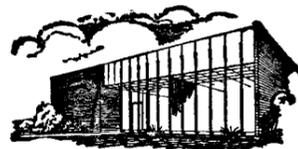
Col A	Col B	Col C	Col D	Col E	Col F	Col G	Col H	Col I	Col J	Col K
When Your Taxable Monthly Pay Is	Your Annual Pay Will Be	AND THE NUMBER OF EXEMPTIONS CLAIMED IS								
		1	2	3	4	5	6	7	8	9
160	\$ 1,920	178.80 166.00	85.20 51.20							
200	2,400	246.00 250.00	152.40 128.00	58.80 16.00						
240	2,880	316.80 336.40	223.20 206.20	129.60 92.80	36.00 -0-					
280	3,360	384.00 424.80	290.40 285.40	196.80 169.90	103.20 57.60	10.80 -0-				
320	3,840	451.20 511.20	357.60 367.00	264.00 249.10	170.40 134.40	78.00 23.10				
360	4,320	518.40 597.60	424.80 445.40	331.20 328.50	237.60 212.80	145.20 99.20	51.60 -0-			
400	4,800	595.20 684.00	501.60 521.60	409.20 412.50	315.60 292.00	222.00 176.50	128.40 64.00	36.00 -0-		
500	6,000	763.20 928.00	669.60 720.00	577.20 608.00	483.60 500.00	390.00 377.50	296.40 259.00	204.00 144.00	110.40 32.00	16.80 -0-
600	7,200	948.00 1181.80	854.40 936.00	762.00 816.00	668.40 696.00	574.80 586.40	481.20 465.00	388.80 342.50	295.20 226.00	201.60 112.00
700	8,400	1048.80 1469.20	955.20 1152.00	862.80 1032.00	769.20 912.00	675.60 792.00	582.00 672.80	489.60 554.00	396.00 430.00	302.40 308.50
800	9,600	1284.00 1762.20	1190.40 1368.00	1098.00 1248.00	1004.40 1128.00	910.80 1008.00	817.20 888.00	724.80 768.00	631.20 651.20	537.60 543.20
900	10,800	1384.80 2116.00	1291.20 1621.00	1198.80 1480.00	1105.20 1360.00	1011.60 1240.00	918.00 1120.00	825.60 1000.00	732.00 880.00	638.40 740.00
1,000	12,000	1586.40 2496.00	1492.80 1903.00	1400.40 1762.00	1306.80 1621.00	1213.20 1480.00	1119.60 1360.00	1027.20 1240.00	933.60 1120.00	840.00 980.00
1,100	13,200	1754.40 2904.00	1660.80 2185.00	1568.40 2044.00	1474.80 1903.00	1381.20 1762.00	1287.60 1621.00	1195.20 1480.00	1101.60 1360.00	1008.00 1220.00
1,200	14,400	1922.40 3340.00	1828.80 2475.00	1736.40 2326.00	1642.80 2185.00	1549.20 2044.00	1455.60 1903.00	1363.20 1762.00	1269.60 1621.00	1176.00 1460.00
1,300	15,600	2090.00 3790.00	1996.80 2798.00	1904.40 2636.00	1810.80 2474.00	1717.20 2326.00	1623.60 2185.00	1533.20 2044.00	1437.60 1903.00	1344.00 1738.50

Column A the monthly income nearest the taxable income. Read directly across the column which reflects the number of withholding exemptions claimed on TD Form W-4. This figure is the approximate income tax liability for 1964, assuming that all of the exemptions claimed are on the return. If the upper line is larger than the lower, a refund will be due. If the lower line is larger, the difference is the approximate amount due when the return was filed.



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REDSTONE ARSENAL, ALABAMA

Fair Is Mecca For Many Vacationers

In a cross sampling of vacation plans around Redstone Arsenal, the Worlds Fair in New York seems to rank first. Some arsenal personnel have been to the Fair, while others still have it on their schedules.

Among the Fair visitors, past, present and future are: Bob Moore and Walter Reddens of the Research and Development Directorate; Jack Torzillo and Enoch Sparks of the Supply and Maintenance Directorate; Mrs. Flora Gibson, the Staff Judge Advocate Office; Mrs. Irene Ball, Douglas L. King and Mrs. Laverene Aderholt, General Counsel; C. P. Barrineau, Mr. and Mrs. John Micklic, Mrs. Meme Warren and Mrs. Louise Turner of the Civilian Personnel Office.

The Barrineaus, who are among those who've been to the Fair, also went to Connecticut and drove back on a route through the Blue Ridge and Appalachian mountains.

Meme Warren took her niece and two girls from Huntsville. While in New York, they also saw "Hello Dolly" and "Oliver" and toured the United Nations building. In Washington, she and her party had a tour of the White House.

Louise Turner and her family will go to the Fair, visiting Washington and Philadelphia on the way up to New York.

Other Civilian Personnel vacationers are: Mr. and Mrs. Russell Cooper, who went to Kentucky; the John Heath family, who will vacation at Gulf Shores and Biloxi; Mr. and Mrs. Robert Townley, who chose Florida; Mr. and Mrs. Tom Richards, who are going to New

Military Police Add Traveling Office

An accident usually leaves everyone involved a little stunned. The 291st Military Police at Redstone Arsenal have introduced additional scientific means to eliminate as much as possible the guesswork of sifting facts from unintended fiction in testimony.

They have added a truck in the Traffic Control section which carries the needed items to sift much of the information without a word being spoken.

The truck, like all MP cars here, is radio equipped. In addition the standard equipment includes a camera and measuring meter—known to the MPs as a walking

stick—to measure footage on skid marks. The interior of the truck is arranged so that a typist and interrogator can take testimony from one to two witnesses under cover when the weather is too hot or too cold.

In case of a trapped driver or passenger, wrecking bars and fire axes are standard equipment. A first aid kit is always filled and ready for emergency first aid.

The Noncommissioned Officer in charge is S/Sgt. Gene A. Susin who has 26 men on patrol, manning traffic control points, handling the radar equipment, and guiding VIPs. When the job gets too big, they call on other sections to help handle such crowds as those that turn out for a Presidential visit.

Traffic control points in the morning are located at different

sites than those for the afternoon traffic. The Traffic Control men remain in a fluid state of readiness to handle points of congestion as change occurs.

Susin answers to the Operations Officer, Lt. Michael Thompson.

Traffic is only one of the problems of the Provost Marshal, Col. William Luk, who is also the Troop Commander for the Army Missile Support Command.

Research & Development Plan Picnic On Saturday

Employees of the Directorate of Research and Development will forget about missiles Sunday, at least long enough to stage their annual picnic at the Redstone Recreational Area on the Tennessee River.

The picnic will be similar to last year, when large quantities of food and beverages were consumed. Official picnic hours are 1 to 5 p.m.

Docking and skiing facilities are available for anyone desiring to bring boats, and a variety of dry land sports are scheduled.

Arrangements to attend may be made with the Directorate's Technical Program Control Office at 876-2024.

Jersey; Miss Jan Claire Land who spent the past weekend in Pensacola; and Mrs. Martha Whitt, who is in Sarasota, Fla.

John McCance of R&D and his family have been to Florida. Mrs. Carolyn Tidwell of the Judge Advocate Office has been to the Smokies, including Cherokee, N. C. and back through Chattanooga, while Sgt. Arthur F. Parrow of that office has vacationed in Pennsylvania and New Jersey. Cindy Phillips of S&M has been at Ft. Walton Beach.

Mrs. Juanita McCary, Comptroller and Director of Programs Office, has visited her mother in California, and saw some ball games and Disneyland.

One of the more exciting trips is the one Mildred May of Supply Operations, S&M, took in April. She flew to Europe and saw London, Holland, Germany, Switzerland, the French Riviera and Paris.

In the unusual vacation category is the journey made by Capt. John Ott of the Procurement and Production Directorate and Lt. Daniel A. Bowlus of R&D. They went to Canada for a couple of weeks on a combination canoeing and fishing expedition. Capt. Ott says it rained a couple of days, and they didn't catch many fish, but they did get some big ones.



BAD CRASH—The hole in the windshield of the sedan is mute evidence of what happened to the driver of this vehicle. Shooting with his camera is SP4 Joseph G. Prinzivalli, of the 291st Military Police Company and a member of one of around-the-clock teams that man the Traffic Control Division's traffic control truck. The truck is equipped especially for almost any eventuality should a wreck occur. Prinzivalli's partner is SP4 Alfred Pilkins.



MAKES REPORT—The Traffic Control truck is equipped for a quick and full report as well as camera, rollotape to measure skid marks, first aid supplies and other items that might or might not be used in any one traffic accident investigation. SP4 Alfred Pilkins of the 291st MP Company is doing the reporting. He is a member of one of several teams that operate the truck.



SPREAD 'EM OUT—The unfortunate sedan driver isn't going to "head 'em up" until he has some extensive doctoring of his steed. The truck made a "u" turn and the driver of the sedan almost took out the cattle fence trying to avoid a collision on Patton

Road. The Military Police were on the scene to determine who was wrong. The regular patrol called for the special investigation truck.

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ARMY'S FIRST TAKEOVER—Col. Glenn Crane, Commanding Officer of the Kwajalein Test Site, points out plaque commemorating the Army's first takeover of Kwajalein Island in five days of bitter fighting in February, 1944. Kwajalein is the Nike-X missile defense system test site in the Pacific Ocean. At left is Col. I. O. Drewry, the Nike-X Project Manager.

