

**Arsenal-Wide
Spot News
Dial 112**

The Redstone Rocket

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

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA 35809

JULY 19, 1967

EIFLER TAKES COMMAND

Traditional Ceremonies, Talk To Key Personnel, Business Mark First Day



WORKING STUDENTS—Jean Brazelton (left center) and James Humphrey (right center) summer employees of the Army Missile Command, chat with Maj. Gen. Charles W. Eifler, Commanding General of the Missile Command and Dr. Samuel P. McManus, director of the Summer Lecture Program. Miss Brazelton, from Madison, Ala., a sophomore at the University of Alabama, is working in the Command's Metrology Center. Humphrey, from Savannah, Ga., is employed in the Patent Center. He is a junior at Auburn University. The lecture series is a joint effort of the Army Missile Command and the Marshall Space Flight Center. Monday's session was the first of the lectures for college students and faculty members employed during the summer by the Arsenal agencies.



MAJ. JAN H. VAN GORDER

Maj. Van Gorder Named Corps Liaison Officer To Command And School

Maj. Jan H. Van Gorder has succeeded Lt. Col. John M. Johnson, Jr., as Marine Corps Liaison Officer to the U. S. Army Missile Command and to the U. S. Army Missile and Munitions Center and School.

Col. Johnson is now assigned to Vietnam. He served at the Missile Command for two years.

Maj. Van Gorder comes to North Alabama from the U. S. Navy Post Graduate School at Monterey, California where he earned a Bachelor of Science degree in electronic engineering. He graduated from Iowa State University in 1956 with a degree (See LIAISON on Page 3)

Maj. Gen. Charles W. Eifler took command of the U. S. Army Missile Command Friday morning, obviously pleased to be back at Redstone Arsenal, and assured his key staff personnel: "I haven't changed a bit."

The traditional change of command took less than five minutes. General Eifler accepted the Missile Command flag from Brig. Gen. Clarence C. Harvey, Jr., on the front steps of the headquarters building promptly at 8 a.m.

A few minutes later the general met with key military and civilian officials of his new command and told them he looked forward with anticipation and enthusiasm to the challenge of directing the Army's worldwide missile program.

Just back from 18 months in Vietnam, the general is beginning his third tour of duty at Redstone Arsenal. He was the Missile Command's Deputy Commanding General, Land Combat Systems, from April 1963 until December 1965 and in an earlier tour, commanded the U. S. Army Ordnance Guided Missile School here from July 1959 through August 1961.

General Eifler told his staff that although he left a command of 63,000 troops and about 25,000 civilians who were in active combat support in Vietnam, he considered the Missile Command a challenge of equal magnitude.

"The challenges are different, perhaps more complex, but they are here and they need constant attention. I am sure that I will be fully occupied in my new position," he said.

"Nothing short of quality performance in the field on the part of all users of our weapons, including other services, can be accepted if our missiles are to stay and grow in the Army inventory."

(See GEN. EIFLER on Page 3)

General Eifler Describes Challenges Of Missiles Technology To Students

Missiles may lack the glamor of space exploration but the task facing the Army missile team is every bit as challenging in the opinion of the Missile Command's new commanding general.

Maj. Gen. Charles W. Eifler described that continuing challenge as "real and great" as he welcomed more than 250 summer student employees at the opening of the Fifth Annual Summer Lecture Series.

Gen. Eifler's remarks to the students in MSFC's Morris Auditorium were his first on the record since he assumed command July 14. They came at the opening ses-

sion of the 19-lecture series jointly sponsored by the Missile Command and the Marshall Space Flight Center. The lectures continue on a two-a-week schedule until Aug. 28.

The general emphasized the need for quality performance at all levels of the Army missile team, pointing out that military programs are engaged in a double race, one pushing technology and a second involving tactics and strategy where a counter is sought for each new technological development.

Aiming his remarks at the college students who comprise most

of the summer lecture series attendance, the general urged:

"Whatever your assignment is, do it the best you know how. That's how you prove to others that you are ready to assume additional responsibilities.

"If you are doing something and (See LECTURE on Page 2)

Sudden Flood Engulfs NCO Open Mess Annex

A flash flood which last Tuesday dumped more than two inches of water on Redstone Arsenal during a thirty minute downpour struck hardest at the NCO Club Annex.

Damages to the club were estimated at \$3000, according to SFC Howard Truitt, Club Manager, and his assistant, S/Sgt. William Toridt. Nearly two feet of water inundated the entire club floor.

Elsewhere on the arsenal, accompanying high winds felled a few trees and power service in some areas was temporarily interrupted but was soon returned to service, the Post Engineer's Office reported.

Most of the damage to the NCO

Club Annex was caused to electrical outlets and appliances trapped by the swirling water and mud, Sgt. Toridt said. Caught in the deluge were cigarette machines, juke boxes, amplifiers, bingo prizes and some foodstuffs.

Several of the club employees stood in knee-deep water at one time.

At its peak, flooding caused chairs, tables and boxes to float inside the building, Sgt. Toridt said. One section of wall, located near the bandstand, collapsed under the weight and the entire bandstand drifted several feet from the wall.

When the water had subsided (See FLOOD on Page 3)



ABERDEEN VISITOR—Brig. Gen. James F. Hollinsworth, right, Deputy Commanding General of the Army Test and Evaluation Command, talks with Maj. Gen. Charles W. Eifler, left, Army Missile Command Commanding General, and Brig. Gen. Clarence C. Harvey, Jr., Missile Command Deputy Commanding General, Air Defense Systems. The visiting general, who recently returned from Vietnam to assume his new position at Aberdeen Proving Ground, Md., visited Redstone last week.

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.

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Rocket Ruminations

There is nothing quite so powerful in the world as an idea whose time has come. —Victor Hugo

Welcome Back, Sir!

It is a sincere pleasure to welcome General Eifler back to Redstone Arsenal. The team is happy to have him here, this time as its Commanding General and Top Commander.

Redstone Arsenal has gained considerable status as a recognized center of worldwide Army missile activity since he was first assigned here in 1959. The contributions he personally made to the many achievements which helped bring this about, first as Commandant of the then Army Ordnance Guided Missile School, later as Deputy Commanding General, Land Combat Systems, Army Missile Command, were considerably more than commensurate with the important positions he held.

General Eifler has told us that he has not changed, so we expect him to leave no stone unturned as he shoulders the responsibility for his Command performing its missions and meeting its obligations to the Nation. He will demand of himself and all personnel the same high standards of excellence which have given us the reputation of being the "can-do" team. This is good. We shall continue to be ready for new missions . . . new responsibilities. And, it adds up to job security.

The Missile Command and other Army activities at Redstone appear to have a bright future ahead. General Eifler will have an indelible influence in molding that future. He seems happy about it. We are too.

'Don't Panic' Advice Goes To Graduates

"Don't be the first one to panic in an emergency" was the advice that an Army missile pioneer gave to an international group of graduates from the Army Missile and Munitions Center and School at Redstone Arsenal.

Lt. Col. Presley B. Flowers Jr., chief of the Pershing Division of Army Artillery and Missile School at Fort Sill, Okla., told the 109 students from Denmark, Germany and the U. S. who completed courses in missile and munitions maintenance last Friday, July 10.

The artillery veteran who has trained every Sergeant and Pershing missile unit now deployed in the field said men who fire missiles want their maintenance experts to be as calm as doctors in an emergency when missile systems break down.

Fiery tempers don't help missiles fire, he summed up.

Three graduates won outstanding student plaques of the association of the U. S. Army for averages of 96 or better in their studies.

They were: German Sergeant First Class Werner Krupka of Emsdetten with 97.6 in the Hawk missile course; and Privates Timothy Watson of Columbus, Ohio and Larry Townsend of Oxford, West Va., with 96.3 and 96.0 respectively in the ammunition storage course.

Cited as honor graduates were Sp5 Fredrick N. Moore of Huntsville, Ala., in Nike repair; PFC Dennis L. Paul of Cedar Rapids, Iowa, in Hawk radar; German Staff Sergeant Klaus-Dieter Struwe in Sergeant ballistic missile equipment repair; and Pvt. Larry D. Morey of Hazelton, Iowa, in Ammunition storage.

Student Art To Be Shown At Jetport

High school and college students in this region will have the opportunity to compete in designing panels which will be displayed on the temporary construction wall in the new Huntsville Jetport building. Announcement of the art competition was made today by Jack Dempsey, assistant professor of art at the University of Alabama in Huntsville.

A jury, whose members will be named later, will choose ten winners who will receive \$75.00 each. Prizes will be donated by Huntsville Skycenter, Inc., developers of the terminal complex.

Winners will be selected on the basis of sketches submitted to the jury and will be furnished a 4 ft. by 8 ft. panel and the necessary supplies for final production of their designs.

