

Merry Christmas

**Arsenal-Wide
Spot News
Dial 112**

The Redstone Rocket

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

VOL. XV; NO. 32

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

DECEMBER 21, 1966

Col. O'Keefe Joins Staff

Col. John T. O'Keefe has returned to the Army Missile Command after a year and a half in Vietnam.

He has been assigned as a Special Assistant to Maj. Gen. John G. Zierdt, Commanding General of the Missile Command.

In his previous assignment at Redstone Arsenal, Colonel O'Keefe served as Chief of the Development Division of the Missile Command's Research and Development Directorate. Prior to that he had a 30 month tour as Chief of Plans for the NATO Advanced Weapons Division of the U. S. Army in Europe.

The past April during his Vietnam service, Colonel O'Keefe was awarded the Air Medal with "V" Device for heroism while engaged in an aerial flight in connection with military operations against the enemy.

He also holds the Legion of Merit, Bronze Star Medal, the French Croix de Guerre and the U. S. Army Commendation Medal.

During the Colonel's Southeast Asia duty, Mrs. O'Keefe and their four children maintained residence in Huntsville.



CHAT WITH SANTA—Kenny Bonus tells Santa he's three and a half but he can't manage half a finger so Santa asks twice to be sure. Kenny was one of the tots from cradle to nine who saw a cartoon and received a pre-Christmas gift from Santa at the party sponsored by the Joint Activities Council on post for all children of military men in the area. Kenny is the son of Capt. and Mrs. Robert Bonus. He was pleased with Santa's selection of a gift—a pair of miniature cars to add to his collection.

Project SPARTA Uses Redstone Missile Boost

A modified Redstone missile today hurled a reentry vehicle high above the Woomera Test Range in Australia in one of a series of planned missile launchings known as Project SPARTA.

At the top of the trajectory, a velocity package consisting of upper stages with several rocket motors fired the experimental payload back into the earth's atmosphere at ICBM reentry velocities.

The payload was observed by various range radars and other sensors.

Project SPARTA (Special Anti-missile Research Tests in Australia) is a cooperative program among the United States, Great

Britain and Australia to study reentry phenomena. The program is part of Project DEFENDER, a study of ballistic missile defense concepts sponsored by the Advanced Research Projects Agency.

Missile launches will continue throughout next year.

Because of its proven reliability and flexibility, Redstone was brought out of retirement and modified specifically for the SPARTA program, the Army said. By using "Old Reliable," substantial cost savings are expected since new equipment did not have to be developed for the program.

Today's launch was conducted (See SPARTA on Page 3)

People To People Giving Is Keynote At Redstone

People to People Christmas Charities spread across the Army Missile Command every year to assure a cheery Christmas for the area's needy.

Several areas of the Research and Development Directorate have banded together to execute Christmas projects:

The Future Missiles Branch, with its 65 military and civilian personnel, are collecting money for a family.

The Electromagnetics Laboratory's 118 people are collecting for the Salvation Army.

In the Ground Support Equipment Laboratory, the 106 people are collecting shoes and in the Advanced Systems Laboratory, food, clothing, toys and money are all welcome from among the 100 members of the staff.

In the Missile Support Directorate's Metrology Center, a huge Christmas card is fast filling with names of donors among its 125 employees. The collection includes food, clothing, toys and money. They are not sure about whether they will have enough for one or (See PEOPLE-TO-PEOPLE, Page 3)

Shillelagh Undergoing Engineer Service Tests

Shillelagh, the Army's first guided missile to be launched from a tank cannon, is undergoing Engineering-Service Tests in the snow, ice and bitter cold at Fort Greely, Alaska, the U. S. Army announced today.

Army gunners, firing the missiles from the General Sheridan Armored Reconnaissance Airborne Assault Vehicle, have scored direct hits on both stationary and moving targets.

These tests are part of the Army's plan to demonstrate the capabilities of both the Sheridan vehicle and the Shillelagh missile system under extreme weather conditions. The current series will conclude the Sheridan-Shillelagh Engineering-Service Test Program.

Shillelagh has successfully passed all other tests and evaluations demonstrating its effectiveness and is now in production. The Sheridan vehicle is only one of several on which the heavy armor killer can be mounted.

Another important feature of the Arctic test program is to determine how effectively soldiers can operate the equipment under sub-zero temperatures.

Future tests will also include firings at both moving and stationary targets, the Army said. To evaluate properly both the weapon system and its carrier, missiles and conventional rounds will be fired after the Sheridan

vehicle has been subjected to maneuvers on difficult, cross-country terrain.

Shillelagh is a gun-launched guided missile system developed for several of the Army's armor vehicles. In addition to being the main armament for the Sheridan, Shillelagh is being adapted to the M-60 current main battle tank and will be the main armament for the United States-Federal Republic of Germany Main Battle Tank being developed for the 1970s.

The missile is guided to its target by a command system mount. (See SHILLELAGH on Page 3)

**Merry Christmas
and
Happy New Year
From The Rocket
Staff. This
Edition Ends Our
Year. See Us
In January**



Col. JOHN O'KEEFE

Procurement Fair Proves A Success

The Army Missile Command Procurement Fair way of doing business has proven highly successful according to the Command's Procurement and Production Directorate officials, sponsors of the Fair.

Contracts are still being awarded as a result of the first four Fairs, but up to this date, the total has already reached 583 awards valued at \$1,360,000.

The most recent Fair was held this week when 166 people representing 113 firms in 18 states registered and were issued procurement packages covering 235 different requirements for missile components with a value of approximately \$500,000.