ARMY ASSUMES

(Continued From Page 1)

tinue to be performed by private industry.

Military personnel on the atoll include members of the Nike-X Field Office, the Army Corps of Engineers' Honolulu District, Army Test and Evaluation Command, representatives of the Military Air Transport Service and Naval personnel assigned to the sea-air rescue unit and the Pacific Missile Range.

The majority of the civilian residents are members of the Army's Field Office and the Nike-X de-

velopment contractor team including Western Electric, Bell Telephone Laboratories and their subcontractors.

Other American personnel on the island include employees of: Pacific-Martin-Zachry, a construction contractor; Global Associates, a logistics contractor; and Kentron Division of Ling-Temco-Vought, the range support contractor.

In addition, there are personnel of the U. S. Weather Bureau and Trust Territories government located on Kwajalein.

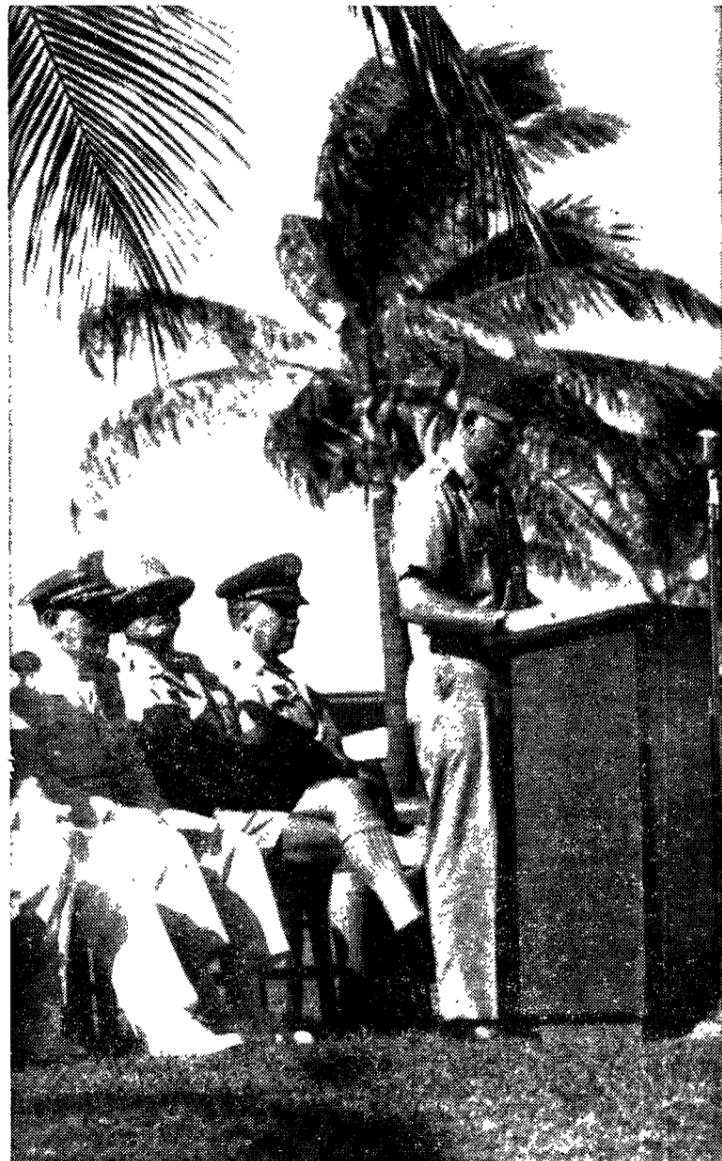
Personnel of the Massachusetts Institute of Technology's Lincoln Laboratories and the Radio Corporation of America are based on

Kwajalein Island and Roi-Namur Island on the northern tip of the atoll. These companies are involved with Project PRESS.

Kwajalein, the principal island in the atoll, is roughly 2½ miles long and covers some 700 acres. During World War II both it and Roi-Namur were Japanese strongholds.

Kwajalein was taken by Allied troops in February 1944, after five days of bitter fighting including hand-to-hand combat with dug-in Japanese troops and shelling by Naval ships lying off-shore.

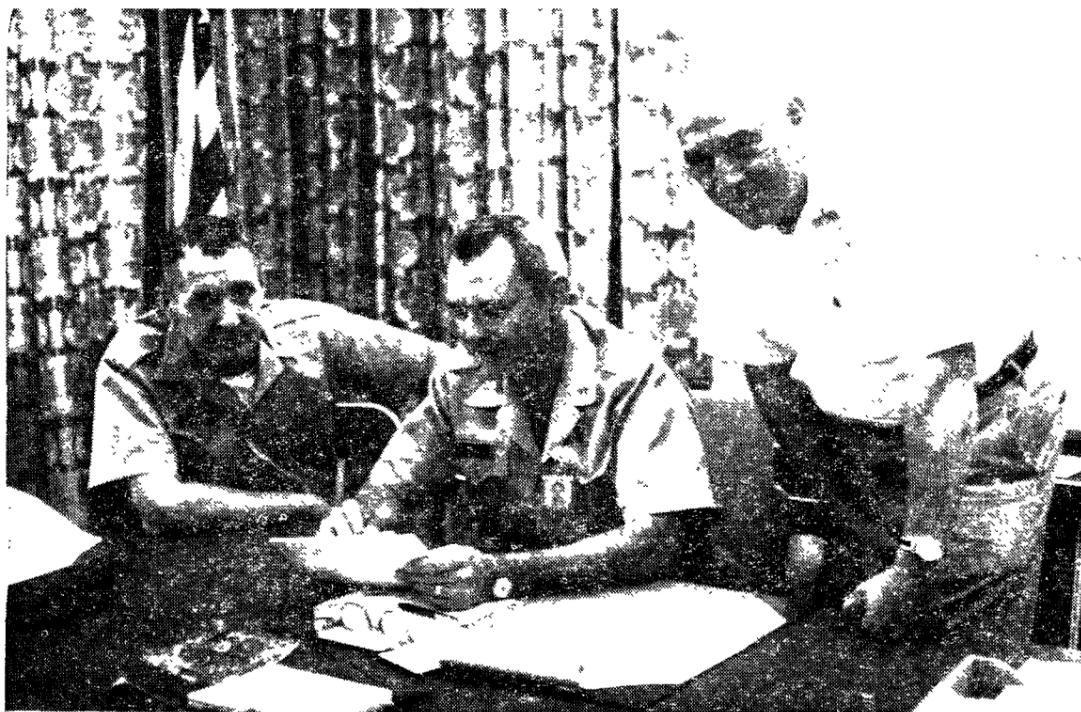
Following the War the atoll became a United Nations Trust Territory under US administration.



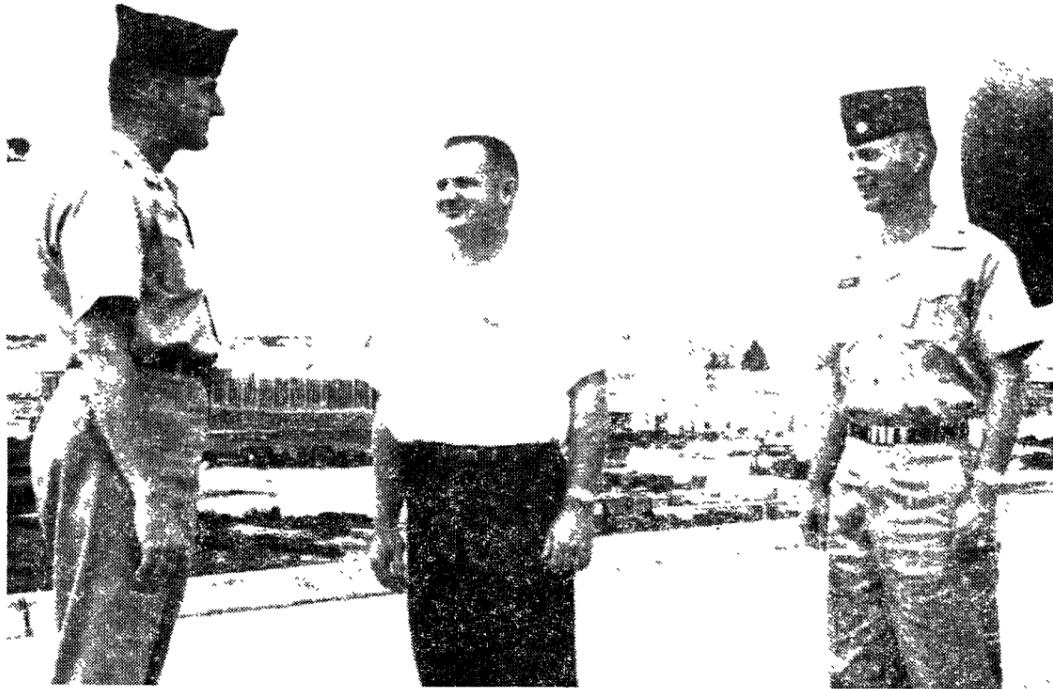
CEREMONIES—1st Lt. Kelly Hawkins, acting as adjutant, reads the orders by which Col. Glenn Crane assumes command of the Nike-X Kwajalein Test Site. Seated from left are: Capt. H. D. Allen, the outgoing Navy commander; Col. Crane and Col. I. O. Drewry, the Nike-X Project Manager.

