

The Redstone Rocket

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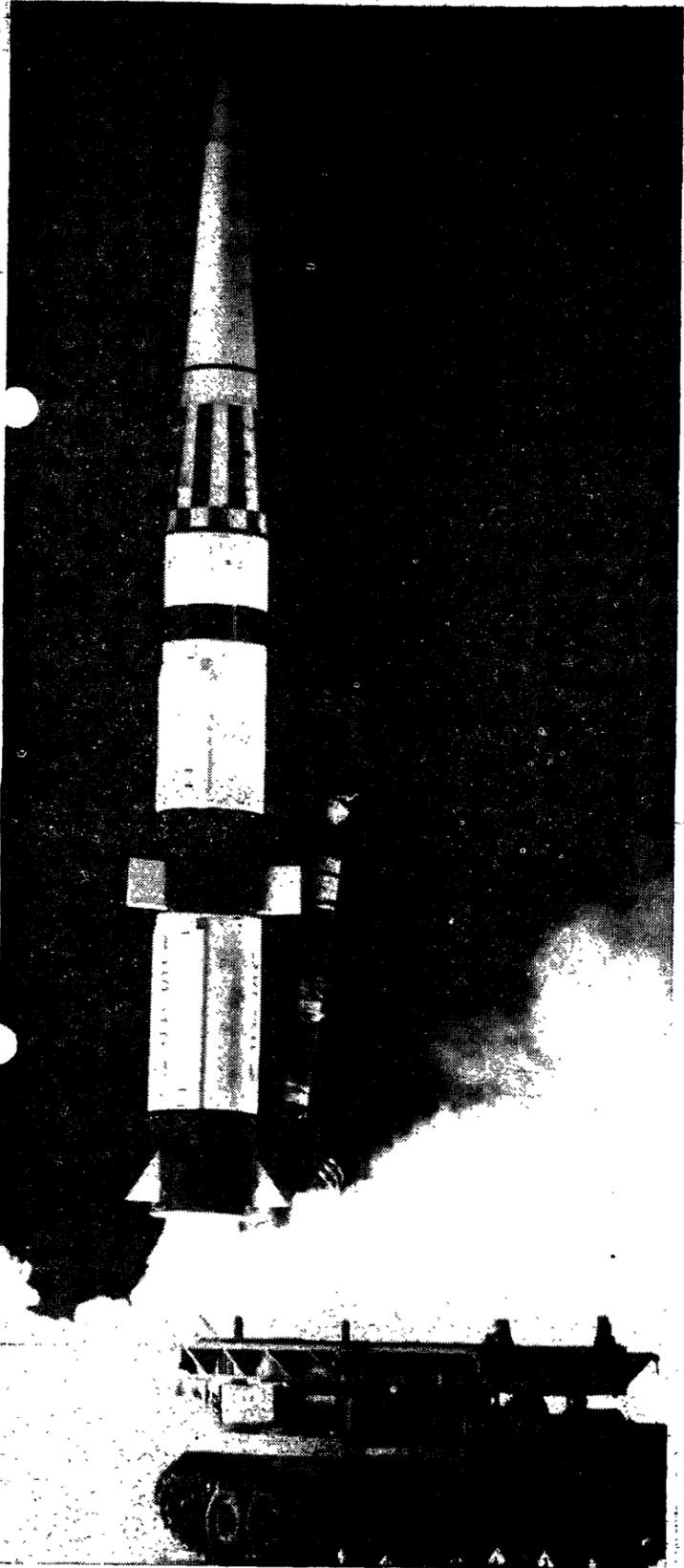
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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

NOVEMBER 22, 1961

FOUR SUCCESSFUL ROUNDS IN 24 HOURS —

Zeus, Pershing Score!



LIFTOFF!—ABMA's Pershing leaps from the back of its XM-474 fully tracked prime mover in the first instant of a successful firing test Wednesday night at Cape Canaveral. Pershing's perfect performance made last week the best ever for Army missiles.

Troops Watch Pershing Firing From Blockhouse

Army troops scheduled to fire the Pershing ballistic missile in the field watched from the blockhouse Nov. 15 as the U. S. Army successfully fired another Pershing from Cape Canaveral, Fla.

Data available immediately after the firing indicated that all test objectives were met, the Army said. Missile operation was as planned and the warhead impacted in the pre-selected target area.

The military personnel were receiving "over-the-shoulder" training as they observed the missile test crew conduct the firing operation.

Brig. Gen. Richard M. Hurst, Commander of the Army Ballistic Missile Agency, said one objective in last week's test was evaluation of missile performance under simulated hot motor conditions that might be expected in the extreme heat of tactical operations in the desert.

Fired from its Erector Launcher (See PERSHING on Page 2)

Zeus Bats 3 for 3

ABMA STAR SHINES, TOO!

U. S. Army missiles and the men and women behind them at Redstone Arsenal scored an unprecedented four way success within 24 hours last week.

ARGMA's Nike Zeus anti-missile missile racked up three straight successes in firing tests at White Sands Missile Range and Pt. Mugu, California, Wednesday and Thursday.

ABMA's Pershing scored the fourth triumph with a routinely perfect flight from Cape Canaveral Wednesday night. Details of Pershing's outing appear elsewhere on this page.

Zeus and its rapid fire, eye-opening performances attracted nationwide attention. Headlines across the country told the nation that ARGMA's developing missile killer had scored "a 100 per cent success" in a long range flight at Pt. Mugu that came within hours of back to back successes at White Sands.

The Zeus shot at Pt. Mugu Thursday was witnessed by representatives of the national press. It was the missile's initial successful overwater outing.

Range and altitude reached by the missile were not disclosed.

The missile test firings will continue at Pt. Mugu where firings over the Pacific will enable ARGMA to send the three stage solid fuel missile over its full range at very high altitudes.

Range limitations of the 100-mile-long White Sands Missile Range prevented such tests from being accomplished at that location where Zeus missile firings have been in progress since August, 1959. Testing of the Zeus missile and other components of the system will continue there.

The missile flashed from its sea-side launcher at Pt. Mugu under the impulse of its 450,000 pound thrust stage booster motor and had disappeared into a low overcast within seconds.

Newsmen at the press site could hear the sustainer motor roaring above the clouds, however, and broke into scattered cheers and applause.

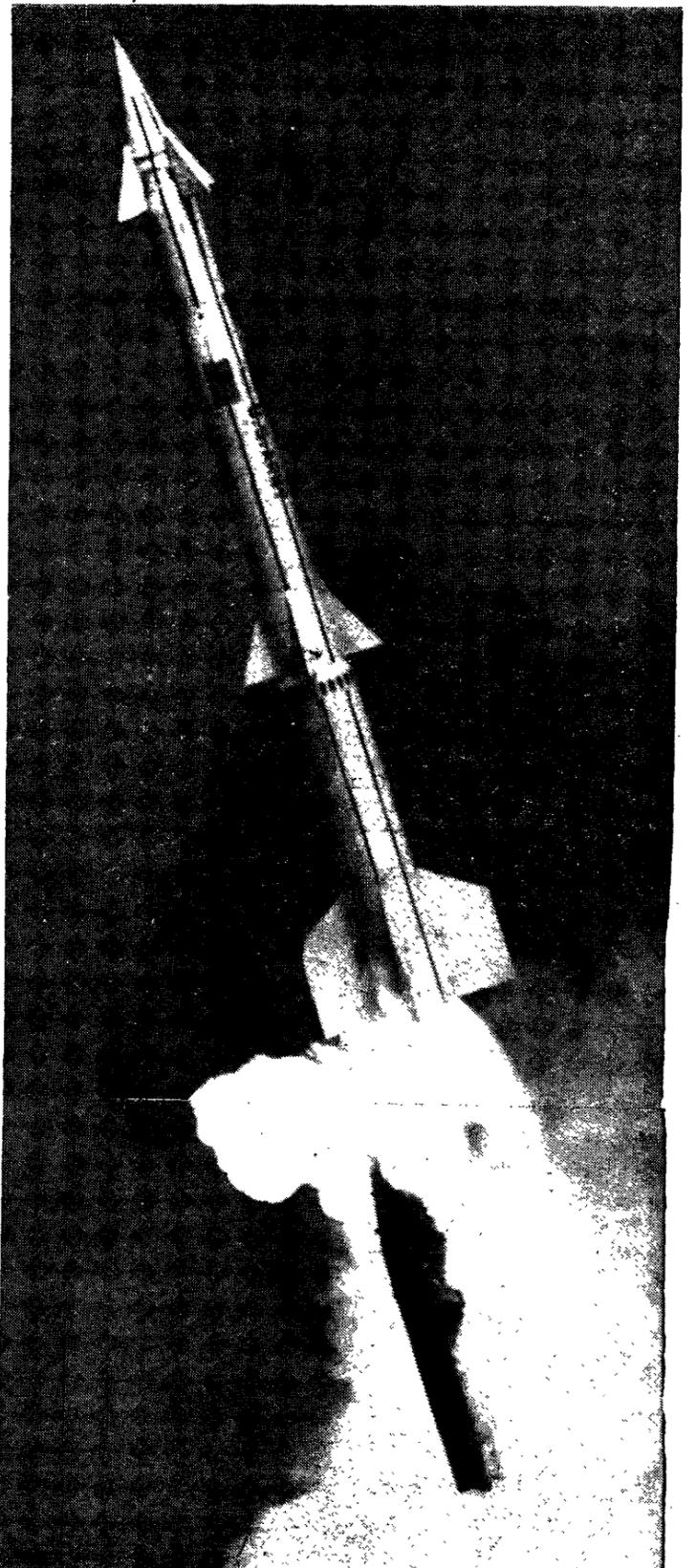
Brig. Gen. John G. Zierdt, ARGMA Commander, announced shortly after the firing that all test objectives had been met.

The missile was launched from an above the-ground rail used in the development program rather than the underground cell planned for operational use. The cell launch method has been successfully tested at White Sands. The Army has no plans to duplicate such facilities at Pt. Mugu where the test installation has been kept as simple and inexpensive as possible.

Second of the two missiles launched within an hour of each other the previous afternoon at White Sands roared from the underground cell.

In the first test, Nike Zeus radar tracked a special test target and the ground electronics of the missile defense system successfully controlled a Zeus missile in flight.

Nike Zeus, the Free World's only missile defense system in ad-



MISSILE AWAY!—ARGMA's Nike Zeus anti-missile missile clears its launch rail in a firing test at Pacific Missile Range Headquarters, Ft. Mugu, California. Zeus missile fired Thursday —scored the third successful test for the missile defense system in less than 24 hours. (U. S. ARMY PHOTO.)

Gen. Trudeau to Present R&D Achievement Awards

Lt. Gen. Arthur G. Trudeau, chief of the Army's Research and Development Operations, will present eight Army scientists and engineers with 1961 R and D Achievement Awards here Monday.

The award will take place at a dinner in the Hawk Room of the Officer's Open Mess at 12:30 p.m.

At the award dinner, Gen. Trudeau will hand plaques and pins to the men who were part of a group of 27 chosen from more than 8,000 Army research and de-

velopment scientists and engineers.

Individual awards were won by: Jess B. Huff, Chief of the Guidance, Control, and Aeronautics Laboratory of the Army Ballistics Missile Agency; John L. McDaniel, technical director of ABMA's A&D Operations and William A. McCool, of the Physical Science Administration at White Sands Missile Range.

Team awards went to: Niles C. White and Harry S. Williams, (See TRUDEAU on Page 2)

The Redstone Rocket

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TRUDEAU

(Continued From Page 1)

chemists with the Army Rocket and Guided Missile Agency; and William B. McKnight, Lonnie W. McClusky, and Gene H. Widenhofer, R&D Operations, ARGMA.

