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VOL. XV; NO. 50

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

MAY 3, 1967

HYBRID ROCKET FLIES



NEITHER COLD, NOR SNOW! . . . can stop the Army's Shillelagh anti-tank missile system. Here the new heavy armor killer goes through its paces at Fort Greeley, Alaska. During these Arctic tests, Shillelagh was fired successfully at both moving and stationary targets. The tests were designed to demonstrate the capabilities of the Shillelagh missile system—and the General Sheridan armored reconnaissance airborne assault vehicle—under extreme weather conditions and to determine how effectively soldiers can operate the equipment in sub-zero temperatures. The Shillelagh missile system is managed by the U. S. Army Missile Command at Redstone Arsenal, Ala. The Aeronutronic Division of Philco-Ford Corporation is prime contractor. Arctic tests were conducted by the Army Test and Evaluation Board.

Tests Employ Propulsion Concept For Future Use

The U. S. Army has announced a recent successful flight test of its first hybrid rocket, employing a propulsion concept that holds promise of use for future missile and space applications.

The five-foot-long rocket — which was powered by a solid propellant rocket motor and a hybrid rocket motor—streaked across one of the U. S. Army Missile Command's test ranges at Redstone Arsenal, and impacted in the target area.

Successful AUSA Drive Foreseen

Optimism is running high for a successful membership drive by the local chapter of the Association, U. S. Army, following the second weekly report that showed almost 2,000 new memberships and renewals already banked.

In releasing the weekly figures, Horace Lowers, executive chairman for the membership drive on the Arsenal, said that the 1968 members that have already signed up represent a 75 per cent increase over the same period last year.

"They also represent," according to Lowers, "almost a third of the overall drive objective, and over a half of the total Tennessee Valley Chapter membership at the start of the campaign."

When the drive started two weeks ago the local chapter had a total membership in the Huntsville area of slightly over 3,800 with approximately 3,200 of these on the Arsenal.

The chapter membership drive is being conducted over a six-week period ending Armed Forces Day. The overall objective of the drive is to increase the chapter membership to 6,000.

The weekly report released by Lowers this week indicated that 219 new members had been enlisted since the start of the drive along with 395 renewed enrollments. The remaining 1354 represent active memberships in the world-wide organization.

Up until now selectable range hasn't been built into a solid propellant missile because of the problem of controlling burning of the solid fuel. Once ignited, solid fuel which contains oxidizers as part of the fuel block, burns until expended.

The test rocket was composed of two stages. The boost stage was of solid propellant. It was ignited by an electrical black powder squib and burned until a predetermined energy level was reached. Then, the hybrid stage ignited and burned for a time which depended on the range desired.

The hybrid stage, which is the critical one from the standpoint of range control, is made up of a rubber-type solid fuel and a liquid oxidizer. The oxidizer—inhibited red fuming nitric acid—furnishes the oxygen needed for burning. In operation, the oxidizer is injected into the interior of the hollow fuel grain where the propellants burn.

All that is needed to terminate thrust, and therefore regulate the rocket's range, is to shut off the supply of liquid oxidizer.

Three laboratories of the Missile Command's Research and Development Directorate and two contractors are involved in the hybrid rocket project. Work is centered in the Propulsion Systems Engineering Branch of the Propulsion Laboratory where initial design and development work established the feasibility of the concept. The Ground Support Equipment Laboratory designed the overhead rail launcher and

(See HYBRID on Page 3)

Proclamation Declares: Armed Forces Day May 20

The ink is dry on Huntsville Mayor Glenn Hearn's proclamation. City, county and Redstone Arsenal officials have met, discussed and put the final stamp of approval on the planning.

Armed Forces Day, circa Saturday, May 20, 1967, is on.

The planning, outlined with broad brush strokes, calls for filling in the details; the nitty-gritty work required to perform myriad tasks. All designed to bring off this year's Armed Forces Day as the most exciting and inspiring one to date.

Maj. Donald E. Kreul, Project Officer for Redstone Arsenal's part in the celebration, has met with his committee and made assignments as has his counterpart,

Huntsville businessman Ray Pearson, Downtown Chairman for Armed Forces Day observance.

The Saturday morning parade, which is mapped over a 16-block long route through downtown Huntsville, is scheduled to begin at 9:30 o'clock. Ray Jones of the Army Missile Command's Operations and Security Office has been named Parade Marshall.

Numerous area high school bands as well as the 55th Army Band from Redstone Arsenal and the Florence State College Band and drill team will provide music for marching units in the parade.

Arsenal activities at both the Redstone Army Airfield and Army Display Area will begin at 12:30 p.m. on Saturday.

Drivers' Skill To Be Tested Over CBS-TV

Army employees at Redstone Arsenal will have a chance to pit their driving knowledge this month against the 1967 TV National Drivers Test.

The Safety Office of the Army Missile Command's Arsenal Support Operations Directorate plans to make talley sheets available to every Army employee so each may keep his own score. D. K. Womack of the Safety Office said the blanks will be distributed through

(See DRIVERS on Page 3)

New Badges To Be Issued; Low Loss Rate Sets Record

Rebadging of all Army and certain contractor personnel at Redstone Arsenal will get under way in June.

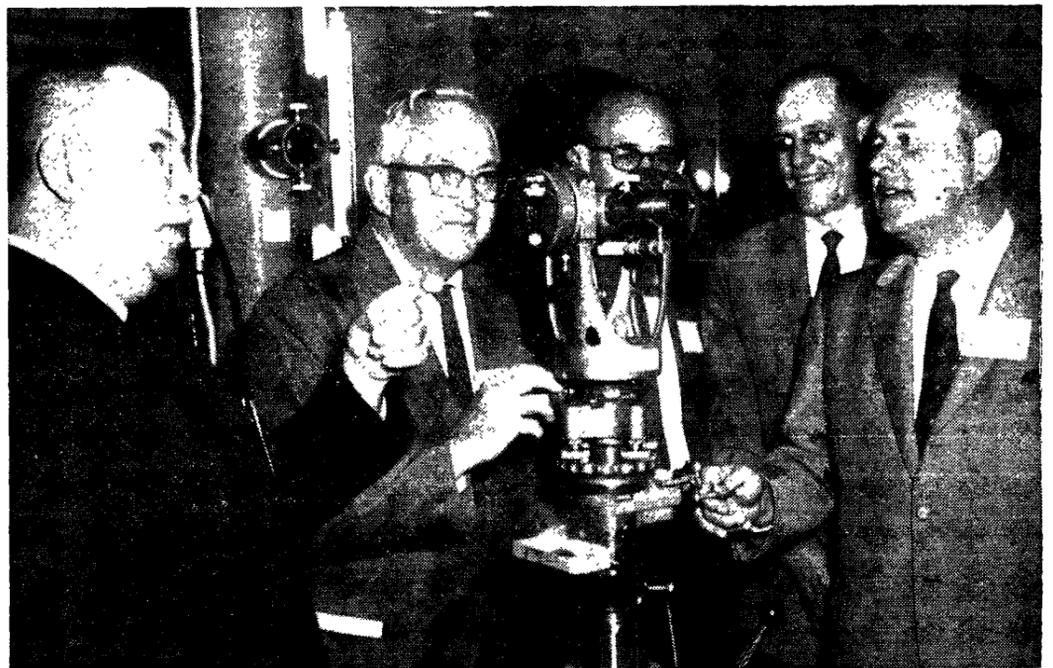
Army Regulations require that installations using an identification badge must rebadge personnel every five years or whenever five percent of the badges have been lost. The present badge has been in use since mid-1962 with a total of 88,833 badges issued with a loss of only 1.1 percent, a remarkable record.

The Provost Marshal, LTC W. J. McClain, and his office are prepared to commence rebadging of Army and contractor personnel on or about June 1. Instructions for badging will be outlined in a new badge regulation which was scheduled to be in the hands of Army users about May 1. There are substantial changes in that the num-

ber of sensitive security areas have been reduced; some area codes will be changed; the time required to process new employees for badges has been streamlined and simplified; and a new badge request form will require less detail and be easily understood. The badge also will differ sharply from the present badge both in color and design. For the first time the design will graphically identify the Army Missile Command and its mission.

There will be very little interruptions to the Army elements because the Provost Marshal Division badging section will operate mobile teams to rebadge personnel at or near their places of employment. A schedule of dates, times and places will be announced. It is anticipated that it will take

(See NEW BADGES on Page 3)



LOOK INTO THE FUTURE—Rome, Ga., Army Advisory Committee Chairman Dean Covington sights through a theodolite during a tour the Committee made of facilities at the Army Missile Command, R. B. Smock (left) of the Army Metrology Center explains use of the instrument while Frank Hibbetts of Atlanta Gas Co., Bob Sherer, President of the Rome Chamber of Commerce, and Burret Mooney, Publisher of the Rome News Tribune, look on,

The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket only through the Information Office, Army Missile Command, Redstone Arsenal, Ala., 35809 Bldg. 5250, Room "A-136, Extension 876-1400 or 876-1500.

All advertising copy and payments therefor are received by Mrs. Vergie Robinson, P. O. Box 346, Huntsville, Ala., 35804, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wanted—is noon of Friday before publication.

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

Rocket Ruminations

It is fatal to enter any war without the will to win it.
—Douglas MacArthur

The Man Of Vision

Major General H. N. Toftoy (U. S. Army, Ret.) has been eulogized as a man of vision. Visible proof of his vision is evident to every person who works at Redstone Arsenal.

The U. S. Army and specifically the people engaged in the urgent business of Redstone Arsenal owe this man a great deal. There were others involved, to be sure, but to General Toftoy rightly goes the major credit for clearly foretelling the need and then shaping, in the early, critical years, the on-going missile programs of today.

Few men are fortunate to command the respect and admiration given freely to this fine soldier by his associates and the people of the neighboring communities.

He literally got down on his knees to bring the rockets to Rocket City, and missiles to the U.S. Army. In 1948 and 1949 he made the rounds in Washington, pleading a special cause and on at least one occasion, carried away by his own enthusiasm, spread maps of Redstone Arsenal on the floor of the Army chief of staff's office, and got down on his hands and knees to point out the desirable features of the future home of Army missiles.

It was typical of the man that he could tell this story on himself. And he had the same chuckle in his voice once, when questioned about the origin of his interest in missiles and rockets. "Nothing," the general said; "nothing, stimulates interest in a new weapon quicker than the discovery that it is in use by one's opponent."

He made that discovery himself, and survived World War II determined to see that the opportunities of the guided missile would be developed for the United States. That he did is a matter of history, first in spearheading Operation Paperclip which brought the German developers of the V-2 missile to the United States, later in championing the then unpopular cause of the missile program, first in Washington and then as Commanding General here. That what he did, is a legitimate and significant part of the history of the missile and space programs of this country, is nothing more than fact.

It was also typical of the man that in 1956 he wrote an authoritative article for a professional publication on the history of Army missile development, covered those early years, named the names and gave the dates, and never once mentioned his own name or great personal contributions.

Death took General Toftoy two weeks ago. He had been granted something given only a few. A true pioneer, he had lived to see his pioneering dreams take solid substance.

His legion of friends here at the Arsenal, in the community and throughout the Free World take comfort in having been privileged to know him and serve with him.



Voice Of The People

As members of the 90th Congress walk the halls of the Capitol, they are surrounded by reminders of the continuity and traditions that have existed in our government since the first Congress convened in March 1789.