Currently more than 2,000 Marshallese—the atoll is one of the Pacific Islands—copra trading. Copra, the dried meat of the coconut, is pressed for its oil. The oil is used extensively in the manufacture of soaps, shampoos and some foodstuffs.

Practically in the shadow of the ultra modern missile site the Marshallese still engage in one of the



KWAJALEIN TEST SITE FRONT OFFICE—Col. Glenn Crane, Commanding Officer of the Kwajalein Test Site (center), is shown with two of the top men in his organization. They are: Lt. Col Edward Detchemendy, Chief of the Engineering Service Test Group and Acting Executive Officer; and Louis Daue, Contractor Administrator.



KWAJALEIN TECHNICAL PEOPLE—Maj. J. O. Sammons (left) is Chief of the Range Operations Division, Myron Pope (center) is Technical Director, and Maj. C. F. Means is Chief of Nike-X Operations Division. The photo was taken on top of Mount Olympus, the man-made hill which is the highest point in the Marshall Island and which houses Zeus Missile launch cells.



MARSHALLESE CELEBRATE — When the Nike-X Project took over the Kwajalein Test Site the Marshallese natives on nearby Ebeye Island threw a party to bid farewell to the Navy and hello to the Army. The main course was "Kalua" pig, a delicacy prepared by filling the pig with herbs and hot stones and wrapping it in wire mesh before dropping it in a fire pit. The pig is then surrounded by breadfruit and bananas. Here Col. Glenn Crane, the Test Site Commanding Officer, fans smoke and discusses the procedure with three Marshallese cooks. The Kwajalein Atoll is part of the Marshall Islands.



KWAJALEIN SAFETY OFFICERS—Capt. A. A. Chaney, Ground Safety Officer; and Lt. Col. R. W. Zinn, Chief of Safety Office.

Who's Who On Kwajalein

The Nike-X Project's management team at the Kwajalein Test Sites includes a number of people quite familiar to Redstone Arsenal.

Col. Glenn Crane, the Commanding Officer and "mayor" of the island is far from being a stranger here. Col. Crane was Nike Zeus Project Manager at Redstone in June, 1962 when he left to attend the Industrial College of the Armed Forces.

He was assigned as Chief of the Nike-X Pacific Field Office in 1963. A veteran of more than 20 years Army service, he has served in Africa, Italy, France and Germany as well as at Fort Hood, Fort Sill, and White Sands Missile Range.

He holds a BS in electrical engineering and an MS in business administration.

His Deputy Commander for Technical Operations is Lt. Col. William Nelson who served at Redstone as Nike-X Project Executive Officer.

The Deputy Commanding Officer for Atoll Operations is Lt. Col. W. W. Crum, formerly at White Sands

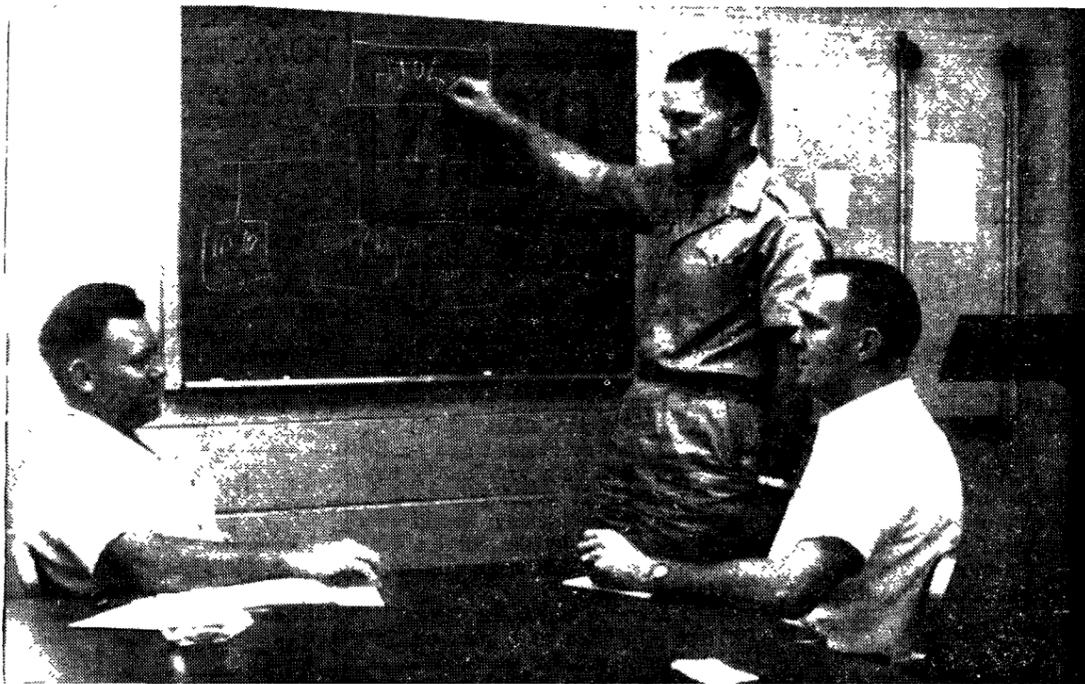
Missile Range.

Other members of the Kwajalein Test Site organization are Lt. Col. M. J. Small, Executive Officer; Louis Daue, Contract Administrator and a frequent Redstone visitor when he was Acting Chief of the Nike-X Project Manager's Staff Office in Washington; and Myron Pope, Technical Director and a former section chief in the Project Office here.

Lt. Col. Edward Detchemendy, formerly with the Directorate of Supply and Maintenance, is Acting Executive Officer and Chief of the Engineering Service Test Group.

Maj. J. O. Sammons, Chief of Range Operations Division and formerly of Aberdeen Proving Ground; Capt. G. S. Dockler, Communications Officer; Ray Plant, Interim Communications Officer now in the Project Office; Capt. L. O. Cox, Scheduling Officer formerly in the Project Office; CWO J. D. Keeling, Assistant Scheduling Officer and at one time in the Supply and Maintenance Directorate; and Fred Ballenger, Instrumentation Officer.

Maj. C. F. Means of Nike-X Op-



FORMER REDSTONE EMPLOYEES—Both Curley Kibodeaux (left) Chief of the Kwajalein Test Site Supply Division; and J. G. Lockard (right), Chief of Construction and Utilities; moved to Kwajalein from Redstone Arsenal. At the board is Lt. Col. W. W. Crum, Deputy Commanding Officer for Atoll Operations and formerly of White Sands Missile Range.

erations Division and formerly with the Pershing Project Office; Capt. William Cibosky, Data Processing Officer; Capt. R. O. Case, Target Tracking Radar and Zeus Acquisition Radar Officer who was with the Directorate of Research and Development Advanced Systems Laboratory; B. G. Pope, Discrimination Radar Officer; Charles D. Smith, Discrimination Radar Officer; and Lee Webster, Infrared and Optics Officer, formerly in the Nike-X Project Office here.

Lt. Col. R. W. Zinn, Chief of Safety Office; Capt. J. J. Osborne, Flight Safety Officer; W. E. Savage, Assistant Flight Safety Officer and formerly with the Project Office; Capt. A. A. Chaney, Ground Safety Officer; 1st Lt. Kelly F. Hawkins, Assistant Ground Safety Officer; 2nd Lt. D. W. Oliver, Assistant Ground Safety Officer; and S/Sgt. M. L. Allsup, cryptographic maintenance.

Maj. Melvin Thayer, Intelligence and Security Officer; Capt. Robert Baker, Administration Officer; J. G. Lockard, Chief of Construction

and Utilities and formerly with the Project Office; A. Centrella, Chief of Transportation; and W. H. Ballard, Chief of Aviation and for-



MAJ. MELVIN THAYER—Kwajalein Test Site Intelligence and Security Officer.

merly Chief of the Redstone Aviation Branch.

Ozzie Reamer, Chief of Vehicles and Marine; C. J. Kibodeaux, Chief of the Supply Division and formerly with the Directorate of Supply and Maintenance; Frank Robinson, Chief of Base Supply; and A. C. Chance, Chief of Retail Outlets and formerly with the Directorate of S&M.

G. O. Baten, Chief of Professional and Community Services; and Capt. M. C. Winebarger, Project PRESS Technical Liaison Officer.