These awards were given for significant achievements that contributed to military technical improvement, advanced the Army's technical capability, or contributed to the national welfare.

Gen. Trudeau will be accompanied during his visit by Brig. Gen. William F. Ryan, Director of OCRD's Plans and Management; and Brig. Gen. C. W. Clark, Chief of Army Ordnance Research and Development and other members of the OCRD staff.

Arriving Monday morning, Gen. Trudeau and his party will see ABMA's Pershing Test Stand facilities and ARGMA's Environmental Lab. facilities before the luncheon.

He will also meet Brig. Gen. John G. Zierdt, ARGMA Commander, and Brig. Gen. Richard M. Hurst, ABMA Commander, during his morning tour.

After the luncheon he will confer with Brig. Gen. Zierdt and Brig. Gen. Hurst on system development problems of their agencies and will discuss R&D facilities requirements for the Army Ordnance Missile Command with Maj.

ZEUS

(Continued From Page 1)

vanced development, uses radar to collect data on its targets. An electronic brain on the ground uses this data to automatically guide the missile to its target.

The second firing was a combination test of the Zeus missile in the launch method planned for operational use and the ground electronics that control it in flight. The missile darted from its subsurface launch cell, then maneuvered in flight in response to control commands from its ground guidance center.

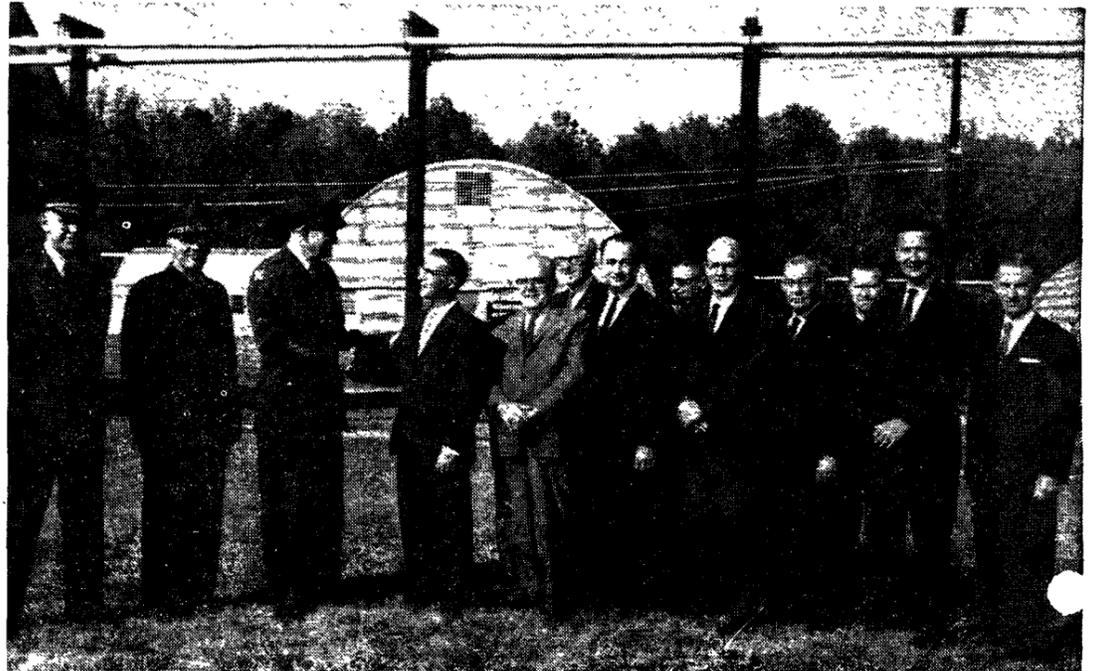
Gen. Zierdt said important test objectives were met in both the White Sands tests.

Adding frosting to the cake locally was the fact that the solid fuel motors used in Pershing and all three of the Zeus missiles were Huntsville products, made at Redstone by the Thiokol Chemical Corporation's Redstone Division.

RE-ELECTED

James Holland of the American Federation of Government Employees Lodge 1858 has been re-elected first vice president of the Alabama State Department of A.F. GE for the fourth time. The election took place early this month.

Gen. August Schomburg, AOMC Commanding General.



OVER 140 YEARS GOVERNMENT SERVICE RECOGNIZED—Seven employees from ABMA's Field Support Operations received twenty-year service pins recently from Brig. Gen. R. M. Hurst, Commander of ABMA. Looking on, left to right, are Maj. C. A. Boterf, Deputy Director of Industrial's Maintenance Division, and Lt. Col. C. A. Hall, Deputy Director of Field Support Operations. Gen. Hurst, shaking hands with award receiver E. S. Parsons, presented pins to, front row, left to right, C. S. Desmond, H. R. Cubbege, T. C. Faulkner, F. A. Cason, and C. W. Allen, Supervisors of the employees stand in the second row and are, left to right, E. G. Allen, W. McKeever and R. Watts.

PERSHING

(Continued From Page 1)

er mounted on the XM-474 tracked vehicle, the Pershing went on a short range mission on this flight!

Further evaluation of the missile's guidance and control and warhead components was included in the test objectives. Brilliant flares were ejected from the missile's warhead section to aid in downrange tracking.

Instrumentation in the nose section transmitted data to ground stations on the functioning of warhead components.

The Martin Co. of Orlando, Fla. is the prime contractor for the Pershing, under the technical supervision of the Army Ballistic Missile Agency.

A crew composed of Martin Co. personnel and others from the ABMA Test, Evaluation, and Firing Laboratory conducted the firing, one of a continuing series in the development program.

Sports Quiz

1. Can you name the player who was selected as the American Football League's most valuable player last season?

2. Mickey Mantle and Roger Maris finished one-two for the American League home-run crown in 1960. Who finished right behind them?

3. Defeated by Althea Gibson in the final round of the 1959 U. S. Women's Single Championship, this native Californian finally won the coveted title in 1960. Who is she?

4. The tallest listed player in the NBA is which of the following? (a) Wilt Chamberlain; (b) Bill Russell; (c) Swede Halbrook

5. No amateur golfer has ever won the Masters. Who came closest? (a) Jack Nicklaus; (b) Arnold Palmer; (c) Ken Venturi.

(Answers to Quiz)

1. Abner Hayes of the Dallas

THE ARMY'S new light-tank weapon, which consists of a rocket propelled shape charge grenade in a disposable launching tube (which also serves as a packing container for the missile), costs about \$30, yet it can easily kill a \$100,000 tank.

Texans.

2. Jim Lemon.
3. Darlene Hard.
4. Halbrook at 7'3".
5. Venturi finished second, losing by one stroke in 1956.

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Federal Employees Receive Flu Shots

Civil Service employes at Redstone Arsenal began taking flu shots Nov. 16, administered by the Occupational Health Service doctors at the Army Ordnance Missile Support Agency.

The Occupational Health program at the Arsenal is headed by Dr. Burton S. Shook.

The flu shots have been offered to employes who wish to take advantage of this service. Scheduling the shots is being completed by Civilian Personnel Offices in each of the Army Ordnance Missile Agencies.

The doctors estimate that approximately 1100 people can be injected each day.

Approximately 6,000 of the 15,000 Civil Service employes from the Army and the Marshall Space Flight Center have requested the flu shots. The injections will be given at the old Post Hospital in the part used for Bloodmobile visits each month. Red Cross Gray Ladies from the Post are on hand to help the Occupational Health nurses in case of need.

The administrators of the program have arranged with the vaccine supplier for an additional supply within 24 hours if the need for more vaccine is established. The employe pays a nominal fee for the vaccine.

The program is part of the Ordnance-Corps-wide policy to provide preventive medicine for its civilian employes in much the same manner as it does for the military members.

The first groups scheduled for these injections are employes at the Army Ordnance Missile Support Agency and the Marshall Space Flight Center processed on the second day.

Shots will be administered to all who wish them.



NO NEEDLING—Mrs. Martharene Chandler of the Army Ballistic Missile Agency, receives an influenza shot from Sp4 J. W. Berryhill at the Occupational Health Service building. Shots were administered to more than 2100 civilian employes by Monday. A pneumatic device injects the vaccine under pressure through the skin pores, replacing the needle-syringe operation of the past. The new device can give over 200 shots an hour.

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'56 PLYMOUTH V8, R&H, str. shift, extra clean. \$595.00 or \$34.00 Mo.

1957 Plymouth

Belvedere, 2 dr., 6 cyl., S. S., radio, heater, new tires. Like new. \$795.00.

'59 Chevy

2 dr. V8 str. shift, radio, htr., pwr. pack engine with 30,000 miles. Jet black. \$1295.00

'61 Comet

2 dr. str. stick, rad., htr., beautiful Red with red & black interior, local one-owner with 10,000 miles. \$1945.00

'61 Falcon

2 dr., rad., htr., str. shift. 11,000 miles, one owner, beautiful blue. \$1695.00

'60 Falcon

2 dr. str. shift, rad., htr., 22,000 miles, one owner. \$1495.00

'53 Chevy

Bel Air 2 dr. hardtop, auto, radio, htr., newly overhauled engine. \$395.00 or \$23.00, mo.

'56 Chevy

2 dr., sports cpe., 6 cyl., auto, rad., htr., new tires, red & white. \$895.00

1959 Volkswagen

Sedan, radio, heater, new tires. One owner, 28,000 mile car. Like new. \$1295.00.

1957 Chevy

4 dr. Bel Air Hardtop, radio, heater, auto., full power, black and white, local owner, like new. \$1195.00.

'54 Ford

4 dr., V8, straight shift, R&H. \$195.00 Only \$12.00 Mo.

1957 Ford

2 door hardtop "500". Radio, heater, new tires. Like new canary yellow and white. One-owner, low mileage. \$1295.00.

'55 Chevy

4 dr. V8, auto., radio, htr., 5 new tires, one owner with 33,000 miles. You must see this car to believe it. It's NEW! \$795.00

'56 T-Bird

H'top, pwr. steering and brks. rad., htr., green & white, all original. Has continental kit. This car was bought new by Desi Arnez. \$2195.00

'56 Ford

2 dr. h'top, radio, htr., new tires, beautiful red & white. Like new. \$795.00

'58 Chevy

Bel Air 2 dr., radio, htr., full power, auto trans., new tires, low mileage. Extra clean. \$1295.00

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2 dr., h'top Fairlane 500. Radio, htr., local one owner. 40,000 miles, red & white. \$1595.00

'56 STUDEBAKER 2 dr. 6 cyl. str. shift, Champion, 22,000 mi. Newly overhauled engine. \$595.00 or \$34.00 Mo.

1951 Olds

4 door V8, auto., radio, heater, good tires. \$95.00.

1956 Chevy

4 door, 6 cyl., straight stick "210". Radio, heater. Beautiful green local one owner. 22,000 miles. Guaranteed 30 days \$895.00.

1955 Ford

4 door V8 straight stick with O'drive, radio, heater, new tires. This car immaculate. \$795.00.

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1951 Jeep

2 door station wagon, 6 cyl., O'drive, newly overhauled engine. Original paint. Extra clean. \$395.00 \$23.00 mo.

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1960 Chevy Pickup

½-ton pickup with fleetside bed. New tires, 29,000 actual miles. Extra clean. \$1595.00.