Two Washington, D. C., officials, Jack W. Askins, Department of the Army Small Business Advisor, and E. Wayne Thevenot, Staff Director of the Senate Small Business Committee on Government Procurement, visited the Fair this week.

(See PROCUREMENT on Page 3)



CHARITABLE POOCH—The pooch on which Doris Claxton (kneeling) and Virginia Carpenter are lavishing attention is a donation to the Metrology Center's Christmas Charity project. Such an elegant pooch should be able to provide protection for the donations in the box on which he is sitting. Doris is in the Operations Office of the Center and Virginia in the Field Standards Laboratory.

The Redstone Rocket

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

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Rocket Ruminations

Wit and wisdom are born with a man. —John Selden

Commanding General's Message

The annual observance of the Christmas season marks a significant pause in the routine of our daily life. We fill the time with special devotion and expressions of cheer and good will to friends and acquaintances.

In the prayerful spirit of Christmas, I extend my warmest greetings to you and your families. May you have a Merry Christmas and a safe holiday season.

I sincerely hope that the coming year will bring to you an abundance of good fortune and happiness together with new tasks and challenges.

JOHN G. ZIERDT
Major General, USA
Commanding

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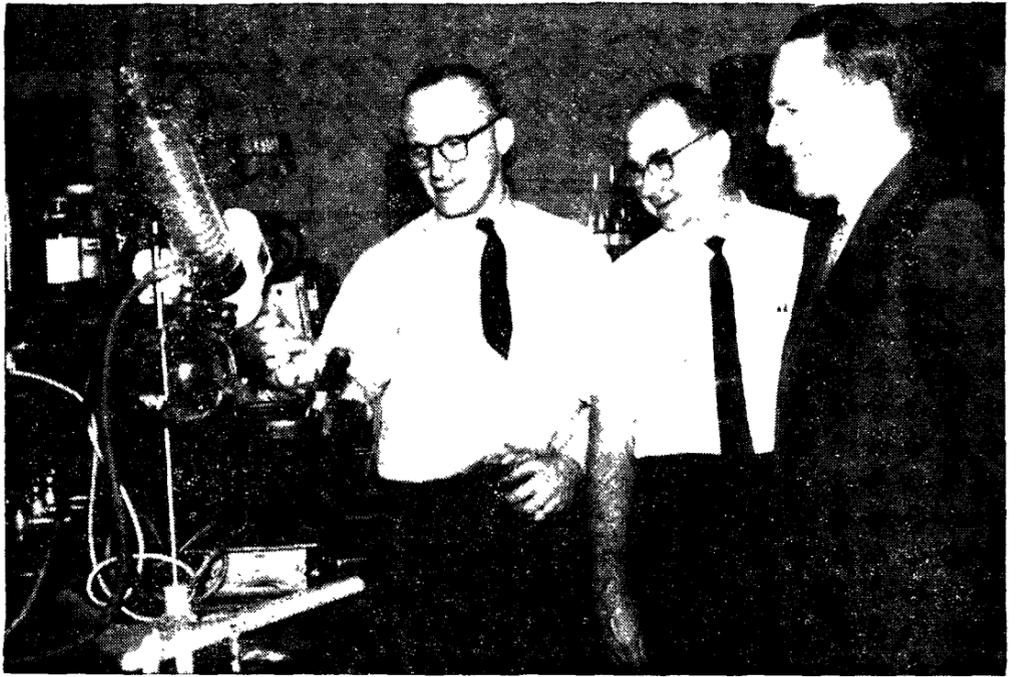
—ALSO—



MARTIN THEATRE

DOWN TOWN

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A REDSTONE REUNION—When Lt. Charles Pittman (left) earned his PhD from Pennsylvania State, one of his teachers was Dr. Norman Deno, (right) Professor of Chemistry. The past week Dr. Deno came to Huntsville as a Tour Speaker for the North Alabama Section of the American Chemical Society. Prior to the meeting, Dr. Deno visited Lt. Pittman in the Propulsion Laboratory of the Army Missile Command's Research and Development Directorate where they discussed current problems in chemistry with other researchers from Arsenal laboratories. Chester W. Huskins, Chairman of the North Alabama Section of the Society and Group Leader in the Solid Propellant Chemistry Branch of the Propulsion Laboratory, is in center of the picture.

SOL M. LINOWITZ has succeeded Ellsworth Bunker as U. S. representative to the OAS. He ranks as an ambassador and is also the U. S. representative to the Inter-American Committee of the Alliance for Progress (CIAP). Ambassador Bunker has become a roving ambassador. In another ambassadorial change, Robert G. Newmann was sworn in as U. S. Ambassador to Afghanistan last week. He succeeds Ambassador John M. Steeves. Now Director General of the Foreign Service. (AFNB)

NAVY MEN ASHORE in South Vietnam number more than 22,000, some 6,000 of them Seabees at work on airfields and base facilities. Another 3,000 consist of doctors, dentists, chaplains and hospital corpsmen serving with the Marine Corps. (AFNB)



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PEOPLE-TO-PEOPLE
(Continued From Page 1)

two families.

The Military Personnel Division in the Directorate is also showering two families with a turkey dinner.

At the Post Exchange, the employees collected items for Christmas boxes to be distributed in the 93rd Evacuation Hospital in Vietnam on Christmas. The action is a part of "Operation We Care." The hospital is the one adopted under that name by Huntsville.

The 16 people in the Missile Command's Headquarters Administrative Office have adopted a foster home child whose name was obtained from the state welfare agency.