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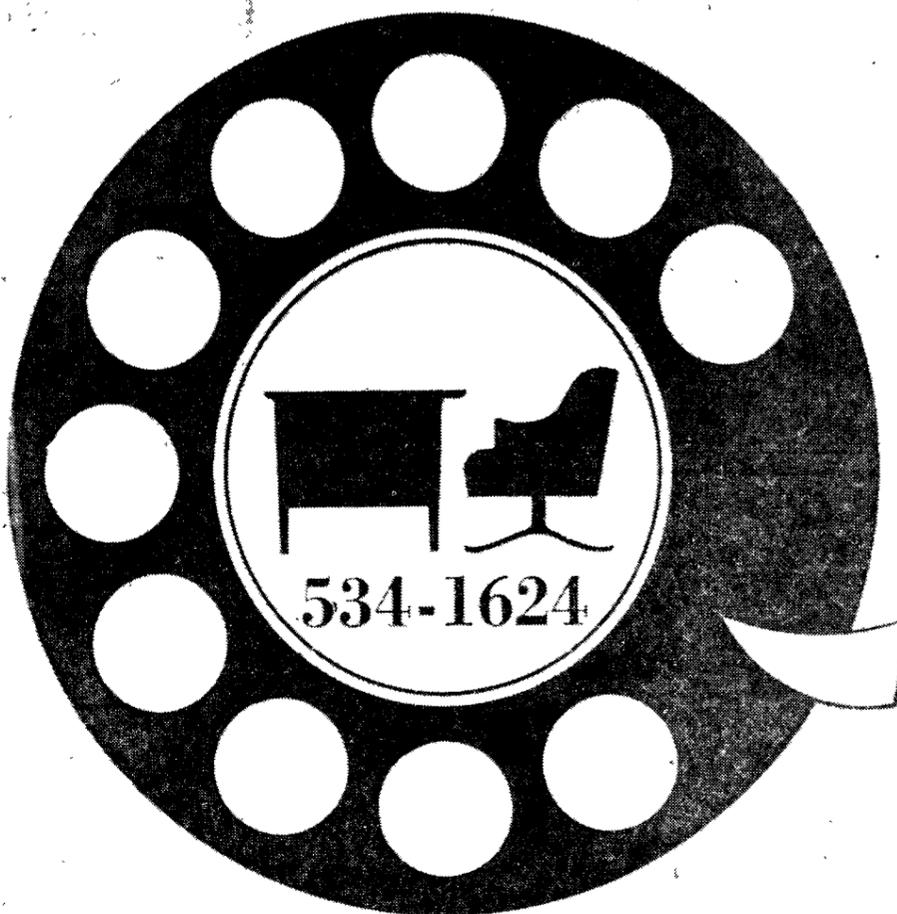
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SOCIAL ^{and} CLUB EVENTS

Dental Group Meets At Club

Huntsville-Madison County Dental Association and the Dental Service of Redstone Arsenal met at the Squirrel Hill Officer's Club Monday evening with Dr. Gaines Stubbins of Birmingham to discuss prevention of dental disease by proper restoration of occlusion (or how teeth come together).

Dr. Stubbins, an expert on rehabilitation of teeth to give the most functional bite in natural teeth, viewed models and dental X-rays of patients being treated at the Redstone Dental Clinic. After discussions among the dentists, a treatment plan was established which would promote the general health of the individual.

It has long been recognized that how natural teeth come together in chewing, swallowing, or tension grinding, has a great bearing on position and retention of teeth. Since each person is different, it is difficult to establish any rules or treatment.

The seminar with Dr. Stubbins showed the degree of difference in the cases presented. Each treatment plan agreed upon has different approaches and methods. All plans are aimed at saving existing supporting bone and teeth.

ENGINEERS TO DINE, DANCE

The North Alabama Chapter of the American Institute of Industrial Engineers will hold a dinner dance at the Squirrel Hill Officers Club Saturday night.

A social hour begins at 7 p.m. with dinner at eight and dancing at nine.

At The Service Club

By: Brenda Hanson

I hope you had an enjoyable holiday on the 4th of July. It seems that everyone I saw on the Fourth was in a very happy holiday mood. If you'd like to hold on to your holiday mood for awhile, come by the Service Club one evening this week and enjoy the programs.

The first event is the Chess Contest scheduled at 8 p.m. on July 8. Prizes will be awarded to the winner.

Thursday, it's time for Bridge. The weekly meeting of the Bridge Club will be at 7:30 p.m. If you are interested in learning to play, instructions will be given. For more information call 876-4531.

Friday we go out-of-doors. A badminton contest is scheduled for 5 p.m. After the contest, we will have refreshments.

Saturday we begin the day with a pot of coffee and plate of cookies. As the day progresses, we venture to the lounge for "Name That Tune," a musical quiz. Betty will play the tune, and the first to identify it wins the prize. In addition to the other prizes, we have a mystery tune. The identifier wins a wallet.

Sunday at 9 a.m. marks "Coffee Call." Come to the Service Club for a hot cup of coffee and a donut to get the day off to a bearable start. The featured attraction is the Record Dance at 8 p.m. The theme for the evening is "Tops in Pops." Art Hertter will spin the records for you. Come and enjoy it with us.

Monday 8 p.m. game night begins. We have a beautiful array of prizes just for that lucky someone who yeps that lucky word. The

ENGINEERS MEET TOMORROW NIGHT

The Northeast Alabama Chapter of the Alabama Society of Professional Engineers will meet tomorrow at the HIC cafeteria at 6:30 p.m. followed by dinner at 7:30 p.m.

Guest speaker will be Dr. William M. Murray, Jr., President of Southern Research Institute in Birmingham. Dr. Murray received his Ph.D. in analytical chemistry from Princeton University.

All members and their guests are urged to attend by the membership chairman.

game prize is a transistor radio. It's free—why not join us!

That's all for this week, but keep your eye on this column for a preview of coming events.

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Spanish Army Officer Visits

Lt. Gen. Rafael Maria Cavanillas, chief of the Central General Staff of the Spanish Army, will visit the Army Ordnance Guided Missile School Friday to talk with officers and students of the Spanish Army who are here studying the Hawk air defense missile system.

Gen. Cavanillas is visiting the Missile School as part of a tour

of military bases in the United States.

He will be met by Maj. Gen. John G. Zierdt, commander of the Army Missile Command at Redstone, and a full military honor guard. Gen. Cavanillas is the equivalent to the U. S. Army Chief of Staff.

Gen. Cavanillas has served in the Spanish Army since 1921. He attended the Staff College for the Spanish Army and served with the Nationalists during the Spanish Civil War. He was named chief of the Central General Staff in 1963.

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Strike General Recommends 'Take Initiative'

"The element of time in war gives the initiative to him who understandingly assumes the initiative."

This philosophy of the U. S. Strike Command, the nation's newest unified military organization, was outlined June 30 by its Commander-in-Chief before the annual dinner meeting of the Tennessee Valley Chapter of the Association of the U. S. Army.

Speaking before about 500 members and guests, Gen. Paul D. Adams said that his Strike Command stands ready at a moment's notice "to quickly form powerful combinations of Army and Air Force units into joint task forces and move them rapidly to any point where our services are needed."

"Our ability to do this at this time is extensive," he said, pointing out that more than 200,000 troops are available to Strike Command plus the means of transport which can permit him to cover every possible military need at any point within his assigned responsibilities.

Gen. Adams, a native of Heflin, Ala., was introduced by Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command. The meeting was held in

the ballroom of the Squirrel Hill Officers Club.

Before he began discussing the composition and missions of the Strike Command, Gen. Adams referred to Huntsville as a concentration of brainpower which provides the growth and prosperity to make the city one of the most important in the South.

In outlining the scope of his mission, Gen. Adams pointed out that his duties were expanded the past year to include responsibility for all U. S. military activities in Africa south of the Sahara, the Middle East and South Asia.

"This geographic area provides the U. S. with some of its greatest opportunities and, at the same time, poses some of its gravest challenges," he said.

"Deep and long-standing racial, political and religious differences, the problems of the newly emerging nations and Communist subversion and agitation all tend to perpetuate tensions and instability."

Solution of this multitude of problems is not an overnight prospect, he said, but could take upwards of a century.

Responsibility of the Strike Command lies not only in the military

field but also in U. S. Military assistance programs in those assigned areas. Gen. Adams emphasized, however, that while providing assistance, the U. S. is not attempting to pressure those countries into building a replica of the type forces maintained by this nation.

"We are attempting to encourage the nations we assist to develop military forces tailored to their particular needs and capabilities," he said.

Having just returned from a two year tour in Africa and Saudi Arabia, Gen. Adams said his observations and talks with senior officials there convince him that U. S. programs are basically sound.

"However, in view of constantly changing conditions in many of these countries, we must constantly evaluate new developments so that we can modify our programs so as to best support U. S. interests in this important area," he concluded.

Following Gen. Adams' speech, new officers and directors were installed for the Tennessee Valley Chapter.

Maj. Gen. John A. Barclay (Ret.), former deputy commanding general of the Army Ordnance Missile Command and now manager of the Northrop Space Laboratories'

Huntsville operations, took over the presidency from John E. Hatch, Jr., president of Spaco, Inc.

In addition to Gen. Barclay, other officers installed were J. A. Muller of the Missile Command and William Weisinger of Chrysler Corp., vice presidents; Harris Mitchell, Huntsville-Madison County Civil Defense director, secre-

tary-treasurer.

In turning over the chapter presidency to Gen. Barclay, Hatch pointed out that the recently concluded membership drive had resulted in a chapter growth to about 4,000, an increase over the 1,200 members during the past year. Present membership now makes the local chapter one of the largest within the AUSA.

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Foreign Military Leaders Visit

Two high ranking foreign military leaders visited the Ordnance Guided Missile School last week to meet troops from their countries and examine training facilities.

Lt. Col. Per Thorsen, air attache from the Danish Embassy in Washington met Danish officers and students training on the Hawk air defense missile system.

Maj. Arieh Gur of the Israeli Air Force visited Israeli troops, also training on the Hawk. He is the Defense Forces Liaison Officer at Fort Bliss, Texas.

Movie Schedule

WEDNESDAY, JULY 8
"Master Spy" (F)
THURSDAY-FRIDAY, JULY 9-10
"Honeymoon Hotel" (M)
SATURDAY, JULY 11
"The Brave One" (F)
SUNDAY-MONDAY, JULY 12-13
"Bedtime Story" (M)
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Headquarters Support Command Girls Beat Finance To Keep Lead In League

By Jay Silverman

Headquarters, AMSC, added a full game to its lead in the Girls' Civilian Softball League last Tuesday night by ousting their closest challengers, Finance and Accounting, by a score of 15-12.

