



the  
**ROCKET**

VOL. XXIV; NO. 41  
MARCH 10, 1976

Flash Gordon and Jules Verne are about to be upstaged by reality!

Even Star Trek is threatened by the newest bona fide marvel of the scientific world, the Army Missile Command's Advanced Simulation Center.

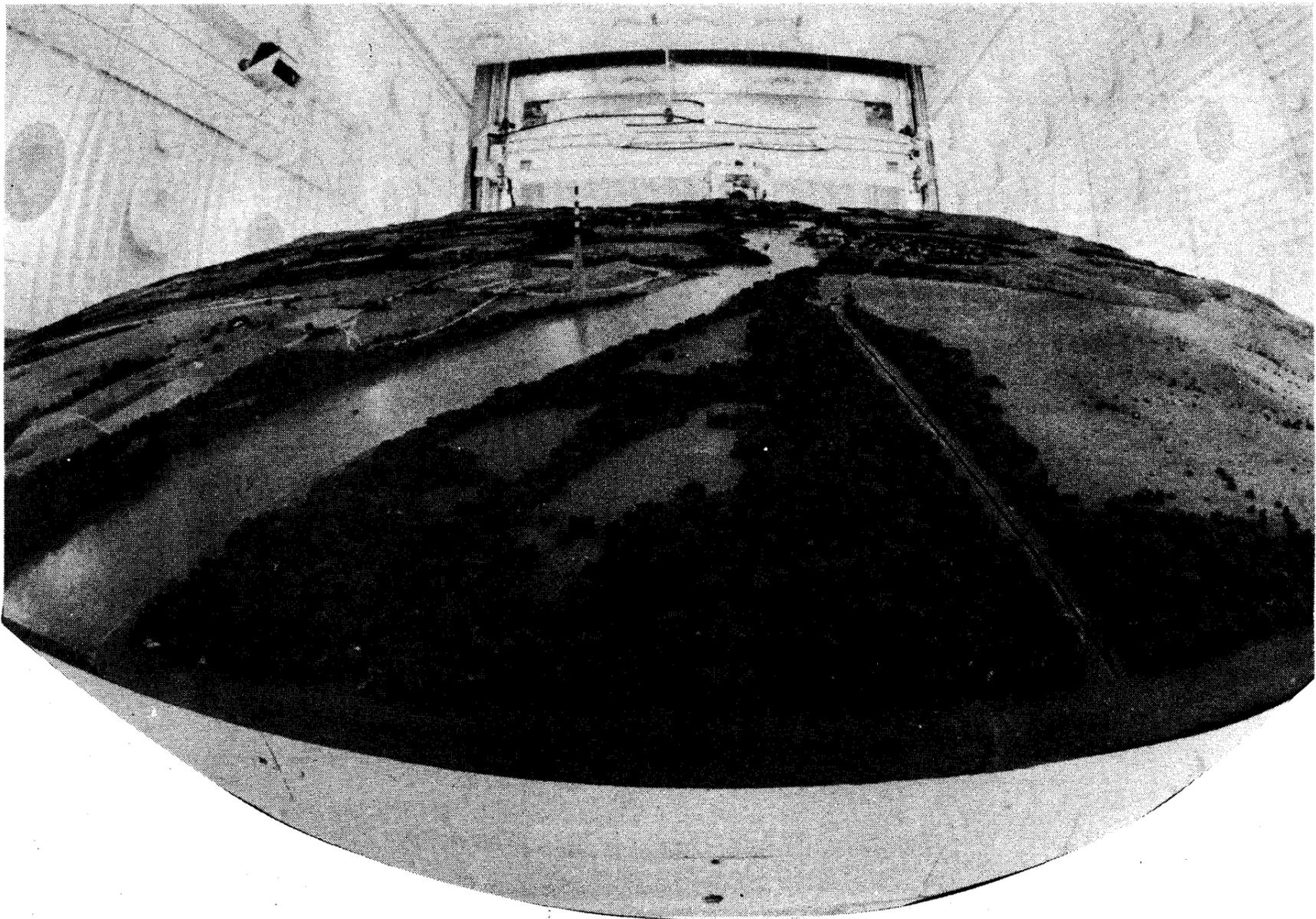
The ASC, now fully operational and being dedicated in formal ceremonies today, is the Army's and the country's window into the missile world of tomorrow.

No other facility like it, either private or government, is known to exist anywhere.

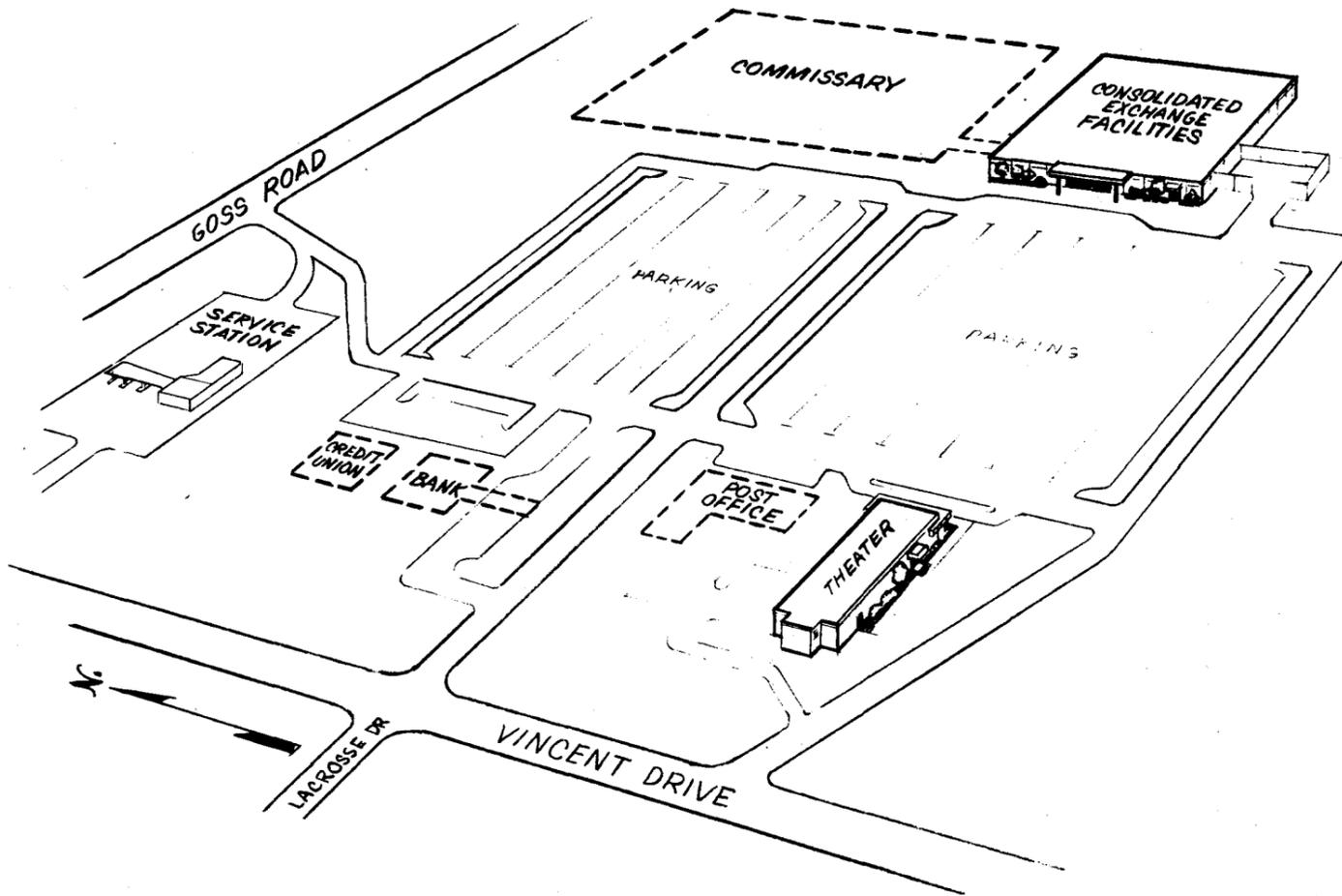
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(Photos by Bill Kellar)

(See Pages 8, 9 and 16)



# Shopping Complex For Arsenal Nearer



Redstone's proposed military shopping complex moved a step closer last week when Major General George E. Turnmeyer met with PX officials to discuss construction of the new exchange and theatre.

A firm date for construction to begin on the first two buildings is expected to be announced soon. The \$2.5 million exchange and theatre are scheduled to open during 1977 and will require 12 to 14 months to build.

Other proposed stores and shops — a commissary, post office, bank and credit union — will be added as construction money becomes available.

The shopping center will be located on a large tract near the housing area at the intersection of Goss Road and Vincent Drive.

Specifications for the new exchange call for a building nearly half again as big as the present one. The new building will house under one roof the main exchange, a home and sports center, a florist, a snack bar, a laundry pick-up point, barber, beauty, optical and watch repair shops, and possibly a convenience store.

Specifications for the new theatre call for 500 seats. Theatre and exchange lots will have parking for 400 cars.

## The Rocket

The Rocket is published weekly, on Wednesday. The publisher will receive editorial content for publication in the Rocket through the Information Office, Army Missile Command, Redstone Arsenal, Ala., 35809, Bldg. 5250, Room A-134. Extension 876-1400 or 876-1500.

All advertising copy and payments therefor are received by Mrs. Vergie Robinson P. O. Box 5351, Huntsville, Ala., 35805, telephone 837-8595, as representative of the publisher. Advertising deadline—both display and wantads—is 10 a.m. Monday before publication.

The Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for the Rocket are \$9.54 a year, or \$6.36 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 930, Hartselle, Ala. 35640.

Everything advertised in this publication must be made available for purchase, use, or patronage without regard to the race, creed, color, sex or national origin of the purchaser, user, or patron. A confirmed violation or rejection of this policy of equal opportunity by an advertiser will result in the refusal to print advertising from that source.

## Upward Mobility . . . .

# Reorganization Affects Felt

Sixty-two MICOM employees were selected for participation in the Upward Mobility program from 619 individuals who had applied as a result of the last announcement that the program was open. This brings to 219 the number of employees in the program, one more than when it began in 1974.