The 65 people in the Redeye Project Office are collecting assorted items and have proved generous enough to spread the donations among more than one family.

Five groups in the Supply and Maintenance Directorate are planning a merry Christmas for the

needy.

The Long Range Ballistic Missile Section of the Publications Division will include a Christmas tree among the gifts its adopted family receives on Christmas. Some of the presents came early. Members of the 15-man section, took members of the family to town to have shoes fitted.

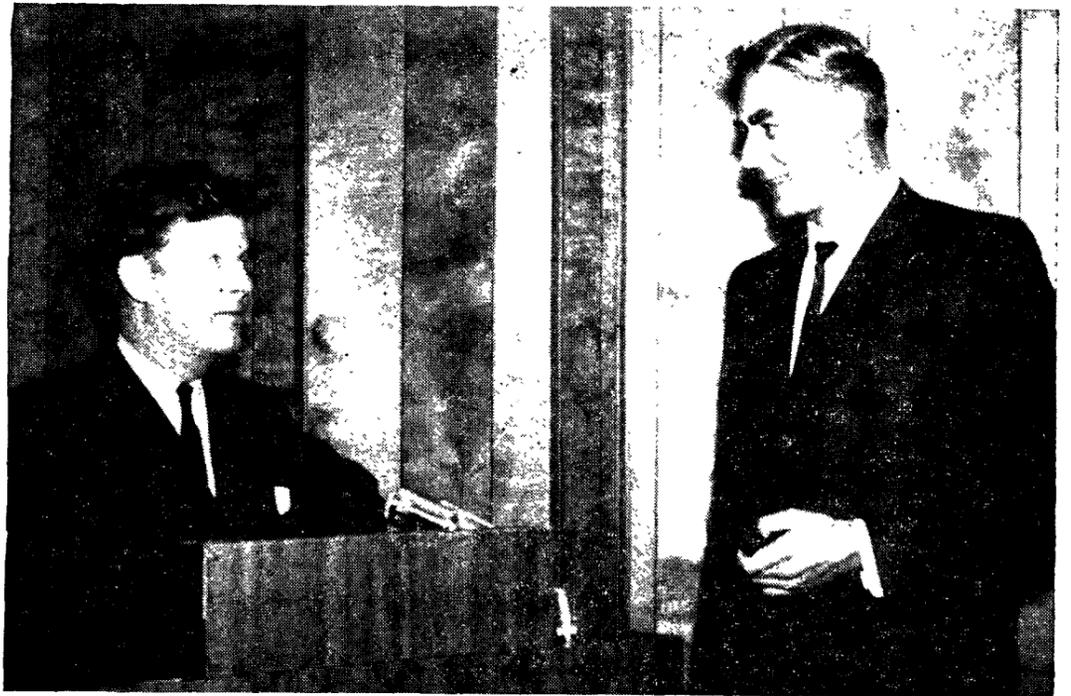
In the cataloging division where 115 people work, they plan to adopt two families.

The Pershing Section of Supply publications, with 15 people on the staff, has adopted a family and collected food, clothes, toys and money to give them.

In the Short Range Ballistic Missile Section the 12 civilians adopted a family for Christmas.

In the Nike-X Project the 50 people in the Procurement and Logistics Division combined with 10 persons assigned to the Site Activation Office are being Santa Claus for three children whose names were obtained from the welfare office. The Test Division's 40 people are supplying toys and clothes for a child in a foster home and the Engineering Division's 60 people is adopting one child.

Among the distributors of this largesse will be members of the 291st Military Police Company who will help Christmas Charities distribute the packages among the less fortunate families in town and county.



GUEST LECTURER—Dr. Peter Wynn, (left) a staff member at the Mathematics Research Center, U. S. Army, University of Wisconsin, presented a lecture series on the numerical application of continued fractions, to U. S. Army Missile Command personnel at Redstone Arsenal last week. At right is Dr. Sigurd Lehnigk of the Physical Sciences Laboratory, a part of the Research and Development Directorate. Coordinator for the lecture series is the Training and Development Division of Civilian Personnel.

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SHILLELAGH
(Continued From Page 1)

ed on the launching vehicle and is capable of maneuvering in flight to attack moving targets. With Shillelagh, no ranging or leading of the target is required.

An unusual feature of the Shillelagh missile system is its 152mm gun-launcher which can fire either missile or conventional ammunition. The fact that a tank can carry both missiles and conventional rounds—and fire from the same tube the one best suited to the target—is considered a major weapon breakthrough.

The Shillelagh weapon system is managed by the Missile Command, under Col. Spencer R. Baen, Project Manager. The Aeronautics Division of Philco-Ford Corporation is prime contractor.

Arctic tests are being conducted by the Army's Test and Evaluation Command. Capt. Edward Halbert is Test Officer, and Eugene Boyd represents the Shillelagh Project Manager.

SPARTA
(Continued From Page 1)

by a team of representatives from TRW Systems, prime contractor for the program; Chrysler Corporation, subcontractor which did refurbishing work on the Redstones and designed and manufactured the reentry vehicles; and LTV Astronautics which designed and manufactured the velocity package.

Directing launch operations and representing the U. S. Army Missile Command was Edward P.

Fronefield, Officer in Scientific Charge.

Work on the SPARTA program is being directed by the Intercept Technology Branch, ARPA Division, of the Missile Command's Research and Development Directorate. The Missile Command manages the program for ARPA, an agency of the Department of Defense.