Both teams played well in this hotly-contested ballgame between unbeaten Headquarters and once beaten F&A. F&A was especially up for this game, for Headquarters' lassies were the only team to beat them this year, and the F&A females were out to reverse the decision.

F&A, the visiting team, led off in the first inning, and wasted no time in opening the night's scoring. Delores Bolton got on via an error, but was retired at second as Reba Nugent grounded into a force play. Robbie Barnett followed with a clout that looked like a sure home run, but Kathie Leeth, the fleet centerfielder for Headquarters, and who has been out for a couple of weeks with injuries, was off at the crack of the bat, and caught up with the long drive in right center field, making a spectacular over-the-shoulder grab of the ball. Glenda Kidd followed this long out with a double, knocking in Miss Nugent, then scored a moment later as Betty Witesant lashed out an RBI single. That was the extent of the F&A scoring in the first, and they led 2-0.

Gene Ventress and Marie Sexton led off the AMSC first with singles, and both runners moved up a base as Joyce Jones rapped into a fielder's choice. Then Kathie Leeth stepped to the plate and put an end to any worries about her recovery, as she rifled a shot to deep center and came all the way around on her fifth homer of the year, scoring Ventress and Sexton ahead of her. At the end of one, the score stood Headquarters 3, F&A 2.

F&A came right back to regain the lead in the second inning. Nelta Bowman led off with a double and Cathy Schall followed with a single scoring Nelta. Dene Boles rapped into a fielder's choice, but all hands were safe. Dee Bolton followed with a single driving in Cathy Schall. Reba Nugent rapped into a force play, as Bolton went out at second, and leaving runners at first and third. Robbie Barnett cracked a single, knocking in a run, and Glenda Kidd followed this with another run-scoring hit to give F&A four runs and a 6-3 lead.

Fran Foster set F&A down in the third with only one hit, and Headquarters scored twice in their half of the third, as Sexton had another RBI single. Score at the end of three, F&A 6, Headquarters 11.

Headquarters was not to remain in the lead long, however, as F&A exploded in the fourth. Dene Boles led off with a single. This was followed by a walk and two more singles, scoring two runs. Then after a fly out, three more singles fell off the exploding bats of F&A, and when the smoke cleared, they had a one run lead, 12-11.

F&A came up for their last raps in the top of the seventh, facing Fearless Fran Foster. "Fearless Fran" once again showed how tough she is in the clutch as she retired the side 1-2-3, and Headquarters had won a hard-fought, well-deserved victory, 15-12.

Leading players for F&A were Cathy Schall with three singles. Glenda Kidd with a double and a single and Robbie Barnett, Betty Witesant, and Dene Boles with two hits each. Marie Sexton had a perfect night at the plate for Headquarters as she whacked a double and two singles, besides getting a walk. Kathie Leeth played a great defensive game in center, catching two balls that appeared to be certain hits, and her two hits, one a home run, were of no small consequence. Claudelle Griggs had two hits for Headquarters.

Headquarters now has a 7-0 record, while second place F&A now has a 5-2 log.

Silverman's Scriblings

Coach Ed Maneely of CSD sounds like he's managing the old Brooklyn Dodgers . . . "Wait 'til next week," he says . . . The Headquarters team looks like they've found the groove again . . . bad news for the rest of the league . . . sorry, Robbie . . . Comments on the proposed All-Star game, addressed to me at the Army Education Center, Bldg. 3482, would be greatly appreciated . . . Haven't A. Naron and his Civilian Welfare Fund Council done right well by all the softball players—both men and women . . . "Tho I haven't got

Four Teams Play In Redstone Girls Softball League

By Jay Silverman

The traditional cry of "kill the umpire" has a strange ring to it this year here at Redstone. The reason? Well, it's not a low pitched roar that you are used to hearing, but a high-pitched, ear-splitting squeal being emitted from the lips of one of the participants of the Arsenal's fastest growing sport, women's softball.

The Civilian Welfare Fund Council, Abner McNaron, chairman, is the guiding force behind this league, and Delbert Williams, who serves as president of the mens' softball league, also serves as prexy of the distaff league.

There are four teams in the league: Consolidated Supply Division, coached by Ed Maneely; Finance and Accounting, coached by Billy Joe Lowery; Headquarters, AMSC, coached by Jim Robinson and Dan Gruber; and Procurement and production, coached by Charles Snead.

Play in this league is always worth watching, and, if you enjoy a good softball game, enhanced by pretty girls and, at times, hilarious situations, come out and root for the team of your choice.

Games in the Civilian Girls' Softball League start at 5:15 every Tuesday night on the softball fields off Patton Road near the Provost Marshal's office.

So, get out of the traffic rush and get in some great entertainment. Go to the girls' softball game.

the statistics at hand, seems to me that Frances Bogue, slugging star of P&P, must be hitting at close to .700 . . . CSD has a sister act—the Blackwell sisters, and there are not just two, but three . . . Seems that someone could do a lot better job for the girls as far as getting sanctioned umpires is concerned . . . Oh, yeah, Miss RR says CSD WILL WIN—even if she has to get out there and play . . . how 'bout that for spirit?

The Civilian Girls' Softball League will play this week's games tonight, July 8, instead of on their regular Tuesday night. On tap are games between league-leading Headquarters, AMSC and upset-minded Consolidated Supply Division, and also a fray between Finance & Accounting and Procurement Production, a game that promises to be a real barnburner.

Now—you know about them in advance, so, come on, get out to the game tonight and root your division team home. Both games start at 5:15. See you there.

Company B Softball Players Continue Their Win Streak

Just like old man river, B Company just keeps rolling along in the Redstone Arsenal Softball League.

With their activity restricted to one game last week the B Company hitters did enough hitting in that one game to make up for two or three as they swarmed all over Hq, MICOM to take a 16-4 win. Chuck Gunn had an easy time in chalking up the win over Jim Spaulding.

In a battle for the runner up slot the 184th Ordnance had too much for the Officers and marched to a 10-2 conquest. Bill Huber was the whole show for the Ordnancemen as he set the Officers down on a two-hit ration.

The Military Police continued their remarkable recovery, although they probably started a little late, when they used the big inning in turning in a 12-6 win

over the Medical Detachment.

The Medics lost it right away quick in the opening round when the MPs sent nine big runs across the plate and then staved off every Medic threat to grab the win. Jim Moore opened the big inning with a home run over the left field fence.

In the only other game on the abbreviated schedule C Company edged ahead of A Company in the loop standings when they captured a hard fought 5-3 win over A Company.

Singles by Gerhardt Eggmeyer and Jim Rooney together with a double by Ed Logan sent two runs home in the bottom of the fourth and provided the winning margin for C Company. Dave Rosado hit the only circuit clout of the encounter with a drive over the distant center field fence.

SMALLBORE MEN STILL AIM AT BRINGING HOME TROPHY

The Redstone small-bore rifle team will attempt to add to their mounting array of trophies and awards this weekend when they travel to Manassas, Virginia, to compete in the Mid-Atlantic Position Regional Meet.

Last week the eight-man team of sharpshooters went to Chattanooga to fire in the 1964 Regional Smallbore Prone Championships and came home with 25 individual

first place awards plus five second place awards.

SSGT Keith Robson and SP4 Jim Rooney were the big winners in the latest assault by the Redstone shooters while WO Irv Tarbox, SP6 Jim Maloney and SP4 Don Paquete each had a share in the array of trophies won by the locals.

Making his final appearance in the Sharpshooter Class, Robson took nine first place awards. His great showing in this meet led to his being reclassified as an Expert.

Rooney captured seven first place awards in the Marksman class, Tarbox took five first and a second shooting in the Expert class, Maloney had three first as a Sharpshooter and Paquete took a first and a second in the Marksman Class.

SP7 Ray Waldon also earned a promotion despite the fact that he was only able to come home with three second place awards in his final meet as a Marksman. In future matches Waldron will be shooting as a Sharpshooter.

Military Police Baseball Team Has Perfect Score

Closing the regular season of play in the Redstone baseball league in perfect form, the 291st Military Police Company made it nine wins without a loss by overwhelming Headquarters, STC in the final game, 18-0.

The MPs had little trouble in the finale with Gary Perkins and Mike Stuart collaborating for a no-hit performance.

After being set down in the first inning, the champs went to work in the second and scored a trio of runs. They added eleven more in the third and completed the parade with four in the fourth.

Mel Anderson the MP shortstop carried the big bat collecting three straight hits to boost his seasonal average to an even .500.

The hard-hitting shortstop also turned in a running catch to rob the STC team of their only real chance for a hit. He raced into short center to grab a popper off the bat of Dick Merrell, the losing STC moundsman.

Final Standings		
Team	Won	Lost
A Company, STC	5	4
Hqs. STC	3	6
32nd Ordnance	1	8

GINNA MEDARIS TOURNEY OPENS TODAY AT ARSENAL

The Ginna Medaris Golf Tournament begins today for members of the Golf Group of the Redstone Arsenal Officers Wives Club and will continue through July 24 on the Arsenal course.

Rules governing the tournament are posted in the golf house. All entries must be in by July 15.