1957 Chevy Pickup

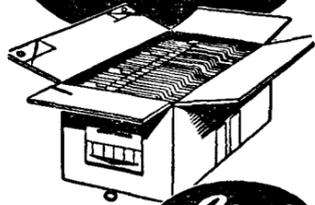
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Social News

Lt. Col. Sovers, Mrs. Sevareid Win At Party Bridge

Seven tables were in play at the Monday night Party Bridge Group meeting on Nov. 13 at the Squirrel Hill Officers Club.

Winners for the men were Lt. Col. James Sovers, first and Mr. Winford Patton, second.

Winners for the women were Mrs. John W. Sevareid, first and Mrs. James Clift, second.

Reservations or cancellations may be made with Mrs. Sevareid by noon on the preceding Saturday.

Wiesman Is Elected Communication Council President

Walter Wiesman, an employe of the Civilian Personnel Office of the U. S. Army Ordnance Missile Command, has been elected president of the Industrial Communication Council.

The Council is a nation-wide organization of professional communicators from more than 40 top U. S. corporations and government agencies. Its purpose is to advance communication in business and government.

Two meetings are held annually and Wiesman's election was at the fall meeting in Philadelphia recently.

At present, employe-management communication advisor for AOMC, he has been connected with the development of information programs related to scientific, educational and management aspects in missile and space activities since 1956.

Movie Schedule

Wednesday, Nov. 22, "Mr. Sardonicus" (M-YP) starring Ronald Lewis and Audrey Dalton. Time 1800 and 2030 hours.

Thursday-Friday Nov. 23-24 "The Second Time Around" (F) starring Debbie Reynolds and Steve Forrest. Time 1800 and 2030 hours.

Saturday, Nov. 25, "Two Little Bears" (F) starring Eddie Albert and Jane Wyatt. Time 1800 and 2030 hours. SPECIAL MATINEE: 1115 hours.

Sunday-Monday, Nov. 26-27 "The Wonders of Aladdin" (F) starring Donald O'Connor and Noelle Adam. Time Sunday 1400, 1800 and 2030 hours. Time Monday 1800 and 2030 hours.

Tuesday, Nov. 28, "Claudelle Inglish" (M) starring Diane McBain and Will Hutchins. Time 1800 and 2030 hours.

Bridge Group Holds Party Day at Club

The Bridge Group sponsored by the Redstone Arsenal Officers Wives Club met Thursday at the Squirrel Hill Officers Club for "Party Day."

A travelling prize went to Mrs. E. M. Krembs. A slam prize and the honors prize were won by Mrs. A. C. Blake, the second slam prize by Mrs. C. A. Thoman.

High score for the day's play was made by Mrs. E. R. Christopherson.

Reservations to play with the group may be made with Mrs. C. W. Hartman. The Group meets each Thursday at 10 a.m. at the Squirrel Hill Club.

Instrument Society Meets Next Tuesday

The Instrument Society of America will meet on Tuesday, Nov. 28.

Dinner will be served at 7:00 p.m. Robert W. Kaisner, manager, Instrument-Branch of PWT, ARO, INC., Tullahoma, Tenn., will speak on "Wind Tunnel Instrumentation."

Reservations must be made by noon Monday, Nov. 27 for dinner. Contact L. Yarbrough at 876-2777 for reservations.

The Huntsville Section welcomes the attendance and participation in its meetings of technicians, engineers and supervisors in this area with an interest in instrumentation.

Births at Post Hospital

Terre Lynn Stokes, 6 lbs., 15¼ ozs., Nov. 7, daughter of SP5 and Mrs. Leonard R. Stokes.

Deborah Ann Groves, 6 lbs., 13½ ozs., Nov. 7, daughter of 1/Lt. and Mrs. John E. Groves.

Jeffrey Louis Phillips, 7 lbs., 15¼ ozs., Nov. 8, son of 2/Lt. and Mrs. Errol Phillips.

Gary Wayne Bennett, 5 lbs., 9 ozs., Nov. 11, son of SP4 and Mrs. Levi Bennett.



SPEAKS TO WIVES CLUB—Harry O. Ruppe, Assistant Director for Future Projects at NASA, addresses the Redstone Arsenal Officers Wives Club during the November luncheon meeting which more than 100 members attended. Mr. Ruppe talked about Space Flight. At the head table (left to right) are Mrs. Cecil H. Fuller, luncheon program chairman; Mrs. Ruppe, Mrs. M. S. Schroeder, Mrs. Francis J. McMorrow, Mr. Ruppe, Mrs. S. C. Holmes, Wives Club president; and Mrs. J. G. Zierdt.

Wives Club Hears Speech on Space

Mr. Ruppe Describes Possible Travel in Future Space Ships

Harry O. Ruppe, Assistant Director for the Future Projects Office of the National Aeronautics and Space Administration's George C. Marshall Space Flight Center, spoke to more than 100 members of the Redstone Arsenal Officers Club at luncheon on Tuesday, Nov. 14.

The occasion was the monthly social meeting of the Wives Club at the Squirrel Hill Officers Club.

The subject of Mr. Ruppe's speech was space flight. He highlighted his subject with short film showing development of the space program at Redstone Arsenal and the possible moon landing by man in a few more years.

The luncheon and preceding sherry were arranged by a committee of wives of officers at the Army Ordnance Missile Command with Mrs. C. H. Fuller as overall chairman. The committees were

Mrs. Charles E. Palmer, chairman menu committee, Mrs. W. Stanley LeMay, Mrs. Paul Pencola, Mrs. Orlando Garcia, Mrs. Claude C. Anderson and Mrs. W. E. Andruss;

Mrs. Charles E. Harrison, chairman, decorations, Mrs. H. B. Holmes, Mrs. C. W. Goldey and Mrs. Rex Javins;

Mrs. Edward R. Billings, Hostess committee chairman, Mrs. Foster Furphy, Mrs. Leon Hirshorn and Mrs. William Kiser;

Mrs. R. L. Anderson, publicity; and Mrs. George Pickett and Mrs. W. G. Trainer, telephone.

The lunch tables had bouquets of maroon and gold chrysanthemums, interspersed with streamers of greenery. On the head table was an arrangement of fruit and vegetables flanked by white turkeys and pilgrim statuettes.

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FIRE PREVENTION PLAQUE—Col. Thomas W. Cooke (left) Commander of AOMSA, presents a plaque for the most outstanding "fire prevention" educational program to Brig. Gen John G. Zierdt (center), ARGMA Commander, and James H. Darrah, supervisory facilities specialist in the ARGMA Facilities Planning Office. Mr. Darrah conceived and carried out a program which included fire drills, demonstrations of combustible materials, and a contest in which one-third of the ARGMA personnel entered. Col. Cooke in making the presentation said not only is the program outstanding, but the interest it generated is outstanding, and will benefit the organization in the future by preventing fires. During the contest, Mr. Darrah also conducted unannounced inspections which proved fire prevention measures are being taken throughout the Agency.

At the Service Club

We start the Holiday season in earnest this week with the advent of Thanksgiving. As you know, we have one month before Christmas, and very little over a month when we will have a shiny new year. Therefore, now is the time to throw yourself into a mad whirl of the holidays and make the last bit of 1961 a memorable time.

What makes a time memorable? Well, fun, for one thing. And where can you find fun? Why at the Service Club, naturally.

On Wednesday, for example, the Dance Classes will meet at 1900 hours in the main lounge to get in shape for the rounds of holiday dances and parties. The Wednesday night classes are for the more advanced dancers, but if you're a beginner, drop by on Tuesday nights at 1900 hours for the basics.

Thursday, the 23rd. is Thanks-

giving Day, a day for meditation, gratitude, and good food. Why don't you get ready for a good noon-day meal by dropping by the club at 0930 for Coffee and Donuts? With only a light breakfast, you can more than do justice to the turkey. There will be a Bridge Party at 1330 hours Thanksgiving afternoon, then a Shutter Club meeting at 1900 hours, and a surprise serving of Tasty Goodies at 1930 hours.

On Friday there will be a change of pace with a Pool Contest at 2000 hours.

Then on Saturday the 25th, we'll have a musical program of Popular Sounds at 1800 hours. At 1330 hours Saturday we will have an unusual program—a railroad display. The trains will not be toys. It will be a model railroad with everything to scale. Then at 2000 hours, we will have a Stop The Music quiz program, so brush up on your tunes and win a prize.

Sunday the 26th, we'll serve hot coffee and doughnuts from the kitchen at 0930 hours. Then at 1330 hours, the Railroad Display will again be put into operation. I do urge you to see this display—it will be interesting to everyone. Those who think model railroads are toys will be surprised, when they see the display. Then at 2000 hours Sunday night, Clifford Barnes and his orchestra will get the Ship Ahoy Dance underway. Instead of the regular dance, we will have an orchestra and all the trimmings for this Sunday night. Drop in and join us.

Monday our Evening of Games will begin in the Main Lounge at 2015 hours.

There will be a Bridge Meeting at 1930 hours on Tuesday night. Our much-hoped-for production of Isn't She Lovely? didn't material-

ize, but we may have a chance to get the revue for February. So regretfully we have cancelled the show for this Tuesday, not knowing whether she was really lovely or not.

FUTURE:

It goes without saying that we have a busy month ahead of us. This time of year is always bounc-

ing with a lot of good things to do. We'll have dances and parties galore next month, but I'll give full particulars next week, so keep your eye on this column, and pick up one of our schedules for your own use. There will be programs next month you won't want to miss.

—Margaret

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NEW GRAY LADIES—Capped in a ceremony at the Post Chapel last week are the Gray Ladies who have just completed training under the direction of the American Red Cross Volunteer program at the Arsenal. Front row, left to right, are: Mrs. Warfield Lewis, Mrs. Lawrence Stockett, Mrs. J. S. Farrington,

Mrs. R. L. Bryant, Mrs. E. V. Lau, Mrs. C. D. Swick, Mrs. C. R. Dickson, and Mrs. F. E. Moore in the back row (left to right) are: Mrs. L. R. Wright, Mrs. E. M. Riddlehoover, Mrs. W. D. Kennedy, Mrs. N. I. Reiter, Mrs. S. I. Towns, Mrs. H. C. Nagel, Mrs. C. M. Whalen, and Mrs. S. P. Ross.

17 New Gray Ladies Receive Caps

Seventeen new Gray Ladies were capped in a candlelight ceremony at the Post Chapel last week with Col. T. W. Cooke, AOMSA Commander, and Capt. Elizabeth Birdsall, nurse at the Post Hospital officiating.

The new Gray Ladies were welcomed into this branch of the Red Cross volunteer service by Clarence H. Wells, director of the Huntsville-Madison County Chapter.

Accepted for duty on behalf of the Post Surgeon, the group was addressed by the Chief Nurse, Maj.

Estelle Smith.

Others participating in the program were Mrs. W. H. Kiser, Chairman of Volunteers on post; Chaplain (Lt. Col.) John E. Batterson, Post Chaplain; Mrs. Paul B. Schuppener, Gray Lady Chairman, and Mr. Clifford T. Harmon, Post Field Director.

Mrs. B. H. Schimmel played the organ for the ceremony.

Mrs. Schuppener administered the Gray Lady oath.

Receiving caps and certificates were: Mrs. Warfield Lewis, Mrs. Frank E. Moore, Mrs. Robert L.

Bryant, Mrs. Lawrence Stockett, Mrs. John S. Farrington;

Mrs. R. A. Koreski, Mrs. E. V. Lau, Mrs. S. I. Town, Mrs. S. P. Ross, Mrs. E. M. Riddlehoover, Mrs. H. C. Nagle, Mrs. C. M. Whalen, Mrs. W. D. Kennedy;

Mrs. L. R. Wright, Mrs. N. I. Reiter, Mrs. C. D. Swick, and Mrs. C. R. Dixon.