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PROCUREMENT
(Continued From Page 1)

The Fairs were initially held the first and third Wednesday each month starting in October. During December and January, the events are being held once a month due to the holidays.

The next Fair will be on January 11.

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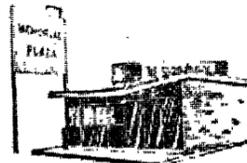
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Choir Sings At Wives Club Christmas Lunch

SOCIAL and CLUB EVENTS

Christmas Party Ends Bridge Until Close Of Holidays

Five tables of players participated in the bridge luncheon at the Redstone Officers Wives Club annual Christmas party in the Officers Mess Thursday.

Bridge, lunch and an exchange

of gifts, dispensed from a Christmas tree which served as the centerpiece for the lunch table were all on the program. Berry and pine streamers decorated the serving table.

Winners at bridge were Lellah Mullins, high; Mrs. Felix M. Hardison, second, Mrs. R. W. Washburn, third and Mrs. Walter Thomas, low.

The Bridge Group plans no further meetings until Jan. 5. Mrs. Thomas will accept reservations to play with the group on that date until noon on Jan. 4.

The Redstone Arsenal Officers Wives Club held their December luncheon in the Open Mess Ballroom under chandeliers in silver and gold. The 300 members and guests who attended heard the Oakwood College Choir sing selections from Handel's Messiah.

Mrs. Morris W. Pettit, the club's president, introduced the choir to the audience, including the accompanist, David Floyd Wilson and Director Harold L. Anthony, following the musical program. Wilson is also organist for the Protestant Post Chapel. Mrs. H. H. Northington presented the entire group to the audience and gave a short resume of the history of the college and the roving choir which has also been recorded.

The entire Officers Open Mess has been furnished the festive

garb of the Christmas season by members of the Wives club. Each room is decorated with a different theme of Christmas. The Wives Club luncheon committee arranged to use both Hawk Room and the Ballroom. The latter is decorated with pear trees, barrels of holly and the festive candelabra holding red candles. Christmas trees of gold, fashioned from paper cones in compotes and festooned with the many shapes of macaroni, were centerpieces on the lunch tables.

In the Hawk Room the serving table had runners of holly and macaroni Christmas trees. On the walls were banners with illustrations from the song, the twelve days of Christmas with the turtle dove, the hens, milk maids and

the variety of things "my true love sent to me."

Hostesses for the event were wives of officers assigned to Nike-X. Mrs. Ivey O. Drewry was the overall chairman with Mrs. Joseph T. Pendergast chairman for the decorations. Favours came from Dunnavants, United Airlines and Merle Norman. Mrs. Harold Zier was in charge of these.

Mrs. James W. Walters, Jr., and Mrs. Robert W. Nungovan greeted the guests. Pourers were Mrs. George B. Kuykendall and Mrs. Kenneth V. Barnwell. Mrs. Herbert I. Duncan and Mrs. Woodrow W. Crum were in charge of the menu.

Chaplain (Capt.) Robert W. Riley presented an invocation before the lunch began.



OAKWOOD CHOIR—The Choir from Oakwood College, not quite its usual 100 voices strong because of final exams, sang selections from Handel's Messiah and other selected Christmas music at the December luncheon of the Redstone Officers Wives Club last week. Approximately 300 members and guests attended the event.

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Three More Mixers Set

The College Age Mixers being planned for dependents of active and retired military in the vicinity of Redstone Arsenal is sponsored by the Joint Activities Council and will be in the Patio Room at the Redstone Officers Open Mess.

The parties are all casual and are scheduled on Tuesday and Thursday this week and next week. A New Year's Eve party is also planned. Reaction of college students to the parties in November prompted a repeat for the dependents of officers and enlisted men and retired and active military men. Tickets for New Year's Eve are on sale in the office of the Mess.

Reservations for tomorrow night and next week are being handled

by Mrs. Sterling Abernathy, 877-5551; Mrs. Russell A. Bergmann, 837-0466; Mrs. Ivey O. Drewry, 877-5136; Mrs. Alton D. Harris, Jr., 539-8713; and Mrs. James Harris, 877-4349.

Our good wishes are on their way to you this happy time . . .

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Pershing Is Field Army Support Weapon

Pershing Fact Sheet

calls for product improvement program and cost reductions.

The Redstone Rocket — December 21, 1966

Page 5

EDITOR'S NOTE: This is one of a series of updated facts about the Army's missile arsenal and the missiles still in the research stage of development that promise to strengthen the Nation's defense capabilities. Improvements, modifications and even silhouettes change the capabilities and increase the accuracy of this arsenal as technology advances. Department of Defense has approved each of these facts for public release.

PERSHING

Military Designation: XM 14;
Type: Surface-to-surface;
Speed: Supersonic;
Trajectory: Ballistic;
Propulsion system: Two-stage solid-propellant;
Warhead: Nuclear;
Guidance system: Inertial;
Range: 100-400 nautical miles;
Weight: Approximately 10,000 pounds;
Length: Approximately 35 feet;
Diameter: Approximately 40 inches;
Status: Production.

Pershing is a two-stage solid propellant ballistic missile with selective-range capability. The highly mobile, quick reacting system developed as a field army support weapon is to replace the Redstone missile now deployed with Army units.

The Pershing, carrying a nuclear warhead, will extend the Army's ballistic "Sunday punch" to ranges of 400 miles under any weather or terrain conditions.

The program was initiated in January, 1958. Martin Company, Orlando Division, was awarded the prime contract in March, 1958.