The winner of 54 holes of individual play will be awarded a trophy and have her name engraved on the perpetual trophy cup.

The tournament is open to members of the Wives Club Golf Group.

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Procurement And Production Trounce Consolidated Supply In Softball Game

Procurement & Production gave a none-too-gracious welcome to the Consolidated Supply Division girls' softball team when they made their first appearance of the season last Tuesday, as P&P came off the field with a 16-4 victory.

In a game that went only five innings, and was played, by mutual consent of both managers, with versus the normal ten, P&P scored in each inning, while CSD had to settle for four widely scattered runs.

Frances Bogue again was the big gun in the P&P attack, rapping three hits, two of them home runs. Neal and Daley both had perfect

nights at the plate for P&P, with each belting two hits and drawing a walk.

P&P continued to show improvement, as they had in each of their two previous outings, and before

the end of the season, it appears that they will pull an upset or two. CSD fought gamely in the first appearance on the diamond, and, at times, displayed signs of being capable of turning into a good ball team, able to beat any team in the league on any given night. Leading their offensive was Mary Smith,

who had two hits. She also made a sparkling defensive move when she made a brilliant stab of a liner down the first base line that had hit labelled all over it. Doris Morris, Harriet Askew, and Judy Sims also had hits for CSD, while Judy Blackwell made two fine catches in left field.

Redstone Rockets Start Season Late

The Redstone Rockets baseball team was late in getting started on their season play but hope to make up for lost time during the next few weeks in preparation for the Third Army tournament.

The Post nine will open a tentative ten game slate tonight when they play host to the Huntsville Merchants for a 7 o'clock game at Linton Field.

On Friday evening a team from Arab will be here for another game at the same time and next Tuesday the Rockets will meet the Huntsville Mets, also at Linton Field.

Four of the games will be against Ft. McPherson with the Georgians coming to Redstone for games on the 24 and 25 of July. The Rockets will travel to Atlanta for a pair of games on the first and second of August.

4-WAY TIE ENDS SPRING RINGER

The first flight of the Spring Ringer Tournament sponsored by the Golf Group of the Redstone Arsenal Officers Wives Club ended June 30 in a four-way tie with Mrs. William Wachslar, Mrs. Charles Payne, Mrs. W. D. Lewis and Mrs. Frank Napper scoring even.

The second flight was won by Mrs. R. W. Mundy with Mrs. Gene Budd in second place.

In the third flight Mrs. Stanley Tyler and Mrs. Lloyd Deppensmith tied for first place with Mrs. Paul McDermott in second place. Mrs. Tyler also was scored as the most improved golfer.

TWO JUNIOR GOLF TEAMS TIE FIRST

Junior Golfers staged a dog-fight last week with two teams tied for first place.

Team number one included Dick Sullivan, Ward Mundy, Dave Pearce and Candy Zierdt. Scoring the same were Chuck Graham, Lee Carlson, Pat Sullivan and Stewart Maciver.

The Junior Golfers, sponsored by the Golf Group of the Redstone Arsenal Officers Wives Club, meet on the Arsenal course on Tuesday mornings. Mrs. E. O. Senter heads the group.

Mrs. Wachslar Wins Two Places In Golf Tourney

Playing for the most fours, fives and sevens, Mrs. William Wachslar and Mrs. Lella Mullines tied for the most fours during competition of the Golf Group sponsored by the Redstone Arsenal Officers Wives Club last week.

Mrs. Wachslar also had the most fives. Mrs. Gary Lovell ended the day's play with the most sevens.

July 9, 1945—White Sands Missile Range, the birthplace of the U. S. nuclear arms and the missiles that carry them, and an AMC installation, established.

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Cancer Director Sends Thanks Here For Mice Research With Army Laser

U. S. Army Missile Command support of a successful cancer research project has been recognized by a letter of appreciation from the Director of the National Cancer Institute.

Kenneth M. Endicott, Director of the Institute, in a letter to Maj. Gen. John G. Zierdt, Commanding General of the Missile Command, expressed his thanks for support given his organization by the Applied Physics Branch of the Command's Electromagnetic Laboratory.

Earlier this year, it was revealed that Missile Command engineers engaged in laser research had assisted Cancer Institute surgical investigators in successfully killing malignant tumors (cancer) in mice during experiments conducted with Army lasers.

In his letter, Endicott told Gen. Zierdt that as a result of Army support, his investigators, Dr. John P. Minton and Dr. Alfred Ketcham, have been able to obtain valuable information concerning the effect of neodymium laser radiation on malignant and normal tissues in experimental studies with living animals.

Missile Command engineers assisting the two medical investigators were William B. McKnight, Chief of the Applied Physics

Branch, William Davis, Jr., Chief of Special Programs, and James R. Dearman, Laser Project Engineer.

According to Endicott, research results indicate "the potential biological information to be obtained from experiments with laser radiation appear to be even greater than anticipated.

"We are fortunate to have on our respective staffs Mr. Dearman, Dr. Minton and Dr. Ketcham who, through their close cooperation, have spearheaded these studies and have obtained information which allows a much better understanding of the basic effect and mechanisms involved in tissue destruction relative to laser radiation," the Institute Director told Gen. Zierdt.

"I wish to thank you for your continued interest in this project and for your generous offer to assist us further in our program of laser radiation investigation," he concluded.

At the time of the original test announcement Gen. Zierdt said:

"The Army spends its research and development money to improve its ability to fight. All of us earnestly hope, however, that some of the discoveries this money underwrites will produce benefits in other forms for the taxpayers who pick up the bills. This type of research is one that all of us in the Missile Command are proud to as-

sist in any way we can."

The experiments to which Gen. Zierdt and Endicott referred were aimed at evaluating laser energy as a possible surgical tool in the treatment of cancer. On March 25, 1964, it was confirmed that certain tumors had been destroyed in laboratory animals by pulses of infrared laser radiation, using Army Missile Command lasers. Dr. Minton said at that time that it was premature to meet any correlation between his experiments and the potential treatment of cancer in humans until further study has been accomplished.

During that series of tests, Dr. Minton had successfully killed cancer in mice. Several hundred tests had been completed. Many of the tumors are literally destroyed when exposed to a sudden burst of infrared laser radiation which is fired in time intervals measured in thousandths of a second by the Army laser.

The device used in the tests are designed and developed in the Applied Physics Branch of the Missile Command's Electromagnetics Laboratory headed by McKnight. The device uses as the laser element a glass containing a percentage of neodymium, a rare earth element. The glass was developed for the Missile Command under contract by the American Optical Company of Southbridge, Mass. Davis directed the contract and Dearman is project engineer for

experiments carried out with the laser and for support furnished to Dr. Minton.

Army researchers are testing their laser at the Arnold Engineering Development Center, Arnold Air Force Base, Tenn., utiliz-

ing electric power sources already installed there for other government research programs. Army use of these facilities for laser research is the first known adaptation of this type power source for laser work.

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NON-FICTION

- Barr, Stephen, "Experiments In Topology."
Carlisle, Olga (Andreyev), "Voices in the Snow."
Farb, Peter, "Face of North America."
Kirkley, George, "Weight Lifting and Weight Training."
Molnar, Thomas Steven, "The Two Faces of American Foreign Policy."
Moore, Harmon D., "And our Defense is Sure."
Pozerski, Edouard Alexandre, "Cooking With Pomiane."
Ratner, Leonard G., "Harmony: Structure and Style."
Sunderman, James F. ed., "Air Escape and Evasion."
Tregrove, Alan, ed., "How to Play Tennis the Professional Way."

FICTION

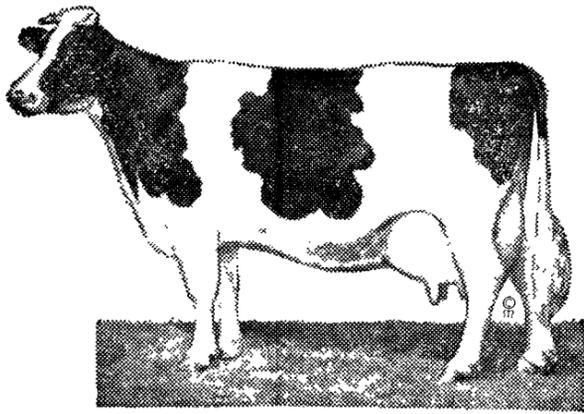
- Broun, Daniel, "From 9 O'Clock to Jamaica Bay."
Capps, Benjamin, "The Trail to Ogallala."
Dembo, Samuel, "Kalahari Kill."
Droun, Maurice, "The Memoirs of Zeus."
Faasen, Neal, "The Toyfair."
Gardner, Erle Stanley, "The Case of the Phantom Fortune."
Garve, Andrew, "Frame-Up."
Gerson, Noel B., "Old Hickory."
Harvester, Simon, "The Flying Horse."
Lindall, Edward, "A Kind of Justice."

June 15, 1775—Continental Congress appointed George Washington Commander-in-Chief of Continental Army.