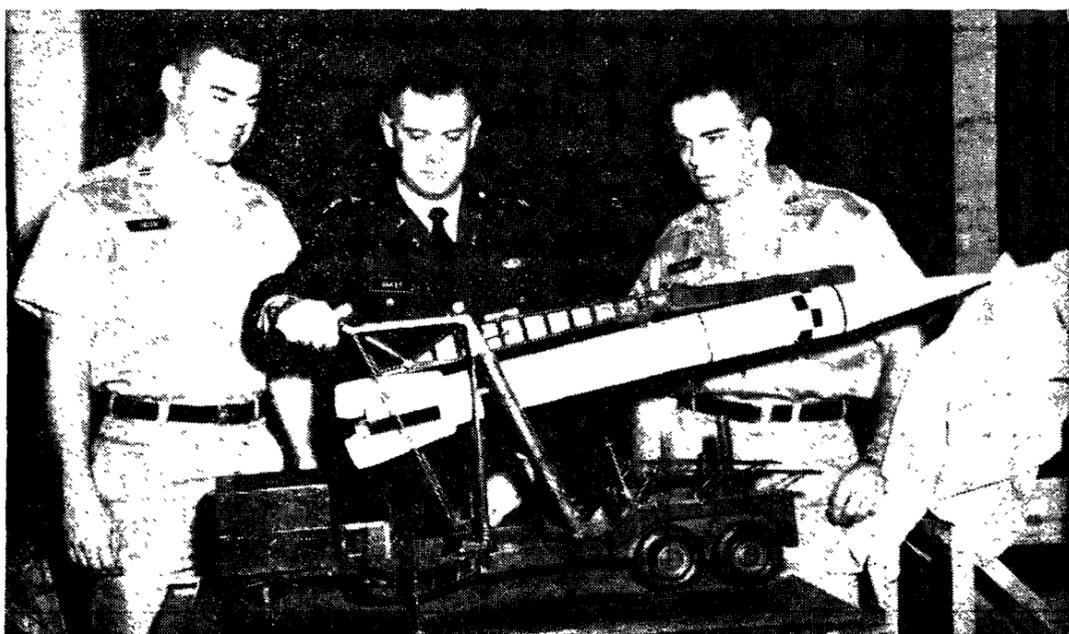
Paintings and busts of Congressional greats who helped make the history of our Nation abound throughout the corridors, recalling for each elected representative the legacy of service and responsibility to the American people.

Throughout its history, Congress has served not only as the voice of the people, but as an effective check against the accumulation of too much power by any one branch or individual in our governmental structure.

The 435-member House of Representatives has a strong voice in the operation of the government inasmuch as all revenue bills must originate with it. Approval of all treaties and major Presidential appointments gives the 100-member Senate an equally powerful voice in the conduct of our country's affairs.

Through the years, the responsibilities of Congress have increased, as has its size. The complexities of government have multiplied as the Nation has grown and progressed, demanding greater knowledge, toil and dedication from each successive Congress.

Today, as in the past, our elected representatives face the challenges of the world knowingly and firmly, resolute in their efforts to help this Nation prosper as never before. (AFNB)



CADETS VISIT—Maj. L. C. Oakes, center, of the Officer Training Department shows Cadet Sgt. Vernon Saxon, left, and Cadet Lt. Steve Sears a model of the Sergeant Missile with erector-launcher at the Missile & Munitions Center & School. Thirty-two U. S. Military Academy instructors and cadets visited MICOM and MMCS and received briefings on the Sergeant and Nike Hercules missile systems as well as a training aids demonstration. The visiting group was headed by Col. J. D. Billingsley, Professor and head of the Academy's Department of Ordnance.



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STUDENT AND FACULTY senior officers from Inter-American Defense College, Washington, D. C., will visit Inter-American Development Bank. They will be briefed on Bank's work in Latin America's economic and social development.

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Gen. Harvey Predicts: Freedom Shares Popular

"I am sure Freedom Shares will prove as popular with Redstone personnel as Series E Bonds," Brig. Gen. C. C. Harvey said this week in kicking off the month-long Share In Freedom campaign at the Arsenal.

The Deputy Commanding General for Air Defense Systems was first in line at Redstone to sign a payroll deduction allotment for the regular purchase of Freedom Shares, the new companion product of the regular savings bonds, that went on sale around the country this week.

Before the day was over the prediction had already started to materialize with the receipt of several more signed allotments in the Finance and Accounting Center.

Gen. Harvey referred to the present Arsenal participation rate in the Savings Bond program in making his prediction. He said that the 95 per cent rate indicates that Redstone people know that the payroll savings plan is the easiest method of saving ever devised.

"As soon as they know all the facts concerning the new savings notes," he added, "they will be just as enthusiastic in this opportunity to increase their regular savings."

Freedom Shares are being stressed throughout the month in the first person-to-person canvass conducted at Redstone in three years.

The new security will earn 4.74 per cent interest when held to maturity of four and one half years. The notes must be held one year before they can be cashed.

Shares are available in denominations of \$25, \$50, \$75 and \$100, with a purchase price of \$20.25, \$40.50, \$60.75, and \$81.00,

DRIVERS

(Continued From Page 1)

the safety coordinator of each organization.

This year's Drivers Test will be presented by the CBS network at 9 p.m. CDT on May 23. The format of the show will follow that of the two previous programs. The situations presented will involve the viewer and call for natural driver reactions.

Walter Cronkite will be anchor-man for the 1967 Test.

HYBRID

(Continued From Page 1)

the Test and Reliability Evaluation Laboratory is conducting the flight tests. Rohm & Haas Company provided the motors, and Hayes International Corporation provided the airframes, "plumbing" and electronics for the hybrid system.

respectively. Freedom Shares provide the same tax deferral privilege as Series E Bonds and rise in value every six months.

One Share may be purchased for each Series E Bond purchased which has an equal or higher value. However, buyers will not be permitted to purchase more than one \$50 Share each bi-weekly pay period, or more than a \$100 share each monthly pay day.

If a person is buying a \$50 E Bond per pay period, he will be eligible to purchase either a \$50 or a \$25 Freedom Share for the same pay period. He cannot, however, purchase a \$75 Share, nor can the deductions for the \$50 or \$25 Share be spread over two or more pay periods.

Those persons who spread deductions over more than one pay period for the purchase of a savings bond will be eligible to purchase a savings note with deductions over the same period.

The Series E Bond and the Freedom Share must be purchased and issued simultaneously and the registration must be identical.

NEW BADGES

(Continued From Page 1)

from six to eight weeks to complete the schedule.

Contractor personnel will continue to be badged as at present. The present badge will be valid until expiration, at which time, if renewable, a new badge will be issued. New employees of contractors, however, will receive the new badge after June 1.

Army organizations are being advised to obtain the revised badge request form (SMI 1116) now, in order to have them on hand before the start of the re-badging schedule. The old form will be used until June 1 at which time it becomes obsolete.

MICOM Installation Regulation 606-1 is the governing instructions.

Although current badges for Government employees expire in July, these will be honored until re-badging is complete and a cut-off date is announced.

Contract Signed

The Army Missile Command has awarded a \$2,354,400 contract to the Northrop Corp., Ventura Division, for production of RP-76 target missiles. The items will be produced at the Corporation's Newbury Park, Calif. plant during a nine month period.

The Missile Command Procurement and Production Directorate, headed by Col. S. C. Holmes, negotiated and executed the contract.

Army Awards \$2.5 Million For Contract

A \$2,571,450 U. S. Army contract has been awarded to the Aeronutronic Division of Philco-Ford Corporation to support the activation of a repair facility for the Shillelagh guided missile system at Anniston Army Depot.

The cost plus incentive fee contract calls for delivery of some test equipment, repair procedures and establishment and operation of Shillelagh facilities at Anniston. The contract covers a 12-month period.

Shillelagh is a gun-launched guided missile system being developed for Army armored vehicles. Capable of firing either missiles or conventional ammunition, the 152mm gun-launcher provides high accuracy against moving or stationary targets.

The U. S. Army Missile Command manages the Shillelagh program under Col. Spencer R. Baen, Project Manager. Aeronutronic is prime contractor.

Negotiating the contract for the Army was Systems Contracts, Division B, of the Missile Command's Procurement and Production Directorate, headed by Col. S. C. Holmes.

SPECIAL EVENT PLANNED AT MESS

"An Evening On The Continent" will be the theme for a special event to be held Friday, May 12 at the Redstone Officers Open Mess. A buffet of Continental cuisine will be served from 7 p.m. to 8:30 p.m.

"Benny and Judy. Danny Villa and Girls a la Carte" will present the floor show. Club members may obtain tickets from Sgt. Pickering at the Officers' Open Mess.

Homemakers contemplating good investments in family futures will find them in U. S. Savings Bonds—and their new companion product, Freedom Shares.

Dr. Carter Talks About Hybrid Rocket Systems

Looking to the future, hybrid propulsion systems look particularly attractive for Army battlefield weapons, Dr. William C. Carter said here over the weekend.

"Hybrids have the potential of varying the desired range," the Chief Scientist for the Army Missile Command pointed out.

Dr. Carter's missile remarks

were made at the Redstone Officer's Open Mess Friday night at a dinner meeting of the American Institute of Aeronautics and Astronautics. Also present at the wind-up of the two day symposium were college students and faculty members from an 11-state area throughout the southeast.

Among other areas of interest, the Army is looking at high acceleration missiles for air defense and anti-tank roles and is especially interested in developing missiles which can hit targets beyond the line of sight.

"Above all, the Army is interested in weapons that are simple, rugged, reliable, and mobile," he said.

One of the highlights of the meeting was the presentation of awards to students for technical papers. Graduate winners were Donald Seth Taylor, University of Florida, first place; Thomas McRea Jr., University of Florida, second place and Robert Cole, Georgia Institute of Technology, third.

Winners in the undergraduate class were Gerald Driggers, Auburn University, first place; Thomas Savell, Georgia Institute of Technology, second; David Lynn Brott, North Carolina State University who tied for third with a paper co-authored by William Newton III and Benjamin Ogletree, Mississippi State University.

Negotiations With Union Begin At Missile Command

Negotiations began Monday between the Army Missile Command and Lodge 1858, American Federation of Government Employees, leading to a basic labor management agreement.

The agreement will cover personnel policies, practices and working conditions which affect all employees of the Missile Command bargaining unit, including approximately 7,000 employees.

Col. J. N. Jean, Director of the Arsenal Support Operations Directorate has been appointed chief negotiator for the Missile Command while Pat Zembower of the AFGE's national office will head the Union negotiators.

L. M. Brockman of the Army's Civilian Personnel Office, and Everette Brouillette, president of Lodge 1858, are advisers for management and the union, respectively.

The local AFGE lodge is entitled to negotiate this agreement as a result of an election held in February, in which 71 percent of the eligible employees of the Command voted to be represented by Lodge 1858.