Full details and rules of the competition will be announced next month.

The jetport will be open for airline service Oct. 29.

LECTURE

(Continued From Page 1)

you don't know why, dig. Don't be afraid to ask questions. Find out."

Gen. Eifler said the summer lecture program was aimed at providing a breadth of knowledge for the students. He described it as a means of better understanding the "inter-relationship of scientific disciplines."

Later in the morning sessions the students were given briefings on the organization and mission of the sponsoring agencies.

Lectures on propellants are scheduled Friday.

NOVELLS PRESENT SHOW

This week's show at the Service Club will be in charge of Marvin Solomon and "The Novells" of Redstone Arsenal.

The Novells have played for many dances in this area and are well known by local club patrons. This group features request numbers.

Showtime is 8:15 p.m. Sunday.

ZERO DEFECTS CORNER



The Missile Command's "Zero Defects Employee-of-the-Month" for July is Grace J. Campbell, Editorial Clerk in the Administrative Services Office, Arsenal Support Operations Directorate.

Mrs. Campbell was recognized for her outstanding Zero Defects achievement in editing and preparing circulars, orders, procedures and various other administrative documents for final publication. These tasks include typing and reviewing material for clarity and suitability, rewriting texts to correct faulty expressions and punctuation, and the elimination of any irrelevant material. During a seven (7) month period, she processed 1,520 documents with an accuracy rate of 99.2%. This accomplishment clearly reflects her keen awareness and desire for attaining perfection.

Mrs. Campbell was selected for the July award from a group of nominees considered by the MICOM Zero Defects Program Council. She was previously presented the Support Command's Zero Defects Achievement Certificate in September 1966 by Colonel J. N. Jean. She has been employed at Redstone Arsenal since October 1956.

An accomplished musician, Mrs. Campbell is church organist at the Fairview United Presbyterian Church. She is married to Coyle Campbell and they have two sons, David and Mark. The Campbells reside in the Plevna Community on Route One, Elora, Tennessee.

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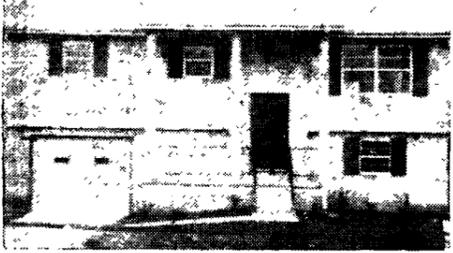
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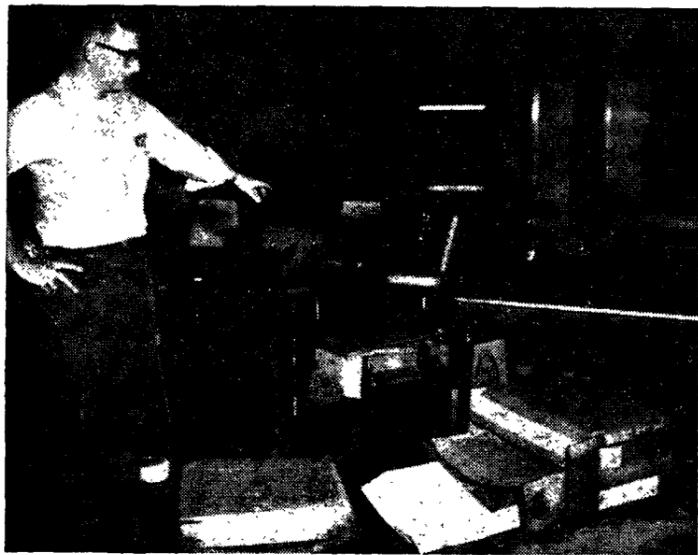
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FLOOD DID THIS—Sgt. Tordt shows some of the debris that littered the floor of the NCO Club Annex after a flash flood last week dumped more than two inches of water on Redstone Arsenal within a thirty minute period. Damages to the club were assessed at \$3000.



WATER WAS THIS DEEP!—Looking at a portion of wall that collapsed under the weight, Sgt. Tordt shows the imprint left by the swirling water and mud. Nearly two feet of water covered the entire floor. At right can be seen a portion of the bandstand that drifted several feet from the wall.

FLOOD

(Continued From Page 1)

late Wednesday morning, the interior of the building was littered with boxes, pieces of electrical equipment, cans, rugs, and mud.

Sgt. Tordt said flooding conditions were caused by water which rushed down from nearby Madkin Mountain and fed into a ditch

guarding the front entrance to the door. With water pouring in faster than it drained off, the ditch overflowed and the onrushing stream poured under the Annex doors.

Sgt. Tordt's car, parked near the building, had water over the license plate, he said.

Redstone Arsenal Bowling Lanes, located near the Club Annex, reported some water seepage into the front of the building but little or no damage was done.

GEN. EIFLER

(Continued From Page 1)

"The proof of the military solution is the performance on the battlefield, not on the missile range."

General Eifler praised his predecessor, Maj. Gen. John G. Zierdt, who retired at the end of June.

He said he thought General Zierdt had built a fine team . . . "a good sound one with great capability. I am indeed fortunate to follow such an able commander, and I shall do my best to smoothly introduce myself into the organization."

"However," he continued, "it would not be accurate to say that things will go on as though no change had taken place. No two commanders fulfill their responsibilities in the same way, you may expect change from time to time."

A native of Altoona, Pa., General Eifler was born December 1, 1914, graduated from Pennsylvania State College in 1936 and received a master's degree in electrical engineering from Massachusetts Institute of Technology in 1948.

Mrs. Eifler has been living in Huntsville while the general was serving in Vietnam. They are expected to move to the Commanding General's Quarters, on post at Redstone soon.

Their son, Charles W. III, graduated from Butler High School in June and will attend the University of Tennessee this fall. A daughter, Mary Elizabeth, is a junior at Penn State University. A second daughter, Mrs. William J. Roberts is currently visiting with the family while her husband is at summer camp.

LIAISON

(Continued From Page 1)

in chemical engineering. The Major has been in the Marine Corps since graduation.

He served at the U. S. Army Artillery and Missile School at Ft. Sill, Oklahoma for three years following an assignment in Okinawa from May 1959 to August 1960.

Maj. Van Gorder is married to the former Miss Beverly Ann McMillan, daughter of D. G. McMillan of Oelwein, Iowa. His parents, Mr. and Mrs. H. C. Van Gorder live at 620 East State Street, Sycamore, Illinois.

Maj. and Mrs. Van Gorder have three sons, Mark, 10; John, 8, and Paul, 5, and a daughter, Carol, 3.

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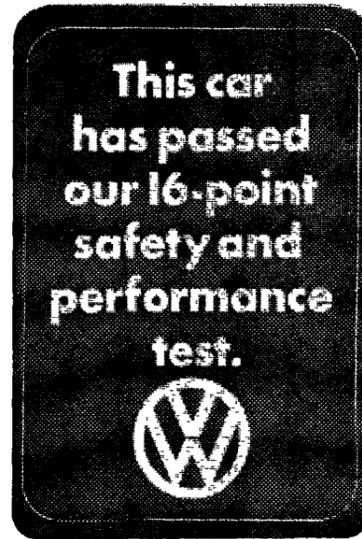
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Wives Meeting Mates In Hawaii Can Fly On Reduced Rates On Three Airlines

Wives of servicemen stationed in Vietnam may now travel at a reduced airline fare to meet their husbands on rest and recreation (R and R) leave in Hawaii, the Department of Army recently announced.

Three airlines—Northwest, Pan American and United—have reduced their fares 25 percent, from \$200 plus tax to \$165 plus tax from the West Coast to Honolulu and return. The reduced fare applies to economy class only, and the round trip from the West Coast to Hawaii must be completed within 15 days.

Servicemen in Vietnam must furnish the proper form to their wives, and may also forward tickets prior to travel. Eligible wives may also purchase tickets and may make reservations at any airline office. To establish eligibility, a copy of the proper form (DD Form 1580) and an identification card (DD Form 1173) must be presented.

Value Engineers Meet Tomorrow

The Redstone Chapter of the American Society of Value Engineers will meet tomorrow night at 6:30 p.m. at El Palacio Restaurant.

Andrew R. Karabinos will talk about Allocation of Resources through Value Engineering. He is with Spaco Inc. in Huntsville.

At the recent national meeting in Chicago, the Redstone Chapter received three of seven national awards.

Reservations for tomorrow's meeting are being handled by Arthur Harvey.

Drive Safely



DECORATE WARD—The Noncommissioned Officers Wives Club redecorated three rooms in the pediatrics ward of the U. S. Army Hospital at Redstone Arsenal. One of the stumbling blocks they met was washability of all items to go into the ward. Toys, furniture and drapes had to meet this acid test before they could be placed in the ward. Chairman for the committee in charge is Mrs. M. Spooner (left) with her is the Club president, Mrs. James Dye.