Refreshments were served after the ceremony in the chapel social room by Mrs. David Robinson and Mrs. Harvey LaReau.

Maj. Snyder Heads OGMS Operations

Maj. Robert W. Snyder recently was named Chief of the Operations Office at the Army Ordnance Guided Missile School by Col. William J. Macpherson, commandant.

He succeeds Maj. John R. Halky, who is being transferred to the new U. S. Strike Force Command at Tampa, Fla. Snyder has been assigned to the Department of Individual Training. He has been here since 1958.

At the same time, Col. Macpherson announced the following key staff changes; Maj. William R. Cowan, heretofore Chief of Logistics is appointed Chief of Safety and Security, succeeding Maj. Leonard E. Miles, who is assigned to the Department of Individual Training pending transfer overseas. Maj. Verne C. Wolfe, who was recently assigned here from Korea and promoted Chief of Logistics; and Capt.

OFFICER RECEIVES AWARD

CWO J. C. Rinehart received a certificate of achievement from Col. William J. Macpherson, Commandant of the U. S. Army Ordnance Guided Missile School during ceremonies, recently.

WO Rinehart entered the Army in Feb. of 1943 and is a graduate of St. Agnes Academy, class of 1941, he also attended Brooklyn College and Champlain College.

He is presently assigned to the Hawk Branch of the Air Defense Missile Division at The Missile School, here, as a Maintenance Officer.

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Vern J. Laver, formerly assigned to the Department of Research and Curriculum, is appointed Deputy Commander of the Unit Training Command.



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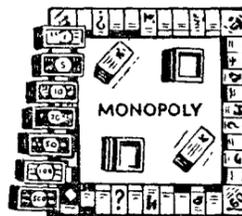


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Maj. Garcia Given Achievement Award

Maj. Orlando Garcia has been presented with the Army Rocket and Guided Missile Agency Certificate of Achievement by Brig. Gen. John G. Zierdt.

The presentation was made for Maj. Garcia's exceptional service as the Army Ordnance Missile Command coordinator responsible for the planning, installation and display of Army missiles shown at the 1961 Alabama State Fair.

He was lauded for "The systematic manner in which the displays were installed giving evidence that extensive thought and prior planning were devoted to this project."

The citation read in part: "... appearance of our military and civilian representatives, their



WELL DISPLAYED—Brig. Gen. John G. Zierdt (left) Commander of the Army Rocket and Guided Missile Agency, presents an ARGMA Certificate of Achievement to Maj. Orlando Garcia for his fine work in displaying AOMC missiles at the Annual Alabama State Fair in Birmingham.

obvious enthusiasm and high morale, the competence and knowledge which they displayed received the acclaim from the public and

Military Contributes \$16551 to 1961 UGF

Military personnel contributed \$16,551 in Redstone Arsenal's record shattering 1961 United Givers Fund drive.

Their total contribution represents an 89 percent fair share participation.

Harold Katz, executive chairman of the Redstone drive, said some military units at the Arsenal collected in excess of 100 percent fair share. He cited the Air Force unit which contributed \$395 for a 109 fair share percentage; military personnel at ABMA and ARGMA who both contributed 106 percent for \$1,457 and \$1,798 respectively and the Military Police unit which contributed 107 percent. The 55th Army band members were 100 percent fair share givers.

Largest single contribution by military personnel came from the

a great deal of favorable publicity from the press, making ours perhaps the outstanding and most noteworthy exhibit at the fair."

Gen. Zierdt said that the effectiveness of the displays can be attributed to the managerial abilities of Maj. Garcia.

Maj. Garcia is the Chief of the Procurement Division of Industrial Operations, ARGMA.

Ordnance Guided Missile School where \$6,642 was collected.

Katz said \$13,000 of the amount collected will be used for the Local Activities Council which supports activities of military families living on the Arsenal.

He cited the figures as indicative of "the strong sense of community and civic responsibility of military personnel even though they are not permanent residents of the community."

The drive chairman said this was particularly the case at the Ordnance Guided Missile School where many of the military participants in the local drive area are at Redstone only on temporary duty to receive training.



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SWIMMING:

In a past summer many personnel attended and passed the Red Cross swimming course held at the Special Services swimming pool. Some have not received their Red Cross swimming cards. Those who have not received their cards and would like to have one, please contact Sp/5 Jack Cammack, 876-4032, Post Gym.

SPORTS ADVISORY COUNCIL MEETING:

The Sports Advisory Council meeting was held on Tuesday afternoon, Nov. 14. Nine units were represented. Units are reminded that meetings are held the second Tuesday of each month. All units are encouraged to have representatives at the meetings regardless of the number of assigned personnel. A good Sports Program can only be accomplished through the voice of its military. By expressing desires, ideas, constructive suggestions, or criticism, a better sports program can be formulated. The Sports Advisory Council is the military's way of representing personnel interested in the progress of sports.

The new work-out facility was discussed at the last Council meeting of Nov. 14. The facility should be ready for utilization after the Christmas holidays. New rating cards for rating officials in all sports at Redstone Arsenal will be initiated in basketball this season. Trophies were discussed. Only three trophies per major sport will be awarded this season, with individual awards for the Championship Team.

FOOTBALL:

Football is still alive for the 1961 season. Two strong and mighty teams will clash head on Thanksgiving Day, November 23rd. Both teams are evenly matched and have had a great season. This game is being played for the enjoyment of the "full" spectator who desires to climax a good and thankful day by watching an entertaining football game.

The game will be a "first" for Redstone Arsenal.

It will be the first Junior Turkey Bowl Classic Football game held on the post. Game time is 1500 hours, at Linton Field. The two teams playing for the glory and the sport will be Redstone and

Blossomwood. The weight of each player will be approximately 105 lbs. with "guts" to match. EVERYONE is invited to see the Little Leaguers in action on November 23.

BASKETBALL:

The backboards at the Post Gym are resounding with many shots by teams now in their practice sessions. The basketball season is scheduled to open on Dec. 4 with Hq, UTC playing Hq, ABMA in the first game at 1900 hours, and AOMC Officers vs 291st M. P. Co. at 2030 hours. Co. "B" OGMS No. 2 has dropped from the present league and 291st M. P. Co. will be the replacement team. We hope to publish some rules and a guide to basketball in the next Rocket.

BOWLING:

Amazing as it may seem, Bowling has taken a new interest this season because of the scores and standings being published in the Rocket. A vote of thanks goes to the Rocket for their interest in helping the progress of bowling. To know that personnel are reading and commenting on what is going on in the sports world at Redstone Arsenal is gratifying.

The bowling standings of week ending November 15 are as follows:

OFFICERS MIXED LEAGUES			
Team	Won	Lost	
Pin Droppers	60½	20½	
Hi Counts	52½	28½	
D-Yanks	49	32	
Bombers	39½	41½	
Bowl Weevils	36½	44½	
Red Stones	36	45	
Pin Poppers	28	53	
D-Doms	32	59	

REDSTONE ARSENAL OFFICERS LEAGUE

Team	Won	Lost
Bandits	33	11
Industrialists	26	18
Robe's	26	18
King Pins	21	23
Alley Cats	20	24
Medico No. 5	20	24
Spoilers	16	28
Slowburners	14	30

OFFICERS WIVES LEAGUE

Team	Won	Lost
Rock-Rollers	23	13
Alley Cats	22	14
Rockets	21	15
Missilettes	17	19

Cherry Pickers	17	19
Headpins	17	19
Untouchables	16	20
Unpredictables	11	25

E. M. MIXED LEAGUE

Team	Won	Lost
McShletts	23½	16½
Four H's	23	17
Mor-Rums	23	17
G. E. R. M. S.	21½	18½
Cool Toms	21	19
Hot Shots	20	20
Team No. 8	17	23
Spoilers	11	29

THURSDAY MORNING LADIES LEAGUE

Team	Won	Lost
Bowlettes	22½	17½
Sleepers	21	19
Dreamers	20½	19½
Alpines	20	20
Four Pins	19	21
Botoms Up	17	23

SCHOOL TROOP COMMAND LEAGUE

Team	Won	Lost
Signal	21	15
Co. B No. 2	21	15
Co. A No. 1	20	16
Hq & Hq	18	18
Co. B No. 1	17	19
1st ETC	16	20
2nd ETC	16	20
Co. A No. 2	15	21

OUTLAW LEAGUE

Team	Won	Lost
Marines	11	1
1st ETC	12	4
Hq & Hq AOMSA	6	10
3rd ETC No. 2	5	7
Mil Per AOMSA	4	8
3rd ETC No. 1	2	10

RSA ENLISTED MEN LEAGUE

Team	Won	Lost
Special Services	26½	9½
ABMA	25	11
Medics No. 2	20	16
ARGMA No. 1	19	17
Medics No. 1	18½	17½
55th Army Band	13½	22½
Hq AOMSA	12	24
ARGMA No. 2	9½	26½

ARMY-AIR FORCE OFFICERS LEAGUE

Team	Won	Lost
Lucky Strikes	54	26
Pin Splitters	52	28
King Pins	46	34
Jupiters	40	40
OGMS	39	41
AF Juplos	38	42
Black Jacks	27	53
Raiders	24	56

REDSTONE TRIO LEAGUE

Team	Won	Lost
Proprietors	30	15
Pick-Ups	29	16
Strikes	28	17
Havolinas	25	20
Splits	23	22
Unknowns	18½	26½
Rusty Needles	15	30
Big Three	12½	32½

OGMS OFFICERS LEAGUE

Team	Won	Lost
Hawks	28	8
Bohunks	19	13
Signalers	19	14
R&C No. 2	19	14
OTD	20	15

The Sports Car Buffs

By Pat Patterson

The events this past weekend will occur after the deadline for this column and will have to be reported on next week. "The Great Tennessee Rallye" a 16 hour 500 mile event sponsored by the Tennessee Region, SCCA. Two cars scheduled to enter from Huntsville, this writer and Web Mayfield being one so I will have a first hand report of the activities next week. Also scheduled for last weekend was the November meeting of the TVR-SCCA at the Sahara Motel. A full report of this will also be available.

Approximately 40 Twickenham Automobile Club members gathered at George's Restaurant to rehash of the past two events. Two new members were admitted, Jerry Tepper and Bill McClain. Due to the holidays it was decided that only one meeting in December on the 14th for TAC is Christmas party. A buffet will be offered and mix will be available. Dancing is scheduled. I was asked by the secretary of TAC to announce that dues are due for the next six month period. Your dues are the only thing that support the organization so let's all get paid up soon.

As mentioned last week we have a rally coming up here on Dec. 3. This is to be strictly a fun event for a Sunday, of a Hare and Hound variety. The following information was garnered from the organizers last Thursday after the TAC meeting. Starting from Parkway City, the event will cover 100 miles and last approximately four

Researchers	14	18
Alley Cats	10	22
Troopers	8	24

hours with a lunch break somewhere along the route. Registration will open at 9 a.m. and the first car will be away at 10 a.m. Entry fee will be \$4.00 per car and a dutch treat banquet will be held after the event. Trophies will be presented to the driver and navigator of the first three placing cars.