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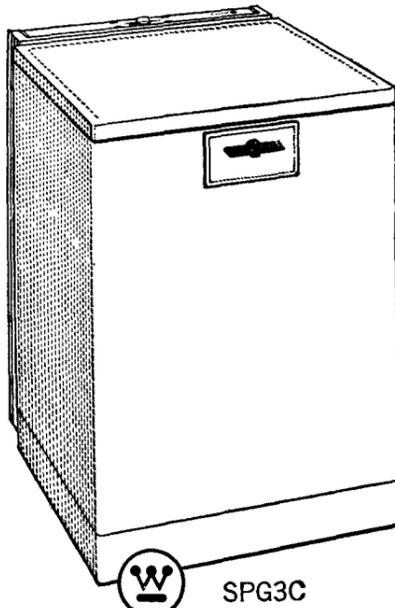
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SOCIAL ^{and} CLUB EVENTS

Gen. Zierdt Will Speak To Officers Wives Club

Maj. Gen. John G. Zierdt, Commanding General of the U. S. Army Missile Command, will address the Redstone officers wives Club during lunch Tuesday at the Officers Open Mess.

The event is scheduled for 12:30 p.m.

Hostesses are wives of officers assigned in the Research and Development Directorate. Mrs. Nils M. Bengtson is overall chairman. Mrs. Morton P. Sherzer is the decorations chairman.

Reservations are being handled by Mrs. R. Achterbert, 877-5879; Mrs. H. Berson, 877-4159; Mrs. T. H. Lynch, Jr. 877-5764; and Mrs. U. H. Williams, 877-5765. Deadline is Friday noon.

Mrs. C. T. Bayer will accept can-

cellations until noon Monday.

At the business meeting the new slate of officers will be elected and installed. Nominations from the floor will be accepted if the nominee has given prior consent.

Travellers Bound For Nassau Soon

A one week vacation in Nassau has been scheduled by Redstone Recreation Association. The trip will originate in West Palm Beach via Pan American Jet to the island, for a seven days and six nights stay in the world famous Sheraton British Colonial Hotel.

The price of this vacation, including air fare, tours, transfers, and hotel room is \$105. per person (double occupancy), with no charge for children occupying a room with their parents. The entire trip cost for children is \$22.00, to cover transportation and tour costs.

Bernice Land is the coordinator for this trip, and can be reached at 534-6576, or 876-3966.

BALL SET SATURDAY

The Pearl S. Buck Foundation annual benefit ball will be at the Elk's Lodge with a buffet dinner scheduled to begin at 7:30 and dancing at 9 p.m.

Tickets are available at the Book Inn in the Heart Of Huntsville Mall, Mason's Jewelers at the Mall, and the Arthur Murray Studios downtown.

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Technical Artists Meet At Arsenal

The Association of Technical Artists met Tuesday, at the Redstone Arsenal Officers Club. Wallace F. Bischof, Manager, Redstone Pictorial Project of the RCA Service Company was guest speaker.

"Motion Pictures as a Mode of Communications" were the subject of Mr. Bischof's presentation. He discussed today's expanded use of motion pictures by government and industry as a technical communications media.

Bischof joined the RCA Missile Test Project at Cape Kennedy in March 1956. He served as Manager of Production Processing and was promoted to Manager of the Photographic Laboratory. He personally supervised a one and a quarter million dollar installation which doubled the film processing capability of the Air Force Eastern Test Range. Mr. Bischof received his B.S. degree in chemistry from Colorado College and has taken graduate courses in instrumental chemistry at New Mexico University. He is a Fellow of the Society of Motion Picture and Television Engineers.

Contract Managers Will Receive Charter Tuesday

A charter will be awarded the Southeastern Region of the National Contract Management Association during a meeting May 9 at Redstone Arsenal and in Huntsville.

At lunch at the Officers Open Mess, Robert P. Whitley, Deputy Project Manager of the TOW Weapons System will tell about the TOW Weapons System status. Afterward the group will tour Redstone Arsenal.

At 6 p.m. they will reconvene at the Sheraton Motor Inn for dinner and the chartering ceremony. William Roy will be installed as Regional vice president. Bernard Moritze of NASA will be the guest speaker. The Southeastern Region embraces Atlanta, Cape Kennedy, Denver, Huntsville, Mid-Florida, St. Louis, Space Cities and North Texas Chapters. The Huntsville Chapter is the host.

Play Bridge Thursday

The Thursday Bridge Group sponsored by the Redstone Officers Wives Club had five tables in play last week.

Winners were Mrs. William Mattis, first; Mrs. Stephen Dobbs, second, and Mrs. R. W. Washburn, third. Low was Mrs. Fred E. Croxton.

Eligible to play with the group are members of the Wives Club and of the Retired Officers Wives Club.

Reservations are handled by Mrs. Robert Allgeier.

'Up With People' To Play Madison County Coliseum

"Up With People," an internationally famous musical program is scheduled to be presented in Huntsville at the Madison County Coliseum Tuesday and Wednesday evening beginning at 8:15 p.m., May 9 and 10.

The production features a cast of 150 high school and college students, from every background in the United States.

"Up With People" was launched at the Moral Re-Armament Demonstration for Modernizing America in August, 1965. On its 13-nation

tour it has been seen live by two million persons and on television by an estimated 200 million.

Moral Re-Armament is an expeditionary force from all faiths and races engaged in "a race with time to modernize the character and purpose of man," according to the movement's advocates. They describe it as love of home, homeland and humanity and emphasize moral standards as a compass in personal and national life.

"It is not a religion, nor a substitute for religion, nor a sect. It is a non-profit, charitable work financed by people from all walks of life," program enthusiasts say.

The Madison County Coliseum presentations will be by paid admission and approximately 40 local participants of the Moral Re-Armament movement will give musical numbers at the conclusion of the regular two-hour program.

In connection with the Huntsville appearances of the group, a 2 p.m. reception is being planned at the Madison County Courthouse Tuesday, and a 30-minute assembly program at Alabama A&M College has been announced for 4 p.m. Recruiting sessions for "Up with People" are expected to be announced for the following Thursday.

MEN WILL TOUR DAMS SATURDAY

The Service Club will sponsor a tour to Wilson and Wheeler Dams near Savannah, Tennessee Saturday.

Construction of Wilson Dam was started during World War I to provide power for making munitions. The dam and powerhouse were not completed until 1925. From 1925 until 1933 the generators were seldom used but, since that time 13 new generators have been added to make Wilson one of the greatest powerhouses in the nation.

Wilson is one of the 32 dams that work together to regulate floods, provide a 650-mile navigation channel on the Tennessee River, and make electricity.

The tour bus will leave the Service Club at 1 a.m. A picnic lunch will be furnished.

JOHN STENSBY WINS

Six tables of bridge players competed Monday night at the weekly meeting at the Redstone Officers Open Mess.

Winners were John Stensby, first; Clark Brown, Second, Mrs. Roy Accardi, third and C. N. McBrearty.

Reservations may be made by calling 837-1525.

Men or Women

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Phenomenology Projects Underway In Pacific

Phenomenology is not only a tongue-twister, it is also serious business.

While many may enjoy wrapping their tongues around such a word as an exercise in vocal dexterity, the fun ends and the serious business begins when national survival enters the picture.

Missile phenomenology is the greatest single concern of Project DEFENDER, the largest of many programs in the Advanced Research Projects Agency (ARPA) Office of the Secretary of Defense. Stated simply, studying missile phenomenology is studying the flight characteristics of a missile through the measured observables.

ARPA is conducting basic research in its Project DEFENDER to gain detailed knowledge of a missile's launch, midcourse, and re-entry phenomena.

The framework within which DEFENDER is obtaining field

measurements in its quest for data is centered on the Army's Kwajalein Test Site and is labeled Project PRESS (Pacific Range Electromagnetic Signature Studies). At Kwajalein the Army's Nike-X Project performs ballistic missile system development and both programs exchange data.

Periodically, target nose cones are fired 4,500 miles down the Western Test Range from Vandenberg Air Force Base, Calif., to the Kwajalein impact area.

A new highly sensitive and versatile radar, ALTAIR (ARPA Long-range Tracking and Instrumentation Radar) will soon be installed at the Kwajalein Test Site. This new, very powerful broadband unit will locate the vehicle and record flight characteristics which the measurement equipment will subsequently incorporate into its array of data.

Designed and built by Sylvania, under contract to the U. S. Army Missile Command acting as Arpa's agent, ALTAIR will have improved performance over its predecessors, TRADEX. As a result, ALTAIR will offer new inroads in which Project PRESS can pursue the development of techniques and criteria as insensitive as possible to offense technology.

Project DEFENDER was one of the major contributing projects in the development of Nike-X which incorporates many of the advanced concepts developed by DEFENDER both in its hardware and its operating techniques.

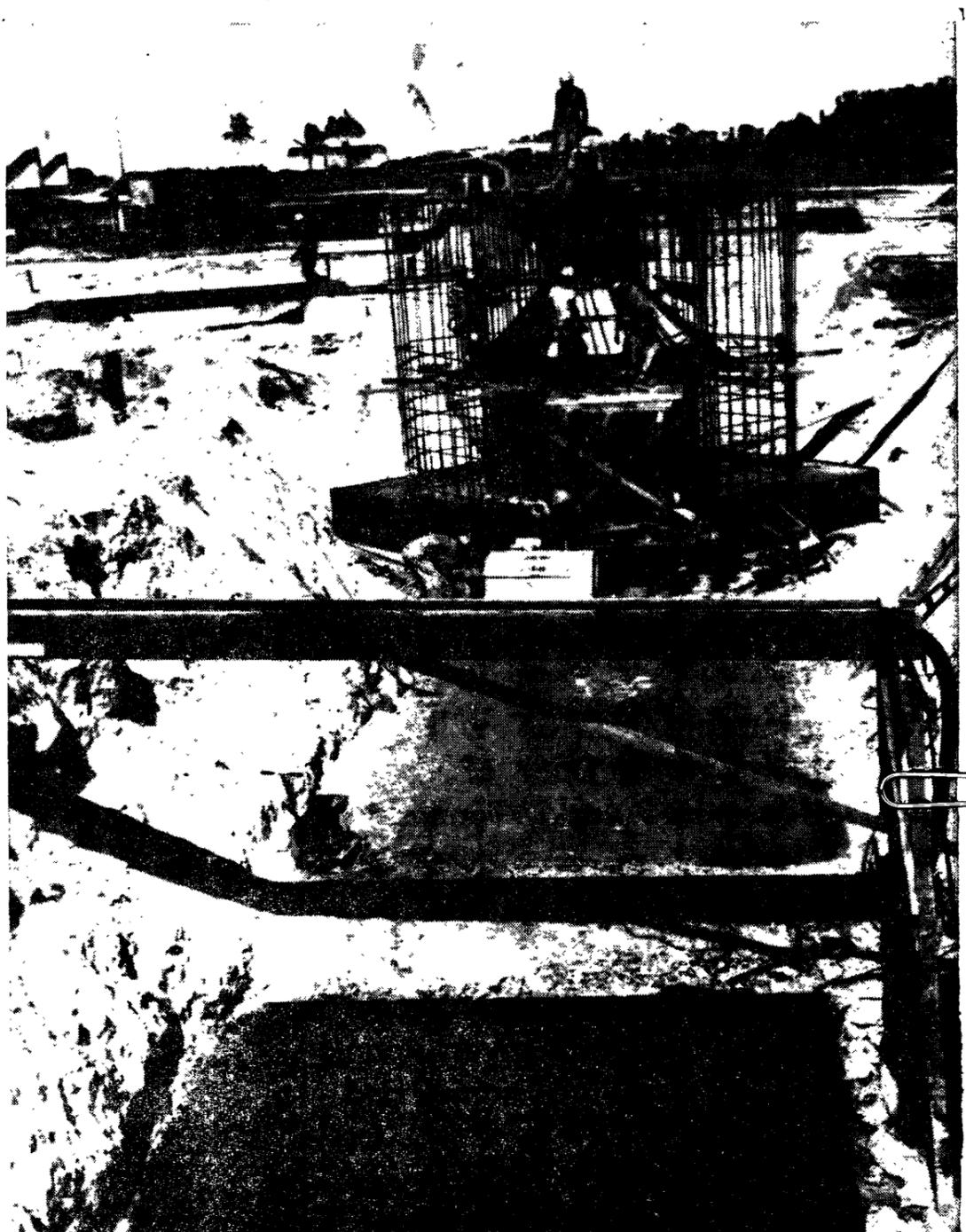
The arm of ARPA examines many other areas of missile defense. Project GLOW is examining infra-red and other optical techniques. Project SPARTA is a smaller scale re-entry observation program similar to PRESS which is

jointly conducted by DEFENDER with Australian and British Allies on the Woomera Missile Range in Australia.