The first Pershing, (first stage only), was fired in February, 1960. In September of that year, the Army first fired both live stages at Cape Canaveral, Florida.

Ground support equipment (GSE) has been developed and tested concurrently with the Pershing missile. All Pershing firings, which established a new record for success in the ten-year history of the Atlantic Missile Range, have been from the system's transport-erector-launcher (TEL).

Prime mover for the system is the XM 474 tracked vehicle, a modified M-113 light armored personnel carrier. Four of the tracked vehicles are used to transport the Pershing system. The XM 474, built by FMC Corp., has a 200 mile cruising range, and a maximum forward speed over the road of 40 mph. It can ford a 42-inch depth of water, and can be made amphibious with a special adaptation kit. It is about 18 feet long, 8 feet wide, and weighs about 4,000 pounds gross.

Both Pershing missile stages are developed and produced by Thiokol Chemical Corporation. The solid propellant stages are housed in casings made of stainless steel.

Pershing's inertial guidance system was developed by the Missile Command guidance and control laboratory. Designs were furnished Bendix, Eclipse-Pioneer Division, for further development and production. The guidance system, which is immune to known electronic countermeasures, controls the missile until cut off and separation of the second stage.

Topping the Pershing round is a needle-nosed re-entry vehicle. The warhead section travels on a ballistic course and re-enters the atmosphere at a very high velocity.

The warhead section is covered with an ablative material to allow it to withstand reentry heating.

Fuzing and arming the warhead, a critical part of any weapon system involving nuclear explosives, is done by a system produced by Ford Instrument Co. and Sperry Farragut, both divisions of Sperry-Rand. Picatinny Arsenal developed the design concept and has supervised the detail design, development and testing.

The Pershing round is carried in an erector boom on the mobile TEL mounted on an XM 474. The TEL can also be removed from the tracked vehicle for transport by air. TEL, developed by Thompson, Ramo-Wooldridge and now produced by the Unidynamics Division of Universal Match Co., weighs about 5,800 pounds, is about 20 feet long, about six feet, six inches wide and about nine feet high overall. The other three major units in the system are the warhead section carried in a clamped cradle; the power station-programmer test station; and the tropospheric-scatter radio terminal communications station. Collins Radio Co. is producing the communications equipment.

Pershing system is air transportable by fixed-wing aircraft or Chinook (CH-47A) helicopters. The Chinook has an average cruising speed of 130 knots at 5,000 feet and the normal mission payload for a 20 nautical mile radius is more than three tons. The Boeing/Vertol aircraft has an alternate mission payload for 100 nautical mile radius of seven tons.

A Hayes International produced missile trainer is included in the Pershing equipment. The trainer, which looks and handles like the real thing, is used by troops in firing operation and maintenance training. Circuits in the system permit the instructor or training officer to simulate troubles similar to those that might occur in the tactical missile.

Break-out procurement has been a feature of the Pershing procurement program. There are some 35 to 40 contracts in Pershing.

Pershing has undergone extensive testing in the four-year telescoped development program. These tests and those continuing testing after Pershing production include:

*Firings at the Atlantic Missile Range.

*System test laboratory, where the complete Pershing system is linked to an analog computer to determine the response to programmed data.

Three remote on-site tests; desert test in the Southwest United States; Arctic tests at Ft. Wainwright, Alaska; and tropic tests were conducted June-July-August of 1963 at Ft. Sherman, C. Z.

*Eglin AFB low-temperature tests, in the climatic hanger.

*Age and deterioration tests.

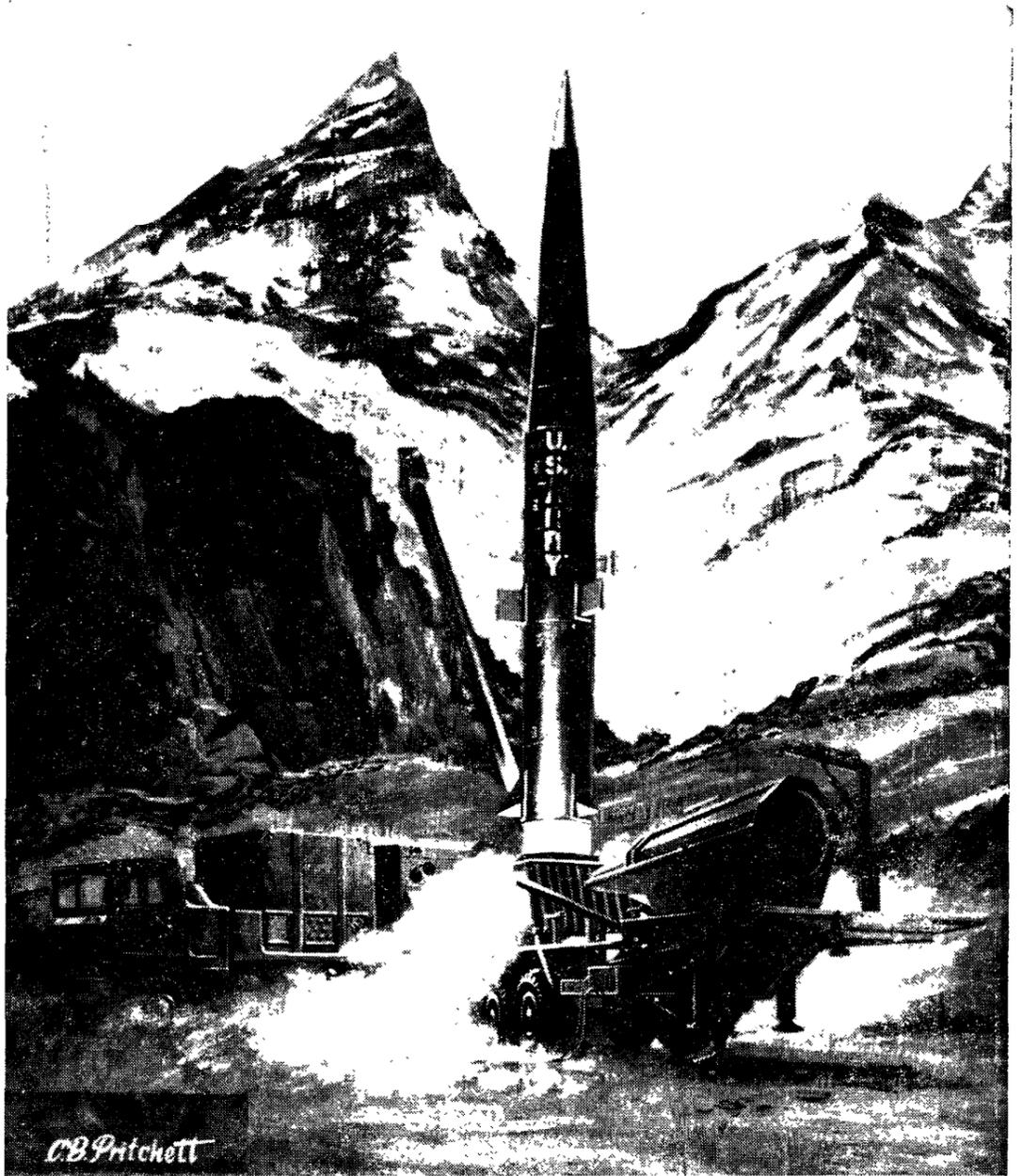
*Local weapon system test run at Orlando. This is an extended operational type test conducted on R&D equipment by R&D personnel and is conducted to obtain an early evaluation of the system and permits early introduction of essential improvements.