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Two Women Beat Arsenal Golf Pro, Mac

Last week the members of the Golf Group sponsored by the Redstone Arsenal Officers Wives Club played to beat the club pro, James McClure.

Only two members of the group playing for the "I Beat Mac" buttons walked home with the swag: Irma Wiklund playing in the 18-hole group and Helen Sheran in the 9-hole group.

Low putts were achieved by Blanche Kaiser in the 18-hole group and by Margaret McBrearty in the 9-hole group.

Annual Spragins Tournament Set Next Wednesday

Redstone Arsenal's Officers Wives Golf Group will compete in the annual Spragins tournament on Special Services Course next Wednesday.

The tournament is 18-hole medal play with handicap.

Deadline for entry is Friday. Participants will receive their trophies at lunch on the following Wednesday.

Only members of the Golf Group are eligible to compete.

BRIDGE WINNERS

Mrs. Norman Thompson was the winner among the Thursday Bridge Group sponsored by the Redstone Arsenal Officers Wives Club at the Officers Open Mess

each week. Mrs. MacPherson Morgan was low.

Reservations to play with the group are made by Mrs. Robert Allgeier.

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General Harvey Lauds Father And Son Here

Brig. Gen. C. C. Harvey, Jr. cited a Missile Command civilian employee and his father last week as proof that the "special spirit" of the famous Rainbow Division still lives.

While welcoming the veterans of the division touring Redstone Arsenal Wednesday during their 49th annual reunion, General Harvey told them they had always enjoyed a special standing among the many great Army units.

He attributed this to the "special spirit which always distinguished this outfit . . . You've held on to it and you've passed it on."

General Harvey told of Harold O. Hill, a support coordination specialist in the Supply and Maintenance Directorate, who went back to Vietnam last week as a member of an Army Materiel Command Quick Reaction team, and other MICOM civilians who have volunteered for Vietnam Duty.

About Hill, the general said: "He got back from Vietnam in May. He had been there for 90

days and worked every one of them in a supply depot supporting the 1st Cavalry Division.

"Last week, this man volunteered to go back. Today he left for his second tour in Vietnam. He is a civilian employee remember, not a soldier. No one ordered him to go. He asked to go.

"Someone asked why he wanted to go back. He said this:

"They told me I did a good job before. I think I can help and I want to help. The Hills never waited to be drafted. My daddy enlisted in the Rainbow Division in World War I and fought in France before he was 17. When World War II came he was in his forties, but he joined the Seabees. My brother enlisted then too and I enlisted during Korea."

Hill's father, Harvey, of 2807 Triana Blvd., Huntsville, was in the group of Rainbow Division veterans listening to General Harvey's remarks. The General introduced him to the others, saying: "This man is proof that the spirit that made the Rainbow Division great is being passed on."

Earlier, the large group of veterans and their wives had visited the Army Missile and Munitions Center and School and had received briefings on many Army missile weapons system in addition to activities at the school Wednesday afternoon they toured the Marshall Space Flight Center.



PERSHING IMPROVEMENTS were the center of attention in Orlando Tuesday (July 11) as a delegation of West German Air Force officers visited Martin Marietta Corporation to inspect new equipment being developed here for the Army's most powerful long-range artillery weapon. Discussing a simulated launch they had just observed are, from left: Colonel Edwin Rudd, Army Missile Command Pershing Project Manager; N. D. DePasquale, Martin Marietta Pershing Program Director; Colonel (Dr.) Johann H. Hellmers, Inspector of Air Force Surface-to-Surface Missile Units; Brig. General Hans-Werner Mehlen, Chief of Air Force Staff Operations Directorate, Federal Republic of Germany; and Lt. Colonel Ralf Maus, Chief, Materiel Office, Pershing Weapons System, Federal Republic of Germany.

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Area Soccer Playoff Opens Here On Saturday

Lockheed Tornados Test German Air Force Kickers

Championship soccer will come to the Arsenal on Saturday night when the German Air Force team tackles the Lockheed Tornados, from Marietta, Ga., for the Alabama-Georgia amateur crown. The German players are students at the Missile School.

Arsenal and Huntsville area fans of the world's most popular sport are invited to attend the contest to be played on the Redstone soccer field at 8 p.m. The field is on Patton Road, across from Linton Field and just inside Gate 10.

The two top teams will duel again in Marietta August 6th. Plans are being made for a date and location if a playoff game is needed.

The German and Birmingham teams were co-champions of the Alabama Amateur Soccer League with 4-2 records. Tuskegee Institute and Ft. McClellan rounded out the standings, both with 1-5 marks.

The Alabama Amateur Soccer League was formed in February by a native Scotsman, Dr. M. B. Quigley of Birmingham. According to officials, at least two "big-name" schools, the University of Alabama and Auburn have expressed interest in fielding teams next year.

The German squad was formed when their first students began missile training at MMCS in 1959. Last year, they compiled a 20-1 record against teams throughout the Southeast and Midwest. During league competition this season, they lost only to Birmingham and Tuskegee.

The Lockheed team from Marietta comes to Huntsville with a 11-1-1 record. They've defeated such teams as the University of Georgia, Georgia Tech, Atlanta, University

of Tennessee and Birmingham.

The Lockheed team was defeated by the German Air Force 7-1 in a July 1966 exhibition match. However, "Tornado" team secretary, Collin Pollard says the Lockheed squad has been almost completely revamped with players who have come to Marietta from Lockheed plants in England and Ireland for the company's international industrial training program.

Youths Honored As Season Ends

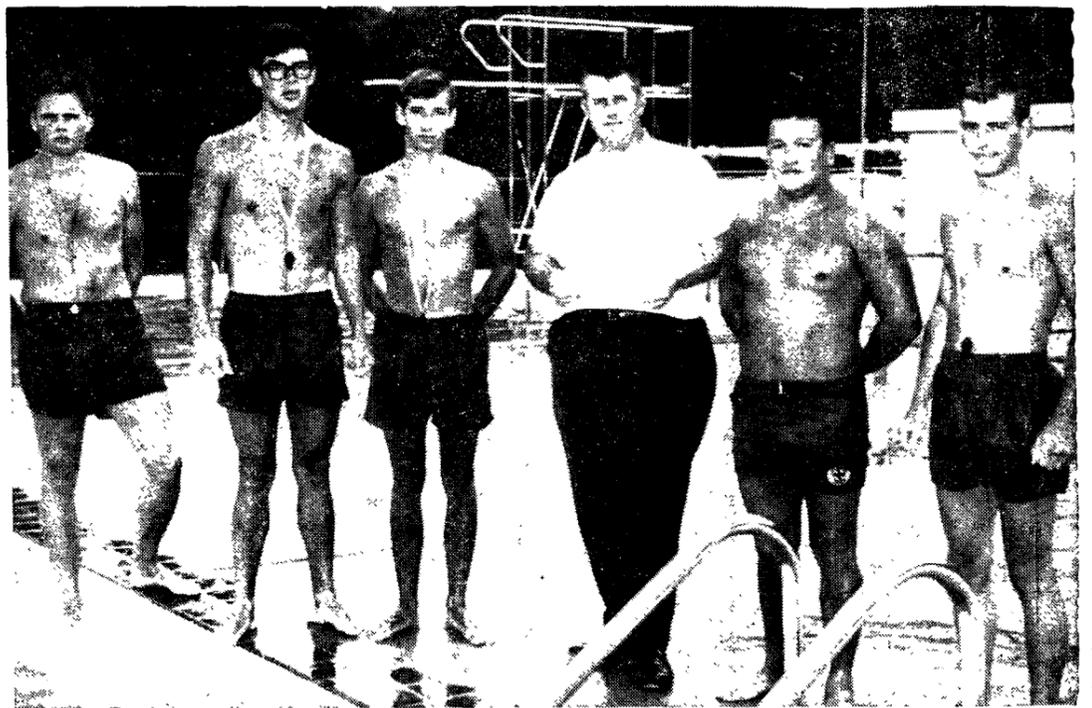
The 1967 Redstone Arsenal Little League season was concluded on July 12 with the annual league banquet held at the Officers Open Mess. Almost 100 Little Leaguers and their parents were in attendance for the banquet and presentation of awards.

Joining with the Little Leaguers for the annual event were the boys that performed for the Redstone Babe Ruth League team.

Each boy was presented a trophy in recognition of their play by the manager of their team.

The Ajax swept both halves of the Little League season, winning 18 out of their 20 games. Maj. Duane Ready managed the championship nine with Capt. Larry Sparks as his chief aide.

The Nikes captured runner up honors for the first round with the Rocket gaining second place during the last half. The remainder of the six-team loop was made up of the Hawks, Hercs and Sprints.