These programs are managed for Research and Development Directorate by the Missile Command's



MUTE MONUMENTS OF PAST—Roi-Namur still abounds with relics of the World War II struggle for Kwajalein Atoll. The bungalow and bunker pictured above were occupied by Japanese Admiral Yamata who was killed during the battle for the island.



CONSTRUCTION UNDERWAY—ALTAIR is now under construction at PRESS site on Roi-Namur Island in Kwajalein Atoll. Center hub area of antenna foundation is surrounded by reinforcing rods of support structure on which the 150-foot antenna dish will sit. ALTAIR will augment and extend existing PRESS radar capabilities of TRADEX radar in background.

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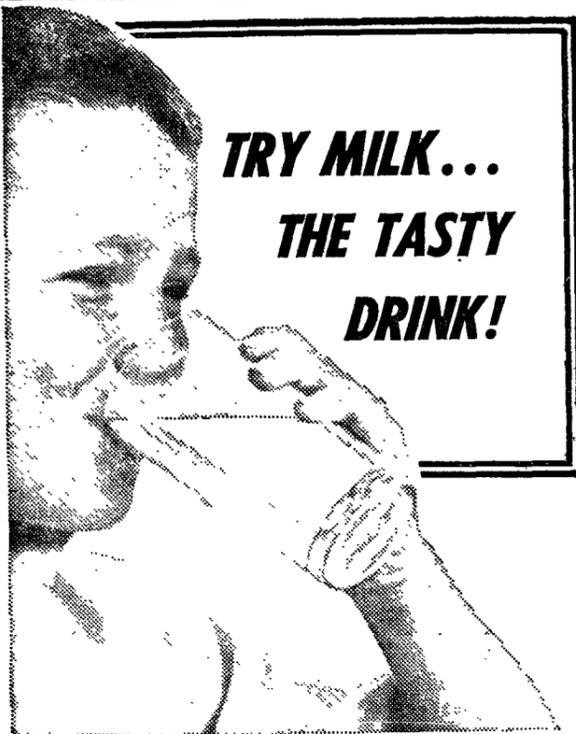
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Bramblets Meet TV Men For Spot In S&M Rolloff

The remaining spot in the S & M bowling championship rolloff will be up for grabs at the Parkway Lanes tonite when the Field Services League winds up its long season.

Topping the year ending card will be a clash between the league leading Bramblett quintet and the second place Banner TV five. Although they only trail by a half point, the TV men must win three out of four to grab the title.

The winner of the match will take on the All-Sports Trophies, winners of the Supply Management League, for the rotating Directorate trophy. In each of the last two seasons the Guided Muscles outscored Huntsville Brick and Tile for the title.

The TV men shaved a point off the Bramblett lead last week with a clean sweep win over the Satellites while the leaders were taking three out of four from the Musclemen.

Fred Stewart was mainly responsible for the single win scored by the Muscles with his 234 game. He also had a 212 on his way to a 608 total. Ralph Sturgill shot a 593 in leading the Bramblett attack.

Bill Couch set the pace with a 544 in leading the TV men to their sweeper.

Al Sarge went over 200 twice and ended the evening's work with a total fall of 588 maples.

Kovac Outlasts Gilman-Bey For Handball Crown

Capt. Jack Kovac is the new Redstone Arsenal handball champion following a hard fought win over Pvt. A. A. Gilman-Bey in the tourney finals last week.

Gilman-Bey, winner of the 90-day ladder that preceded the tournament, fought back from an opening round loss to Kovac to reach the challenge round with three straight wins.

He squared accounts with the eventual winner with a 21-17, 10-21, 21-5 win forcing a playoff.

Kovac took the opening game of the final set 21-10, and Gilman-Bey bounced back again to win the second game, 21-13. The two fought all the way in the final game before Kovac finally prevailed, 21-17, for the championship.

Tennis Joins CWF Schedule

The Civilian Welfare Fund Council has sent out a call for tennis players who might be interested in forming a team to compete against several industrial concerns in Huntsville.

A meeting is scheduled in building 5681 this afternoon to make plans and to initiate action towards setting up a schedule.

Prospective players will meet in the Training Room at 2 p.m. All persons interested in tennis on a competitive basis are urged to attend the meeting, both male and female racket swingers.

STC League Race Still In Doubt

The red hot race for the second half championship of the School Troop Command bowling league remained just that although the C Company Firsts were able to take over sole possession of the lead.

C Company broke out of a three-team deadlock to grab the lead by winning all four points last week while their brothers on the C Seconds were winning three out of four and the B Company Firsts had to settle for a split.

Bill Belt was the chief instigator in the C sweep over the 2nd ETC when he fired a 564. The C Seconds took three from 4th ETC as George Smeltz shot a 553.

Darrell Watson turned in a 549 to help the B Firsts to a split with the first half winning Headquarters Firsts. Chuck Butler missed an Honor Roll total by a single pin in shooting a 599 for Headquarters and Mike Hamer added a 549 to the attack.

Another two-man assault by Al Villanueva and Gerry Wiener led A Company to a sweep over the B Seconds. Villanueva had a 257 game and totaled 589 while his team mate upended 564 maples.

Harv Dempsey shot a 573 to pace the Marines in a sweep over 6th ETC, Nike FMTE swept all four from 3rd ETC and the 7th ETC made it five sweeps for the evening with the C Th'rs as their victims.



BOWLING OFFICERS—The Bowling League, sponsored by the Redstone Officers Wives Club, elected officers for the coming season during brunch at the Officers Open Mess. Left to right are: Mrs. Kenneth V. Barnwell, treasurer; Mrs. James N. Lothrop, president; Mrs. Erthel Willis, sergeant-at-arms; Mrs. T. W. Price, secretary. Mrs. Robert Spragins, vice president, was not able to attend the lunch. Mrs. Donald Davis and Mrs. Edward E. Steimbridge received most improved bowler awards at the luncheon.

Ann Wiener Sets Hot Opening Pace

Ann Wiener got the Redstone Summer Ladies bowling league off to a rousing start last week when she blasted the Post Lanes maples for a big 581 count.

Sixteen three-women teams opened play in the league on Thursday evening and will bowl a single-round schedule during the summer months.

Ann included a 233 game in her assault on the maple ten pins in helping the Pin Pals to an even split with the Goofers. Fran Heishman turned in a 496 for the Goofers.

Esther Matt turned in the only other better than 500 total when she rolled a 510 as the Damn Yankees took three out of four from the Should Have Beens.

Other three time winners on Runners and the Three Blind the opening night were the Road Mice.

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You're covered during the period when anything wrong with the car usually shows up. That gives you something important that

you don't always get with a used car. Peace of mind.

We hope that's worth something to you, because it's going to cost you a few dollars more. Not much, considering how much money a VW dealer puts into every car he puts a guarantee sticker on.

The car gets inspected and tested. Then everything that needs fixing gets fixed. Very carefully, since every dealer knows that anything that goes out a little wrong will come back very wrong.

If you're thinking "that's all very nice but I don't want to buy a used Volkswagen," don't go away. To sell a Volkswagen, a VW dealer usually has to buy something else. So he probably has whatever kind of used Something Else you're looking for.

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Map of farm, full information and directions to farm given upon request. Write giving name and address.

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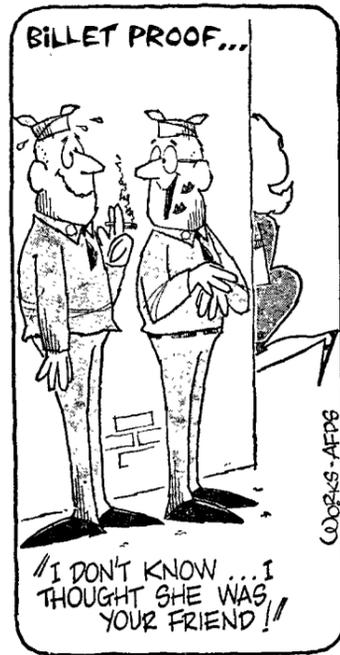
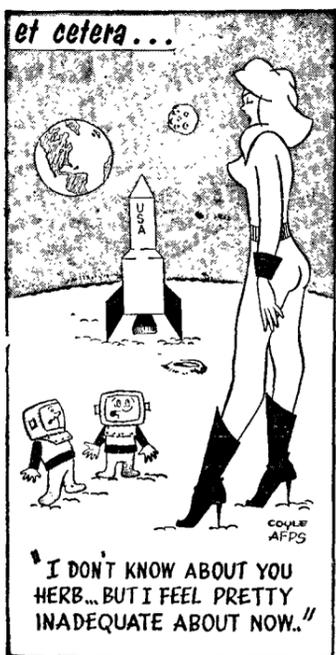
Middle Tennessee Alumni To Hear Dr. Parchment

Dr. Gerald Parchment, Professor of Biology, will speak on "Population Explosion" to the Huntsville Chapter of Middle Tennessee State University alumni at a dinner meeting Saturday night, at Michael's Restaurant in Huntsville. The group will meet at 6:30 p.m.

Dr. Parchment has been teaching at MTSU since 1949. He received his Ph.D from Vanderbilt University and has done postgraduate study at the Oak Ridge Institute and Harvard University.

Reservations may be obtained by contacting Frank Lawrence, 837-5042, in Huntsville. All alumni and friends are cordially invited.

More than 1.8 million Series E Savings Bonds—either lost, stolen, damaged or destroyed—have been replaced by the Treasury, at no cost to the owners, since the first Bond was sold in May 1941.