*Aberdeen Proving Ground road test. This 4,000 mile endurance test was conducted using the four tracked vehicles with their respective loads.

*Service test program, actually the first user test run by Army.

*Industrial test plan, which occurs after completion of development of the Pershing. This plan

Edwin I. Donley, Pershing Project Manager, is directly responsible for fielding the Pershing system. Col. Donley and his staff direct the program from the U. S. Army Missile Command.



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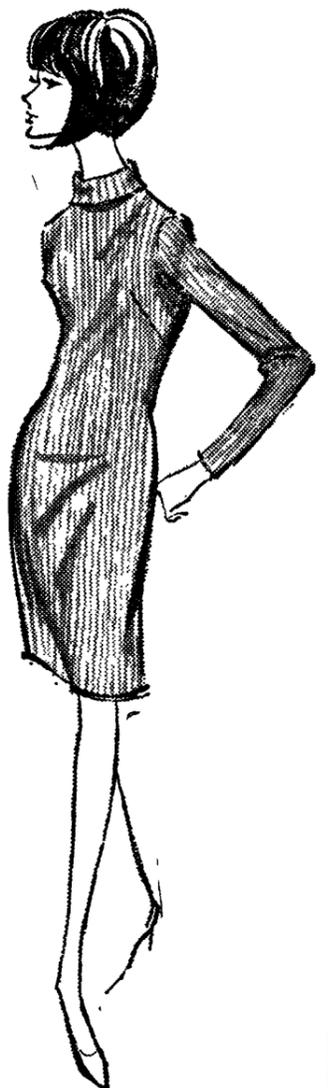
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Supply Bowler Continues To Chase Perfect Game

"I'm getting closer all the time and some time I'm going to go all the way," is a warning that D. B. Smith gave to opposing teams in the Supply Management bowling league last week after another of his narrow misses.

D. B. had just seen his hopes for a perfect game smashed for the third time this season, "just when I thought I finally had it." The Fayetteville Fireball strung nine straight strikes together before "throwing one right through the center."

The result was a Big Four split and a 260 "I'll admit it wasn't the best of hits," D. B. said, "but I was hoping for a little pin action."

The near-perfect game came in the third game and boosted Smith over the 600 mark for the third time this year tying him with his team mate, Tom Lindsay, for the most Honor Roll totals in the three Civilian Leagues.

His 612 also enabled the Huntsville Brick and Tile quintet to regain the top spot in the Management League with a 3 to 1 win

over the Manglers. The Auto Center dropped by losing three to Pearsall Flowers.

Dan Chepkauskas helped the HUBCO attack along with a 549. Jim Traglia paced the Pearsall attack with a 561 and Tom Patterson chipped in with a 543. Hansel Fooshe was the Auto Center leader with a 574.

Chet Wysocki was the loop runner up with a 577 as he led the All-Sports Trophies to a clean sweep win over Lily Flagg. The Pin Busters scored another sweep at the expense of the 7 Ups and tied All-Sports for third, two points out of the lead.

The Field Services League apparently ran into a batch of rather obstinate pins and as a result not a single league member was able to reach 550.

Ralph Sturgill was the top scorer with a 542 as Bramblets won three from the Keglers to maintain a two point lead. The next three teams, the Expeditors, Banner TV and the Guided Muscles, each won all four. The latter five

All-Sports Stand Off Skunk Threat

The Skunks got a chance to regain the lead in the Comp Center Mixed league last week but the All-Sports Trophies were just as intent on extending their margin at the expense of the fallen leaders.