SWIMMING INSTRUCTORS—The Special Services Office has scheduled swimming and water safety instructions for all age groups during the summer months at the enlisted pool and the Madkin Mountain Recreation area. Instructors for the training are the above pictured enlisted personnel shown as they received their Red Cross certifications after completing a 17-hour water safety training course. They are, left to right, Steve Wix, Jerry Hendrix, Kent Ramsey, Lon Andrews, the Red Cross representative, Selso Garces and Gary Sturts.

MICOM Netters Take On Northrop

Still nursing their wounds suffered at the hands of the Lockheed netmen, the Missile Command racket swingers hope to get back on the winning trail this week with a match against Northrop.

After taking consecutive 6-3 wins over Computer Sciences and Sperry Rand, MICOM was only able to take one match in going down to an 8-1 loss to the powerful Lockheed team in Huntsville Industrial League play.

Malcolm O'Neil continues to hold the top rung of the MICOM tennis ladder and will be the Command's top hope in the match with Northrop. O'Neil will play the No. 1 singles match and team with Bill Woodward in one of the doubles sets. The O'Neil-Woodward duo scored the only MICOM point against Lockheed.

Irv Kellogg, Joe Hiatt, Gary Brown, Jim Patterson and Jim Daily are slated for singles play against Northrop. Kellogg and Hiatt form the No. 2 doubles team with George Bush teaming with either Patterson or Tom Grubbs for the final match.

Margaret Stagner became the first woman netter to join the ladder and in two weeks she has risen all the way to the No. 9 spot,

REDSTONE HOSTS AREA LL TOURNEY

A trip to the Little League World Series is in the back of the minds of fifteen Arsenal dependent youths as they get ready to play host to the opening round of tournament action tomorrow evening.

They are the boys who won places on the Redstone League All-Stars at the close of the regular

and gives every indication of going higher.

A student at Southern Illinois University, Margaret is working as a mathematician in Computation Center this summer.

season schedule last week. They will get their first taste of tournament play in the opening game of the area tournament being staged for the first time at the Arsenal diamond on Goss Road.

Huntsville's International League All-Stars will provide the opposition for the Redstone youths in the 5 p.m. opener with the Southern League meeting the American League two hours later.

The losers of the Thursday night games will clash at seven on Friday evening with the two winners meeting for the area championship at nine. The winner of the final game will advance to district tournament play next week.

MSGT William Steele is manager of the Redstone All-Stars with SFC Ernie Williams as his assistant.



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All flights via Southern to Atlanta, Delta Jets to Florida. Add tax to fares.



DASO, D Co. Continue In Division B Deadlock

The rain let up long enough for the Unit Level Softball league to get in one evening of action last week with the two B Division co-leaders hanging up wins to continue their deadlock.

The Support Operations Directorate dealt out a 12-1 lacing to the Student Officers while D Company rode a second inning home run by Rick Gonzalez to a 1-0 squeaker over B Company.

The Officers took a 15-1 decision from 5th ETC and the 3rd ETC mauled 9th ETC, 19-5, in the only other games played.

The Military Police continue to lead the A Division despite being idle for more than two weeks. The guards have raced to 18 straight wins following a loss in their season's opener.

Fred Helmer tossed five perfect innings and Bill Garner finished up a three-hit job and the DASO hitters put together a 13-hit attack in the win over the Student Officers.

Chuck Dabbs collected three hits including a homer, and Tome Haley and Joe Beaver hit safely twice apiece in leading the attack. The Divisional co-leaders put the game out of reach in the very first inning with a five-run outburst.

Gene Cagle and Dan Baker hooked up in a tight mound duel as B Company tried to side track the D Company pennant hopes. Each of the right handers were touched for four safe hits and each sent ten would be hitters down

on strikes.

But Baker had the misfortune of seeing Gonzalez send one of his pitches over the left field fence, accounting for the only run of the game.

Jim Bochnowski delivered four straight hits, including a homer and a double, and Randy McKee limited the 5th ETC in four well scattered safeties for the win by the Officers.

The win was the seventeenth for the Officers against three losses and kept alive their hopes for catching the flying Policemen in A Division.

Thiokol Engineers To Present Papers

Engineers of Thiokol Chemical Corporation—Huntsville Division, will present two technical papers at the American Institute of Aeronautics & Astronautics Third Propulsion Joint Specialist Conference in Washington, D.C., July 17-21, 1967.

They are "Effect of Acceleration on the Burning Rate of Composite Propellants," by R. L. Glick, B. K. Hodge, and L. H. Caveny; and "Experimental Investigation of Ducted Rocket Performance Characteristics," by J. W. Lee, T. F. Owens, and G. P. Roys.

Road Runners Lead Into Home Stretch

The Road Runners take a five point lead into the final three nights of the Redstone Summer Ladies bowling league with four teams in hot pursuit of the runner up position.

The Go Go Girls have 28 points one more than the Hot Tamale and the Odd Balls. The Go Getters are resting in fifth one more point off the pace.

Ann Wiener has a lock on most of the individual honors having accounted for the best scratch series, the top game without handicap and the leading individual average. Ann's 176 per game average included a 245 game and a 604 series.

Doris Pound accounted for the best handicapped series, a 689, and

Sandra Wordell's 266 is the best second in the average race with game with handicap in the league. 158, two pins better than Doris Mercy Villanueva is a distant pound.

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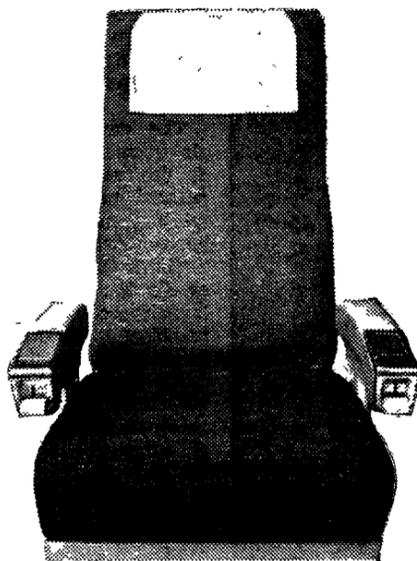
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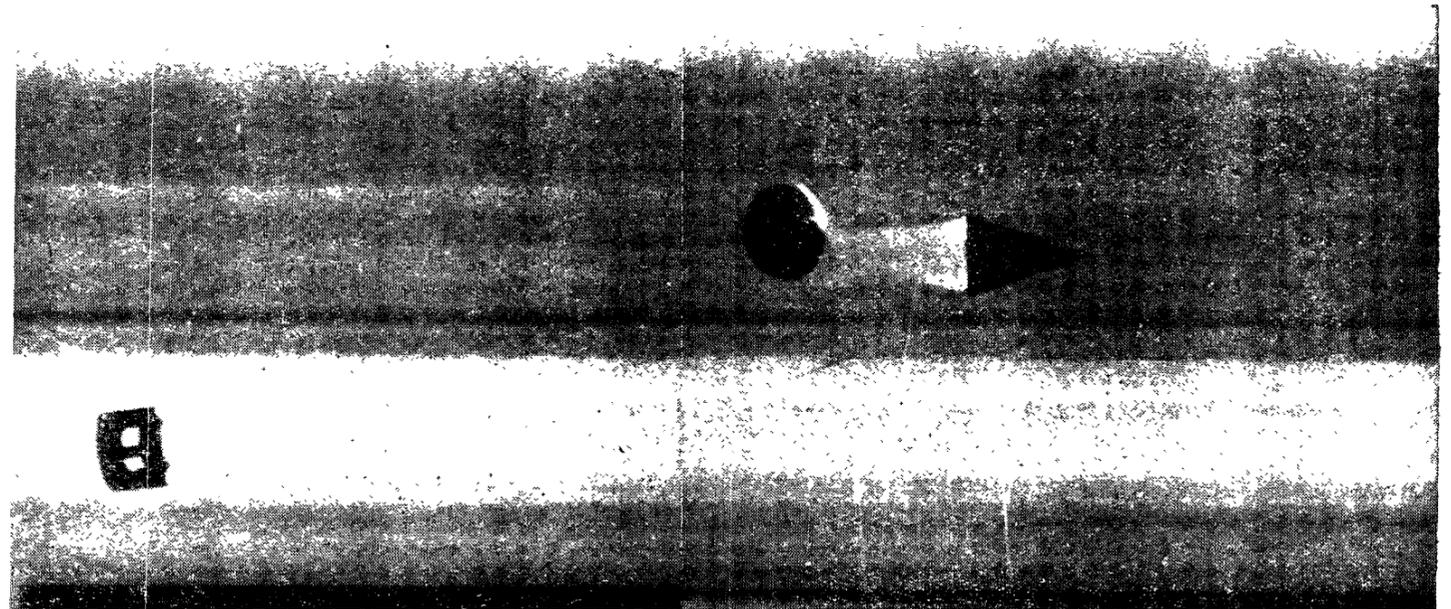
During the past year, Army Missile Command engineers have been firing missiles from a giant cannon.