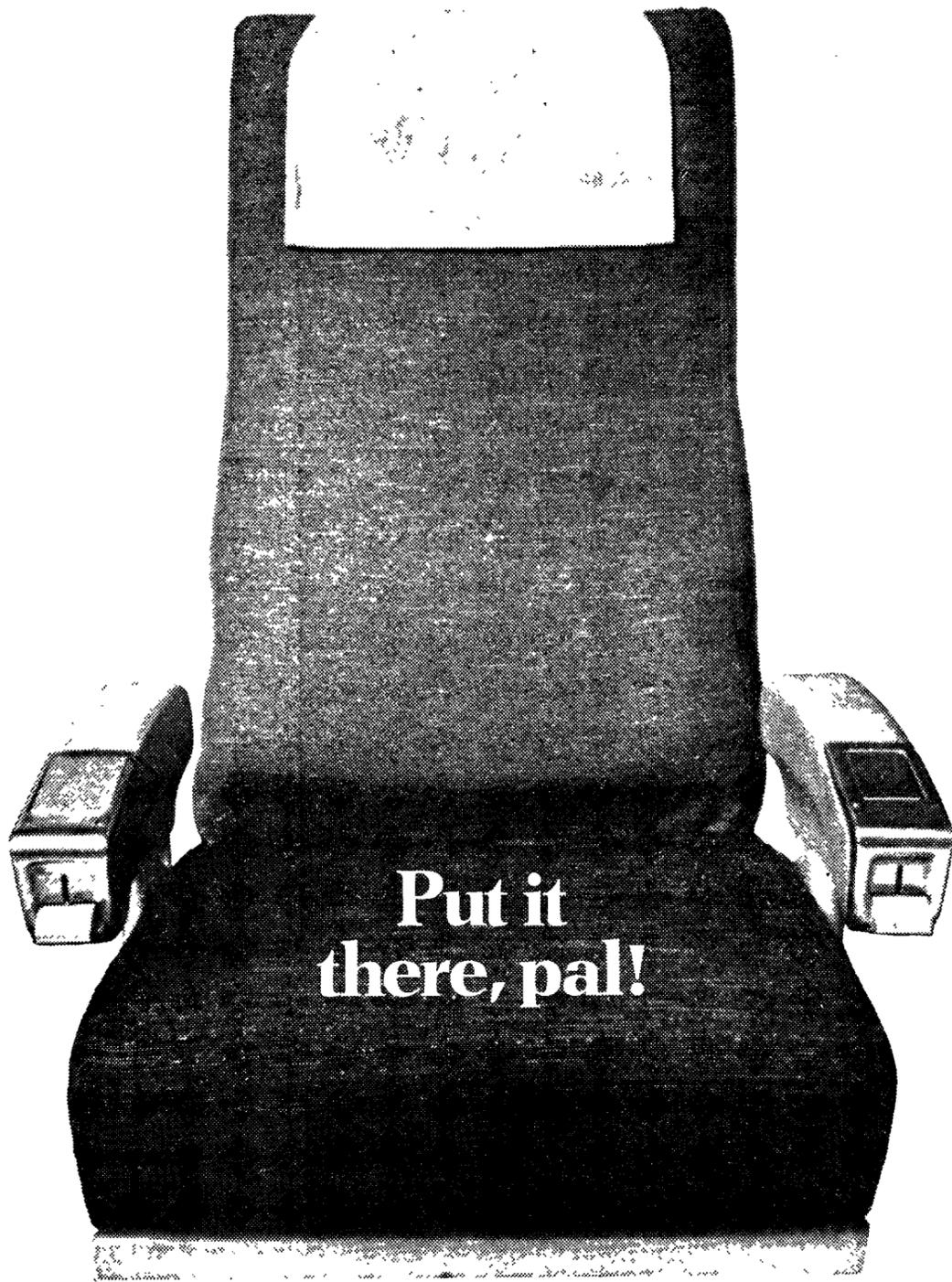


NEW PARACHUTE JUMPING regulations require jump aircraft to have two-way voice radio communicating equipment whenever jumping operations are to be conducted in "controlled airspace."

rules to provide additional safeguards for jumpers and airplanes have been announced by FAA to begin March 24. The new safety

ADVANCED EDUCATION TRAINING in FY68 will find 1,294 Air Force officers taking courses under Air Force Institute of Technology program. Five major fields

being entered are engineering, management, industry, biological/physical sciences, and human and social sciences. Selectees include 128 pilots.



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Vietnam's Brightest Hope Is The Children

A better school, more clothing and food are coming for some 150 children in a Vietnamese refugee camp when the Army Missile Command's Procurement and Production Directorate completes plans now underway. The idea for supporting these children originated in the Directorate's ADPS Division, headed by Curtis Williams, but the plan is spreading throughout the Directorate.



A CHANCE TO SHARE—This is the refugee camp in Vietnam where 150 children live and need a better school as well as the ordinary necessities of life. The Missile Command's Procurement and Production Directorate is planning to send support for the children in the camp.



VIETNAM'S FUTURE—Some of the children in refugee Camp Straight Arrow in Vietnam "ham it up" for the cameraman just as children do everywhere. They have the same needs as other children, only more so, and the Missile Command's Procurement and Production Directorate intends to see that they get some assistance.



"THE CHILDREN, THE CHILDREN"—Children in this Vietnamese refugee camp bring to mind the compassionate plea in "The King and I" to remember the children. Shown are some of the 150 children in their school at refugee Camp Straight Arrow. The Missile Command's Procurement and Production Directorate plans to aid them with school supplies, clothing and food. Other interested Missile Command elements are welcome to join P&P in the effort.

torate's ADPS Division, headed by Curtis Williams, but the plan is spreading throughout the Directorate.

"If other elements of the Missile Command want to join in our effort, we'll welcome their participation," Williams said. "We also would like constructive suggestions from anyone at Redstone who may have first hand knowledge of the children's circumstances in Vietnam, and would know how we can help."

Williams got the ball rolling by asking LTC Donald H. Jersey, formerly assigned at Redstone, to find an appropriate group of children when he reached his new station in Vietnam.

The colonel has recently written Williams describing Camp Straight Arrow, a refugee camp one of the companies in his battalion adopted last December.

He wrote:

"There are now 45 families, including about 150 children, in the camp. Because of intense Viet Cong activity, all families were evacuated from their village of Ben Suc in the heart of the Iron Triangle a year ago.

"The people are more than willing to work either on a part-time basis or full time. The U. S. Army is the chief employer, with many of the members of the camp working here at Phu Loi as laborers. The village chief makes a major contribution to his people by working for the 86th Engineers at Bien Hoa as a mason.

"There is a two room school in the camp area; but it is sorely deficient by our standards at home. Each room has six or seven

rows of long tables and benches with a center aisle, much like the old one room school houses of early Americana."

Col. Jersey's Battalion has been able to provide the children with a good meal on special occasions from locally purchased food using funds the troops had contributed, but otherwise few meals include any meat — it is mostly rice with some fish and vegetables.

The troops are now constructing play ground equipment for the school which should be finished very soon.

"So now down to brass tacks," the colonel wrote. "The future of Vietnam lies with the children. Whatever we do to help them will be to our country's advantage in the long run. The children need such items as T-shirts, boxer type shorts, cotton sack dresses, rubber thong Japanese type shower shoes, bath towels, paint, brushes and large sheets of drawing paper, plus blackboards and desks."

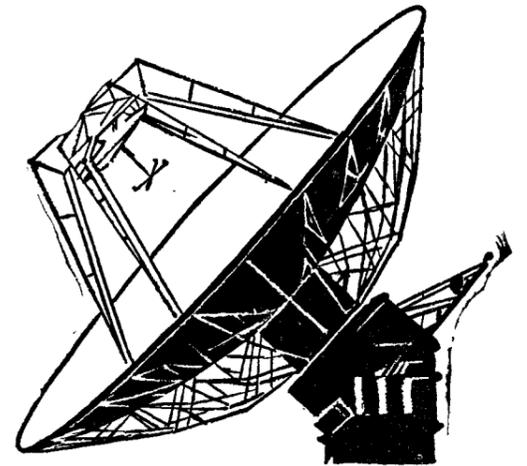
Williams said that he is working on plans for transporting goods to the children, but also asked Col. Jersey what could be purchased in Vietnam for the children if money is sent for the purpose.

Col. Jersey has promised to administer any aid sent by the Missile Command so there will be no "middleman" handling whatever is contributed.

Williams, whose phone number is 876-0822, is the contact for all those interested in joining in the project.

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Six Receive Excellence Of Performance Awards

Semi-annual "Excellence In Performance" awards have been presented to six civilian employees of the Army Missile Command.

Maj. Gen. John Zierdt, Commanding General, made the presentations as he visited each of the winners at his place of work. Two of those who were cited had previously been recognized as "Employee of the Month" for their achievements under the Command's Zero Defects program. They were Susanne K. Worsham and Delores Simms.

Miss Worsham, a clerk-typist in the Procurement and Production Directorate, was recognized for reduction of errors in her work. Based on 236 pages of typewritten pricing reports, cost estimates and correspondence, she maintained an accuracy rate of more than 99.999 percent.

Miss Simms, who is a Supply Cataloger in the Supply and Maintenance Directorate, has compiled a monthly Defense Supply report for a 12 month period without a single error. In addition,



Miss Worsham Miss Simms

she has been recognized for several suggestions which have resulted in the elimination of potential error-causing conditions.

A Card Punch Operator in the P&P Directorate, Mrs. Laura L. Chandler was recognized for cutting a normal error rate almost two thirds while greatly increasing her work capacity. She has verified an average of 225 EAM cards per hour as compared to the generally accepted average of 145 cards per hour, while, at the same time, keeping her average monthly error rate down to .15 percent compared to the normal error rate of about three percent for this type operation.

Although during the rating period James C. Mims had only been employed for eight months, and then as a trainee, he performed



Mrs. Chandler James Mims

his duties as an Inventory Management Specialist in the S&M Directorate with the same degree of accuracy required of an experienced employee two grades his senior. All his work was performed without a single error.

Working as a crane operator for the Research and Development Directorate, Melvin U. Lam handles loaded missile motors under extremely precarious conditions. In the more than 400 movements of motors during the six month period, Lam never had damage to the motors, test stands or instrumentation, nor has he had mechanical failure to his equipment.

In September, 1966, Marvin D.



Throneberry was recognized for error free work in preparation of charts of statistical data used for staff briefings and other requirements.

His error free work continued through the past Throneberry six-month period during which he designed, laid out and prepared more than 160 intricate and involved charts. He works in the Arsenal Support Operations Directorate.



MELVIN U. LAM

E Bonds may be registered in the child's name, with a parent or the purchaser as beneficiary (but not as a co-owner). At the end of the first year of Bond purchases, a Federal income-tax return is filed in the name of the child, listing the increase in Bond value (interest) as income to the child.

HI-FI BUBBLES AWAY ALL DIRT

Tobyhyanna Army Depot has a hi-fi that would make the latest household dishwasher obsolete. What has a hi-fi to do with cleaning dishes? This hi-fi doesn't tremble with Frankie or the Beatles; in fact no noise comes out at all. But bubbles do—thousands of bubbles which bombard anything from a diode tube to a teletype machine. The name of the little dirt destroyer is the ultrasonic cleaner.

To demonstrate it, Myron Potash, foreman of the Depot's Ultrasonic Cleaning Shop, picked up the metal skelton of a radio transmitter which had a good half-inch crust of solid black dirt on its metal compartments and hollow tube casings. He dipped the black hulk into a solution of detergent and water. The bubbles went to work. The bubbles are really high frequency sound waves — 20 to 25 thousand kilocycle range — which cause an imlosion, a bursting inwards, on whatever they touch. The result is a miniature bombardment on all types of dirt and foreign matter. Potash lifted the transmitter out of its 20-second bath. Not a particle of dirt was present. It looked as if it had just come off the assembly line.

"We clean transmitters, teletype machines, robotesters, power supplies, projectors," Potash said. "One person does what 25 men did before."

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ECOM Scientists Honored By IEEE

Two scientists of the Army Electronics Command, a major subcommand of the Army Material Command, have been elected fellows of the Institute of Electrical and Electronics Engineers in recognition of outstanding contributions to their respective fields. One is John J. Egli, chief of the Electromagnetic Environment Division in the ECOM Research and Development Directorate. He was cited "for contributions to wave propagation, electromagnetic compatibility and advanced radio communications."