James Foster, Upward Mobility action officer in the MICOM Civilian Personnel Division, said there were fewer selections this time. Factors contributing to the decline include: projected nominations were impacted by the proposed Command reorganization; not as many people already in the program had moved up as hoped; and individuals have not progressed as rapidly toward meeting qualifications for better jobs as was first projected.

He also said that selections were not made in three occupational series as the spaces were lost under the proposed reorganization.

Upward Mobility is designed to give employees in lower grades but with high potential, better positions as vacancies occur, through training on the job, and through classroom and correspondence courses. Participation in the program does not guarantee advancement to better jobs.

Selected employees have been told how the program operates, and how training plans are to be prepared for them. It is hoped that all plans will be completed and returned to the Civilian Personnel Training Office by April 1.

At the present time no date has been set to re-open the program, but it is estimated that an announcement will be published in November.

"In the meantime all employees including upward mobility participants, are encouraged to apply for merit promotion announced

vacancies for which they feel they could qualify," Foster said.

"The program offers individuals an opportunity to progress to their

full potential and ability, but a great part of its success depends on managers reporting vacancies that could be included in the program."

### UPWARD MOBILITY STATISTICS

OCCUPATION	SELECTING ORGANIZATION	MAJORITY		MINORITY	
		TOTAL	MALE	FEMALE	MALE
Supply Clerk — Metr & Calibr	4			3	1
Supply Sys Analyst — Mat'l Mgmt	5	1	3		1
Supply Tech — RASA	8	2	6		
Equip Spec — Metr & Calibr	1	1			
Illustrator — Msl Intel Agcy	0				
Oper Rsch Analyst — Msl Intel Agcy	0				
Admin Asst — RD&E	0				
Gen Sup Spec — Mat'l Mgmt	16	6	9		1
Mgmt Analyst — Plans & Anal	4	2	2		
Program Anal — RD&E	1		1		
Sec Steno — ARTADS	2		2		
Budget Anal — MI-U	2	1	1		
Budget Anal — RD&E	2	1	1		
Card Punch Oper — Metr & Calibr	1				1
Mail & File Clk — Metr & Calibr	1				1
Engr Technician — Metr & Calibr	3	2		1	
Packaging Spec — RASA	2	2			
Clerk Steno — Metr & Calibr	2	2	2		
Electronic Tech — Metr & Calibr	1				1
Engr Draftsman — RASA	4	2	2		
Photographer — RASA	3	1	2		
<b>TOTAL</b>	<b>62</b>	<b>23</b>	<b>32</b>	<b>1</b>	<b>3</b>



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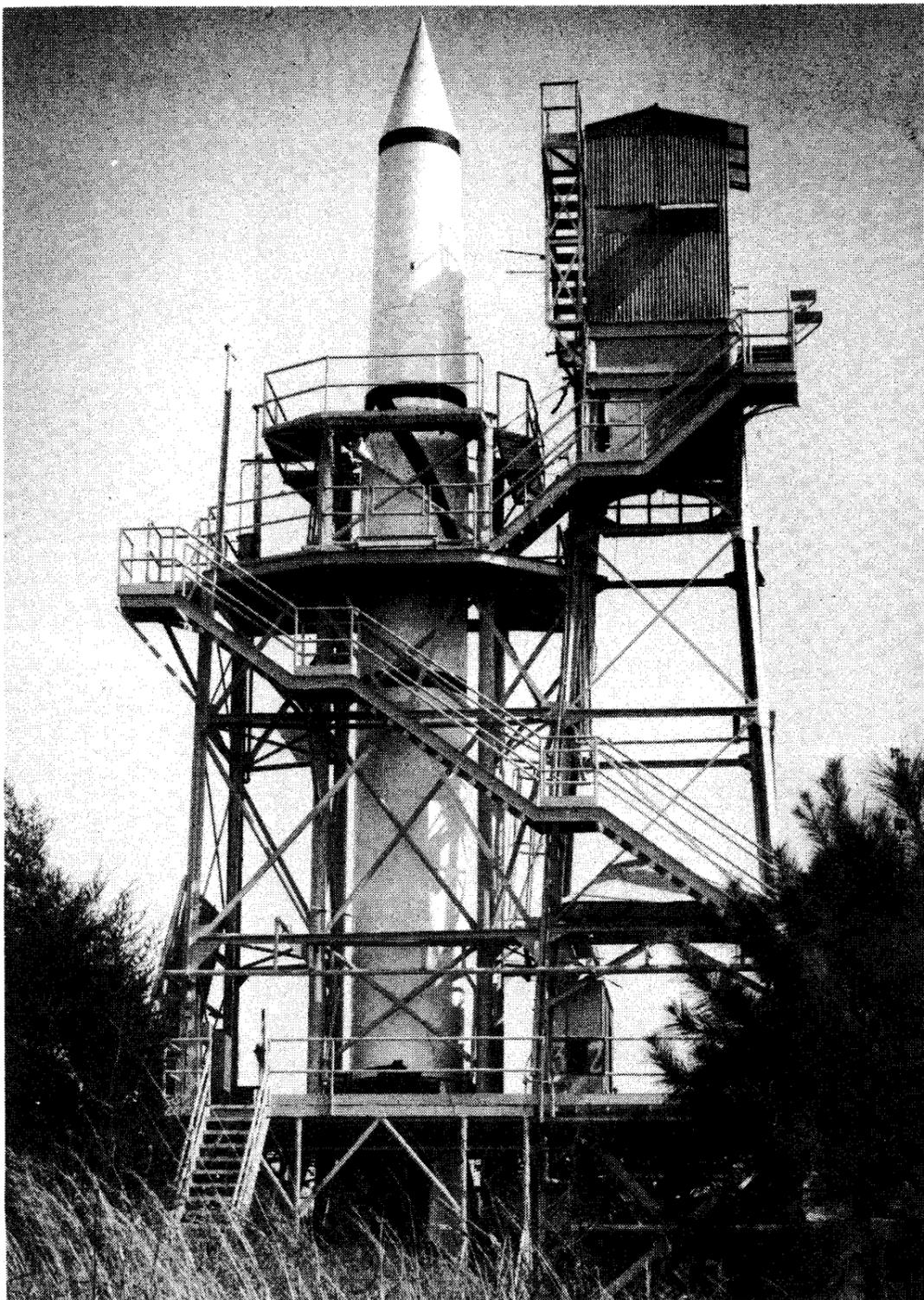
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### Out Of The Past — Into The Future

but not sitting atop a tail of flame as in glorious days gone by, the Redstone rests in its old test stand, now national historic site. The Redstone was loaned by the Missile Command to Marshall Space Flight Center which readied the old stand and missile for display during the Bicentennial year. Known as the Interim Test Stand at one time, the Army constructed it in 1953. It was later modified to test the Jupiter C, the missile used to boost the nation's first satellite, Explorer I, into orbit. It was transferred to MSFC in 1960. The complex will carry the name "Historic Redstone Test Site."

### Contract Managers Hear Gen. Zierdt

Maj. Gen. John G. Zierdt (ret.), former MICOM Commander, will be the guest speaker when the National Contract Management Association meets tomorrow night at the Officers Open Mess. His topic will be "Contract Administration - Then and Now."

Zierdt is now with Beech Aircraft Co., Wichita, Kan., where he is director of Missile Systems Division and Aerospace Planning. Non-members of the association are welcome to attend. For reservations, call Louise Cooksey, 876-5126 or Becky Robinson at 559-1745 by noon today.

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# Army Seeks Industrial Ideas for New Rocket

The Missile Command has asked industry for their ideas about developing a new General Support Rocket System (GSRs) for the Army.

MICOM last week awarded concept definition study contracts, totaling \$885,000 to Boeing Aerospace Co., Seattle, Wash.; Emerson Electric Co., St. Louis, Mo.; Martin Marietta Corp.; Orlando, Fla.; Northrop Corp., Anaheim, Calif.; and Vought Corp., Sterling Heights, Mich.

Each company will perform a four-month study outlining technology approaches for developing a free flight artillery rocket. The study will include estimates on unit, and life cycle program costs.

From these studies, the Army will determine the best technical approach for developing the GSRs and could initiate prototype development of the system sometime next fall.

GSRs is intended to be a simple, rugged, reliable artillery rocket system which can be deployed rapidly and deliver a high volume of fire. Present Army concepts envision the weapon system as being a mobile launcher carrying

several rockets which can be fired in rapid ripples.

MICOM engineers say the design will probably accommodate conventional munitions and have a growth potential that might even accommodate future terminal guidance as technology evolves.

"We're looking at a non-nuclear, rapid and indirect fire system that will supplement cannon artillery during enemy attacks when targets such as artillery, troops and armor appear rapidly and in great quantities," said Colonel Kenneth S. Heitzke, MICOM's new Special Assistant for GSRs.

"We have nothing in the field like it."

Heitzke said the Army is emphasizing low rocket unit cost. "GSRs is going to necessitate some innovative manufacturing approaches, both from the standpoint of materials and techniques," he said.

MICOM has conducted extensive work in free flight rockets in its research and engineering laboratories. Much of the early effort in establishing this new program was directed by Major William B. Ward, Chief of the Artillery Systems Concepts Team



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\*1009 WILLOW LANE, MADISON, \$26,800. 3 bedrooms, 1 1/2 baths, unfinished heated basement. Large corner lot.



\* 1203 HUNTSVILLE HILLS, \$78,900. 3 Bedrooms, 2 baths, Den + "REC" Room w/bar and Double FIREPLACE. Central air & heat, equipped kitchen. OPEN.



503 MARGARITE DRIVE. \$20,900. 3 bedroom, 1 1/2 bath rancher. Central air & heat. Garage.



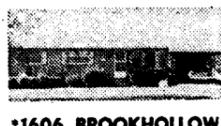
\*6406 RONINHOOD, \$32,900. 4 Bedrooms, 2 baths + DEN. Central heat & air. 1800 sq. ft. Large corner lot.



11311 CRESTFIELD DR. \$38,900. Approximately 60 Trees!! 3 bedroom, 1 3/4 bath brick tri-level. Den, separate dining. Central air & heat. Garage.



905 CORINTH CIRCLE—Fagan Springs. 4 bedroom 3 bath contemporary on wooded lot. Den + "REC" w/bar. Central heat & air, garage. \$63,700.



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# Missilemen Make Army's Promotion List

Army missile programs at Redstone are gaining two general officers.