Technically speaking, the missiles are forebody configurations, not to be confused with sophisticated missiles jammed full of complex electronic gear.

It's a part of an inhouse research program called LAHIVE which is being performed by the Structures and Mechanics Laboratory of the Missile Command's Research and Development Directorate.

"LAHIVE" according to Noah Hurst, an aerospace research engineer in the laboratory's Stress and Thermodynamics Branch, "is an acronym for Low Altitude, High Velocity Experiments. The primary purpose of the program is to gather information on in-flight aerodynamic heating under 'true' flight conditions near sea level and at velocities up to 8,000 feet per second," he added.

Much of the data being accumulated in the firing program is filling a knowledge void heretofore bridged only by theoretical computations. By comparing test results



IN-FLIGHT PHOTO—The sharp-nosed projectile approximately 200 feet from the muzzle of the cannon at a velocity of almost 7,000

feet per second. The round object directly behind the projectile is the pusher plate. At lower left is a portion of the sabot.

with theory, the engineers can determine just how good present methods are in missile design from a thermal standpoint.

Verne, a turn-of-the century science fiction writer is probably best known for his submarine yarn, "Twenty Thousand Leagues Under the Sea," but he was also interested in space flight. In one of his books, he used a 900 foot long cannon with a bore of 9 feet to launch a moon rocket.

Although scaled down somewhat from Verne's monster, the gun being used today up at Highwater, Canada, is still a pretty impressive piece of artillery.

Its 120-foot-long tube is the result of mating two 16.5 inch diameter naval guns. Using a powder charge weighing from 800 to 950 pounds, the gun fires the LAHIVE vehicles, with their associated equipment, weighing anywhere from 240 to 300 pounds.

These cone-shaped vehicles are the first large missile configurations "flown" from a gun, according to Hurst.

To date, there have been 10 firings. Their purpose has been to establish the adequacy of the test structures and to develop a suitable measuring and sending system for the known standards.

"One of the most attractive features of using the large gun in missile configuration testing is its economy over conventional rocket propulsion methods," Hurst explained.

"In addition, high velocities are reached in an extremely short time," he said. "This means the vehicle structure is relatively cool at peak velocity which permits information to be obtained before heating degrades the structure and its temperature sensitive equipment."

The gun launching technique also permits the use of bare metal as the vehicle skin. This, Hurst pointed out, is conducive to obtaining meaningful aerodynamic heating data.

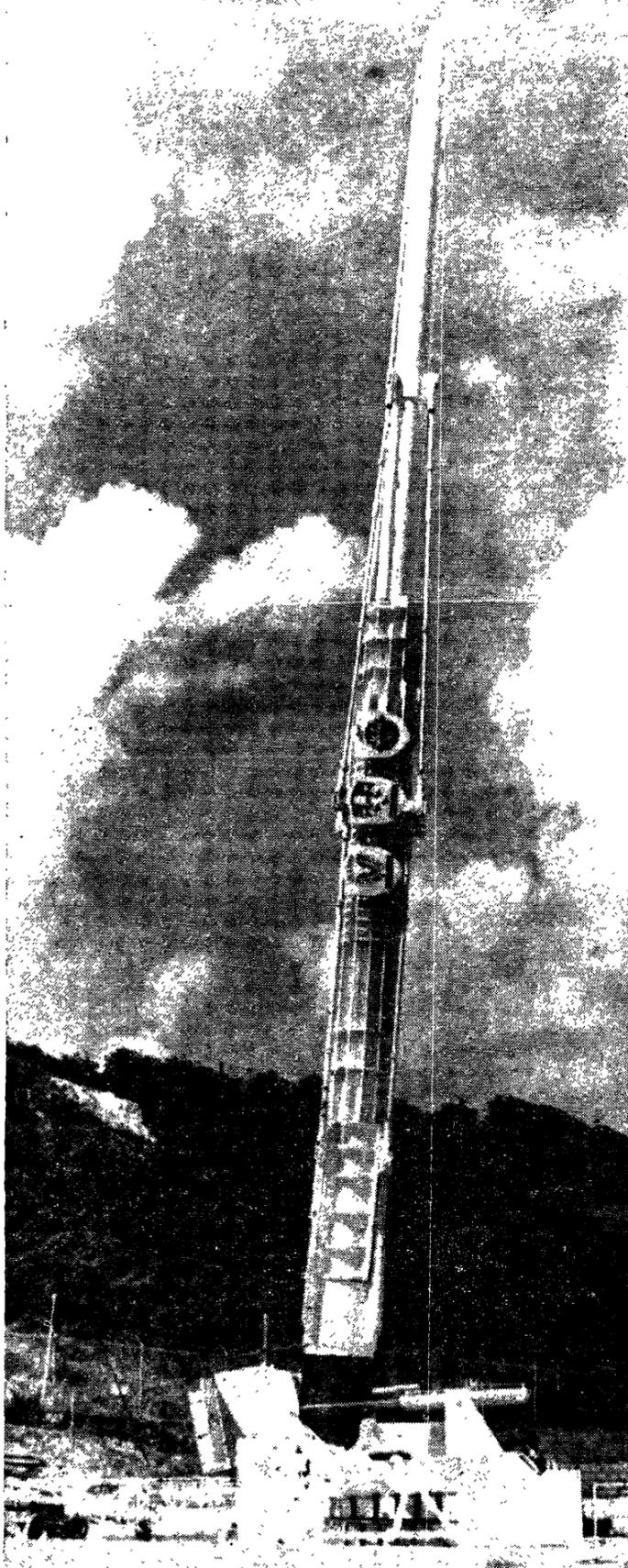
That's the plus side of the ledger. On the minus side is the high launch acceleration — sometimes reaching 15,000 g's—which imposes severe restrictions on telemetry equipment, sensors, and the vehicle structure.

However, based on the number of successful flights achieved in the program, the problems can be solved, Hurst predicted.

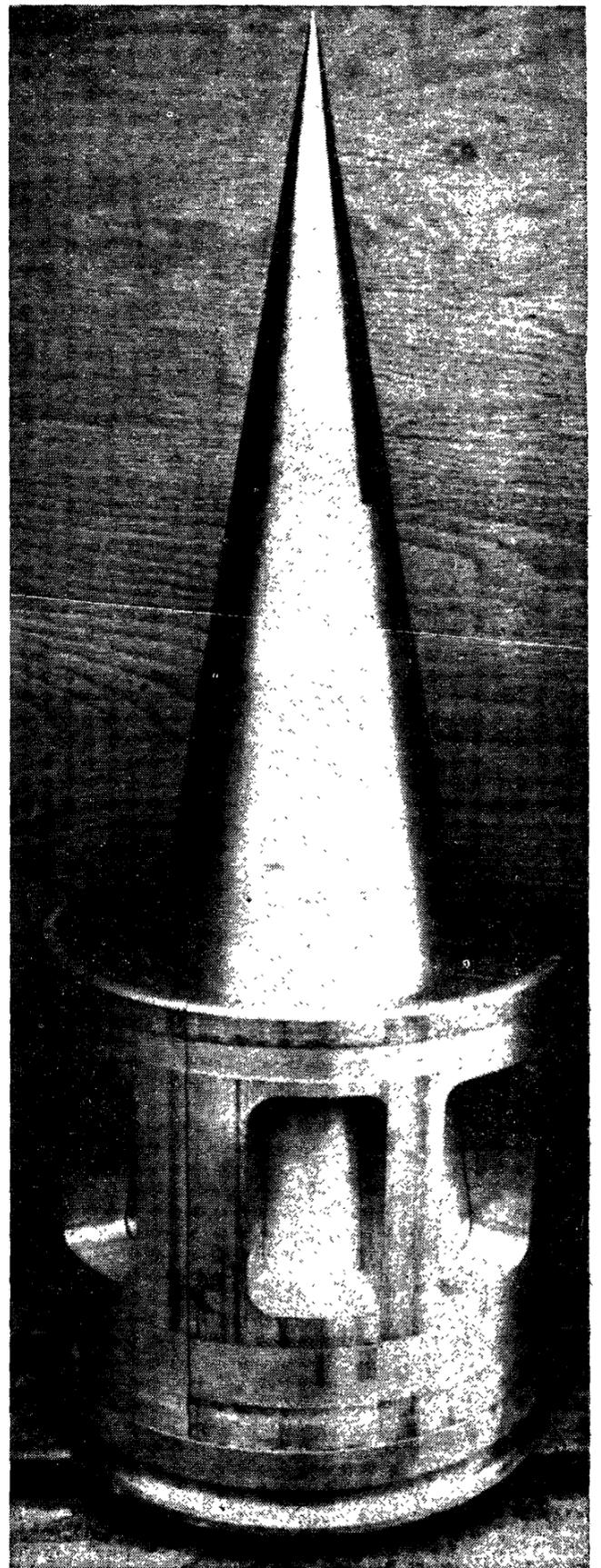
Fully instrumented flights are expected to begin by early summer of this year at either Yuma Proving Ground, Ariz., or Barbados Island in the West Indies.