The other is Frank A. Brand, chief of the Microwave and Quantum Electronics Branch in the Electronic Components Laboratory. He was elected a fellow for his contributions in the field of microwave solid state and quantum electronic devices employed in such equipment as microwave radios and lasers.

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106 Jefferson Street — Downtown Huntsville — Phone 536-8508 or 536-8509
• You Can Pay Your Telephone Bills Here •

JOB OPENINGS ANNOUNCED BY CIVIL SERVICE

The Interagency Board of U. S. Civil Service Examiners for North Alabama, 806 Governors Drive, S. W., Huntsville, Alabama, 35801, has issued examination announcements for the positions of laundry worker, WA-1, \$1.40 an hour; fork lift operator, W-5, \$2.14 an hour; and office machine operator, GS-2 and GS-3, \$3925 to \$4269 a year.

The examination announcements were issued on April 25, 1967 and are open continuous. Registers established as a result of these examinations will be used for filling vacancies in Federal offices and installations in the 38-county area serviced by this Interagency Board.

To qualify for laundry worker, WA-1, and fork lift operator, W-5, applicants must meet the experience requirements as set forth in the examinations announced for these positions.

To qualify for office machine operator, GS-2 and GS-3, applicants are required to take a written test and also to meet the experience

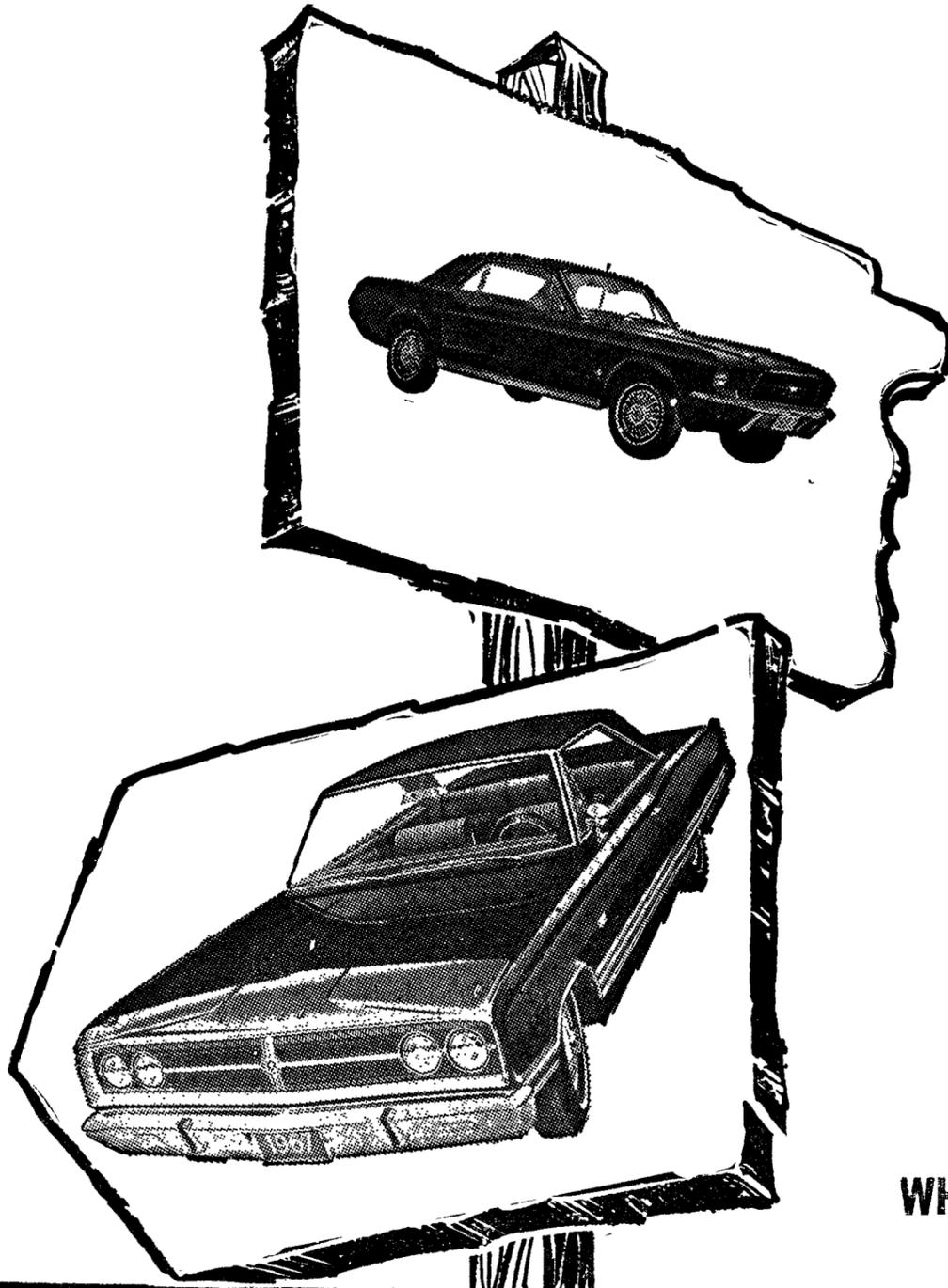
requirements outlined in this examination. This written test will be held **only** at the following cities in the State of Alabama; Anniston, Birmingham, Decatur, Demopolis, Florence, Gadsden, Huntsville, Jasper, Sylacauga, and Tuscaloosa. Further information concerning this announcement is found in the examination issued for these positions.

When the child's Bonds are redeemed to meet college costs, the accrued interest is free from income tax. A copy of the tax return filed the first year should be retained as proof of intent.

**ARE YOU BUYING OR SELLING?
MORTGAGE LOANS**

CONVENTIONAL LOANS— MAXIMUM FHA & VA
MAXIMUM TERMS

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401 Lowell Dr. Suite
Huntsville, Alabama
Phone 539-3404



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**WHEN YOU BUY YOUR
NEXT NEW CAR!**

**Head Directly to Your Nearest . . .
Redstone Federal Credit Union
Office . . .**

And you will be pleased with the low-cost interest rate, just 8/10% per month on the unpaid balance.

Borrower's insurance is afforded eligible members at no additional cost.

It's just a great deal at your Credit Union. Shop, choose, and simply call us. We'll be pleased to serve you.



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A Cooperative Savings and Loan Corporation

REDSTONE ARSENAL, ALABAMA

FOUR OFFICES SERVING YOU

Main Office	877-5940
Building 4200	877-8678
Parkway City	539-5172
The Mall	539-8865

Triple Threat Missilemen Being Trained At School

The Army Friday, awarded its first diplomas to a new kind of missile expert who can keep three weapons systems in combat readiness.

Nine students at the Missile and Munitions Center and School here completed a new course called Combat Missile Systems Support.

They qualified to maintain a new family of close combat support missiles which includes the Redeye, Shillelagh and TOW weapons. All are nearing operational status. Heretofore, most students have been trained to maintain only one missile system.

Redeye is a lightweight missile that can be carried anywhere a soldier can take a rifle. It homes in on the heat of an attacking aircraft. Shillelagh is mounted on several types of vehicles, including tanks, for direct fire against enemy armor, troops and fortifications. TOW is a tube-launched, optically aimed, wire guided missile that can be carried by troops or on light vehicle such as jeeps.

The pioneer graduates were among 84 students who heard Col. John G. Redmon, project manager of the Hawk missile systems at the Army Missile Command, speak at a ceremony in the Redstone Theater. The graduates included

Lt. Boualy Phimmavongxay of Laos, the 27th foreign nation to be represented at the school.

S/FC Paul A. Gussett, won the Army highest academic award with an average of 96.1 in Nike Missile Radar and Computer repair. He received the coat-of-arms of the Association of the U. S. Army.

Cited as honor graduate were PFC Stephen A. Byrem, from Calimesa, Calif., with 94.1 in Nike missile repair; PFC Anton W. Neff of Auburn, Wash., with 93 in Hawk radar; PFC DeWayne G. Sipple of Eaton Rapids, Mich., with 87.3 in the Combat Missile Systems course; Pvt Duane A. J alas of Suterland, Iowa, with 92 in ammunition storage; and PFC Richard L. Rosier of Ironton, Minn., with 93.2 in ammunition records.

AIRLINE ARRANGING REUNIONS

Pan American World Airways has established a procedure to help set up reunions in Hawaii between military personnel enjoying rest and rehabilitation leave from Vietnam and their friends and relatives back home. Previously servicemen en route from Viet-

nam to Honolulu for the rest leave had been waiting in long lines during stopovers in Guam to telephone relatives in the United States.

Under the new system, stewardesses on the line's special rehabilitation flights pass out forms on which the servicemen fill in the dates of their leaves, where they

can be reached and the names and telephone numbers of the persons they wish to be notified in the States. The airlines relays the information to its New York offices. There airline representatives telephone the servicemen's friends or relatives and assist them in getting to Hawaii for a reunion.

Series E Bonds will continue to mature in 7 years and pay 4.15 per cent interest, when held to maturity. Freedom Shares will mature in 4½ years and pay 4.74 per cent interest, when held to maturity.

HAIR CUTS

Crew Cuts	\$1.00
Regular Cuts	\$1.25
Flat Tops	\$1.50

Open 9 a.m. to 7 p.m. 6 days

LUKER'S

BARBER SHOP

Oakwood Shopping Center
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2305 N. PARKWAY PHONE 539-7456

Theater Schedules

Theater No. 1
WED., May 3
 "Strange Bedfellows" (M-YP)
THURS.-FRI., May 4-5
 "For a Few Dollars More" (M)
INCREASED ADMISSION: adults 50c, children 25c.
SAT., May 6
 "The Great British Train Robbery" (M-YP)
SUN.-MON., May 7-8
 "Caprice" (F)
INCREASED ADMISSION: adults 50c, children 25c.
TUES., May 9
 "Ambush Bay" (M-YP)
 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.

Theater No. 2
FRI., May 5
 "Caprice" (F)
INCREASED ADMISSION: adults 50c, children 25c.
SUN., May 7
 "For a Few Dollars More" (M)
INCREASED ADMISSION: adults 50c, children 25c.
TUES., May 9
 "A Covenant with Death" (M)
 One show only at 7:00 p.m.

Drive Safely!

FOREIGN CAR PARTS



2210 Clinton Avenue, W.
 PHONE 536-8528
 Huntsville, Alabama
EMPI - VW Accessories
Koni Shock Absorbers

ALL
HAIRCUTS
\$1.00

SHARP'S
BARBER SHOP

Holiday Plaza
Shopping Center
Corner Jordan Lane
& Bob Wallace

HOURS 8 a.m. to 7 p.m.
All business Appreciated



\$400,000 SELL-OUT

AT THE FORMER TRUCK CITY, INC. LOCATION

601 West Clinton Street

Phone 539-2100

MAY 4th - 5th and 6th

OPEN 9 A.M. TO 9 P.M.

Save Up to 25% on . . .

APPLIANCES and

GOODYEAR TIRES

Prices Also Good at Both Goodyear Stores

REGISTER FOR FREE 12" PORTABLE TV

Nothing to buy, No obligation, Just come by and register.
 TV will be given away Saturday, May 6th at 6 p.m.