Colonel Frank J. Palermo, Hellfire Project Manager, and Col. Frank P. Ragano, who has been named as Project Manager for the U.S. Roland System, were among 53 Army colonels approved for promotion to brigadier general, the Department of Army announced last week.

Ragano was previously at Redstone as Project Manager for the 2.75 Rocket System, and left last year to become Project Manager for the highly successful Cannon Launched Guided Projectile System at the Armament Command. He is succeeding Col. Henry F. Magill at Roland.

Magill had earlier announced plans for retirement at the end of this month.

A former enlisted man, Ragano entered the Army in 1950. He first came to Redstone when the 2.75 Rocket System was moved from Picatinny Arsenal, N.J. in 1973.

He is a 1950 graduate of Duquesne University and has a masters degree from Syracuse University. He is also a graduate of Command and General Staff College and the U.S. Army War College. His overseas tours include Korea, Vietnam, and Germany.

Palermo has been at Redstone since July 1975 when he came here from the Army Materiel Command.

A native of Cincinnati, O., he entered the Army as a draftee. He has a bachelors degree from

Xavier University, a masters from the University of Arizona, and is a graduate of the Armed Forces Staff College.



PALERMO



RAGANO

## New Grievance Policy Covers Probationary Period

WASHINGTON (ANF)—Department of Army personnel managers—military and civilian—now will find it easier to dismiss incompetent civilian employees during their initial one year probationary period.

A recent change in Army policy eliminates grievance rights for employees during the probationary period. It applies to those hired on

or after Feb. 1, 1976. The probationary period is the final test to see how an employee performs on the job.

Previously, employees could use the Army Grievance System to contest removals during the probationary period. The intent of this DA regulation was to prevent arbitrary and capricious removals during the probationary period.

However, in actual practice, marginal or unsuitable employees were rarely separated since supervisors did not want to get involved in grievance procedures. Those employees continued to serve and gained permanent status.

DA officials believe the long range potential for improving the quality of the workforce is apparent. To achieve the improvements, supervisors must be willing to exercise their authority during the probationary period.

## Special Features Award Announced By DARCOM

A new Army Materiel Development and Readiness Command (DARCOM) Special Features award has been announced and is open to any civilian or military author now or previously assigned to a DARCOM element who has had an article published or accepted for publication in 1975 or during the current year.

Each DARCOM subordinate command or activity may submit one nomination annually.

The award winner will be announced in June.

The feature article should be on subjects that help improve public understanding and awareness of Army and DARCOM missions and needs.

Features may be submitted by the author, the author's supervisor or another individual having knowledge of the manner in which the feature meets the award criteria.

Nominations at MICOM should be submitted to the Information Office, DRSMI-G, Bldg. 5250 on or before March 19 for forwarding to the DARCOM Information Office.

Nominations should include the following:

- Name; rank or grade; classification and-or title of the author-nominee; a brief statement of officially assigned duties.

— A copy of the publication in which the feature article appears, or of the manuscript that has been accepted for publication, along with a description of specific achievements that resulted or are likely to result from publication of the article. Reports, staff papers, letters, and other evaluation-type comments may be submitted in support of the nomination.

— A statement indicating other kinds of recognition and-or financial compensation the author has received as a result of development of this feature.

— A proposed citation for signature of the Commanding General, DARCOM. The draft citation should not exceed 100 words in length and should highlight the significant contribution of the nominee's article to improved understanding of Army and DARCOM missions.

The individual nominated at MICOM for DARCOM award will be the recipient of the MICOM Special Features award.

The Special Features award entry will be initially reviewed by the DARCOM Information Office, and pre-screened by an Information Office Review Panel before submission for consideration by the DARCOM Incentive Awards Review Board.

### THIS WEEK'S ELECTROPHONIC SPECIALS

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- Portable Radio, FM-AM-Police-Weather ..... \$59.95
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# Disability Retirements Show Dramatic Increase

(Federal News Clipping)

Disability retirements by Federal civilian employees covered by the civil service retirement system increased by 170 per cent over a 20 year period according to the Civil Service Commission. The report is based on a comparison of figures from fiscal years 1955 and 1974.

The trend appears to be national with experience gathered from the social security system as well as the civil service retirement system. The two systems use different criteria as to what constitutes a disability retirement.

At Redstone, the Civilian Personnel Division indicated a significant increase in disability, over other types of retirement among civilians.

Officials feel this increase may be attributed to the change in law permitting a \$100 per week tax

exclusion from disability retirement incomes.

In releasing the report, the Commission said the overall rate of disability retirements had increased from 412 per 100,000 employees to 1,128.

Upward trends were noted in nearly all disease categories but were highest for disabilities attributed to psychoneurosis, cirrhosis of the liver, and loss of hearing.

While cardiovascular diseases continue to be the largest single cause of disability retirements, there has been a gradual decrease in the percentage from more than 45 per cent in the 1950s to about 30 per cent in the 1970s.

Disability retirements attributed to disease of the bones and joints were about five times higher while those caused by mental and nervous conditions increased about four times.

Disabilities due to gastrointestinal conditions, genitourinary conditions, and diseases of the eyes, ears, nose, and throat were about three times higher in 1974 compared to 1955.

The Commission report noted the large increase in Federal civilian employment during and since World War II has resulted in a gradual aging of the work force. The influence of age, while present in each category of disability, is significantly different among the various cases.

Specific analysis of major disease categories by age and sex shows that below age 40, the largest number of disabilities among both males and females is for mental and nervous conditions followed by bone and joint disease.

The same two categories predominate for females age 40 to 49 while males in the age bracket acquire cardiovascular diseases in

about the same proportion.

From age 50 to 54, cardiovascular diseases become the primary cause for male disabilities while bone and joint diseases become the chief cause for female disabilities.

Very high death rates were observed among those disabled as a result of cardiovascular and respiratory diseases.



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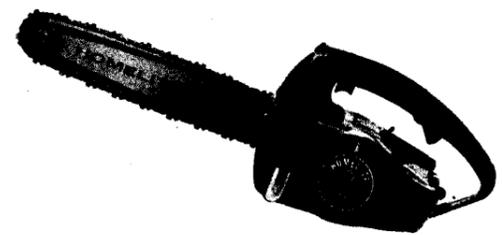
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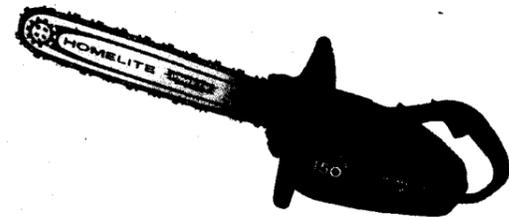


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# "Since I've been in the Army, the longest I've sat still is for this photograph."



SP/4 Susan Boguta likes to keep active, but we interrupted her busy schedule to find out what she likes about the Army.

"After I graduated from college, I decided to try a technical job, one that would help me learn about flying. Because eventually I'd like to be a pilot. So my training's helped a lot.

"I also enjoy meeting people and talking about my work. So recruiting work has been a natural for me.

"One of the things I always mention to the young people I meet is that the Army's taught me you can do much more than you think you can. The opportunities are here, all you have to do is take advantage of them. And that's what I'm doing."

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COME BUTTER COME—Brownies of Troop 163 chant the old phrase which was supposed to make the butter seem to hurry, but the girls discovered it took its own good time.

## Girl Scouts Observe 20th Anniversary

The Redstone Arsenal Girl Scouts are celebrating Girl Scout week with two added extras—their organization has a 20th anniversary and the nation has a bicentennial.

The bicentennial theme is paramount in the GS plans for the year. Most troop projects include activities of historic nature. Last week the GS show in the Mall featured skills used by persons in 1776.

In the twenty years at Redstone

the GS have worked toward building good citizenship and mature leaders of the future.

"Our function as leaders," said Mrs. Shirley Vittorini, chairman of the Redstone Arsenal Girl Scouts, "is to build good character and to direct the girls toward responsible adulthood. This is the central intent of the organization as outlined by the founder, Juliette Low. The familiar activity of cookie sales is merely a small part

of our activities."

Mrs. Vittorini said that the Arsenal organization now has 170 girl scouts with 34 full time adult leaders.

The National Girl Scout organization was formed in 1912, and it was 1926 when the first unit formed in Huntsville. Huntsville's first council type organization formalized in 1945, just 11 years prior to the Arsenal's scout organization.

THE ROCKET

MARCH 10, 1976

Page 7

## TOUR OF EUROPE!

21 DAY VISIT OF . . . .

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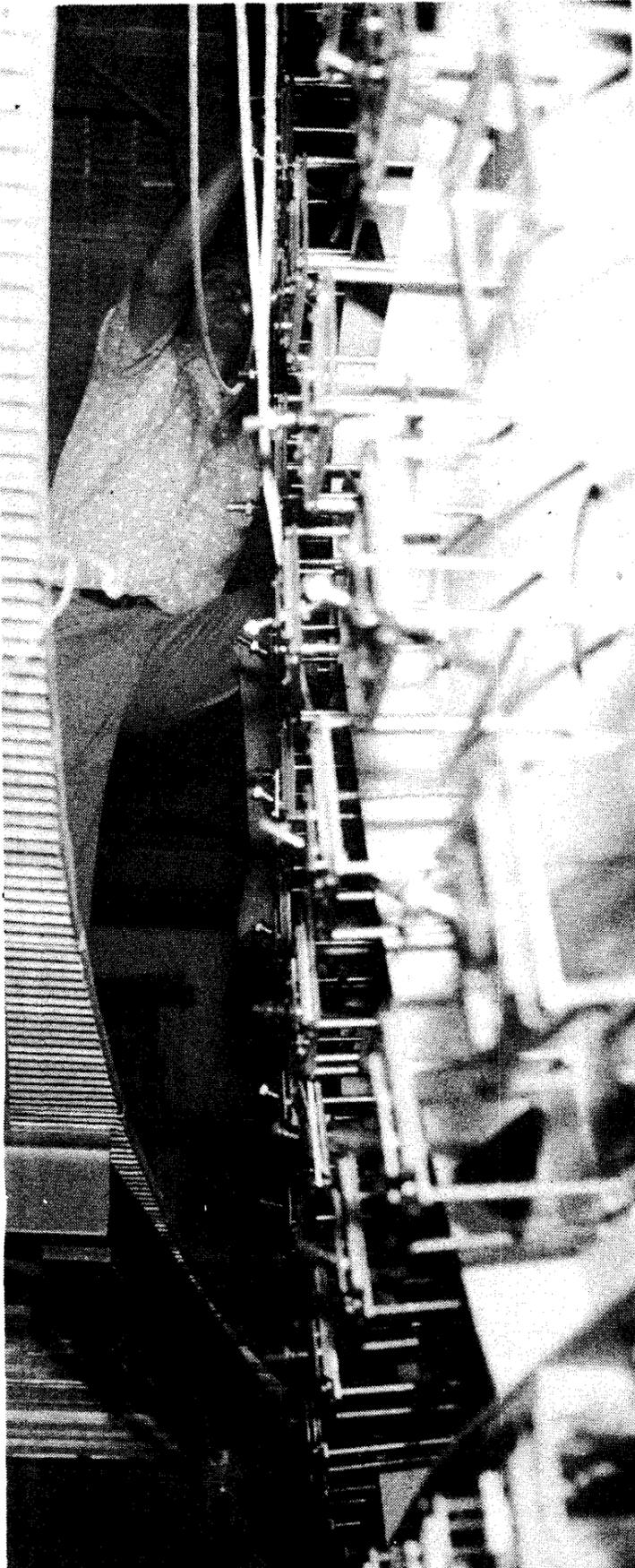
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But at that point there are few words to describe the Army Missile Command's new Advanced Simulation Center.