When the smoke had cleared over the Starlight Lanes the Trophy makers had taken three of the four points and doubled their lead to a full four points.

Sue Todd topped the All-Sports quartet with a 505 while Howard Jess hit the maples for a 545 in setting the Skunk pace.

Bobby Beal was the only other league kegler to top 500 when he totaled 523 for the Spares. It wasn't enough, however, as the Alley Cats took three of the four points. The Hits'n Misses won all four from the Squares in the final match of the week.

is only three points out of first. The Bombers primed their artillery for a clash the Ramblers the next time the AMC League goes into action by whittling their deficit to three and a half points.

The runner ups picked up a lot of momentum for the first place duel by posting new single game and series totals on their way to a sweep over the Lancers. The Bombers shot a middle game of 1135 and a series total of 3043.

Eulas Gilbert was the leader with a 574. Tom Smith shot a 551 and Bob Brand turned in a 543.

The Ramblers won three from the Panthers as Tom Patterson led the way with a 554. Al Siegman was the top scorer in the league with a 573 for the Skippers.

JOINT AIR RESCUE activities by Navy and Air Force in waters off North Vietnam have resulted in picking up 229 downed pilots from the Tonkin Gulf. Joint effort involves Navy ships and helicopters teamed with AF helicopters and amphibious planes. Officials point out this is an important activity that often goes unsung. (AFNB)



RECEIVE CERTIFICATES—Leon Starkey, left, and Paul Schaeppi were both awarded Certificates of Training on completion of a 10-hour Configuration Management course last week. The course is sponsored by the Army Missile Command Technical Data and Information Committee and is a discussion type seminar for engineers, management personnel and others. It is designed to provide background knowledge of several management techniques and show how they intermesh. Starkey is an equipment specialist in the Lance Project Office, and Schaeppi is Deputy Director of the Procurement and Production Directorate. Personnel interested in enrolling in the course should contact Ed Hart or Linda Cobb at 876-0649. The sessions are held two hours daily for five days.

Balanced Attack Proves A Winner

Ginny Payne and Anne Wiener shared individual honors in the Thursday Morning Ladies League last week while the Rare Spares were protecting their hold on the league's top spot.

Ginny turned in the best three game effort, a 517, for the Splatter Pins, but it was almost completely lost when the Rare Spares used a balanced attack to win three of the four points in their set. Nadine Hailey topped the leaders with a 175 game and a 468 series.

The Four Hopefuls got a little more mileage out of Anne's 503 total and went on to take all four points from the Tipsters. She had a 191 game.

In other matches the Bowling Bags took three out of four from the Angels as Rosemary Denmark

shot a 441, and the Do Nothings were led by June Handy's 449 in winning three from the Queen Pins.

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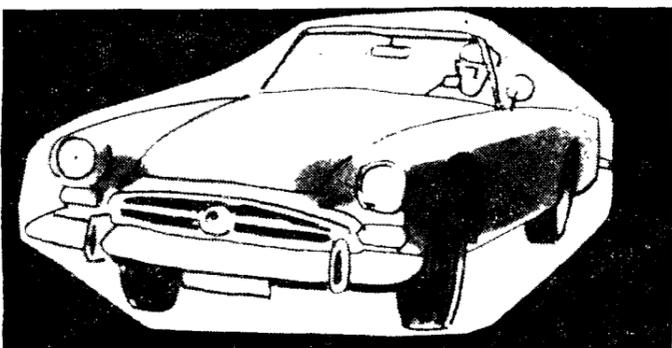
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Sergeant Possesses Many Unique Features

SERGEANT FACTS

EDITOR'S NOTE: This is one of a series of updated facts about the Army's missile arsenal and the missiles still in the research stage of development that promise to strengthen the Nation's defense capabilities. Improvements, modifications and even silhouettes change the capabilities and increase the accuracy of this arsenal as technology advances. Department of Defense has approved each of these facts for public release.

MILITARY DESIGNATION: XM-9;
TYPE: Surface-to-surface;

TRAJECTORY: Ballistic;
SPEED: Supersonic;
RANGE: 25 to 75 nautical miles;
GUIDANCE: Inertial;
PROPULSION: Single - stage, solid-propellant;
LENGTH: 34.5 feet;
DIAMETER: 31 inches;
WEIGHT: 10,000 pounds;
WARHEAD: Nuclear or conventional;
STATUS: Operational;
MISSILE SYSTEM MANAGER: Lt. Col. Arthur G. Lange, Jr. Sergeant Project Manager, U. S. Army Missile Command, Redstone Arsenal, Alabama.
PRIME CONTRACTOR: Sperry Utah Company, Salt Lake City,

Utah.

Sergeant is a Field Artillery ballistic missile system that is reliable, rugged, accurate and mobile.

As a second generation missile, Sergeant possesses several outstanding advantages. It utilizes an inertial guidance system and solid propellant motor, giving it immunity to known electronic countermeasures. These two improvements also give Sergeant operational simplicity, reduced ground handling equipment and crew training requirements, and an improved reaction time.

The missile is composed of four major sections. These are the warhead, guidance, rocket motor and control surfaces. These sections are assembled just before firing and are transported to the firing position in special containers which permit a functional check of each section while within its sealed container. Similar missile sections are interchangeable.

Major items of a firing battery are the Launching Station, Organizational Maintenance Test Station, and the Missile Transport Trailer. In addition, the XM68E2 Sergeant trainer, which simulates all technical characteristics of the missile, is used as a training device.