FREE COKES AND BALLOONS FOR THE KIDDIES

GOOD YEAR

SERVICE STORES

DOWNTOWN

215 East Clinton — 534-7344

DUNNAVANT'S MALL

1963 Memorial Parkway — Phone 539-9541

Arts and Crafts Specialist Sought

The Special Services Division, Arsenal Support Operations Directorate, Redstone Arsenal, has a vacancy for a Recreation Specialist (Arts and Crafts), GS-5. Salary is \$5,331 per annum.

Applicant selected for this position will be employed on a temporary part-time basis. Under this appointment, the number of hours will be limited to 32 hours per week. Tour of duty can be adjusted to a mutual agreement between selecting supervisor and applicant.

To meet qualification requirements, applicants must have three years of experience, or equivalent education, in such arts and crafts as photography, radio, black and white television, carving, leather craft, painting, ceramics, and model building. Duties of the position involve organizing and providing instructions to heterogeneous groups of United States and NATO troops.

Interested applicants should contact Mrs. Willie Chamberlain, Civilian Personnel Office, Redstone Arsenal, telephone 877-4724.



CHARTER MEMBERS—Seven U. S. Army Missile Command employees, whose accrued sick leave totals accumulatively over 14,000 hours, were recently inaugurated as members of the Research and Development Directorate's new Sick Leave Conservation Club. Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command, presented Achievement Certificates to each of the

new members who, by individually accumulating 2,000 hours or more, became eligible for the exclusive membership. Shown left to right: Gen. Zierdt, Monroe W. Cramer, Walter E. Blackledge, Charles H. Martens, Cleo S. Cason, Frank W. James, John B. Clark and Charles E. Dugas.

SEMINAR ENDS SEASON

The American Society for Quality Control will end the season with a seminar Monday night at 6:30 p.m. at the Russel Erskine Hotel.

Fifteen minute presentations will be made by Bert Parent, John Cannon, Al Steinberg, Bucky Walters.

Steinberg 876-0671 is handling reservations for the dinner. The seminar is scheduled at 8 p.m.

GOING TO VIETNAM

Col. R. C. Marshall, Army District Engineer for the Corps of Engineers at Mobile, will assume command of a Corps of Engineers troop unit in Vietnam in June. He is scheduled to depart from Mobile in early June.

Army orders stated his new assignment as Commanding Officer of the 937th Engineer Group (Combat), based in the central highlands of Vietnam.

The Redstone Rocket — May 3, 1967 Page 13

SHOES FOR IRON HORSES

Red River Depot has the only maintenance shop in the United States performing track and road-wheel repair for tanks and other tracked vehicles. This is the Road-wheel and Track Branch to which scores of depots across the world look for their track needs. Army and Marine track which is produced at Red River rolls across the sand dunes of Jordan, the rice pad-

dies of Vietnam and the hills of Korea. The shop is currently in full swing, working on priority programs in support of America's defense commitments. Working as a well-trained team, Red River's 127 rubber workers—the "blacksmiths of the mechanized era"—are keeping America's tanks well-supplied with a critically needed defense item.





TRADE-INS

at
Reduced Prices

- 1964 AUSTIN HEALEY SPRITE**
Sport Convertible
Reduced **\$995.00**
- 1966 RAMBLER AMERICAN**
2 dr. sedan, radio & heater.
Reduced Special **\$1245.**
- 1961 VW 113**
Sedan, Radio equipped.
\$795.00
- 1961 VW KARMANN GHIA**
Radio equipped.
\$795.00
- 1959 MERCEDES 188**
Sunroof, 4-dr. sedan, newly overhauled engine.
Special—**\$695.00**
- 1960 VW KARMANN GHIA**
Good condition. **\$695.00**
- 1963 CHEV. IMPALA**
4-dr. Sedan, Clean
\$1395.00
- 1965 PLYMOUTH**
Sport Fury, 2-dr., hardtop, solid white. Clean. **\$1695.00**
- 1964 PLYMOUTH**
2-dr., V8, auto. **\$895.00**
- 1959 VW 113 SEDAN**
Mechanically good condition. **\$300.00**

Also Other Fresh Trade-ins to Select from.

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"Huntsville's Only Authorized VW Dealer"
2305 North Parkway
PHONE 539-7454

New Datsuns Are Most Powerful Economy Imports



CLOCKED AT ZERO TO 60 IN 14 SECONDS

Featuring a new 96 horsepower engine, the new 1967 Datsun Sport Sedan and Sport Wagon are the most powerful cars in the economy class. This engine is the same as used in the Datsun Sports Car, which has become a leading contender on racing circuits across the U. S. Also new on the Sport Sedan and Sport Wagon are heavy duty disc brakes on front wheels. These provide extra stopping power to match the new car's "go-power". A 4-speed, all-synchromesh floor shift is standard equipment. Offered as an option is a new Borg-Warner 3-speed Automatic Transmission, which provides a new level of "no-shift" performance in the economy import class.

STANDARD EQUIPMENT

White sidewall tires, heater and defrosters, with 3 speed blower, bucket seats, seat belts, carpeting, vinyl interior, ash trays front and rear, padded dashboard, dual 2-speed windshield wipers, windshield washers, back-up lights, underhood service light, sunvisors, front arm rests, full synchromesh 4-speed floor shift, A. C. alternator, back mirror, lockable fuel cap, coat hangers, deluxe chrome trim and wheel discs, factory undercoating.

ONLY
\$1,896
PORT OF ENTRY

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DATSUN

then decide!

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WANT AD RATES—\$2.50 minimum, per weekly insertion, covering first 25 words. 5 cents per word for all over 25 words. Cash with copy, except where open account basis is previously established. 25c service charge added for credit. Mail copy with payment to Mrs. Vergie Robinson, P. O. Box 346, Room 217 Times Bldg., Huntsville. Deadline is Friday noon, before Wednesday publication.

Page 14 The Redstone Rocket — May 3, 1967

1. For Rent

FOR RENT—One bedroom furnished apt. 2714-7th Ave. \$85.00. One bedroom furnished apt. 1426 Stevens, \$50.00 and \$60.00 furnished Cottage 2321 1/2 Meridian St. \$65.00. Unfurnished house, 6 rooms, \$85.00. Phone 539-4373 — 534-9793 — 539-4003. 5-3-c

WANTED lady room-mate to share 2 bedroom apartment with lady, 881-9179 after 4:30 p.m. 881-2040. 1tc

FOR RENT to girls, 2 bedrooms, one with private—other share bath \$50.00 and \$60.00. Home privileges, 1540 Mountain Brook Drive, Montdale, convenient to arsenal and shopping. Phone 534-8198. 1tc

APARTMENT FOR RENT—Four rooms and bath. Private entrance. Newly decorated. Available now. Phone 353-4218. 1tc



World's Largest Mover
Local and Long Distance Moving
FREE ESTIMATES Phone 539-1742
DECATUR TRANSFER & STORAGE, INC.
2117 Holmes Ave., NW

HERTZ RENTAL TRUCKS AVAILABLE MOVE YOURSELF

WHEEL ALIGNMENT \$4.88

(With This Ad) (Reg. \$6.50 Value)

Fast Service - Expert Wheel Mechanic

All Work Fully Guaranteed

U. S. TIRE SERVICE

Across From Butler High

DIAL 539-3482

Open 7 a.m. to 6 p.m.

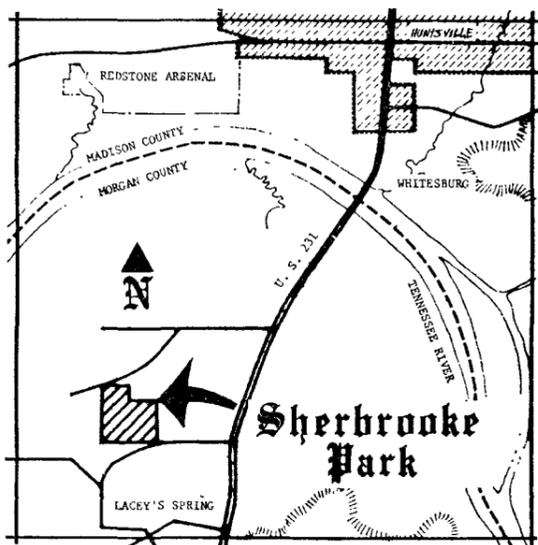
COME SEE . . .

North Alabama's Largest And Most Beautiful Mobile Home Subdivision

Sherbrooke Park

LOTS FOR SALE

1/2 to 1 Acre Lots



Your Map to Better Mobile Home Living . . . Own Your Own Lot.

- Paved Streets
- Curbs & Gutters
- Central Water
- Proposed Shopping Center
- Lighted Streets
- Central Sewer
- Planned Recreation
- Bank Financing

Happiness is Mobile Living . . . Sherbrooke Park is located in Morgan County, Ala. just across the Tennessee River from Huntsville. The subdivision containing over 300 lots has space for a shopping center, parks & playgrounds and boasts conveniences & beauty offered by no other mobile home subdivision in the area. Plenty of fun for everyone . . . close to river where you can enjoy fishing, boating, recreation, etc.

WHY PAY RENT

Investigate Sherbrooke . . . Small Down Payment with Payments As Low As Rent

DIRECTIONS: Go South on Parkway just past Tennessee River bridge turn right . . . Follow Signs to Sherbrooke Park.

For Information Call . . . Bob Pritchett 539-7454
Nights and Weekends 883-1283

2. Cars For Sale

BY OWNER—1962 Volvo P1800, gray with red interior, short wave FM-AM radio, really nice, \$1,300. Phone 852-9653. 1tc

3. Miscellaneous

BARBER WANTED—Part time shop located on Hwy. 72 W. across from Monrouan Restaurant, must be licensed, inquire at shop or phone 859-2069 after 3:30 p.m. 5-3-c

FOR SALE—Gonset G-76 Transceiver with A. C. Power Supply, 6 frequencies, other miscellaneous electronic test equipment. Call 582-4273, Guntersville, Ala. nights and weekends. 4-10-p

CONCRETE WORK, Patios, Walks, Porches, Driveways, Planters etc. Also Garden plowing, tractor work, phone 852-1129 5-24-c

Mockingbird Hill Drapery Shop (Mrs. Glen Lamb) custom made draperies beautiful samples shown in your home at your convenience, expect workmanship "If you're not happy, we're not." Phone 828-4830 1tp

4. Mobile Homes

12 x 43 House Trailer, one year old like new, unfurnished, take over payments of \$58.50 per month, phone 883-1028 after 5:30 or anytime weekends. 1tc

5. Houses, Lots - Sale

SALE—TRADE—LEASE—13 acres with good house, pleasant community, will help finance, phone Union Grove, 753-2583. 1tc

GUNTERSVILLE, Waterfront lots near Sherwood Forrest, Trailers permitted, paved street \$1,000 10% down, easy terms. Ty Dorman Guntersville, Ala. 582-3654. 1tc

Glen Park APARTMENTS

Furnished or Unfurnished
Lovely 2 bedroom, living room, kitchen and ceramic tile bath, including air conditioning and TV outlet. Convenient to schools, churches and shopping.

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SANDHURST \$14,650



100 per cent VA loan, \$87.78 plus taxes and insurance. NO CLOSING COST.

FHA & Conventional loans.

Wall to wall carpet, 3-bedrooms, 1 1/2 baths, built-in range.

Turn right at traffic light at Farley on Green Cove Rd., towards Gate 2.