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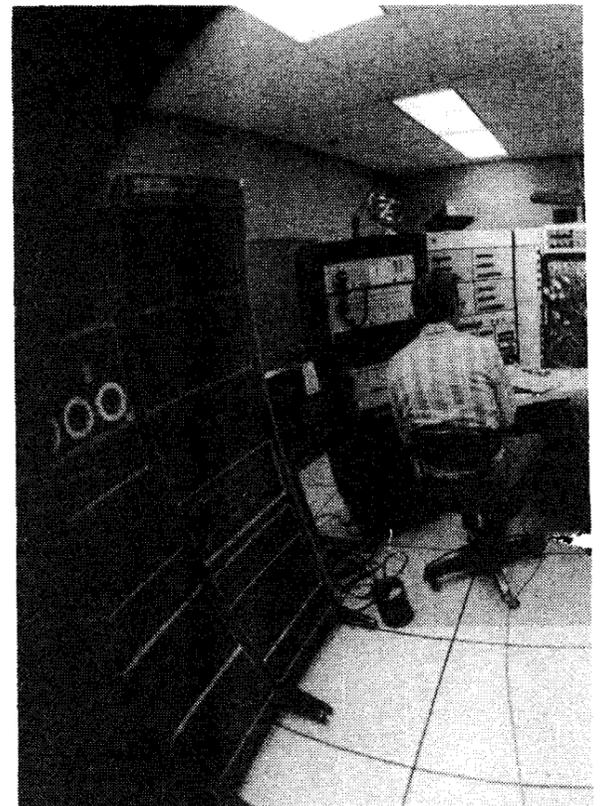
MICOM's ASC is acclaimed already as a breakthrough in technology for non-destructive simulation of weapon sensors, guidance and control components, and actual flight hardware.

The new facility, attached to McMorrow Laboratories which are the hub of Army missile and rocket development, brings together three test chambers, linked to third and fourth generation computers, that can simulate just about all environments that affect a missile in flight.

Capable of testing any missile known today or foreseen for the future, the center will reduce time and manpower required to develop a missile system, save millions each year in research and development by significantly reducing the need for actual flight tests, and result in better tested weapons going to U.S. fighting forces and allies.

Approximately 100 military, civilian and contractor employees currently support the center but that number likely will increase to 150-200 when the facility reaches its peak workload.

MICOM began missile simulations back in 1962 with the minimum equipment of analog computers and flight tables. Dr. John L. McDaniel, director of MICOM research and engineering, quickly recognized the importance that



Room after room of high-speed computation center.

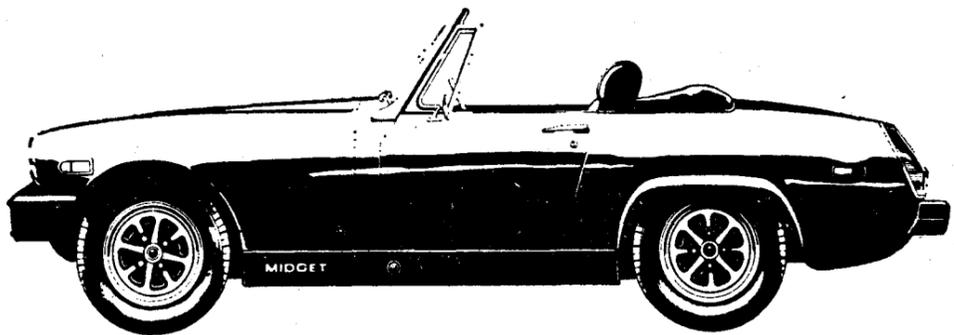
simulation played in missile development and began to expand MICOM's capability.

As a result of his efforts and foresight, and members of his staff including Jess Huff and Dr. Kelly Grider, the idea for the ASC was born. Construction began in 1968.

Dr. Grider, who has been named director of the center, said that immediate plans call for MICOM "... to begin increasing its workload and hopefully work

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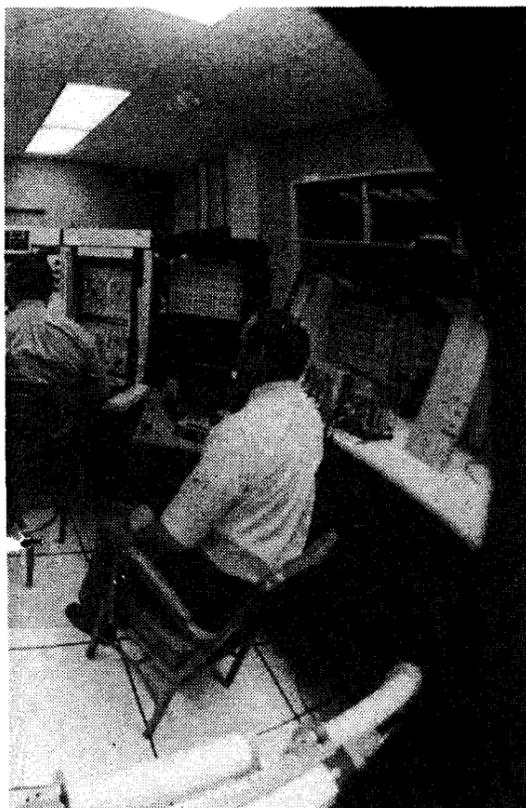
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are a part of the advanced simu-

a two-shift operation within the year or so."

In addition to working on several systems, the center already has some work for both the Navy and Air Force. Dr. Grider said the center is available to contractors as well as all branches of the armed forces.

The ASC was constructed primarily by General Electric, Boeing Control Data Electronic Association Inc., and Martin Marietta Corporation.

The center consists of three test cells—Electro Optical, Infrared and Radio Frequency Simulation Systems—linked into a hybrid computer complex.

The electro optical and infrared cells use sensors in the visual and infrared spectrum, such as homing sensors like the terminal homing close air support and antitank missiles. One unique feature of the electro optical cell is a rotating square moving terrain model loaded with deserts, mountains, rivers, towns and military targets so that

missiles can be tested on their ability to spot, acquire, designate, track and destroy enemy targets under day or night conditions.

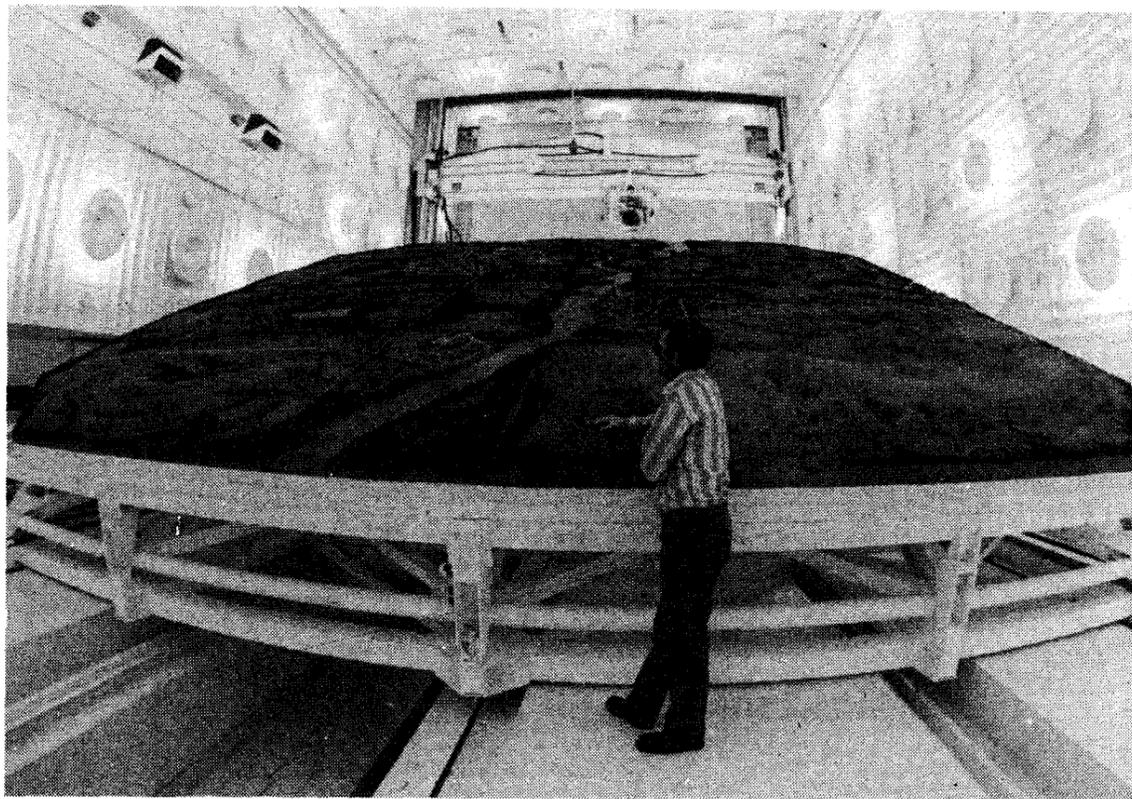
The cell has a lighting system that can simulate all lighting conditions from starlight to sunlight.