For those of you who have never run a Hare and Hound event, the main emphasis is on staying on course rather than the precise timing normal is most rallies. The operation of the rally is different than normal. There are no written route instructions other than to get you to the odometer check. From there on all turn instructions are small sacks of flour or lime thrown on the road by the lead car (Hare) generally after the turn. This sometimes requires some leg work and/or very excellent vision on the part of the navigator. This is all you have to follow. Points pile up for each tenth of a mile so running down a road to look builds up penalties. There are many ways in which the bag of flour has been used. Sometimes you will find a variation where you must keep the bag on your left at a Tee or on your right at a Y, or turn off the road you are on when one shows up directly in front of you in the center of the road. There is also a variation by using colors mixed with the flour to indicate the type of turn you are to make. It boils down to the team with a keen, sharp eyed navigator who can sometimes do a 100 yard dash. This is a real low pressure affair that anyone can enter and have a chance to win. Whether you have ever rallied before or not lets all get out and run Dec. 3 and have an enjoyable day of motor sport.



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REDSTONE MODEL RAILROAD CLUB—Capt. W. R. Hardin, president, and Capt. T. T. Moxley, ex-president, watch the first train over "Ryan's Gorge," a bridge built by charter member George H. Ryan.

Model Trainmen Plan Full Week

The Redstone Model Railroad Association will open Model National Railroad Week with a demonstration this weekend at the Rocket Service Club using equipment from the Alabama, Tennessee and Northern (HO) Railroad.

The portable equipment and static display will be set up under an owner's direction, CWO DeWitt Mytinger.

M/Sgt. George H. Ryan will also be on hand to assist in the afternoon and evening demonstrations.



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Included in the week's schedule is an appearance on the Johnny Evans "Western Theater" Nov. 27 and 29.

The Redstone Model Railroaders also plan to hold Open House in the headquarters of the Alabama, Tennessee and Northern (HO) Railroad, Bldg. 3184 in Splinter Village. On Dec. 1 the clubhouse will be open at 7:30 p.m.-10:30 a.m., on Dec. 2,3, the hours will be between 2-5 p.m.

Club members have completed most of the bench work on the 40 feet by 14 feet road bed on which a maximum of nine trains will be able to operate at one time under a chief controller. Three division men will be able to operate three cabs each.

With the sub-road bed and the road bed laid, the next club project will be the construction of the scenery and railroad yards. Points of major construction, scenic points and towns carry the names of club members.

Locomotives and rolling stock operated on this trackage are privately owned. The track and road-bed are owned by the club which has open membership to all model trainmen in the area.

The club has thirteen active members at present with meetings scheduled between 7-9 p.m. each Tuesday. The club officers are William R. Hardin, president, Billie A. Yarbrough, vice president, George H. Ryan, secretary, and Phillip J. Robertson, treasurer.

Visitors and model railroaders who wish to become members may contact Secretary Ryan when they arrive for full details at the club.

Turks Defeat Belgians 2-0

Unsal Yalciner boots two goals to lead Turks to Soccer Victory. The Turkish Air Force Chargers shutout the Belgian Air Force Lions 2-0 on the strength of two goals by Forward Unsal Yalciner in the OGMA Soccer League opener for both squads.

The agile Turks used a tight defensive backfield and a hard charging offensive forward wall to hold the Belgians in check throughout the contest, played on Linton Field, at the Army Ordnance Guided Missile School, Saturday.

Turkish Forward Yalciner scored the first goal for the Chargers midway through the first half, when he booted a corner shot past the Belgian goalie, Gerard Melchoir, during a mixup in front of the goal.

The Belgian squad, led by the brilliant play of goalie Melchoir, fought off repeated scoring threat, by the Turkish forwards to leave the field trailing 1-0 at half-time.

The second half turned into a defensive battle as the ball moved up and down the field without any serious scoring threats by either squad.

With three minutes left to play, the Belgians made a valiant try to knot the count, as they moved the length of the field only to be thwarted by a spectacular save by goalie Ahmet Testic of the Turks.

At this point, the aroused Turks, led by Yalciner, charged downfield and overpowered the Belgian defense to score their second goal of the game.

Both teams are interested in playing a home and home series with teams in the Southeastern Area. Interested soccer clubs should contact the Public Information Officer, Army Ordnance Guided Missile School, Redstone Arsenal, Ala.

Huntsville Sky Diver Club Elects Officers

The Huntsville Sky Diving Club elected Ken Branner of Thiokol to serve as president for 1962.

The club meets the first Monday of the month at the Dallas Street Armory.

Branner began sky diving while serving with the U. S. Marines in California. The vice president, Jerry Barksdale, received his initial parachute training with the Huntsville 120th Special Forces.

Secretary-treasurer of the club, S/Sgt. Richard Marez is a master parachutist. He was a member of the U. S. Army Japan Sky Divers Club, and the 101st Airborne Division Sky Divers Club prior to his assignment at the Arsenal.

The senior safety officer is Mark Ray, a Brown Engineering employe. Ray received jump training at the Sport Parachuting Center, Orange, Mass. He completed the advanced Sky Diving School while vacationing in Orange last month.

John D. Ford, the public information officer, received his jump training with the 82nd Airborne Division. He is a former jump school instructor and is training new club members. He is also a member of the 120th Special Forces Group. Other training instructors are Charlie Payne, an ABMA employe, and Cool Cat Spegar. Payne received his training with the 120th Special Forces, Spegar trained in Japan with the 11th Airborne Division.

The newest member of the group and almost ready to take her first jump is a Huntsville beautician: Miss Melba Prentice. Other new members are Glen Webster, Al McAfee, and Sgt. Wesley Zwick.

Anyone interested in becoming a skydiver can obtain details from Jan Payne, 539-0315 or attend a meeting at the Armory.

Paquin Is Manager Of Thiokol Office

Beverly S. Paquin has been named Manager of the Purchasing and Subcontracting Department of Thiokol Chemical Corporation — Redstone Division. The appointment will be effective Nov. 15.

Paquin has been Chief of Thiokol's Component Section, Purchasing and Subcontracting since joining the Division in February, 1960. Prior to that he was a civilian employe of the U. S. Army and the U. S. Air Force. From 1957 to 1960, he served in Procurement Analysis at Wright Patterson Air Force Base, Dayton, Ohio. He attended Henderson State Teachers College, Arkadelphia, Ark.

Paquin is married and has one son, Larry, who is a student at the University of Alabama. He resides at 6112 Whitesburg Drive South in Huntsville.

Paquin succeeds R. B. Crow who is transferring from Thiokol's Redstone Division to Thiokol's Rocket Operations Center in Ogden, Utah.



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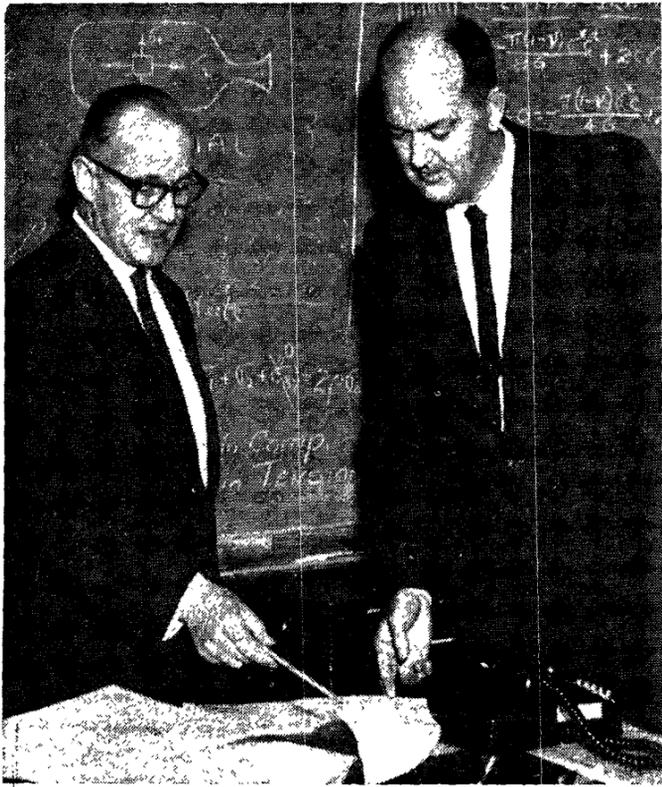
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ARMY SCIENTIST HONORED—John L. McDaniel (right) Deputy Director of Research and Development Operations at the Army Ballistic Missile Agency at Redstone Arsenal has been invited to become an honor member of Tech Chi Chapter of Pi Tau Sigma national mechanical engineering fraternity. McDaniel reviews material on which he will speak at the initiation banquet at Auburn University with H. A. Heithecker, Technical Director of the Research and Development Operations.

John L. McDaniel Named Honorary Initiate Of Auburn Engineer Society

John L. McDaniel, Deputy Director of Research and Development for the Army Ballistic Missile Agency at Redstone Arsenal has been named by the Auburn University chapter of Pi Tau Sigma as an honorary initiate. Pi Tau Sigma is a national mechanical engineering society founded to recognize outstanding students in mechanical engineering, and to honor practicing engi-

Personnel Offices Centralized Under Missile Command

Centralization of all Army civilian personnel operations at Redstone Arsenal was announced last week by Maj. Gen. August Schomburg, Commanding General of the Army Ordnance Missile Command.

He said the streamlined organization would become effective Dec. 3. Robert F. Mello, AOMC Director of Civilian Personnel, will head the centralized organization.

The centralization will be accomplished by transferring the present civilian personnel offices of the Army Rocket and Guided

neers for distinguished attainments.

In addition to being an honorary initiate, McDaniel will be guest speaker at the fall initiation banquet to be held by the Alabama Tech Chi Chapter at Auburn University Nov. 30.

A native of Guin, Ala., McDaniel holds a B. S. degree in physical chemistry from Berry College, Mt. Berry, Ga. He has also done graduate work in mathematics at the University of Alabama, and has attended the Army's Industrial College.

A former high school science teacher, McDaniel has worked for the Army at Huntsville since 1942, except for two years of active duty in the Navy. He was first employed here by the Chemical Corps' Huntsville Arsenal.

McDaniel is author of a recent article, "Solid Propellant Rockets," published in the July-August issue of Ordnance magazine.

Pi Tau Sigma was founded in 1915 and now has 67 chapters and 25,000 members.

McDaniel and his family live at Route 2, Decatur.



PERT TRAINMAN—Miss Patsy Gant, 18-year-old Butler High School graduate, is a clerk typist in the Engineering Division of the ABMA Industrial Operations when she isn't demonstrating an interest in National Model Railroad Week. Miss Gant is a Huntsvillian.

Missile Agency, the Army Ballistic Missile Agency and the Army Ordnance Missile Support Agency to the personnel office of Command headquarters.

Gen. Schomburg said the centralization of operations would result in an optimum utilization of

available facilities, funds and manpower.

Civilian personnel functions previously performed by the Army Ordnance Missile Support Agency office for the Ordnance Guided Missile School will be handled by the centralized office.

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'55 BUICK 2 dr. h'top Dynaflo, ..r&h.. red and white.

'60 PONTIAC Catalina 4 dr. sedan, pwr. steering, pwr. ..brakes r&h.



FOR Mother



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'59 CADILLAC coupe DeVille, full pwr. factory air cond.

'58 CADILLAC coupe Full pwr. factory air conditioning.

'60 DODGE Phoenix 2 dr. h'top V8, pushbutton radio, htr., extra clean.

'58 BUICK Estate Wagon, rad., htr., pwr. steering and brakes, auto trans.

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Visitors From Peru Welcomed in Spanish By General McMorrow

Maj. Gen. Francis J. McMorrow, Deputy Commanding General of the U. S. Army Ordnance Missile Command, dusted off his Spanish and made some Peruvian visitors really feel at home last Wednesday.

Welcoming foreign nationals to Redstone was not unusual for Gen. McMorrow. Doing it in their native tongue instead of through interpreters was.