McFerrin Realty
881-2060 or 883-1931

ACREAGE AND HOUSE FOR SALE—12 1/2 acres of land with house or will sell house separately, located at Scant City, Ala. just off Hwy. 69 on paved road, city water, electric heat, FHA approved \$1,550 down. Call 753-2528 Arab. 1tc

FOR SALE large furnished house and lot slate roof, sheetrock walls, rock wool insulation. Four rental units for income property. Located downtown Guntersville near lake 241 No. Broad. Phone 582-3779. 1tp

BUY EQUITY \$1,050 and assume 5 1/4% G.I. loan 3 bedroom, split-level, 2 baths, central heat and air, attached garage, nice lot 1/2 block to new Grammer School, nice neighborhood, near new GEX and shopping Mall, 2523 Greenhill Dr. N.W. (off Blue Springs Road) phone 852-2063 or 534-4701. 1fnc

FOR SALE—Two 1/2 acre homesites located in Lehigh Acres, near Ft. Myers, Florida. For further details, 582-4273, Guntersville, Ala. nights and weekends. 4-10-p

FOR SALE—4 bedroom Tri-level, central air and heat, built-in kitchen, 3918 Telstar Circle, phone 539-1575 after 4:30. 1tc

Jackson County

320 acres more or less of timberland 18 miles North of Scottsboro just off Hwy. 79 in Hytop community. Abundance of hardwood timber.

Price \$50 Per Acre
100 ACRES

18 miles north of Huntsville, 2 1/2 miles east of Hazel Green on Black Top Highway. This is red land farm. 75 acres in cultivation, 25 acres in pasture, 8 room brick building with all modern conveniences. 4-room tenant dwelling \$55,000.

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OWN YOUR OWN LOT

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2—3 Bedroom Homes 4006 and 4818 Lucerne in beautiful Greenwyke Village (Jones Valley). Both have separate dining, living and family rooms, beautiful fireplaces and double garages. See these! Specialist in Home Building or Additions . . . Home Buildings, Repairing and Remodeling.

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A used car that won't give you gas pains? We have a lot of them.

They're called Volkswagens. And we guarantee them all 100% for the repair or replacement of all major mechanical parts* for 30 days or 1000 miles. Why no gas pains. They still get that legendary VW economy. Just like the new ones.

- engine • transmission
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100%

Guaranteed VW Trade-ins

SEDANS

1966 VW SEDAN

Same as new.

Loaded With Extras \$1695

1965 VW

Air condition sedan, 26,000 miles. Nice, radio. \$1495.

1965 VW 117

AM-FM radio Sunroof \$1445.00

1965 VW 113

Sedan, leatherette interior. \$1295.

1964 VW 113

Sedan, equipped. \$1195.

1964 VW 113 SEDAN

Leatherette interior. \$1145.

1963 VW 113

Sunroof, radio equipped. \$1075.

1963 VW 113 SEDAN

Leatherette, radio. \$1045.

1962 VW 113 SEDAN

Radio, leatherette equipped \$995.00

1962 VW 113 SEDAN

Leatherette .. \$895.00

We Have A Nice Selection of Sedans to Choose from.

GHIAS

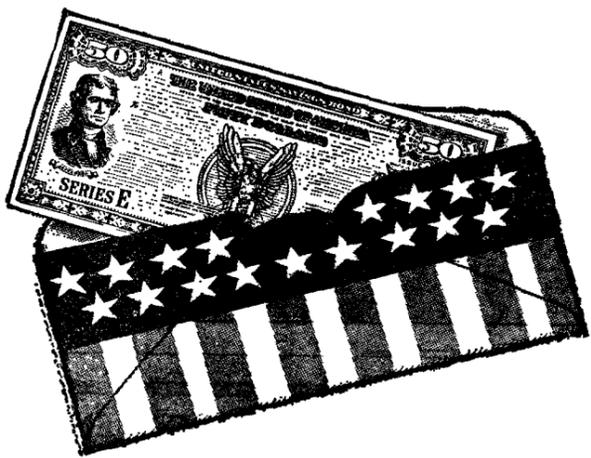


1963 VW GHIA Cpe., AM-FM radio, O'bar muffler. Sharp. \$1375

"Huntsville's Only Authorized VW Dealer."

Universal Motors, Inc.

2305 No. Parkway
Phone 539-7454
OPEN 'TIL 8:00 P.M.
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Star-spangled gift idea

You can put \$50 into someone's future with U. S. Savings Bonds—and the cost is only \$37.50.

You can also be pretty sure your gift will be used for something pretty important. Because most people hang onto their Savings Bonds until something important comes up. Like college tuition, a new baby, and retirement day.

Something else. You give more than money with U. S. Savings Bonds. In a small—but vital—way you give freedom, too. Because Bond dollars do a lot to help Uncle Sam stand tall in this troubled world of ours.

Prices start at just \$18.75 for the \$25 size. Why not give Bonds for special occasions to all those "special" people? Yourself included.

Buy U.S. Savings Bonds

STAR-SPANGLED SAVINGS PLAN
FOR ALL AMERICANS



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SPRING HOUSE CLEANING

Shop Entire Store For Many Items Not Listed In Ad.
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Race Car Sets

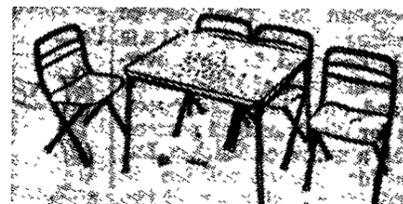
50% OFF

MODEL RACEWAY



TABLE & CHAIR SETS

Was	NOW
24.99	13.88
14.99	10.88
30.49	16.88



Assorted MATTEL DOLLS

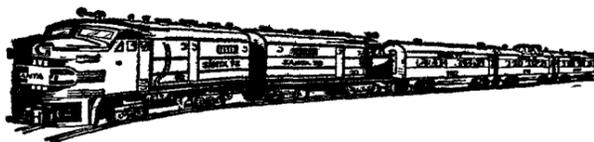
40% OFF

BARBIE & SKIPPER

50% OFF



H. O. TRAIN SETS & ACCESSORIES



40% OFF

G. I. JOE	\$3.99
DOUBLE AGENT	\$5.00
All American FIGHTER	\$2.99
STONEY	\$2.99

1/2 PRICE

Daisy B.B. Guns

40% OFF



One Assorted Group of

TOYS

Reg. \$1.00

44c

ASSORTED DOLLS 40% to 75% OFF

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Mattel Power Shop \$16.88

HEIDA POCKET BOOK DOLLS 97c

TWINKLE DOLL (reg. 3.49) \$1.11

One Group of

GAMES

1/2 PRICE

Mattel — Ideal — Parker Bros. — Milton Bradley

SPRING HORSES 50% OFF

WOODEN SHIP MODELS 40% OFF

CATHA'S TOYS - HOBBIES

Heart of Huntsville Shopping Center
OPEN EVERY NIGHT 'TIL 9

To pay all your bills with one convenient monthly payment...



ASK GAC

for a cash advance

Like to plan ahead... provide for extra spending money every pay period? Here's one way. Add up the bills you're now paying, month after month, and pay them off with cash from GAC. Then make only one budget-fitted payment each month. Chances are, it will be lower than the total you're now paying. Stop in or call.

Looking For Employment Soon?
Here's opportunity for a well-paid future in financing. And GAC has offices from coast to coast. For details ask our local manager or write: GAC - Personnel, 1105 Hamilton St., Allentown, Pa.



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213 Randolph Ave., S.E. Phone 539-5731
3306 Governors Drive, West Phone 539-6566

DECATUR
219 Johnston Street, S.E. Phone 355-0147
Next to Post Office

Equal Opportunities Assistant Will Visit

Redstone Arsenal and Huntsville area industries will be host this month to the Civil Service Commission's Special Assistant for Equal Employment Opportunity.

Anthony M. Rachal, Jr., Special Assistant to CSC Chairman John W. Macy, will spend three days here, climaxing the visit on May 18 with a speech to the monthly meeting of the Association of Huntsville Area Companies.

Starting his visit on May 16, Rachal will meet with the local chapter of the Society for Personnel Administration. On May 17 he will be briefed on and tour facilities of the Army and Marshall Space Flight Center on Redstone Arsenal.

Prime purpose of his visit will be to explain the Civil Service Commissions MUST program which is designed to help overcome the shortage of skilled manpower and offer increased opportunities for disadvantaged persons.

Rachal, a native of Natchez, La., assumed his present position in late 1965, after having served two years as a personnel management specialist with the Department of Labor.

A veteran of World War II, he

holds a bachelor degree from Xavier University and a master's degree from Wayne State University. He served on the faculty and administrative staff of Xavier University for almost 10 years.

METEOROLOGISTS TO MEET

Dr. Oskar Essenwanger, Chief of the Aerophysics Branch of the Army Missile Command's Physical Science Laboratory, will discuss "Climate Classification Past and Present," at tomorrow's meeting of the North Alabama Chapter, American Meteorological Society. The meeting will begin at 7:30 p.m. in the main conference room, Lockheed Corporation, Industrial Park.



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How are you fixed for the future?

Look into U.S. Savings Bonds as a smart place to put your money. And now, Savings Bonds pay 4.15% interest!



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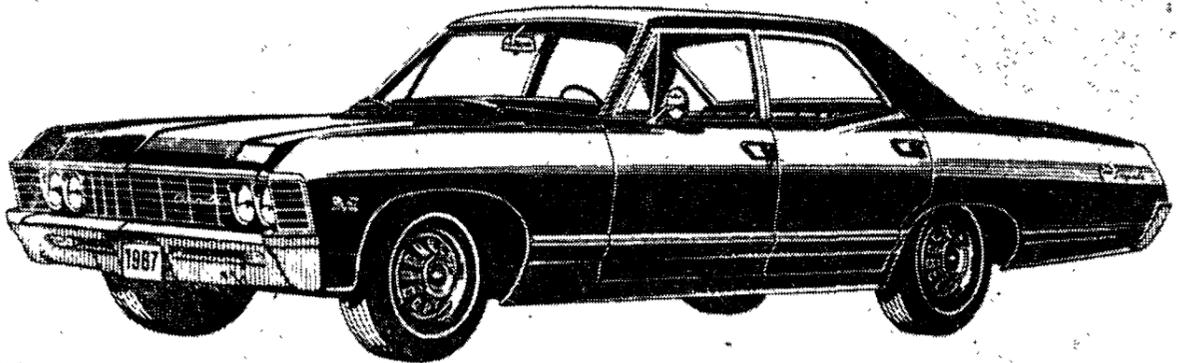


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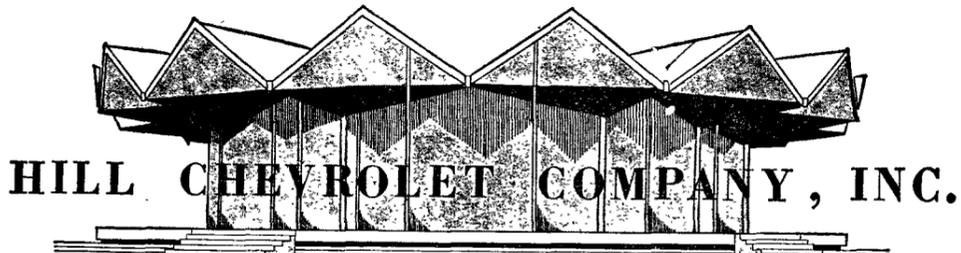
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