Design of the vehicle and the analytical work associated with

the program is being done by the Structures and Mechanics Laboratory. Fabrication and test firing of the vehicle is being handled for the lab by the Space Research Institute of McGill University, Montreal, Canada.



IMPRESSIVE ARTILLERY—Shown here with its snout pointed almost straight up is the giant cannon being used in an investigation of aerodynamic heating at low altitudes and high velocities. The 120-foot long gun is the result of mating two 16.5 in diameter naval guns. The research program, called LAHIVE, is being conducted by engineers of the U. S. Army Missile Command.



LAHIVE VEHICLE—Sharp-nosed projectile represents a missile forebody configuration. At the base of the vehicle is the sabot and pusher plate which separate from the vehicle once in flight.

Theatre Schedule

WED., July 19
 "The 25th Hour" (M-YP)
 THUR.-FRI., July 20-21
 "The Bobo" (M)
 INCREASED ADMISSION: adults 50c children 25c
 SAT., July 22
 "The One Eyed Soldiers" (M-YP)
 SUN.-MON., July 23-24
 "A Man for all Seasons" (F)
 INCREASED ADMISSION: adults 75c, children 25c
 TUE., July 25
 "The Cool Ones" (F)
 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.

GENERAL'S FIRST DAY



TRADITIONAL CEREMONY—Maj. Gen. Charles W. Eifler accepts the flag of his Command from Sergeant Major John Monger during the ceremonies on the front steps of the Army Missile Command Headquarters Friday morning.



WELCOME BACK—The Administrative Office chief for the Army Missile Command, Fred Babes, was on hand to welcome Gen. Eifler as the new CG. . .



REPRESENTATIVE GREETING—Col. Nils Bengtson, Director of Research and Development, is among the military greeting Gen. Eifler following his speech to key personnel at the top of his first day as Missile Command CG.

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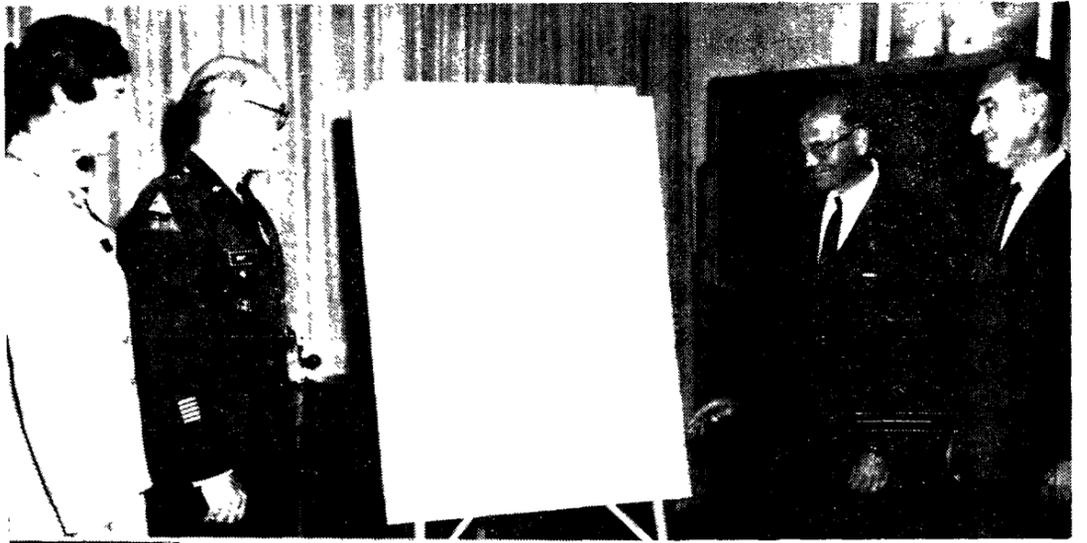


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PRESENTS CHECK—Chaplain (Maj.) Robert L. Johnston (right) presents a \$75 check to Mrs. (Maj.) Robert L. White, representing the commanding officer of the Huntsville Salvation Army. Chaplain Johnston, Post Chaplain at Redstone Arsenal, turned over the offerings received during the recent Vacation Church School program at the Chapel. In addition to the money, the children attending the school donated toys for the underprivileged children in the area. These also were distributed through the Salvation Army.



MANPOWER VISITORS—Brigadier General Edward A. Bailey (second from left), Director of Personnel and Training at Headquarters, U. S. Army Materiel Command and Norman Brandt (right) Chief of the Civilian Personnel Division there visited the U. S. Army Missile Command last week (July 11-12) to discuss manpower and personnel problem areas throughout the Missile Command. Lieutenant Colonel Esther M. Effengham, Chief, Personnel and Training Office, and Romolo Laurenzi, Chief, Manpower for the Missile Command presented the overall picture at Redstone Arsenal before the two were introduced to key individuals in the Missile Command and the Nike-X Project.

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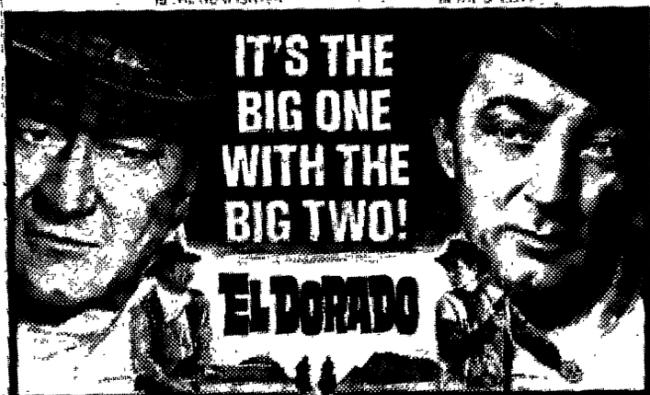
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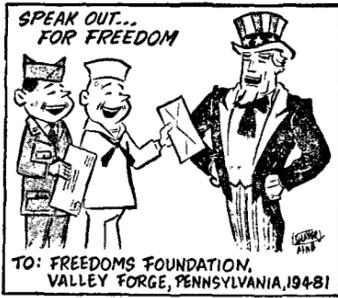
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School Troops Turn Out As Blood Donors Here

The Redstone Rocket — July 19, 1967 Page 11



AIDS CHIEF CITED—Years of supervising the design and fabrication of thousands of ingenious models, slides, graphs and charts that made the Missile and Munitions Center and School one of the Army's most advanced teaching institutions has earned the Meritorious Civilian Service Award for C. J. Markvart. Here Markvart, (left), Director of the MMCS Training Aids Department, is presented the award by Col. Erwin M. Graham, School Commandant.

A record-breaking blood drive has been held at the U. S. Army Missile and Munitions Center and School at Redstone Arsenal, Alabama with some unexpected results.

Students from missile and ammunition courses who are assigned to the Second Battalion of School Troop Command were asked to donate a pint of blood to the banks of the local Red Cross whose supply was running short.

More than 85% of the Command (389 of 409 eligible to give) donated blood. This does not include those who volunteered to give but who did not meet medical qualifications.

The motives and the feelings of the men who donated blood were varied, but one man, PFC Morris S. Tomlinson of the 7th Enlisted Training Company, summed them up: "I understand they need the blood for Vietnam, and I want to help all I can. The way I see it, I may be over there someday and need that pint of blood." Tomlinson's ETC had the highest rate of participation in the drive. Ninety percent of the men in the 7th gave their blood.

Drive Safely



SOOTHING HAND—Red Cross Volunteer Peggy Kuykendall checks PFC Morris S. Tomlinson, Jr., to be sure he is comfortable on the blood donor table during the mass turnout of troops from the Missile and Munitions Center and School. PFC Tomlinson represents the men who are giving now to the Red Cross Bloodmobile so that supplies won't run low . . . here or in Vietnam.

Deaths

Three employees of the U. S. Army Missile Command died last week.

DAVID A. SIMS

David A. Sims, 45, assistant to the Redstone Arsenal commissary officer, died at the Veteran's Hospital in Nashville on Sunday, July 9. His death followed a lingering illness of almost a year.

Funeral services were held in Athens on Wednesday.

Mr. Sims had accepted the position with the commissary late in 1963 after having retired from the Air Force.

RALPH S. JONES

Ralph S. Jones, an employee of the Computation Center for the past four years, died suddenly after suffering a heart attack on Tuesday, July 11.

Funeral services were conducted on Friday in New Albany, Miss.