The group was composed of 20 high-ranking Army, Navy, Air Force and National Police officers who are members of the staff and duty, and students of the Peruvian National War College.

Redstone was their last stop on a whirlwind, two-weeks tour of major military installations in the United States.

Their being officially welcomed in their own language came about this way:

Going over his daily calendar Wednesday morning, Gen. McMorrow noted he was scheduled to welcome the South American visitors midafternoon.

He hastily jotted off a few remarks and handed the couple of sheets of paper to his aide, Capt. Carl R. Steimle, with:

"Get this translated into Spanish for me Dick, and I'll welcome our visitors in their own language."

The surprised and uncertain aide started scurrying over Command Headquarters looking for a Spanish linguist. The word got around and others reached for thinking caps.

Some even considered the trip back 20 or 30 years to try to re-

member college language courses.

Then someone remembered SFC Pedro M. Bentz-Munoz in the Library and Records Management Section of the Adjutant's office, a native of San Juan, P. R.

Yes, he could help, those who work with him said, but he was out of the office for an hour or so.

Time grew shorter and calls were made to the agencies:

"Know anyone who can write English into Spanish?"

"No, but I'll try to run down someone for you."

But during the hustle and bustle in trying to give neighboring South Americans a favorable impression of the United States in general and Redstone Arsenal in particular, unsuspecting Bentz returned.

About 30 minutes before the Spanish-speaking visitors arrived Sgt. Bentz' translation was ready for Gen. McMorrow to familiarize himself with words in a language he had not used for a long time.

A little later the Peruvians, apparently expecting a routine welcome in a language foreign to them, appeared visibly surprised and pleased to be sincerely greet-

EMPLOYEE DEVELOPMENT OPPORTUNITIES

The Training Branch, Civilian Personnel Division, Army Ordnance Missile Support Agency, announces the following local opportunities for employee development: NEXT WEEK — Nov. 27-Dec. 1, 1961:

- Graduate Study
- Undergraduate Study
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- Records Administration
- Clear Writing
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- Basic Supervisor Development
- Conference Leadership
- Tektronix Oscilloscopes

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Advanced Secretarial Training—12 December

NOTE: Registration for the Winter Quarter of the Graduate Study Program will be 11-15 December, 1961. This early registration has been set up especially for Government employees. Employees who are seeking admission to the Graduate Study Program for the first

time should contact the Huntsville Center immediately.

ed by the General in the musical tone of the national language of Peru.

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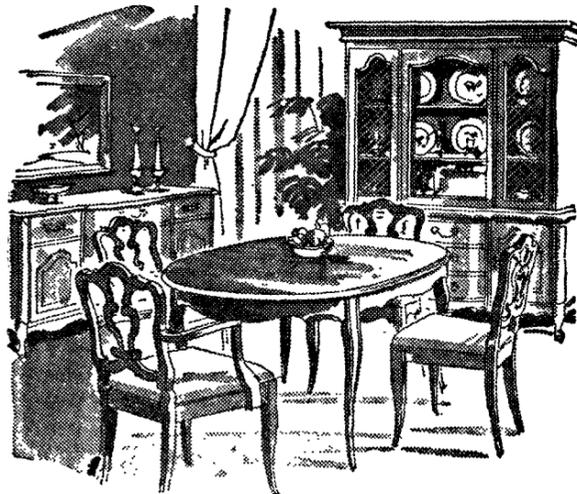
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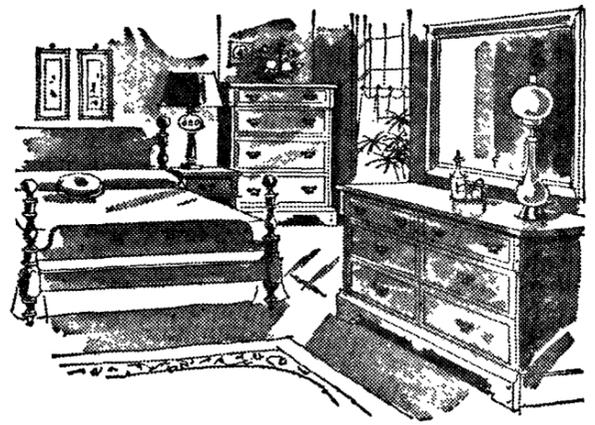
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PUNISHMENT PLUS—Jimmie Herrin, a technician in the Army Rocket and Guided Missile Agency's Industrial Engineering Laboratories, watches a metal bar twist like taffy under the tremendous stress put upon it in a torsion testing machine. The machine and others like it are used to determine strength of metals used in Army missiles.

Metallurgists Seek Ways To Prevent Metal Necking

The Army is not against romance but it does not want its missiles "necking."

"Necking," when applied to missile and rocket motors, does not imply affairs of the heart, rather a process in which metal under stress pinches inward and forms a "neck" at its weakest point.

You can demonstrate the same principal by pulling apart a wad of chewing gum.

Different metals or alloys vary in useable strength; however all metal has a certain amount of both plasticity and elasticity which together determine how far it will

stretch before breaking.

Solving the question of how to increase strength in metal while reducing its weight and cost is an item of continuing research at Redstone Arsenal, the home of

Army missiles, where tomorrow's missile technology takes shape in today's investigations in the Army laboratories.

At the Army Rocket and Guided Missile Agency, Thomas H. Duerr, materials branch chief of the propulsion laboratory, says: "The rocket and missile materials business has been a story of improving the physical characteristics of metals to condition them to withstand high mechanical stress."

William Crownover, is one of a small group of ARGMA scientists searching for new and stronger metal alloys.

The metallurgy laboratory where Crownover and his colleagues test a wide variety of metals for strength properties, effects of heat treatment, and for use of the material in rocket motors resembles a medieval torture chamber. The furnishings include; A pendulum device that swings a hammer with tremendous force to test the breaking strength of metal samples; a cold box where samples are subjected to temperatures far below zero; a furnace that heats metal white hot and a stress machine that literally tears metal bars in two.

The lab also tests plates of metal with deep notches cut on each side. "This lets us know what would happen if a flaw or scratch develops in a rocket motor case," Crownover explains. "Under some conditions it will stand the stress we put on it, but we have to know which of the metals won't last in a rocket motor."

Although the laboratory's main effort is in rocket propellant, Crownover explains the metals research like this: "We have to keep

our finger in problems and breakthroughs in rocket motor case characteristics since both propellant and case are closely related in development of faster and more powerful missiles."

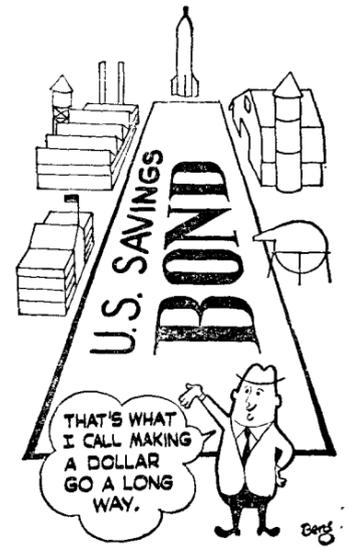
Two other groups perform metal torture tests at ARGMA. One group, headed by Richard Ely of the Metals Analysis Branch, break metal bars faster than the wink of an eye. Motion picture cameras, shooting as many as 10,000 pictures a second, record what happens for detailed post-mortem analysis.

Metallurgist in ARGMA's Quality Assurance Laboratory headed by Hal Penick, in addition to the usual torture tools, use a large chamber of reinforced concrete where rocket motor cases are ruptured under high hydraulic pressure.

The Q and A Lab, a division of ARGMA's Industrial Operations, proves missile parts already in production.

Some small parts are sawed in half and encased in plastic before testing, others are twisted like taffy on a torsion machine.

All the tests are designed to de-



termine how much punishment metal can take and how to improve its strength while keeping it light.

Torturing metals is a vital part of improving the breed of Army missiles.

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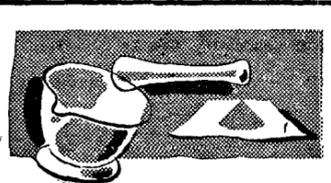
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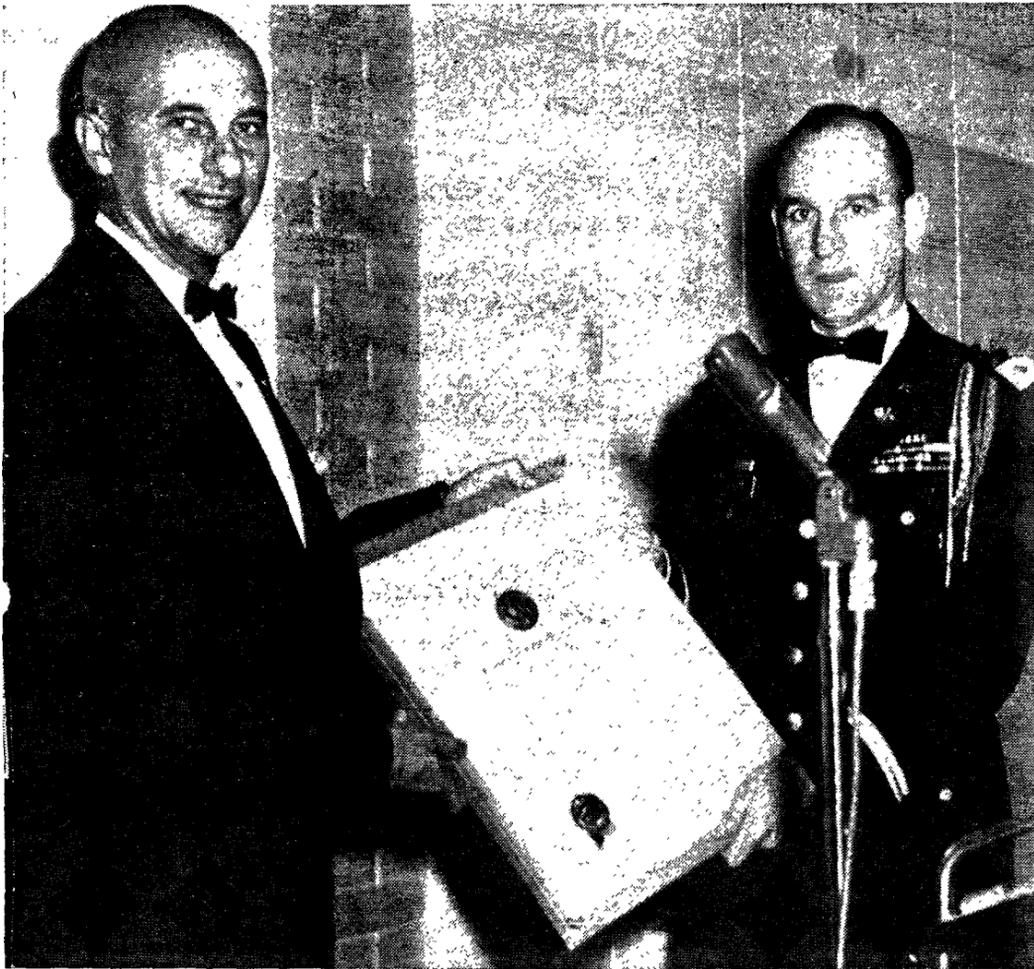
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CHARTER PRESENTED—Frank A. Gunther, President of the Armed Forces Communications and Electronics Association, presents a charter to Col. George E. Pickett, president of the Tennessee Valley Chapter, during charter night ceremonies Thursday evening.

Charter Received For Armed Forces Communications Association Here

The Tennessee Valley Chapter of the Armed Forces Communications and Electronics Association received its charter last week during a meeting at the Huntsville Community Center.