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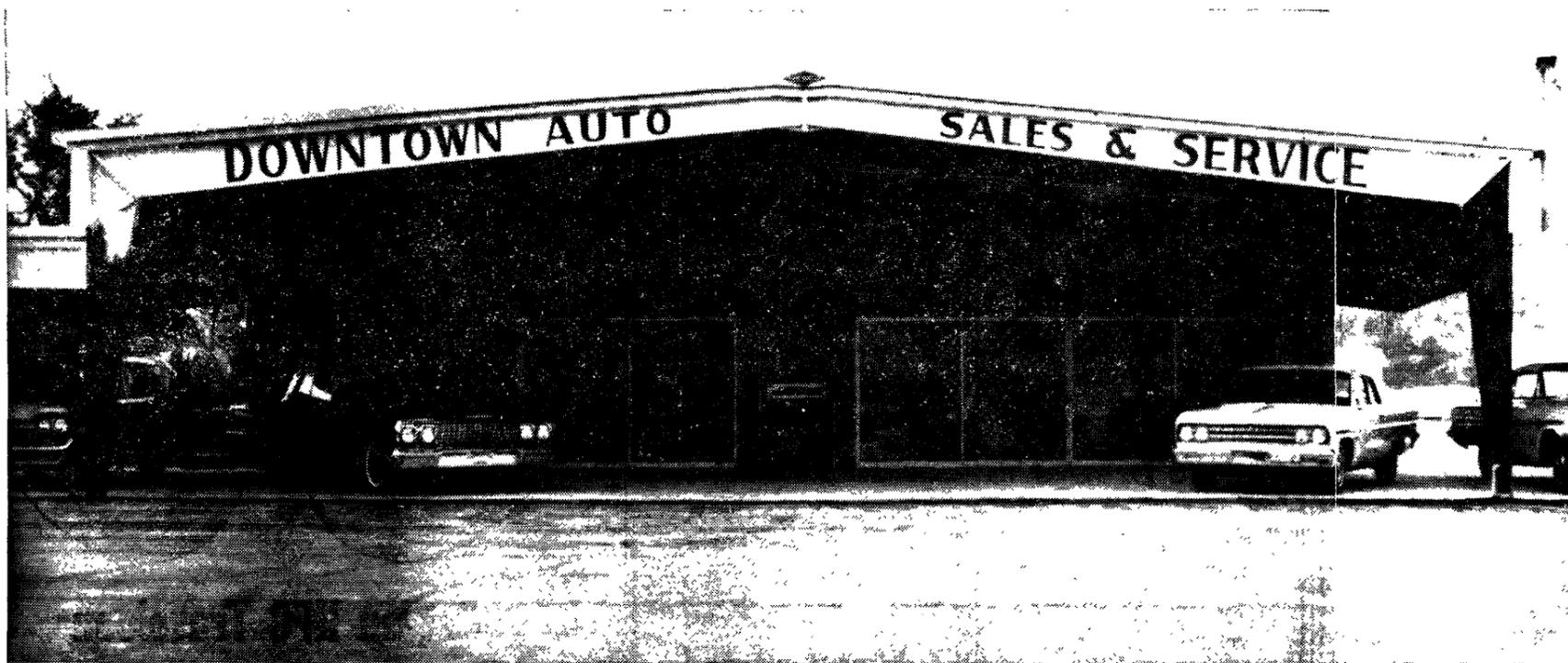
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Page 14 The Redstone Rocket — July 8, 1964

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WANTED — Students we have openings for 5 students at Nitas and Daves Beauty College. Tuition can be financed. Earn top wages, be a professional trained by trophy winner Nita Hetherington. Call Nita & Dave's Beauty College, 539-2461 or come by Governors Drive across from Butler High School. tfc

FOR SALE—Newly reupholstered couch and chair, like new condition. Phone 539-0382. tnc

MODERN HEALTH CLUB SERVICES—Central Y.M.C.A., 203 South Greene St. is offering massages, turkish baths, electric heat, cabinets, ultra-violet and Infra-red lamps, diathermy sun lamp, swimming pool. Graduate masseur in charge. Phone 534-2444. tnc

FOR THE BEST PRICES, come to Anderson Boat and Motor Sales in Cullman. Closing out some 63 model motors at a bargain. Mercury outboard motors and 14 different lines of boats to choose from. We are open on Sunday afternoon and night by appointment. Call 734-1354. Anderson Boat and Motor Sales, 31 Highway North, Cullman, Ala. tfc

NEW SHIPMENT of name brand shoes. \$14.98 heels — \$5.98; \$2.98 flats — \$1.49. Terry Heights Shoe Store, 2413 Holmes Ave., U.W. Next to Terry Heights Grocery, Mr. & Mrs. E. H. Patterson owners. 7-15p

NEW UHF CONVERTERS \$11.97

North Alabama's largest sales and service dealer for Zenith, RCA and Motorola TV and Stereo. Our prices are equal to or lower than advertised so called "discount or wholesale" prices. Price, then compare. Our merchandise is visually priced tagged at all times. We accept trade-ins. Used TVs sold for \$20 and up. We service all makes and models. Picture tubes, 21 in. 90 degrees, \$21.00 exchange with 1 year guarantee. TV rentals by day, week or month. tnc

CENTRAL TV & STEREO CO.
Cor. Governors Drive & Parkway
Phone 536-9761

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4. Mobile Homes

FOR SALE BY OWNER—1963 Champion Trailer, 2 bedroom, 50x10'. Purchase equity for \$650.00 and assume monthly payments of \$64.00. Phone 539-5652 from 8 a.m. to 4 p.m. 7-8c

5. Houses, Lots - Sale

5 TRACTS OF LAND FOR SALE—5 to 40 acres. Near Ryan High School. Call 586-3343 after 4 p.m., Arab, Ala. W. A. (Bill) CRAWFORD. 7-9c

SALE GUNTERSVILLE LAKE—Will sacrifice for cash, large, level, wooded lot in Gunterville Lake subdivision. \$650.00. Call Boone Realty Co. 582-4311—582-3653. 7-15c

FOR LOTS, ACREAGE, HOMES, BUSINESS Opportunities and full information on Florida properties write Mamie P. Smith, "Reg Broker," 140 N.W. 1st Ave., Homestead, Florida. tfc

FOR SALE—Three lots across from Whitesburg boat harbor. Owner on lots Sunday, July 12, 2-5 p.m. E H FLACK, Somerville Route 2. Phone 498-2518. ttp

LOTS—1 acre, restricted, 13 miles to building 4488 by gate 7, located 10 miles from Memorial Parkway on 72 Highway W. Phone 539-8039. tnc

FOR SALE—Two three bedroom houses that's ready to move in now. Two split levels that will be ready in less than a month. If you want a good house at a good price and on easy terms see me Jesse Black, Arab, Alabama. Phone 586-4515. 7-8c

SHHHHH
207 Bob Wallace Ave. at Parkway
PHONE 539-5741

FOR SALE
Beautiful Brick 7-Room Home in choice residential area, 7 Oak Lane, Hartselle, Ala.
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THREE-BEDROOM HOME for quick sale. Located in Meadow Wood Subdivision, Gunterville, Ala. Call 582-5102 or 582-4197. 7-8p

FOR SALE—Very nice lake lot on Whittaker Lake, 100'x175', spring water piped in, 8 year old pine trees, \$3,000.00. Call 831-2052 after 5 p.m. 7-8c

MONT DALE—3 bedroom brick, 2 baths, separate dining room, carport, air conditioned, near school. 1509 Elmwood Dr., S.E. 536-2258, \$19,900. \$1,800 down FHA. ttp

FOR SALE—41 acres, located 35 miles south of Huntsville, practically new 3 bedroom dwelling with all modern conveniences. Good tenant dwelling with bath, 9 acre cotton allotment, price \$12,700. 100% loan to G.I.

20 ACRES located 15 miles east of Cullman, 35 miles south of Huntsville, 1/2 mile south of Hulaco, 6 room dwelling with bath, 2 jalousie porches, triple carport with workshop, 2 large block chicken houses, block barn, all land fenced and in permanent pasture, fish pond, 3 wells. A real country estate. Owner will finance. Price \$38,500.00. E. G. WILLIAMSON, Real Estate Broker, Phone 734-6294, Cullman, Alabama, P. O. Box 41. tnc

FOR RENT OR SALE — 3 bedroom partial brick house in Arab, built-ins, very reasonable. Call 876-1308 or 539-7686 after 5:00. ttp

FOR SALE
Restricted ROLLING HILLS southeast of Decatur on Highway 67, a few miles drive from Arsenal.
New, large colonial brick 4-bedroom, 2 full ceramic tile baths, built-in kitchen, paneled den, antique fireplace, double garage and 1 1/4 acres wooded lot. Open for inspection. Call collect 353-9300 for appointment. Priced \$28,500.
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\$500	\$24.73	\$46.81	
700	34.30	64.92	
1000	\$40.05	48.76	92.30
1500	59.80	72.80	137.80
2000	78.96	96.13	181.96

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FOR SALE—Brick house, Arab, Alabama, Partially wooded corner lot 150x175 feet, 2160 sq. ft. living area, 3 bedrooms, built-in range and oven, central heat and air conditioning, sewing room, large pantry, dining room, sunken living rm., large den, 6 walk-in closets, 2 baths, fire place, enclosed garage (2 car), can be financed, can be seen by appointment. Phone Arab 586-2725 or 586-3385 or Summiton, Alabama 648-2791 or 648-6658, Paul or Marie Stone. 7-8p

LARGE LOT on private, 52 acre, fishing lake. 23 miles from Huntsville. Call 876-3889. ttp

3 BEDROOM PermaStone on 1 acre lot, 1 1/2 baths, full basement, 13 miles to Bldg. 4488 by gate 7, located 10 miles from Memorial Parkway on 72 Highway West, phone 539-8039. tnc

FOR SALE—Brick house, Arab, Alabama, Partially wooded corner lot 150x175 feet, 2160 sq. ft. living area, 3 bedrooms, built-in range and oven, central heat and air conditioning, sewing room, large pantry, dining room, sunken living rm., large den, 6 walk-in closets, 2 baths, fire place, enclosed garage (2 car), can be financed, can be seen by appointment. Phone Lloyd Scott, Arab 586-2775 or 586-3385 or Summiton, Alabama 648-2791 or 648-6658, Paul or Marie Stone. 7-8p

SALE: GUNTERSVILLE LAKE HOMES — Large wooded grounds, brick or frame, 3 or 4 bedrooms. In Country Club section, Yacht Club section, Buck Island section. Large lake frontage. Scenery you will never tire of admiring. Privacy you will never cease to enjoy. From \$7200. to \$29,000. Excellent terms. BOONE REALTY CO. 582-4311, 582-3653. 7-15c

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Japanese Students Touring U. S. A.