The RF cell, resembling a house of horrors with its anechoic material of black rubber, arranged like punji stakes, tests radar guidance component's ability to detect and track targets in a simulated battlefield environment, including electronic countermeasures.

Each cell is linked to and can "talk" to the computers.

Looking to the future, the ASC can accommodate futuristic systems, even advanced systems using dual mode sensors like radio frequency/infrared or electro optical/infrared.

And particularly important, the ASC can eliminate false starts since new missile designs and concepts can be tested exhaustively before the Army makes a major commitment to a specific design approach. That way, there are few bugs or surprises that can surface during live tests of a weapon prototype.



Terrain model operator inspects the turf.

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## Women's Softball

The first call is out for players and coaches for the dependent women's slo-pitch softball team and all of those interested are asked to sign up this evening at Youth Activities in building 114.

The Redstone team will be playing in the Huntsville Industrial Women's league this summer.

Additional information may be obtained by calling Youth Activities 6-KIDS or Trisha Hoerth, 6-1781.

Tax Deadline Is  
**APRIL 15!**



### CWF Slo-Pitch

The Civilian Welfare Fund slo-pitch softball league has set a meeting for Thursday, March 11, for the purpose of organizing for the coming season.

All players and league officials are invited to attend the 2 p.m. session at the Civilian Recreation Area.

Officers will be elected and tentative scheduling will be discussed.

## Six Teams Represent CWF In HITL Play

Six teams and almost a hundred players will be representing the Civilian Welfare Fund in Huntsville Industrial Tennis League play this summer.

The CWF has entered two teams each of the B, C and D divisions of HITL. Approximately fifteen players are presently engaged in challenging for positions on the individual team ladders.

The league season gets underway the last week of March and will continue through the summer months.

In the B Division, the MICOM Blues, headed by Emil Luft, have a ladder established while the Grays under Jim Kofskey are conducting an open challenge during March.

Malcolm O'Neil is the present No. 1 player on the Blue roster with the next five single spots belonging to Bill Dunlap, Phil Adair, Irv Kellogg, Don Reesman and Luft, in that order.

The remainder of the Blue ladder by ranking is: Wayne Pelham, Art Marler, Ed Trentham, Joe Hiatt, Don Combs, Dick Mohlere, Dennis Mack, Art Jones, Bill Evers and Scott Mallard.

Kofskey has a fifteen-man roster from which to select the top six players for the opening round singles matches for the Grays. The selections will come from the challenges during the next three weeks.

Scrapping for the berths are Mike Davis, Joe Craft, George Landingham, Gary Winn, Jim Burt, Jay Robinson, Tom Norwood, Bob James, Frank Fleming,

Jim Fowler, Fred Herman, Glen Davenport, John McCormick and Leo Schiffman.

The C Division Blues also have an established ranking while the Reds are undergoing an open challenge for the purpose of setting up a ladder prior to the start of the season.

Blue captain Jim Madderra said Dick Henthorne is the top rated player at this time followed by Bill Sholes, Charlie Northrop, Madderra, Grady Todd, Larry Welborn and Dale Murray.

Unranked singles players on the Blue team are Charles Addicot, Wilson Bass, Gene Blanks, Dick Dillard, Dick Dudley and Sid Roberts.

Henthorne and Madderra have the top doubles ranking followed by Northrop-Sholes and Todd-Welborn. The Roberts-Addicot tandem is next in line.

Bob Smith, the Red team captain, will pick his lineup from among: Mike Burns, Mike Drinkwater, Jim Giles, Alex Jolly, Pete Kirkland, Bill Lummus, Tom McLaughlin, Tom Norwood, John Pettit, Brent Pope, Stan Prosser, Larry Robertson, Smith, and Jim Winning.

The D Division rosters are not available at this time.

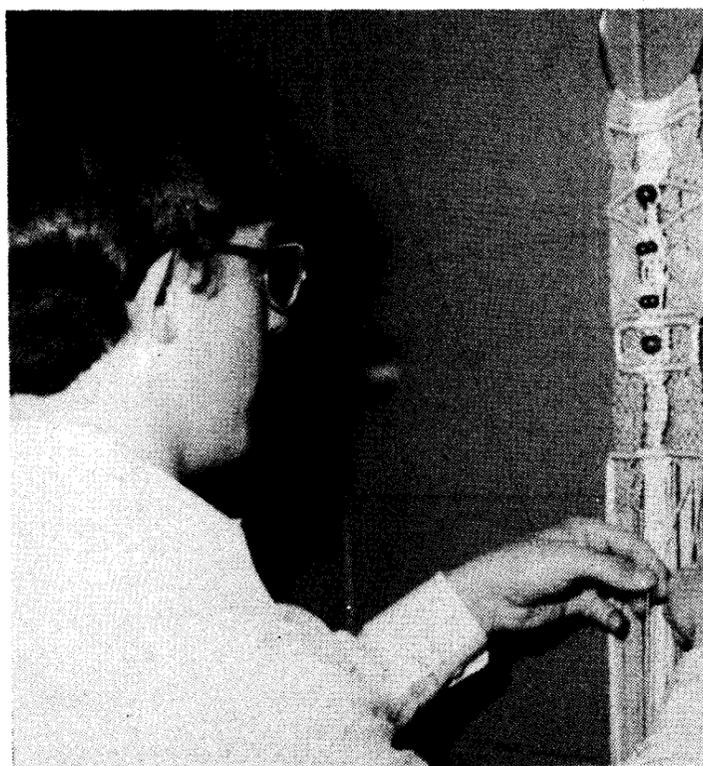
### OWC Golf Group Starts New Season

The first golf luncheon of the season will be held by the Officers' Wives Club Golf Group at the Officers' Open Mess on Wednesday March 17.

Redstone's Pro Chuck Enlow will attend the noon luncheon to discuss the golf clinic to be held this spring.

A nine-hole playday is scheduled beginning at 9 the morning of the 17th if the weather permits.

Reservations should be made before noon on Friday, March 12 by calling Marie Melochick at 881-2239 or Florence Teir at 883-1055. Cancellations will be taken until noon on Monday, March 15.



SQUARE KNOT . . . SP4 MacPHERSON

## Macrame Class Starts Tonight

Half knots, square knots, and half hitches are just a few of the typing techniques to be taught at the macrame class beginning at 7 tonight at the Post Crafts Shop.

Specialist 4 Gene Macpherson, a dental assistant at the Redstone Dental Clinic will be teaching the class in the art of tying knots in geometrical patterns.

Macpherson learned to macrame while attending art school in California. Although he

has had some formal art training, he learned most of his macrame knots and designs "by studying various macrame books".

The macrame class will be the second that Macpherson has taught at Redstone.

The class will learn basic knots as well as make a pot holder and wall hanging. Macpherson will also be available during this time to help with assorted macrame projects.



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# Rockets Seek TRADOC Glory At Rucker

The Redstone Rockets boosted their hopes for a respectable finish in the Training and Doctrine Command Basketball Tournament—currently underway at Ft. Rucker—by winning three exhibition basketball games last week at the old post gym.

The Arsenal team, which departed Redstone Saturday, defeated the NASA All-stars, 72-55, last Monday night. Grabbing two more victories Wednesday and Thursday, the edged the Civilian Welfare League All-stars, 85-84, and Sperry of Huntsville, 63-57.

The victories provided moral support for Redstone in their quest of a title and coach Ralph Santaliz was optimistic about the team's chances.

"Realistically," said Santaliz, "Redstone will have a difficult time competing in TRADOC's Western Conference. The Rockets will be competing against teams who can select squads from 30,000 to 40,000 troops, while we have only 2,900 to choose from."

"The situation is similar to a class 4A high school competing against a class 1A or less. However, the teams we meet will know that they have been in a ball game," he said.

Santaliz stated that last year the Rockets played the top two teams in the tournament on even terms for three quarters in each game. However, their outstanding depth was too much for the Arsenal team.

"This year's team is better all around," said Santaliz. "We have outstanding rebounding strength with six-foot-5's Lew Lockett and Bruce Williams."

Charlie Davis, another post player, can also jump with the best according to Santaliz. Mickey Rooker (3-yr veteran on the post team), Charlie Miller and Noel Beaver will play guard positions.

"Although the starting five looks impressive," Santaliz said, "We have better bench depth than we have ever had at Redstone. Now

we can go to the bench to relieve a starting player for a break without losing too much ground against our opponent."

In Redstone's two recent exhibition games, Santaliz went to his bench for subs Tim Niewierowski, Richard Bolt and Maurice Williams. Several of Redstone's starting players were in foul trouble and Santaliz said the three substitutes performed well in the closely contested games.

According to the sports director, Richard Anderson is the darkhorse on the team, "We can play him at guard or forward and get a good game out of him," he said.

Coach Santaliz is hoping Redstone will draw Fort Monroe and Seneca Army Depot for their first two opponents.

"They are more Redstone's size in population. However, Seneca might surprise a few. I don't think they would fly all the way from New York if they didn't have a good team," Santaliz stated.

"In my opinion," stated Santaliz, "Forts Sill, Knox and Rucker will be the teams to beat. Sill and Knox are both defending TRADOC champions and Rucker has the home-court advantage."

"If the Rockets can play team ball and not be dominated on the boards, we have a good chance to finish better than Redstone has in years," said Santaliz.

Instrumental in the Rocket's win were Bruce Williams and Charlie Miller with 14 points each, followed by Mickey Rooker with 11. For the All-stars, Roosevelt Williams led with 16, Rod Sumner, 12, while Wade Griffin and James Love cashed in 10 points each.

## Rockets 63 Sperry 57

In the final exhibition contest, tempers flared as Redstone pulled out a 63-57 squeaker over Sperry. Technical fouls dominated the game. Redstone's coach, Ralph Santaliz, received three simultaneously at a crucial point in the game with the Rockets leading 37-36 with 8:56 remaining.

Coupled with a shooting violation, the five-shot situation

allowed Sperry to take a two-point advantage. Santaliz was ejected from the game and left team captain Charlie Miller in charge. The episode gave the Rockets momentum—mostly revenge—as they surged to a five-point advantage over Sperry with 1:40 left to play. Another official's call—this time against Sperry—produced another outrage. When the vocal disturbance had settled, the Huntsville squad was saddled with three consecutive technicals, eliminating any hopes of a victory.