The charter was presented to

Col. George E. Pickett, local chapter president and AOMC Staff Signal Officer, by Frank A. Gunther, National AFCEA president.

Principal speaker for the occasion was Dr. Frank A. Rose, President of the University of Alabama.

With reference to the establishment of a University of Alabama Research Institute at Huntsville, Dr. Rose said his institution would do everything possible to assure the success of such an institute.

(Alabama voters will ballot on a \$3 million bond issue December 5 which would provide a building at Huntsville for the University

of Alabama Research Institute).

Included among those representing the Army at the AFCEA charter presentation were:

Maj. Gen. and Mrs. Francis J. McMorrow, Brig. Gen. and Mrs. Richard M. Hurst, and Brig. Gen. and Mrs. John G. Zierdt, the officers being deputy commanding general AOMC, commander ABMA and ARGMA, respectively.

Lt. Col. J. E. Batterson, Redstone post chaplain, delivered the invocation and benediction.

BIDS ASKED

Army Engineers have called for bids for the construction of a control center for the new Saturna Static Test Facility to be constructed at the George C. Marshall Space Flight Center, in support of the National Aeronautics and Space Administration's space booster program. Bids will be opened in Mobile City District Engineer Nov. 30.

Boy Scouts Are Prepared For a Missile Round-Up

Redstone Arsenal will "be prepared" when more than 1600 Boy Scouts and their leaders pour onto the installation for the "Space-Missile Round-up" on Dec. 2.

Ranging in age from 8 to 18, the boys will be treated with a close-up inspection of a major portion of the Army's missile systems, the National Aeronautics and Space Administration's earth-orbiting capsule, and exhibits from the Ordnance Guided Missile School.

The boys, who come from nine northern Alabama counties, will begin their day among the missiles with an orientation and then will tour the eight exhibits in groups of 200.

Included in these exhibits are the Army's Hawk, missile defense against low flying aircraft; the Pershing, selective range ballistic missile with a nuclear punch; and Honest John; the Army's artillery rocket.

The boys will reassemble at 12:15 p.m. for the achievement day ceremonies where awards for the Tennessee Valley Council BSA membership drive will be given by Col. Thomas Cooke, Army Ordnance Missile Support Agency Commander and 1961 Round-Up

Chairman.

Certificates of appreciation and round-up banners will be given to adult leaders whose troops have met the six goals set up by the TV Council at the beginning of the drive.

The nine top recruiters of new boys in each district of the council will receive a two-man tent as a reward for their work.

SOLDIER RECEIVES AWARD

S/Sgt. Johnnie L. Dowling, received a Suggestion Award Certificate from Col. William J. Macpherson, Commandant of the U. S. Army Ordnance Guided Missile School during ceremonies held here recently.

Sgt. Dowling entered the Army in April of 1946. He served in the Korean Campaign and has been awarded the Good Conduct Medal, the Japan Occupation Medal, the Korean Campaign, United Nations and American Defense medal with 4 battle stars.

He is presently assigned to the U. S. Army Signal Corp Electrical Training Detachment No. 2 at the "Missile School" here as an Electronics Instructor.



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CALL HUNTSVILLE WINDOW CLEANING SERVICE for free estimates on commercial and residential cleaning. We scrape paint, wash windows, wash walls, and woodwork, clean & wax floors. Phone 534-3795. tfc

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FOR SALE — Split levels, split foyers, ranch style, colonial style homes in Yarbrough Estates. Ensor & Dunn Real Estate. Phone 539-8491. tfc

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Up To 65% Off Mfgs. List
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AUTO POST LIABILITY INSURANCE
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ABS SECRETARIAL SERVICE, 408 Clinton Avenue, W., Huntsville, Ala. Phone 534-6451, CALL US FOR: Photocopying, mimeographing, transcribing (Dictaphone), telephone answering. Employment applications prepared (Government and other). Notary Public. (Our office or yours). tfc

OVERSEAS AND STATESIDE Insurance. International Service Insurance Co., Ft. Worth, Tex. Local agent, V. F. Carter, Phone 539-2356, 2905 Bayless Drive, Huntsville, Ala. tfc

FOR SALE — Yarbrough Estates Subdivision, 3 bedroom, 2 bath. paneled den, carport or garage. forced air heat, built-in oven and surface unit, dishwasher refrigerator, automatic washer & dryer. central air conditioning also available, some can be purchased completely furnished. Priced from \$14,100. Min down FHA. No down payment on VA loan, closing cost only \$150.00. Ensor & Dunn Real Estate. Phone 539-8491. tfc

CASH For Your Car
We buy all makes and models.
JERRY DAMSON
1025 MERIDIAN ST.
PHONE 536-8442 tfc

NEW FINANCE RATES, 5% interest on new automobiles, Government Employees Finance Co., Ft. Worth, Texas. Local agent, V. F. Carter, phone 539-2356, 2905 Bayless Drive, in Huntsville, Ala. tfc

ROOMS FOR RENT — Single and double for men with good habits, completely and newly decorated, economically priced. Central Y. M. C. A. Dial 534-6452. tfc

FOR RENT — 4 room nicely furnished front apartment, private bath with tub and shower. Natural gas heat, private entrance, off street parking, couple only, \$75 per month, 417 East Clinton St., phone 534-5127 or 534-4551. tfc

\$200 CASH
That's all you need invest, to become the proud owner of a 3-bedroom, 1½ bath brick Kingsberry home in Avondale Acres, if you're a qualified veteran. FHA and conventional terms also. Monthly payments for veterans as low as \$78.97. Go North on Pulaski Pike to the Mastin Lake Road intersection, turn left and go ¾ mile. Avondale Acres is on the right. Look for our signs.
Donald Jones Real Estate Agency
No. 3 Traylor Island
PHO. 539-4471

ROOMS FOR RENT—Single and double for men with good habits, completely and newly decorated, economically priced. Central Y. M. C. A. Dial JE 4-6452. tfc

POST LIABILITY \$10 PER YEAR
Military - Any Age or Rank - Terms
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527 Madison Street
Open 'til 8 p.m.
Pho. 534-0146

FOR RENT — New 1 and 2 bedroom brick apartments. Completely furnished, air conditioned, electric heat, TV cable, off street parking. Phone 534-6990. tfc

WHY PAY RENT? Live in a modern duplex home while your neighbor pays all expenses. Call NOW . . . 534-2652. tfc

BARGAIN SHOE CENTER—New shipments every other week. First quality, low prices, men's, women's, and children's shoes. Located 4 miles west of Arab at Standard Service Station, Joppa Highway 69. Open Sundays 11-22p

FOR SALE—1957 Bel Air Chevrolet, 2 door, 6 cylinder, new tires, new clear plastic seat covers, radio, heater, excellent condition. \$975.00, phone 536-8433 or 536-9121. tfc

FOR SALE — Drexel mahogany Duncan Phyfe extension table (3 leaves), and six violin back chairs. Excellent condition \$75.00. Call 536-8294 after 5:30 P.M. 1tp

FOR SALE in LILY FLAGG ACRES
Huntsville's Newest Prestige Community
3 & 4 bedroom, 2 ceramic tile baths, paneled den, built-in oven & surface unit, dishwashers, attached garage, redwood fenced yards, full brick veneer with a floor plan to suit your particular need. Priced from \$18,500 to \$24,000.
Minimum down FHA, 100% GI Financing Up to \$20,000.00
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FOR SALE — CUSTOM-BUILT HOUSE in exclusive residential neighborhood. Three bedrooms, 2 baths with colored fixtures, built-in kitchen, fireplace, patio and panoramic view. 7801 Martha Drive, S. E. Call 534-5539 after 5 p.m. 12-6p

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● ENDLOADER
● ROAD PATROL
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REASONABLE RATES!
PHONE 534-0146

FOR RENT — 3 room apartment and 5 room house for rent, 7½ miles out 72W. Call 536-2027. 11-22p

(Continued on Page 15)

TOYS FOR GIRLS & BOYS
This Sale Ends Nov. 30 — DOLLS —
Mattel's Sister Bell Talking Doll, (reg. \$10) sale \$7.59
Kissy Doll (reg. \$18.00) Sale 12.89
Matty (reg. \$10.00) Sale \$7.50
Casper, the Talking Gho. \$6.69
Ready To Fly Model AIRPLANES
Complete with all Accessories
WEN - MAC
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Reg. \$11.98 .. Sale, \$9.98
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25 years experience to aid you in your hobby.
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3 Bedrooms, 1½ Ceramic Tile Baths, Paneled Den & Kitchen, Built-In Kitchen with Oven & Surface Unit, Large Living Room, Attached Garage with Utility Room, Forced Air Heat.
Quality Built, With Quality Materials.
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YOU'RE INVITED To Our Trade-In Program
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You can now get a second 809 loan by selling or trading us your present home on one of our beautiful 3 and 4 bedroom with den brick homes.
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YOU ARE INVITED SEE OAKMONT
TOP FEATURES
THREE BEDROOMS (or 3 & den)
1½ or 2 CERAMIC BATHS
GE DISHWASHER
SELECT FLOORING
CENTRAL FORCED AIR HEAT
CARPORT OR GARAGE
100% VA or MINIMUM Down FHA
\$16,000 — \$19,050

FREE TV Set
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Drive west on Oakwood Avenue four blocks past Pulaski Pike and look for our signs on right.

Wantads

(Continued From Page 14)

WANTED TO BUY — New and used house trailers. Call 536-7345. ttc

CASH! FOR YOUR CAR — we need all makes and models. We will pay you more. We buy and sell imports, too. Texas Auto Sales, phone 536-6121. ttc

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FOR SALE

Very nice 3-bedroom brick, double garage, situated on large lot in beautiful Valley View Estates. The price is right.

3 bedroom frame and brick with carport, extra large lot, equity or refinancing.

Nice frame 2-bedroom, separate dining room, convenient to everything. Only a few blocks to new Chapman Schl.

This is it! Home with extra income located in one of better neighborhoods of South Huntsville.

Brick apartments for rent—1 or 2 bedrooms, nicely furnished, walking distance to school

Lots in many areas of city. Will build on your lot with 100% financing. Call us NOW

PHONES:

536-0775 536-7249
536-3657 539-1186

FOR SALE: 14½ ft. molded ply wood boat, 35 hp Johnson motor, controls, trailer, excellent condition. Just in time for the winter boating season. \$695. Call 539-8680. ttp

FOR SALE — 1960 BMC Austin 4 door sedan, radio, heater, seat belts, low mileage, 25 mi. per gallon, asking \$875, call 536-7584. ttc

NOBLE HEIGHTS — 5203 Whitesburg Drive — For Sale by owner, 7 rooms, 2 baths, central heating and cooling, carpeting, double garage with 600' overhead storage space, 2 brick patios, brick retainer wall, TV cable, membership in Whitesburg swimming pool, lowest priced house in Noble Heights, 1 year old, call 539-6178. ttc

FOR SALE — 1958—45'x8' House-trailer, air conditioned, automatic washer, TV, \$2595.00. Will accept car in trade. Lot 22 Bel Air Trailer Court, phone 877-5045 anytime. ttc

FOR SALE — Black & tan male registered Dachshund 2½ months old. Champion stock. Phone R. Morris, 876-5970 or Gunterville 582-3961. ttc

AT STUD — Champion stock black & tan male Dachshund. Phone R. Morris, 876-5970 or Gunterville 582-3961. 11-29-c

FOR SALE By Owner

COUNTRY ESTATE INSIDE CITY LIMITS

- 18'x40' Swimming Pool
- 2,000 sq. ft.—2-level Home
- Carport
- 2 Baths
- 2 Kitchens
- 5 Bedrooms
- 2 Living Rooms

12'x15' Concrete Block Utility House Divided to Permit Rental of Lower Level.