Mr. Jones had worked that day in his position as day shift supervisor of digital operations. He suffered the attack at his home in Huntsville in the evening and died on the way to the hospital.

Survivors include the widow, Polly, an employee of the Supply and Maintenance Directorate, and three children.

WALTER J. LANDES

Funeral services were held in Cullman last Wednesday for Walter J. Landes, an employee of the Supply and Maintenance Directorate, who died following a heart attack.

A veteran of 27 years military and civilian service, Mr. Landes was deputy chief of the Major Item Division of the National Maintenance Point at the time of his death. He came to Redstone in 1958 from the White Sands Missile Range.

He worked as a logistician in the Installation and Services Office until transferring to Supply and Maintenance three years ago.

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Provost Marshal Asks Help From All Citizens

The Provost Marshal at Redstone Arsenal is campaigning to stir up the citizenry in the same manner as police departments across the country are encouraging all average citizens to participate in crime prevention.

Lt. Col. W. J. McClain launched his campaign quietly in June. "No police department asks a citizen to do a policeman's job," he said. "Instead, the citizen is encouraged to let the police (whether civil or military) know when something suspicious is happening. A call to the local police—at Redstone Arsenal the 291st Military Police Desk Sergeant at 876-2222—may thwart a potential wrongdoer."

A figure on the petty thievery rate at Redstone Arsenal is not available, but the incidence has been reportedly low.

However, in the past few months, rate of incidence in this area has increased. One of the simplest ways to thwart a thief, authorities say, is to leave him without fuel or temptation.

Some of the tips offered include: Locked cars with nothing of value visible inside are tempting to no one but a professional car thief.

In the office, valuables in unlocked desks tempt visitors and employees who might have occasion to search for standard office items such as paper and pencils.

Barracks dwellers are issued a special warning by the authorities: a mattress or pillow may be a traditional hiding place, but a locked locker is safer when the owner leaves the area for a shower, chow or recreation where his wallet won't be needed.

Director Of Training Visits Supply And Maintenance

The New Equipment Training Division of the Supply and Maintenance Directorate hosted a three-day visit to the Missile Command last week by the Army Materiel Command's newly assigned Director of Training.

Col. Vernon Ramberg's specific area of interest for his initial visit to the Missile Command was the new equipment training mission assigned to the Division, a component of the National Maintenance Point.

As Chief of Training, Col. Ramberg has the staff responsibility for the total military and civilian training of personnel for Headquarters, Army Materiel Command, and the subordinate commands.

Included in his area of responsibility are the Army's Logistic Management Center, at Ft. Lee, Va., the Army's Management Engineering Training Agency, at Rock Island, Ill., and the Joint Military Packaging Training Center, which is located at Aberdeen Proving Ground, Md.

Col. Ramberg is also responsible for the initial training on all new and modified equipment developed by the Materiel Command.

Design of Experiments Short Course At UAH

A short course in "Design of Experiments" will be held at the University of Alabama Huntsville Campus, September 11-15, 1967.

This course will present an account of modern theory and methods related to the design of engineering experiments. It is intended to increase the practicing engineer and physical scientist's effectiveness by providing him an approach to experimental testing activities. Participants should have a good working knowledge of basic

statistics—whether it is lights in a vacationing neighbors house, someone tampering with something that is obviously government property or a purse-snatcher sprinting for a hideaway. The motto is. If it looks wrong, report it!

statistical concepts.

Enrollment in this program may be made by individuals or companies. It is necessary that applications be made early since enrollment is limited. For further information contact Conference Activities Department; University of Alabama Huntsville Campus; P. O. Box 1247; Huntsville, Alabama

35807. Telephone 837-4700, Extension 321, 322.

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Acoustics Course To Be Offered

A short course in "Acoustics" will be offered by the University of Alabama Huntsville campus, September 25-29, 1967.

The purpose of this program is to present a broad outline on the introduction to the sciences of acoustics and its application to problems in the aerospace and related industries.

The course is intended for scien-

tists and engineers in research, development, or testing related to or involving acoustics. Persons wishing to revitalize, extend or deepen their knowledge of modern acoustics may also be interested in this course. A bachelor's degree in Engineering or physical science or the equivalent is the necessary prerequisite.

The coordinator of the course will be John Woo, Jr. He is Senior Research Engineer in acoustics at Lockheed Missile and Space Company, Huntsville.

Enrollment may be made by individuals or companies. How-

Four Study New Aircraft

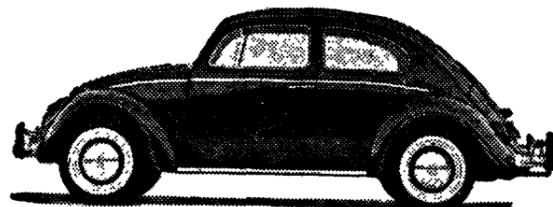
Four men from the Army Missile Command and the Army Missile and Munitions Center and School attended a week-long familiarization course on the AH-56A Cheyenne helicopter at the Lockheed-California Company in Van Nuys.

They are Paul R. Bungard, Fred J. Steinman, Thomas H. Williams and Thomas T. Williams.

Initial flight of the 250-mile per hour Cheyenne is scheduled later this year. It is designed to escort troop-carrying helicopters and to provide suppressive fire in combat landing zones.

ever, it is necessary to register early since participants will be limited to the first 40 applicants. For further information, contact the Conference Activities Department; University of Alabama Huntsville Campus; P. O. Box 1247; Huntsville, Alabama 35807. Telephone 837-4700, extension 321, 322.

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Page 14 The Redstone Rocket — July 19, 1967

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FOR RENT—Brick house with 3 bedrooms, carpeted living room, 2 complete baths, built-in kitchen, dishwasher and carport. Near Arsenal, Research Park and University of Alabama. Call 852-1301. 7-19-p

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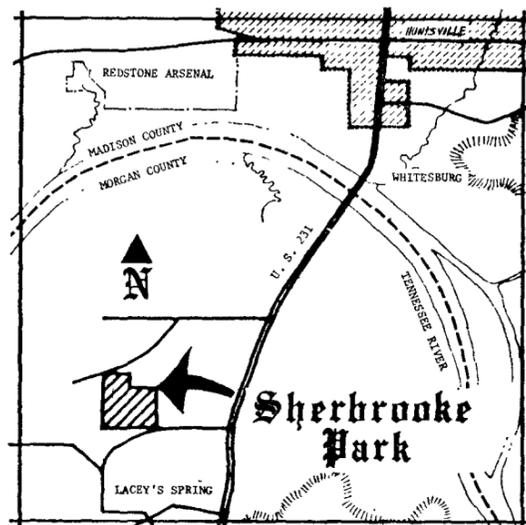
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Mr. King purchased these Wisconsin Holstein cattle as 3 weeks old calves and raised them on his farm and climatized them to this section of the country. 30 head of these cattle will start calving in August and will calve during August and September. They will be good replacement heifers to put in your herd this fall when you are building your base for next year. They are all big boned and are as excellent Holstein heifers as you will find anywhere. These cattle are all bred to a registered Angus bull and will calve when you need milk the most. Health papers will be furnished for each animal. They will be TV and bangs tested prior to the sale.

If you are looking for replacement heifers that you can add to your herd, be sure and attend the auction sale at the Limestone County Stockyard July 22 at 10:32 a.m. Mr. John W. King, owner, is well known throughout the south because of his experience with dairy cattle, since he has been in the business many years. These cattle are out of some of the top herds of Wisconsin.

They are the kind of cattle that will fit into any kind of herd in the southeast; and they are bred for production. Everything goes for the high, high dollar. Your bid will be our bid.

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Sprint Mover Is Tractor-Trailer With Tower

A 53-foot long tractor-trailer surmounted by a 25-foot tall vertical tower has been designed to transport the Army's Sprint anti-missile missile from its assembly building to its launching cell and is currently undergoing tests at the Sunnyvale, Calif., plant of the Westinghouse Corp.

The tower will allow the 27-foot missile to be transported upright and loaded directly into its cell.

The Sprint is one of two interceptor missiles being developed

for the Army's Nike-X missile defense system. The Nike-X Project Office released details on the big missile mover.

Among other things, it will be equipped with electronic gear which can take the Sprint's pulse once it is in the cell to determine if there are any troubles in its circuitry.

Three prototypes are being manufactured by Westinghouse under contract to the Martin Marietta Corp., at Orlando, Fla., which is developing the Sprint.

The first model is scheduled to be delivered to Martin Marietta about the end of the year. Westinghouse received a \$1,477,115 contract in April of 1966 for design, construction and testing of the vehicles which are based on a standard commercial tractor and a special trailer. However, the distance between the commercial tractor's wheels was widened to give service vehicle a track width of 10 feet—and a straddle-legged appearance.