Again, Lewis Lockett paced Redstone with 23 points, followed by Charlie Miller and Richard Bolt with 12 and 10. Bob Harris and Marshall Heally led Sperry with 24 and 13 points respectively.

## Bowling News

### S&M League

Standings	W	L
Barber-Coleman	26	10
Clowns	23	13
Misfits	19	17
Strikers	19	17
Outcasts	18	18
The Doc's	16	20
Reba's	15	21
Three & Two	14	22
Huntsville Times	9	27

### Last Week

Reba's-4 — Barber-Coleman-0  
Outhouse-4 — Three-Two-0  
Strikers-4 — Times-0  
Doc's-3 — Outcasts-1  
Misfits-2 — Clowns-2

### Honor Roll

Buck Wade strung together games of 216, 211 and 190 for a 617 honor roll count that sparked the Outhouse Lounge five to a clean sweep of the Three-Twos.

Jimmy Mason made it a pair of better than 600s for the evening when he shot a big 256 in the middle game of a 606 set.

### Other High Scorers

Francis Parks, 556; Hugh Mauney, 546; Earl Moore, 544; Charles Parker, 544; Gus Schrottker, 540; Al Rossi, 519.

### AMC League

Standings	Pts
Bombers	62½
Spares	53½
Cadillacs	48
King Pins	46½
Fat Cats	46
Lily Flagg	45½
Hughes TOW	45
Alley Cats	44½
T-Birds	44½
Sprinters	44

### Last Wednesday

T-Birds-3 — Bombers-1  
King Pins-3 — Alley Cats-1  
Sprinters-3 — Spares-1  
Cadillacs-2½ — Lily Flagg-1½  
Fat Cats-2 — Hughes-2

### High Rollers

Mike Reynolds, 546; Jimmy Pemberton, 544 (212); Tom Patterson, 544; Burt Dempsey, 540; Joe Garen, 529; J. C. Whitworth, 524; Dick Gore, 523 (223); Monroe Bates, 520 (221).

### Wednesday Officers

	Won
76'ers	60
Swingers	46
Metracals	44
Readiness Group	40
Lucky Strikes	38
School Brigade	38
Strikeouts	34
Pickups	34
ExASPRators	32
Redrock Injuneers	32
Kuwait Keglers	30
Black Jacks	28
P&P Registers	26
Halo's	14

### Results

Metracals 8 — Kuwait 0  
76'ers 6 — P&P 2  
ExASPRators 6 — Lucky Strikes 2  
Readiness 6 — Pickups 2  
Strikeouts 4 — School Brigade 4  
Black Jacks 4 — Redrock 4  
Swingers — Halo's (Postponed)

### Ind. Honors

The Wednesday Officers League again took honors last week in league bowling on Arsenal lanes. Brent Bofenkamp shook the pins for a 267 game and then went on to roll a 632 series.

Other High Series: Townley, 577 (237); Prewett, 552 (208); Zenda, 551 (203); Curry, 525; Agee, 521; Jordan, 519.

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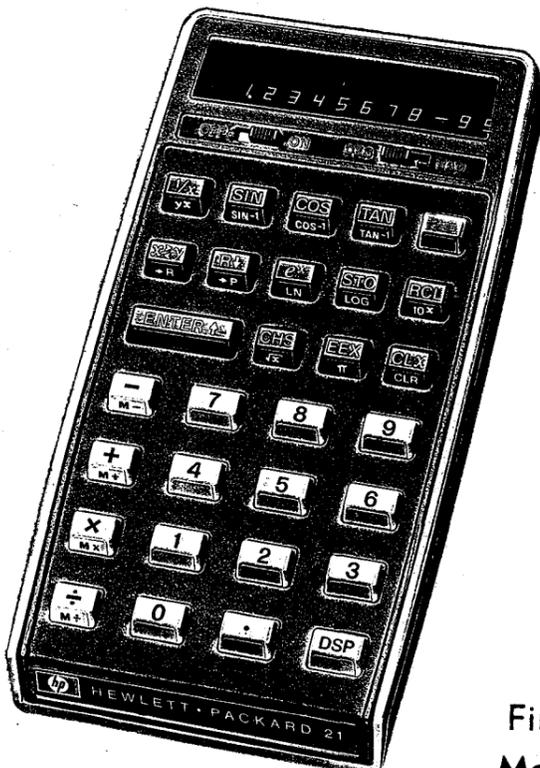
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# Then Came Tidal Wave At Tree Top Level

Shaking desert sand and dust from the weathered paint of their slab sides and twin tails, the four engine bombers lumber out of the heat of an African night climbing slowly into a new day.

There are 178 B24s, each with a crew of 10 men, up from the American base at Bengazi at first light this Sunday carrying 310 tons of bombs, more than two million bullets, north into Europe.

This mission called Tidal Wave is to be the longest yet, a round trip of at least 2,300 miles, most of it over hostile territory. Air crews of four of the five bomb groups—Ted's Traveling Circus, the Pyraxiders, Liberandos and Eight Balls—have been to fight in the sky at least 15 times before. Some 300 men have more than 25 missions behind them and know the odds for safe return are getting very long. Only the men in the factory fresh B24s of the trailing group who call themselves the Sky Scorpions are new to air combat.

All of them have been told they are flying to shorten the war, that coming back is secondary today.

It is August 1, 1943, the 36th anniversary of the U.S. Army Air Force.

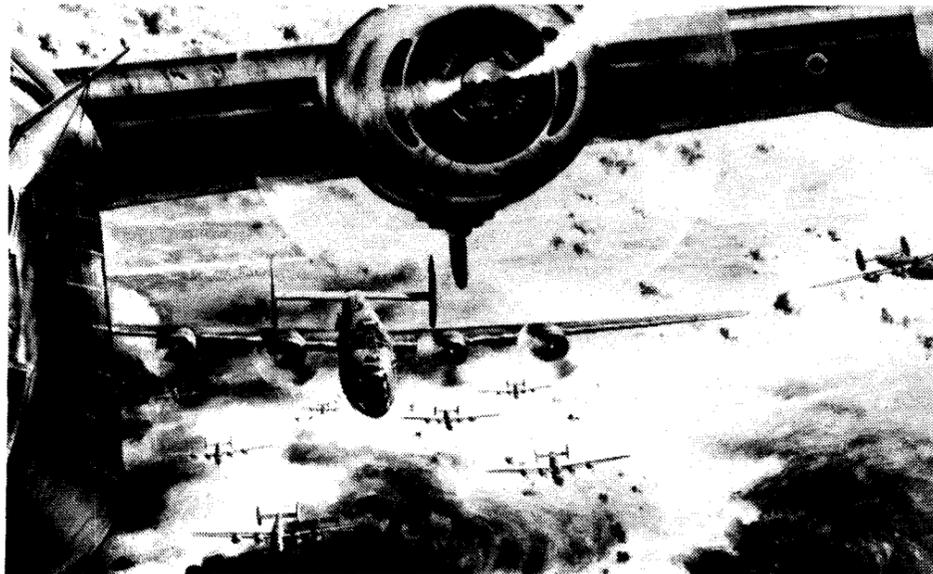
Uneasy partners in Khaki, soldiers and airmen argued incessantly for most of those years on how best to use this new winged weapon that showed much promise in World War I.

Skeptical soldiers wanted airplanes to clear a path for tanks and infantry. Airmen, believing in their souls that the machine had changed the very nature of war, spent 20 years evolving fragile kites of spruce and doped fabric to sleek metal monsters bristling with machine guns able to carry tons of bombs 1000 miles or more. Victory, the aviators contended, lay in airpower, massive fleets of bombers soaring over the mire of the battlefield, deep into the enemy's homeland to destroy his ability to make and move the machines of modern war.

There were inconclusive early trials of the American concept of daylight strategic bombing over France and Germany. Then came Tidal Wave.

Tucked in tight in standard three plane vees, the B-24s are bound for the oil wells, tank farms, pumping stations and refineries ringing the Roumanian city of Ploesti, source of more than a third of the gasoline, diesel oil and lubricants for German planes, tanks and submarines. As yet untouched in this fourth summer of war, Ploesti is guarded by experienced fighter pilots and flak gunners who know its importance.

Enroute to the target, several B-24s drop out and turn back, props feathered on dead engines. Over Albania, the formation breaks up while penetrating a weather front. In the lead, the Liberandos and



American B-24s bomb Ploesti May 31, 1944, in one of many high altitude raids following the Tidal Wave low level attack the previous year.

Traveling Circus are whisked along by brisk tail winds at 16,000 feet. Flying lower, the other three groups hold together and fall behind.

Ploesti's defenders have watched Tidal Wave come to them all morning in plotted positions from radio intercepts, coast watchers, radar and fighters that failed to intercept. Suddenly, just 150 miles out, all contact is lost. The bombers vanish.

Counting on the Germans to anticipate they will bomb from high altitude as they unfailingly have done in earlier raids elsewhere, the bombers come in under the radar, racing the last miles at tree top height.

A few minutes after 1:30 p.m. local time, lead B-24s of Tidal Wave burst from a mountain valley into the flatlands southwest of Ploesti. The Liberandos and Traveling Circus have missed a check point and turned too soon for the target. Off to their left the crews see dark smoke hanging above the refineries, realize their error. Circus planes first, then the Liberandos, break left and go for the nearest refineries at 245 miles an hour—50 feet off the ground. The other three groups begin bomb runs far to the northwest of the city about the same time.

Instead of the planned simultaneous strike by five groups on the widely dispersed targets, the first planes come in alone from the wrong direction at the wrong target.

The next 30 minutes span one of history's wildest battles. Air gunners duel point blank with startled flak crews. Huge planes designed to fly and bomb four miles high roar across Ploesti and the

surrounding oil fields at roof top level, criss-crossing through smoke and flame, maneuvering violently to avoid refinery towers, mushrooms of exploding gasoline and mortally hit B-24s.

Going in and coming out the bombers fly through the heaviest flak concentration in Europe, small arms of every size, machine guns, rapid firing 20 mm and 37mm cannons, 88 and even 105mm guns. Slewing rapidly to fire at B-24s hurtling by almost on the muzzles of their guns, some flak crews spray men in other gun positions. Head on, the bombers are too big to miss. One takes a direct hit from an 88, simply stops flying. Others are torn to pieces in the air by streams of bullets. Here and there, tracers reach wing or bomb bay tanks. The stricken bombers trail fire and smoke but hold on for their targets.