Bound for a whirl-wind tour of the United States, two Hawk Support units of Japan left the Ordnance Guided Missile School late Monday. Assuring 65 students of the first Japanese graduating Hawk units that they have "left an excellent academic and social record at OGMS," Col. William J. Macpherson, Commandant, lauded the units.

The impromptu farewell ceremony at the School Monday climaxed a hectic week of activity for the Japanese. The week was launched with a Sayonara Party at the Officers' Club which saw some 300 military and civilian personnel celebrate the completion of the Hawk Support course.

Later that week, three Japanese lieutenants were promoted to captains in an informal ceremony at OGMS headquarters. Captains Toshihiro Nishi, Tatsumi Hirakata and Akira Nishida received their captain stars from Col. Masakazu Kuramochi, Japanese Liaison Officer, and Col. Macpherson.

Some 41 Japanese officers and enlisted men departed by bus Monday at midnight on a 5-day tour which will take the group to Birmingham, Mobile and Bellingrath Gardens. From Bellingrath, the



FAREWELL—The first graduating class of Hawk missilemen of Japan left the U. S. Army Ordnance Guided Missile School Monday following the traditional exchange of gifts between the departing Allied nation and the Missile School. Col. William J. Macpherson, Commandant, (left) and Col. Masakazu Kuramochi, Japanese Liaison Officer, exchange friendship plaques. Some 65 Japanese Missile men departed late Monday on a whirl-wind tour which will range from New York to San Francisco, taking off point for their homelands.

tour will continue to Algiers and Baton Rouge.

Following a lay-over at the key Louisiana city, the missilemen will depart for Beaumont and Houston, Texas, where sight seeing buses will visit the highlights of the Texas city.

The trip will continue to San Antonio and will terminate in El Paso.

A smaller group of 24 Japanese enlisted men departed earlier Monday on a 9-day bus tour which will range from Chattanooga to Buffalo, N. Y. to Chicago. The men will jet from Chicago to San Francisco, taking off point to their

homeland. The larger group will join the 24 enlisted men in San Francisco.

The departure ceremony Monday morning was highlighted with the traditional exchange of gifts between the departing Allied unit and the Missile School.

Bond Deductions Increase At OGMS

A recent U. S. Savings Bond drive at the Ordnance Guided Missile School saw an increase of bond sales in military, student and civilian departments, according to Col. William J. Macpherson, Commandant. The civilian group turned in the best showing with

a 95.6 total average.

Savings Bond records to date show a total of 1,835 participants in the bond program. Of this number 1,111 military personnel (non students) are utilizing the bond program; 468 students are purchasing bonds and 479 civilians are members of the program.

The over-all Missile School average is nearing the 90 per cent mark. Present records show average of 86.6 per cent to date.

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Welcome Mat

The Rocket extends a welcome to the following named civilian personnel who have recently accepted positions with Army organizations at the Arsenal.

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Earl T. Kinzer, Alton C. LeCroy, Jr., Sarah A. Mays, Frank J. Miller, Billy M. Morris, Rebecca C. Peterson, David E. Powell, Jr., Earl T. Reed, Edward B. Reeves, Thomas G. Rhodes, George E. Shankle, Cohen T. Simpson, Jerry D. Smith, Timothy W. Summers, Richard J. Thompson, Curtis L. Vest,

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General Counsel:

Bob J. Attaway, Robert A. Buettner, Earl O. Campbell, John C. Norton, Jeanne D. Scales, and Sharon K. Webb.

Others: Foch P. Bruce, Jr., Patricia L. Chandler and Marcel K. Singleton, Compt & Dir Pro; Bruce L. Garrett, MS & DSO; Betty J. Haines, Lance; Reba A. Hood and Marcelo Lara, Hawk;

J. Paul Schumann and John F. Tabor, Jr., Msl Intell; Bobbie L. Smith and Zeda L. Thornton, Spec

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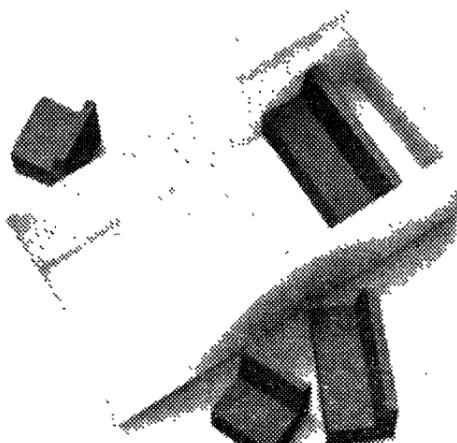
Mary J. Carlton, Joseph J. Folz, Margaret L. Holmes, Lloyd W. Key, John W. Long, Jr., Orville E. Ova, Larry D. Owens, Melba J. Reed, Oswald M. Ramer, Everett R. Segui, Jr., Sandra E. Smith.

ARMY MISSILE SUPPORT COMMAND

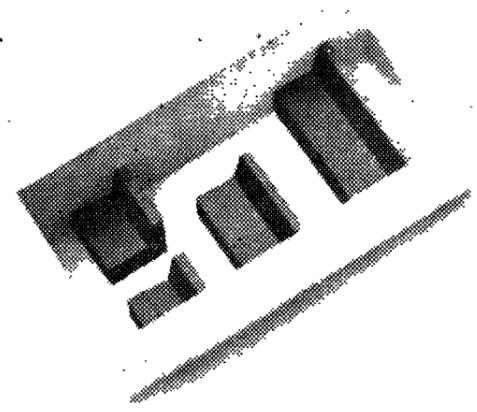
Connie D. Barksdale, Janis A. Gooch, Carolyn Steadman and Carol A. Weir, all in Civilian Personnel Office; Carl M. Buchanan, Linda F. Cleveland, Virgie M. Hopkins, Zettie U. Junkins, Fay C. Reid, James R. Riley and William D. Third, all in Finance & Accounting;

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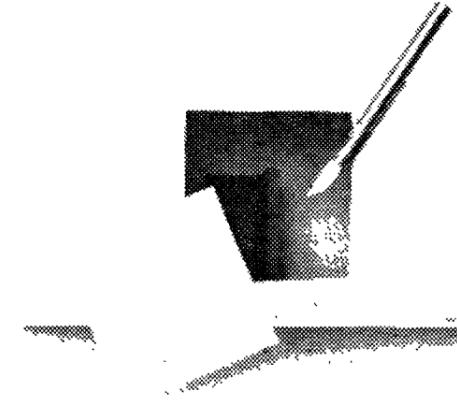
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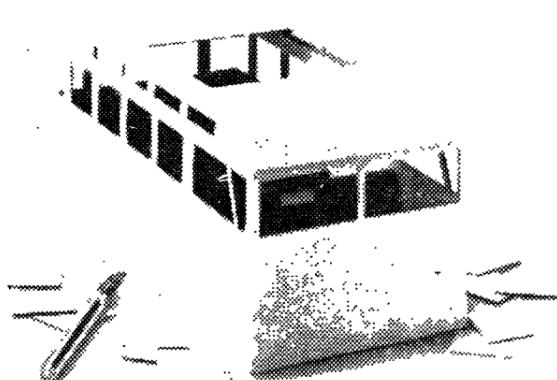
Now add a few seats. Say 8.



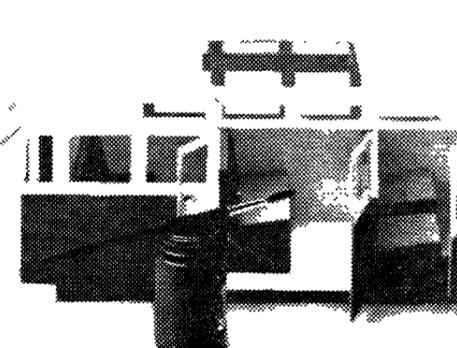
Make an aisle so you can walk to the back.



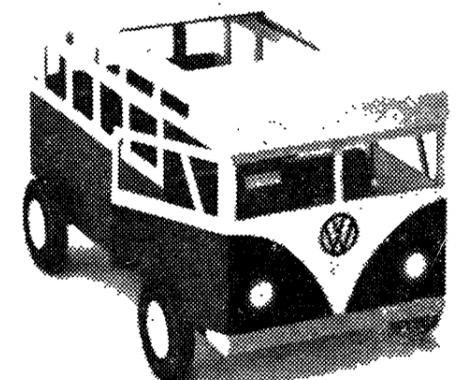
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