The widening was done to allow

the service vehicle to be drawn over the Sprint launching cells. Another unique feature of the service vehicle will be a 9-foot hole in the trailer bed. The Sprint will be hoisted into the trailer and lowered into the cell through this aperture.

Present plans call for the service vehicle crew to drive atop the Sprint assembly building, remove an access cover and hoist the fully assembled missile nose first up into the trailer. The inside of the trailer will be environmentally controlled and the environment will be maintained while in transit to the launching area.

Once at the cell area the service vehicle will be driven over the selected launching cell. A lifting device under the trailer will remove the cell's 1600 pound "fly-through" cover and the Sprint will

be lowered into place.

A curtain mounted on the bottom of the service vehicle will maintain its air conditioned environment which the Sprint is being lowered from the trailer into the cell.

William F. Graves, Chief of the Nike-X Missiles Branch, and C. F. Quarles who is in charge of the service vehicle development, say the vehicle will be used for Sprint testing and maintenance as well as cell loading and unloading operations.

Electronic test equipment in the trailer will tell technicians whether a fault is in the missile itself or in circuits located in the cell.

Project officials say the vehicle will be used exclusively on test sites and on operational sites in the event of a Nike-X deployment decision.



ANTI-MISSILE MISSILE TRANSPORTER—The Army's Nike-X Project Office released this photo of a service vehicle being developed for the Sprint anti-missile missile. The vehicle, slightly over 50 feet in length, will be used to transport the missile from its assembly building to the launching cell in a controlled environment. Twenty five foot tower atop the trailer will allow the missile to be transported upright. An electric hoist in top of tower is used for loading the missile and lowering it into cell. The vehicle also contains test equipment for checking out the missile in the cell.



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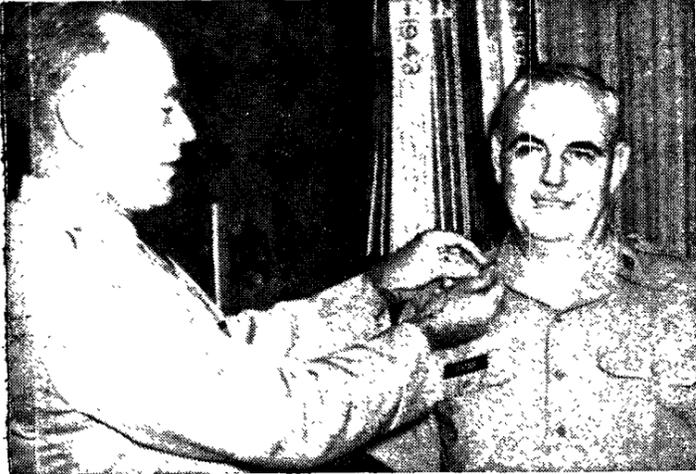
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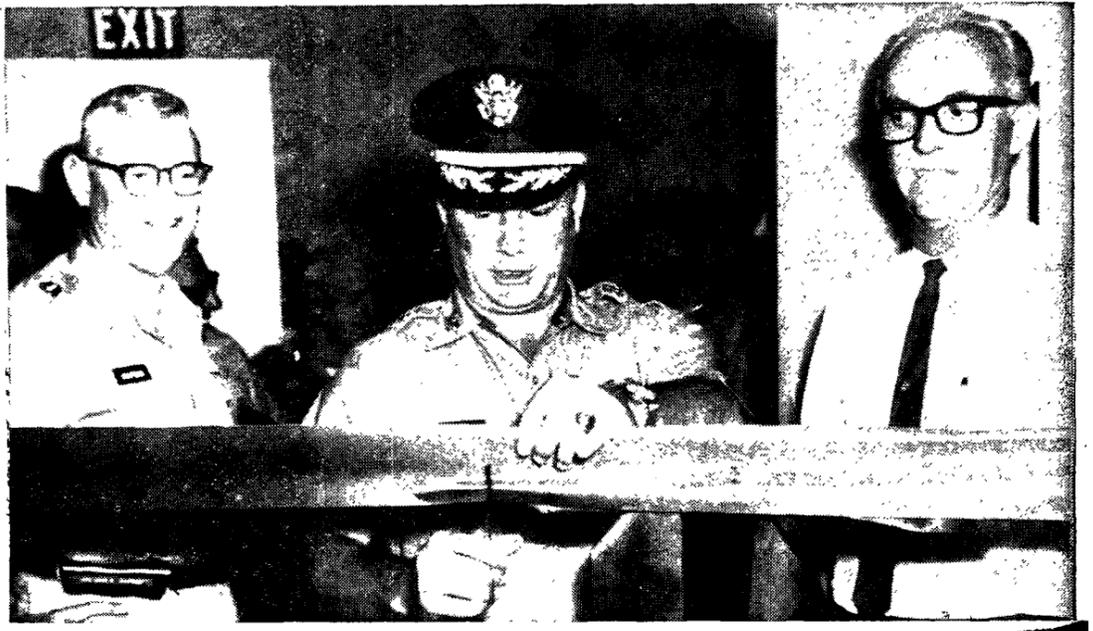
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PROMOTION—Hugh L. Shinn is "pinned" with the bars of Chief Warrant Officer (CW4), highest rank in the warrant officer category. Col. John R. Henderson, Missile & Munitions Center & School Assistant Commandant does the pinning. Shinn joins Joseph E. Callis, James R. Johns, Vernon G. Watters and Thomas E. Wilkerson as the only CW4's assigned to MMCS. Shinn is a Project Officer in the New Systems Division, Directorate of New Missiles and Literature at MMCS. The 19-year Army veteran from Bowdon, Ga., received a direct appointment to warrant officer from the rank of Master Sergeant in 1951.



NEW PX—Col. James L. Keown, School Troop Command Commander at the Missile and Munitions Center and School, cuts the ribbon opening a new troop area PX in Tin City as LTC Charles E. Chapman, Unit Training Command Commander (left) and PX Manager Bryant Warren (right) looks on. Hours of operations for the facility, which shares Building 3744 with Third Battalion Headquarters and provides snack bar, barber chair and the necessities to the troops, are from 8 a.m. to 8 p.m. Monday through Friday and from 1 p.m. to 8 p.m. Saturday and Sunday.



SERGEANT IN JAIL?—Not really. SSG Klaus-Dieter Struwe, German Army, is just posing for a picture in the make believe western tourist town of Goldrush Junction near Knoxville, Tenn. Sgt. Struwe was one of more than 30 Allied Students at the Army Missile and Munitions Center and School who recently visited the Smokey Mountain area on a weekend tour sponsored by the school's Foreign Liaison division. The division schedules 52 such tours throughout the South each year for students from 27 countries at MMCS.

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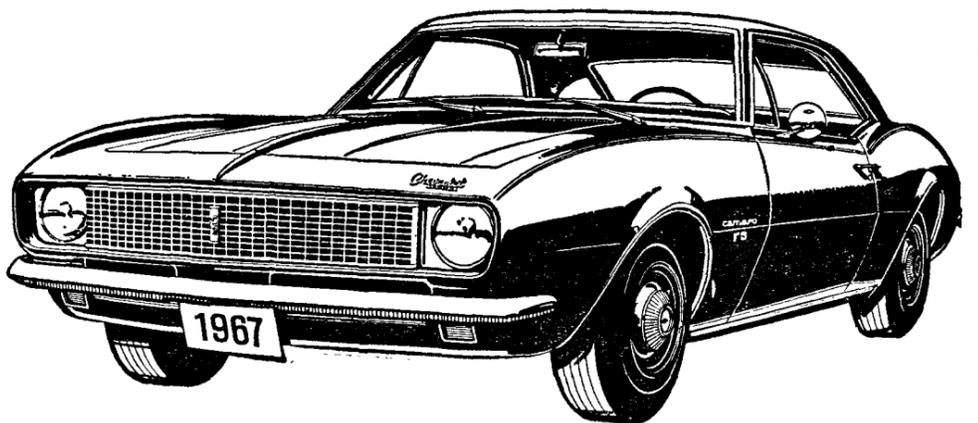
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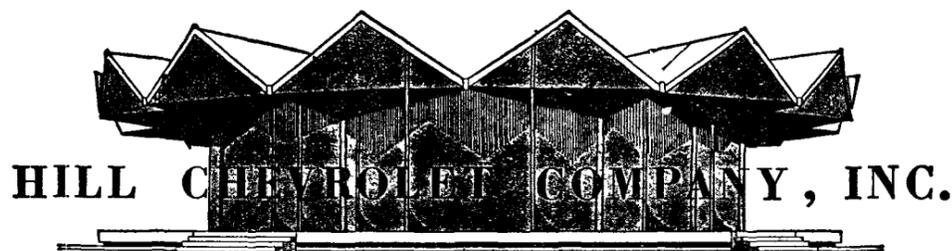
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