A hard hit bomber staggers into a gun battery and explodes. In the third wave of the Traveling Circus, a B-24 ablaze from nose to tail flies into the side of a refinery building. The wingless fuselage emerges from the other side, slides on and crashes into another building. Six ships in the last wave of the Pyramids plunge into a wall of fire and smoke rising from their target. Only one comes out the other side.

Five miles from the bomb release point, the B-24 flown by Lloyd H. Hughes of the Sky Scorpions takes a hit in the bomb bay tank. Raw gas gushing from his ship, Hughes holds formation straight into a pillar of fire rising from the target, drives his bombs home. His friends in other planes watch helpless as Hughes heads the plane, a flying ball of fire, for a field just beyond the target. For an instant it ap-

pears he will get it down, then the right wing catches the ground. The plane cartwheels and explodes.

Coming off the target, the scattered survivors hug the ground, props feathered on damaged engines. Many are burning. The planes are sieves, filled with dead and injured men. In twos and threes the bombers flee south. A few head southeast hoping for Turkey. Waiting fighters pounce on the cripples like sharks on bleeding whales.

Behind them, the refineries and tank farms erupt in flame. Germans and Roumanians round up Americans who by some miracle survived low altitude parachute jumps. A few badly burned men count themselves lucky to be alive as they crawl from wrecked planes into captivity.

At appalling cost, Tidal Wave knocked out part of the Ploesti complex, but the oil fields were too big for one raid. Working day and night to repair the damage, 10,000 slave laborers had Ploesti shipping its full quotas of gasoline and oil within a few days.

The day after the raid the U.S. Ninth Air Force had but 38 of the 178 bombers sent on Tidal Wave fit to fly. Counting eight cripples that took their crews as far as Turkey, 53 B-24s had been lost. The human cost: 310 dead, about one in five who actually reached the target; 130 wounded, many of them among 108 airmen captive in Roumania.

Tidal Wave was the first of a series of near disasters climaxed by Black Thursday, the October 14, 1943, raid on the ball bearing plants at Schweinfurt which cost 65 heavy bombers and 650 airmen, that forced the Americans to abandon long range daylight attacks for several months.

Beginning in the spring of 1944, new fighters shielding the B-17s and B-24s all the way to their targets made the U.S. heavy bombers the daylight rulers of European skies, but nine months passed before they came back to Ploesti.

The Russian army overran the oil fields in the late summer of 1944, after the bombers struck Ploesti 25 times. The U.S. lost 286 planes, the British Royal Air Force 34 more. Ploesti still pumped at 20 percent capacity when the Russians took it.

The great streams of heavy bombers and the rolling thunder of their engines are gone forever. Only a tradition remains from Tidal Wave and Schweinfurt and hundreds of other sky battles of World War II with happier endings.

No matter how savage the opposition, an American bomber force, once committed to battle, has never turned back.

Sources: "Ploesti" by James Dugan and Carroll Stewart, Random House, Inc., N.Y. "Black Thursday" by Martin Caidin, Ballantine Books, N.Y.

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## Around-The-Clock Testing

A test technician puts a missile motor in a high-temperature chamber at Product Assurance Directorate, sets the thermostat and goes home, leaving the sample for an overnight test in an unattended laboratory.

Late that night a phone call awakens him at home. A control is sticking, the temperature is going out of tolerance and the chamber has been shut down to keep from damaging the sample.

The technicians immediate problem is to try and salvage the test. He quickly weighs his options based on information the test monitor is feeding him over the phone. He may tell the monitor simply to restart the test in hopes th faulty control will work given another go. Another option is to change the test criteria so that meaningful results can be obtained despite the malfunctioning chamber. Or he may decide the best course of action is to terminate the test.

Whatever course he decides upon, he can go back to sleep with the knowledge that his expensive and important test is not going to go up in smoke. He doesn't bother to say good night when he hangs up, as the computer on the other end of the line wouldn't understand.

Late-night exchanges between an around-the-clock test monitor and home-in-bed Product Assurance technicians likely will be taking place in the near future. The test monitor is a computer that places the alerting phone call, explains the problem to the technician and takes whatever corrective action it is told to take.

The alerting system is one of several applications being developed for a mini-computer at Product Assurance Directorate by Richard Meremonte, a young electrical engineer in the intern training program.

Technicians will communicate with the computer via a portable remote teletype terminal. The communications link is made by placing the telephone receiver in a cradle on the terminal.

Messages from the computer appear on the teletype. By punching a two-digit code on the keyboard the technician instructs the computer to execute any of 14 commands.

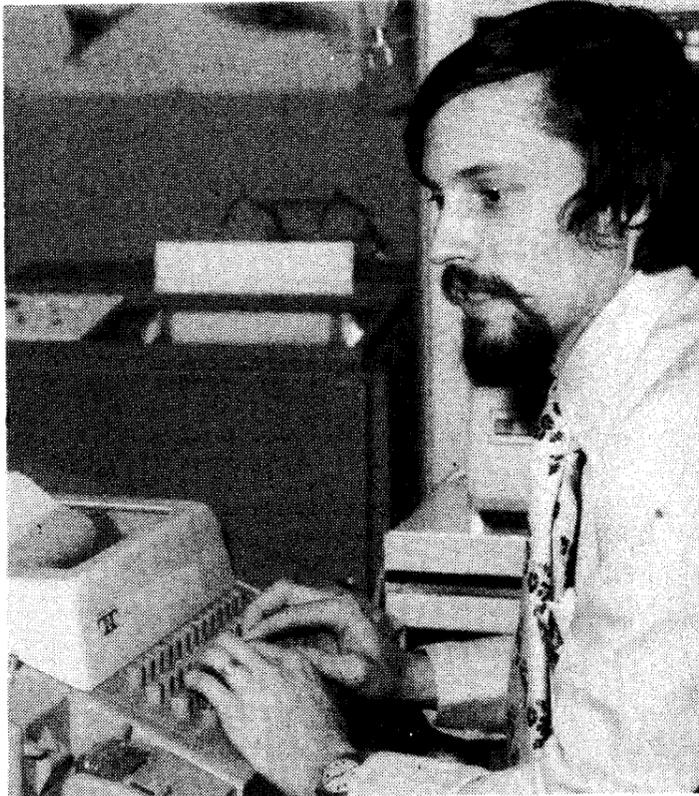
The computer will be connected to 16 test chambers that produce heat, cold, humidity and pressure. It will monitor each chamber every five minutes to make sure actual test conditions square with test parameters that have been programmed into the computer. The program also contains a set of instructions that let the computer automatically correct some types of test chamber problems without signaling the technician.

Meremonte hopes to have the alerting system on-line around mid-year. It is just one of several applications he has in the mill for the mini-computer which he has equipped with a multi-programmer, an analogue to

digital setup and real time software that permits running computer programs without waiting for free time.

In one application the computer measures in seconds the accuracy of bends and angles in hydraulic tubing that took hours to measure

by hand. In another it is giving technicians a graphic look at how thermal batteries used in missiles perform. The computer measures and plots a performance graph of load conditions of the batteries, which have a life of only about 15 seconds.



**Meremonte:**

*Conversation With A Computer*

## Some Education Programs Open

WASHINGTON (ANF)—Recent congressional action eliminated money to support the FY 76 fully funded enlisted education program. As a result, new enrollments in the program have ended; all pending applications at MILPERCEN's Enlisted Personnel Directorate are being returned.

Despite the end of the program—which gave selected soldiers up to two years of college education at government expense—other roads to a college degree are still open to the enlisted soldier.

The fellowship, scholarship or grant program—which authorizes qualified soldiers to compete for educational programs offered by corporations, foundations, funds or educational institutions—is still available to eligible personnel.

This program provides outstanding soldiers an opportunity to

study for up to two years on subjects needed by the Army. These subjects will be announced later. The required skills probably will be in the scientific and engineering fields. (See AR 621-7 for details.)

Redstone soldiers should contact the Army Education Office (6-2844) for other programs available for continuing off-duty education under GED (see AR 621-5). Under tuition assistance, the Army pays up to 75 per cent of tuition costs—or fees in lieu of tuition costs, for Army personnel attending off-duty classes conducted by accredited civilian education institutions.

The Army plans to request congressional permission to reestablish the enlisted undergraduate degree completion program (Bootstrap), which ended in October 1974. Major commands will be notified if and when the program is reinstated.

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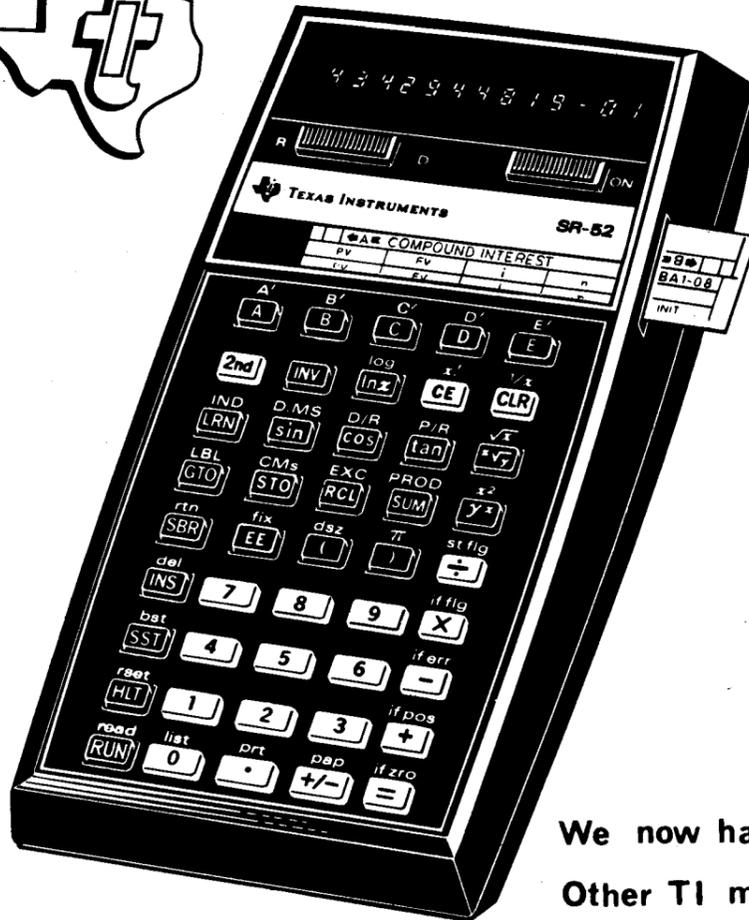
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## Hall of Heroes Dedication Set

The Hall of Heroes will be dedicated Saturday at 2:00 p.m. with public ceremonies in the Madison County Courthouse lobby.