ESTATE NOW PROVIDES OVER \$200 PER MONTH INCOME

House, Pool and Large Lot — ONLY \$18,500.00

With 3 additional Lots in package deal — ONLY \$22,000.00

PHONE 536 0590

FOR SALE: Leica IIIg camera with leather case; Simmicron F/1.5 lens 50 mm; range finder; filters; Cannon 85 mm F/1.9 telescope lens; light meter; tripod with case; gadget bag, Leica manual 1956 edition. \$200. Call 534-4894. ttp

FOR SALE — 46x10 mobile home. Extra large living room. Front kitchen. Extra furniture. Air conditioner. Call 539-5913 after 5 p.m. ttp

FOR RENT — 2 rooms, will accommodate 4 boys, air conditioned, TV, gas heat, cooking privileges, 105 Arnett Ave., in Madison, Ala., phone 534-5291 until 3 p.m. or 772-6254 after 5 p.m. ttc

ROOMS FOR MEN — Nice and clean, close in, near Arsenal. phone 539-5205. ttc

DEEP FREEZE, Westinghouse, 14 cu. ft. upright, 2 years old, 1 year in storage, perfect condition, cost \$335, sacrifice for \$175, can be seen at 1211 A Nike St., Redstone Arsenal, phone 877-4767. ttc

FOR SALE — 1953 Ford, radio and heater, this car is in real good shape, \$310.00, phone 536-5620. ttc

FOR SALE OR TRADE — 1956 Chevrolet panel truck, excellent condition, good tires, perfect for plumber, TV repairman or any sales route, \$385.00., phone 534-5528. ttc

FOR RENT — 3 bedroom brick, 1½ baths, built in appliances, drapes and curtains, 5 minutes to gate 9, rent reduced, phone 539-5665. ttc

HOUSE FOR SALE — Beautiful Nolan Hills, low equity, 4¾% G. I., 3 bedrooms, large living room, family room, 2 ceramic baths, on large lot, 102 Strong St., phone 772-6647. ttc

FOR RENT — 4 room furnished duplex apartment. 1 bedroom, gas heat, S. E., Huntsville. See Bruce Patton at Bruce's Jewelry or phone 534-5714. ttc

FOR RENT TO COUPLE — Furnished apartment, 601 Holmes Ave., N. E., phone 534-5763. ttc

FOR SALE — Extra clean '57 Ford Fairlane, 2 door hardtop, V8 Thunderbird motor, solid white with baby blue and white interior, fully equipped with radio, heater, fender skirts, w. w. tires. Must see and drive this car to appreciate, asking \$635.00 phone 534-5528. ttc

FOR RENT: First & last mo. 1 year lease, 3 bedroom house, 206 Jordan Lane, \$100 per mo. Call 539-4104. ttp

EQUITY SALE: G. I. Loan, 4¾% Int. 22 yr. loan, corner lot, 3-bedroom, 1½ bath, brick, air conditioned. School bus at door. 5 min. of Arsenal. Ph. 539-6803.

FOR SALE — House on Bob Wallace Ave., near Gate 1. 3 bedrooms, 1½ baths, steel fenced backyard plus garden area, patio, 1½ ton air conditioner, rotor antenna and other extras. Near schools and shopping centers. A buy \$12,950. Phone 536-5181 evenings after five. ttp

WANTED. Ride from 231-B Niblo Drive Officers Housing Area to Thiokol building 7612. Phone 876-9280 after 5:00 o'clock, 877-5838. ttp

Hunting Clothes

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SHERWOOD PARK

100% GI Loans
On Fine 4 Bedroom And Den Air Conditioned Homes. Small FHA Down Payments.

DRIVE OUT

To 6200 — Madison Pike (Bob Wallace Ext.) (Just Outside Gate 9) And See For Yourself Or Phone 539-8481

Answer to Last Weeks Question From APPLIANCE SERVICE CENTER

1004 Meridian Street
THE BATTLE OF BUNKER HILL WAS NOT FOUGHT ON BUNKER HILL

There was no place called Bunker Hill at the time of the famous battle, which was fought on Breeds Hill, just outside Boston. In 1843 a monument was erected on Breeds Hill to commemorate the occasion. Bunker Hill is actually the name of another hill nearby. Cyclopedia of Names, 2. Popular Fallacies by A. S. E. Ackernhamm, pp. 243.

AUTOMATIC TRANSMISSION OVERHAUL

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REBUILT MOTORS

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To Highland Rim Subdivision at Fayetteville, Tenn. Rt. 6., and see a

BEAUTIFUL ROCK HOUSE

with 3 bedrooms, kitchen with plenty of cabinets, living room, dining room and tile bath.

This house is on ½ acre lot.

We will sell this house either G.I. or conditional loan.

HENDERSON CONSTRUCTION CO.

Phone HE 3-1161 Fayetteville, Tenn.

SOUTH HUNTSVILLE HOUSES FOR SALE IN— WHITESBURG ESTATES

4 miles south of airport on Memorial Parkway.

2 more all brick homes on acre lots available for occupancy. These houses have three large bedrooms, two ceramic tile baths and large double garages. 100% GI, FHA or conventional loans.

6-room house on Rothmore Drive \$18,675. Birch cabinets, front porch and patio.

7-room house on Rothmore Drive, \$20,625. Separate dining room with chair rail and mural on wall, colored oven and range built-in.

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9920 Memorial Parkway, So.

PHONES 539-1849, 534-6374, or 534-1789

(See the Lots in our New 3rd Addition)

NEW MORTGAGE SERVICE AVAILABLE YOU CAN NOW SECURE A FIRST OR SECOND REAL ESTATE MORTGAGE

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DR. JAMES E. GATES

Georgia Dean Talks To Graduating Class

The dean of the University of Georgia's College of Business Administration delivered two ad-

addresses here yesterday at the Army Ordnance Guided Missile School and the luncheon meeting of the Rotary Club.

Dr. James E. Gates, of Athens, Ga., spoke to both groups on the topic: "The Golden Key to Problem Solving."

Dr. Gates who is a frequent lecturer before Army groups studying management techniques, spoke to some 500 members of the Missile School staff and faculty in the Redstone Arsenal Theater at 11 a.m. At 12:30 he addressed the Rotary Club at a luncheon in the Russel Erskine Hotel.

Dr. Gates holds the degrees of B. S. in commerce from the University of Kentucky and Ph.D. in economics from the University of Virginia. He taught at Clemson College and Indiana University and served with the War Production Board, the Federal Power Commission and other governmental agencies prior to becoming dean of business administration at Georgia in 1948.

MORING, MAHLER JOIN 1500 HOUR SICK LEAVE CLUB

Preston L. Moring and Vincent Mahler, civilian employes of the Army Rocket and Guided Missile Agency, became members of the exclusive 1500 Hour Club recently.

The 1500 Hour Club is made up of those Army civilian employes who have accumulated fifteen hundred hours of sick leave. This means that both of the ARGMA employes have worked for approximately 14 and one-half years without using one day of sick leave.

In recognition of this outstanding accomplishment the two men were presented with certificates of membership in the club.

Moring, Chief of the Target Missile Systems Division of Industrial Operations, has been working for the Government since August, 1946. He has been here since October, 1954.

Mahler is a supervisory personnel management specialist and has been with the Government since 1945. He came to work in the AR-

Five Officers Are Promoted at ARGMA

Five officers of the Army Rocket and Guided Missile Agency were promoted recently.

Richard E. Mettam was promoted to Captain; Charles H. Griffin, Jr., Ronald C. Wicks, Virgil P. Brown, Jr., and William W. Hill to First Lieutenant.

Mettam, a project engineer in the Anti-Missile Missile and Space Defense Projects Office of Research and Development Operations, has been with ARGMA since July, 1961. He came to Redstone Arsenal in July, 1959, and devoted his time to on-campus studies for a masters degree in electrical engineering at the University of Alabama.

Holder of a Bachelor of Science degree in electrical engineering from the University of Nebraska.

GMA Civilian Personnel Office in November, 1960, after serving as the civilian personnel officer of the Verona-Vicenza Military Posts of the U. S. Army Southern European Task Force.

Mettam has been in the Army since February, 1957. He served his first two years as an Armor Officer.

A graduate of Georgia Tech where he received a Bachelor of Science degree in mechanical engineering, Griffin is in charge of the Electro-Mechanical Laboratory in Industrial Operations. He came to ARGMA in December, 1960.

Until recently a member of the Tactical Systems Project Office of Research and Development Operations, Wicks received his promotion prior to leaving for Europe on a new assignment. Also a graduate of Georgia Tech, he came to ARGMA in July, 1960.

Brown is a projects officer in the Control Office. He came to ARGMA in December after graduating from OGMS. He is a graduate of Oklahoma State University where he received a Bachelor of Science degree in Industrial Engineering and Management.

Serving presently as Adjutant of ARGMA, Hill has been with the Agency since August, 1961. A native of Tupelo, Mississippi, he graduated from Mississippi State University as an aeronautical engineer.

Fabrication Shop Foreman Retires

The first man to retire in his shop since the reorganization of ABMA is Rudolph A. Jelen, supervisor of the Fabrication Machine Shop in the Fabrication and Assembly Engineering Branch of the Systems Design and Development Laboratory.

Mr. Jelen had 19 years of Federal service on Nov. 14. His co-workers in this shop honored him at a luncheon in the shop and presented him with a ememento. Later the same day, Brig. Gen. Richard M. Hurst, Commander of ABMA, presented Mr. Jelen with a Certificate of Achievement.

Mr. Jelen, originally from Cleveland, Ohio, came to Redstone at the inception of ABMA in 1956 from Milan Arsenal. Other posts at which he served included the Navy yards at Charleston, W. Va., Camp Shelby, and the Waterways at Vicksburg, Miss.

The Jelens are parents of two sons, one at home in Madison, Ala., and the other at Cape Canaveral where he is a mathematician.

Mr. Jelen plans a short rest before he takes up part time work in the electrical or electronic field.

Gen. Brucker Is Visitor at AOMC

The commander of a U. S. tactical missile troop unit visited the Army Ordnance Missile Command and its elements here last week.

Brig. Gen. Wallace H. Brucker, Commanding General of the 1st Guided Missile Brigade stationed at Fort Bliss, Texas, toured the installation where the missiles, now in the hands of his troops, were designed and developed.

Missiles now a part of the 1st Guided Missile Brigade's arsenal include the HAWK, the Nike Hercules, the Honest John, and the Corporal.

Gen. Brucker was welcomed by Maj. Gen. Francis J. McMorrow, Deputy Commanding General of AOMC. He received a briefing on AOMC organization and mission during his visit at AOMC Headquarters. He also met Brig. Gen. Richard M. Hurst, Commander of the Army Ballistic Missile Agency and received an orientation on ABMA missile systems.

He saw the fabrication division and test area of the Marshall Space Flight Center, followed by a tour of ABMA test facilities.

Gen. Brucker was briefed also on Army Rocket and Guided Missile systems. After visiting Brig. Gen. John G. Zierdt, Commander of ARGMA, he looked over two systems in use by his command, the Hawk and the Improved Hercules system.

He was also be briefed on target missiles and the Mauler, mobile battlefield missile defense system.

As commander of the 1st Missile Brigade, Brig. Gen. Brucker leads soldiers using the most advanced weapons in the U. S. Army.



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