The Hall features three Madison County residents who have won the Congressional Medal of Honor, the Nation's highest valor award. Paul Bolden, an employee of the Missile Command, is one of the three who will be honored. The late Cecil H. Bolton, a retired Army Colonel, and Richard Taylor, a Civil War private, are the other two who have won the Medal.

The Hall of Heroes is a unique display of the medals issued by all branches of military service in the United States. Additionally, all those Madison County persons who have won the medals will be listed above the replica of the award they won.

J. Elliott Williams, Executive Vice President of the Congressional Medal of Honor Society of the U.S., will be the principal speaker at the dedication. Major General Charles A. Rollo, Alabama Adjutant General, will present dedicatory remarks.

James Record, Chairman, Madison County Commissioners, will be master of ceremonies of the

dedication. The 14th Army Band from Ft. McClellan and the UAH Village Singers will present the music.

## First Termers In Big Demand

WASHINGTON (ANF)—It appears some soldiers on their initial hitch are not reenlisting because they do not understand reup rules.

According to DA officials, any first termers who has his CO's approval, who meets reenlistment criteria without waiver, has a high school diploma—or GED equivalent, and has an MOS test score of 100 or better, may reenlist.

However, the Army is just as interested in reenlisting soldiers who may not meet all these requirements—such as those who have an MOS test score between 70 and 100. These soldiers—called group II first termers—have to submit a written request to the Year Group Management Division at MILPERCEN for authority to reenlist.

Group II soldiers should not consider themselves second class citizens. Army officials say soldiers were grouped according to Army needs regarding maintenance of a balanced MOS structure and not an individual's quality level. Reenlistments from both groups, particularly Group II, are desired to meet FY 76 reup goals.

Upon reenlistment, the group II soldier may be channeled into skills that the Army needs. He cannot reenlist just for the sake of reenlisting—regardless of skill.

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- 4 bedroom multi-level on Cedar Gate Rd. NW—\$48,000.
- 4 bedroom 2-story on Cedar Gate Rd. NW—\$47,000.
- 4 bedroom rancher in Pleasant Acres—\$43,500.
- 4 bedroom 2-story: 1605 Governors Dr. SE—\$59,950.

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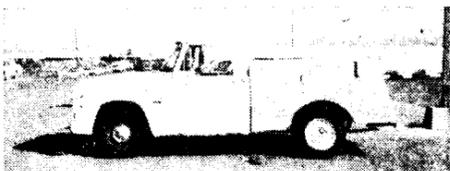
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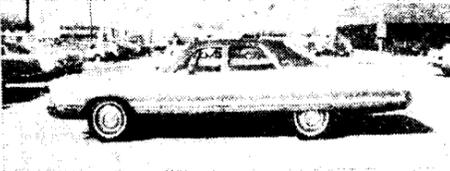
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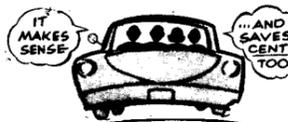
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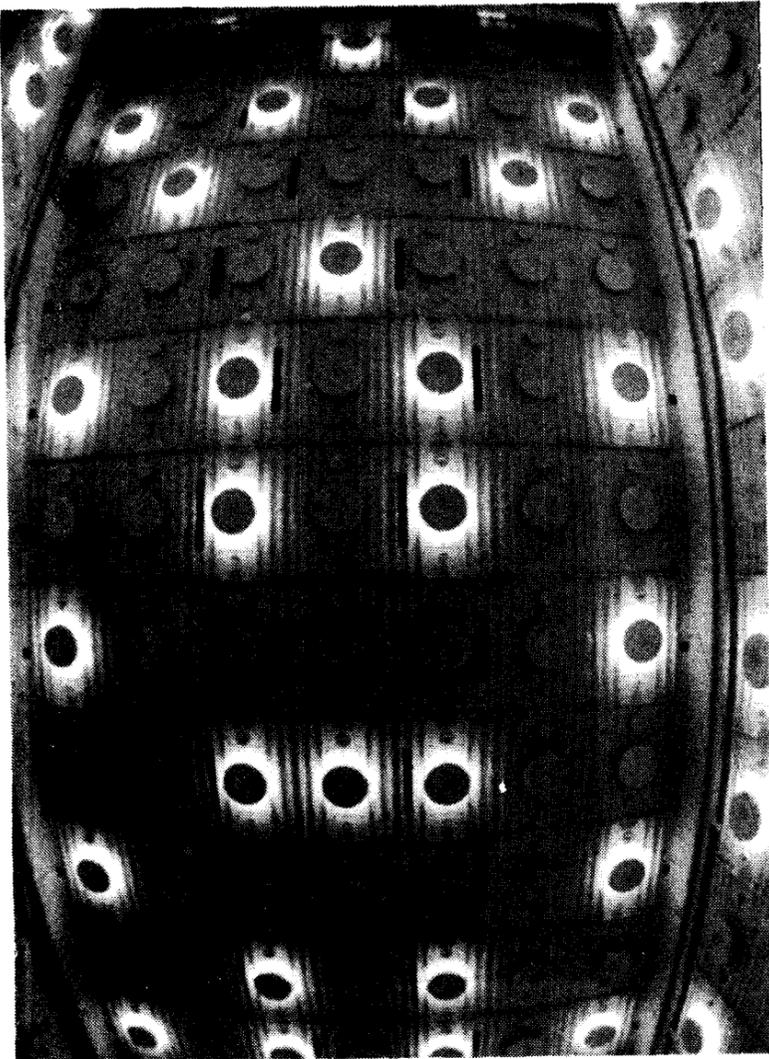
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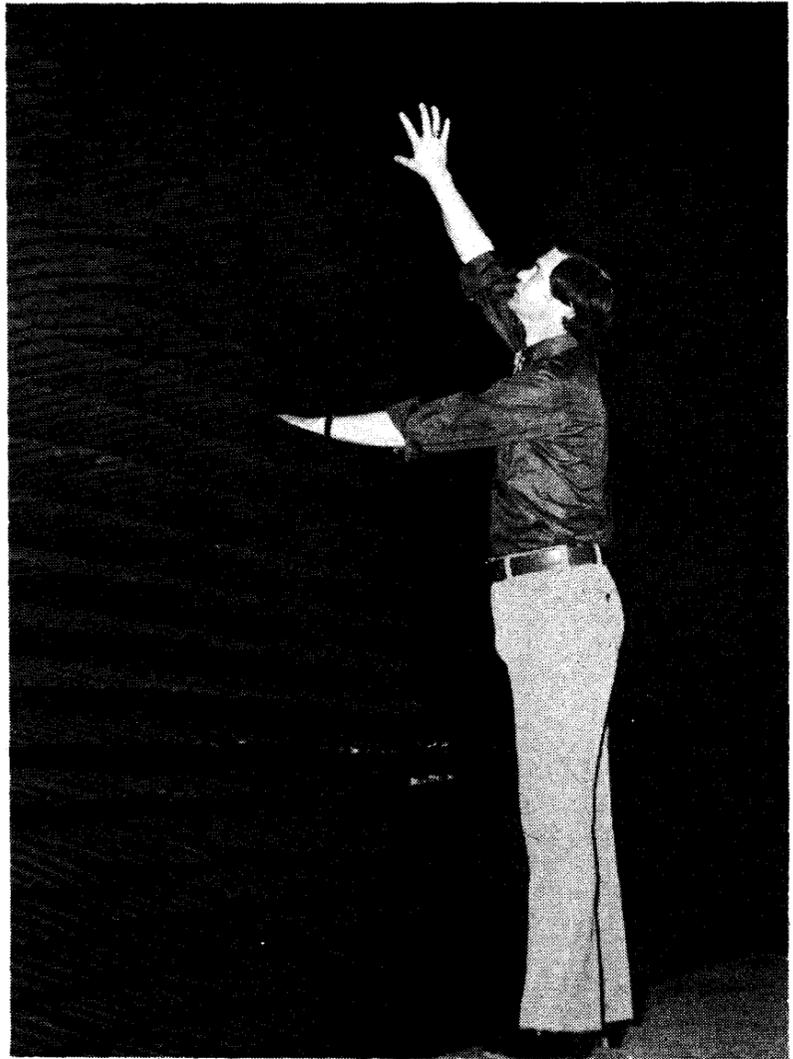
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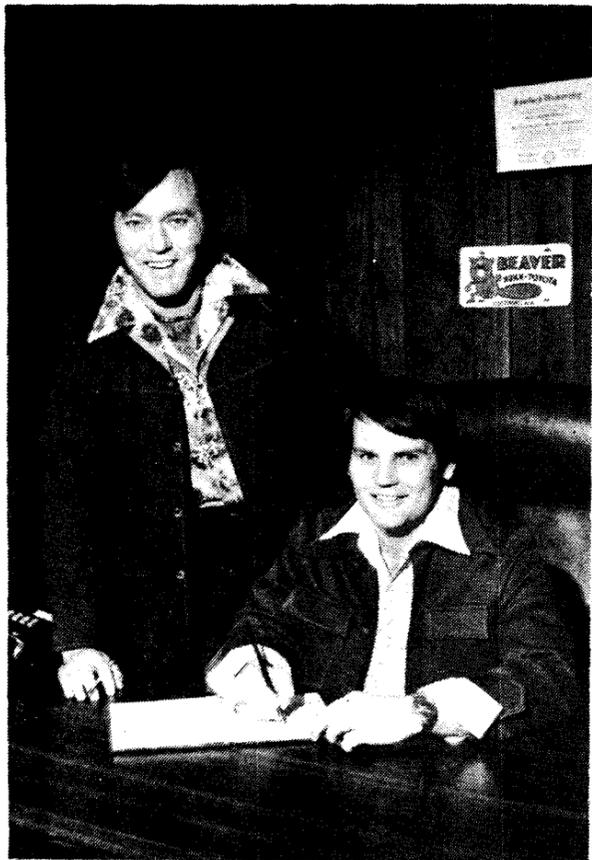
**(LEFT) RANDALL ROBISON**

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