Sergeant's basic maintenance concept is based on the replacement of assemblies and subassemblies. Detection and replacement of faulty assemblies is the responsibility of the artilleryman through the use of the Organizational Maintenance Test Station. Detection and replacement of faulty subassemblies is the responsibility of the organic Ordnance Direct Support detachment. To perform subassembly isolation of malfunctions, the Ordnance detachment uses the Field Maintenance Test Station. In addition, the General Support detachment will perform piece part repair of electronic subassemblies by use of the Field Maintenance Test Station.

In October 1962, the Army's first Sergeant battalion scored a bulls-eye with the first tactical-type firing at White Sands Missile Range, N. M. Since then, annual service practice firings of Sergeant have been from there, as well as from San Nicolas Island off the California coast, Tyndall Air Force Base, Fla., and the Hebrides, an island chain off the coast of Scotland.

The Sergeant system is in operation with U. S. troops in the United States and overseas. West Germany also has Sergeant.

Sergeant played a part in an historic Army achievement that put the Free World in the race for space. The Jupiter C launch vehicle that orbited the Army Satellite Explorer I in January

1958 had solid propellant upper stages which were scaled down Sergeant motors.

In 1955, Jet Propulsion Laboratories (JPL), the developing contractor for Corporal, predecessor of Sergeant, was awarded a contract for the Sergeant system.

Sperry Utah Company entered the program in 1956 as the co-contractor for research and development and the prime contractor for equipment production. The Sperry Utah Company took over complete prime contractor responsibility for the system in July 1960.

The Redstone Rocket — December 21, 1966

Page 7



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Men Offer Menu Builders For The Holidays

The Rocket has published recipes that are the favorite of liaison officers wives, of the Junior Army Navy Guild Organization (JANGOs), of secretaries, and just plain people in general. This year the solicitation for recipes was made to men. Among those willing to help us share new ideas in holiday fare are cooks and non-cooks. Either way, they offer a variety of tasty dishes.

Some men assume the role of supervisor and taster rather than messing with the condiments that go into dishes they prefer.

That isn't true of Maj. C. R. Cranford, Liaison Officer for the Air Defense Board, who likes to involve the family and the neighbors as well when it comes popcorn ball making time. His recipe is simple, the results before the balls take shape are sticky, and the end product a delight. This is his description of how to go about it:

POPCORN BALLS

2 3 cup of white Karo syrup
2 cups of Sugar
2 3 cups of Boiling Water
2 teaspoons of Cream of Tartar
2 Tablespoons of Vinegar
2 Tablespoons of Melted Butter
2 teaspoons of Vanilla
1 8 teaspoon of soda
8 to 10 cups of cooked Popcorn

Combine syrup, sugar, water and vinegar. Cook to boiling point. Add cream of tartar and boil to 275 F. Remove from fire and add butter and soda and vanilla. Pour rapidly over popcorn, stirring quickly with long handled spoon. Oil hands and form balls quickly. Balls should be about the size of a Baseball. This is fun for the kids and invite the neighbors in to help. The role of the Male Member is to take pictures and keep his hands out of this gooey mess.

BG Clarence C. Harvey, Jr., Deputy Commanding General for Air Defense, relies on his wife's recipe for a succulent steak. Anytime is steak time! Here is the recipe for a weight watcher's delight:

First Choice

(If you have the price)

1 4 lb. aged U. S. Prime Sirloin Steak, 2 1/2 inches thick

Second Choice

(If you don't)

1 4 lb. aged top quality chuck roast 2 1/2 inches thick (be sure meat has plenty of fat veins throughout)

If first choice is used:

Season with salt, fresh-ground pepper, 1 clove of fresh garlic crushed. Grill on barbeque over hot coals or low coals, short time or long time—makes no difference. Succulent however cooked. (Well, you paid for it, didn't you?)

But if using second choice:

Marinate several hours, turning frequently in equal parts bourbon, soy sauce and water (about 1/2 cup in all.)

Grill 4 inches above low coals about 1 1/2 hours, turning frequently and basting with leftover marinade until desired doneness is reached. (Note: if coals flare up,

dash with a spray of water). Result: Succulence at reduced price.

Serve either meat with "Spanish Lettuce" and a loaf of French bread, quartered, dipped in dill seed, garlic butter and broiled (for non-weight watchers).

Recipe for Spanish Lettuce

2 heads Boston lettuce, crisped and torn apart

Toss immediately before serving with 1/4 cup red wine vinegar, 1/2 cup safflower oil, 1/2 tsp. prepared mustard, 1/2 tsp. salt, ground pepper to taste.

The Chief of Staff for the Missile Command, Col. William C. Kaiser, is among the tasters. Among his favorite tastes during the holidays is toffee, a recipe for which he talked Mrs. Kaiser into recording:

TOFFEE

1 cup chopped, blanched almonds
1 cup butter
1 cup firmly packed brown sugar
2 bars sweet milk chocolate
Sprinkle 1/2 cup almonds over greased plate or pan. Melt butter, add sugar and mix thoroughly. Cook slowly, stirring constantly to light-crack state (270 degrees). Pour over almonds in thin sheet. When set but still warm, arrange pieces of chocolate bars over mixture. As chocolate melts, spread over candy with a spatula and sprinkle with remaining almonds. Cool and break in pieces.

Merlin Berg, from the Hercules Project, likes the old fashioned tastes and managed to acquire a recipe from a sister in Indiana for plum pudding.

PLUM PUDDING

1 cup ground suet
1 cup seeded raisins
1 cup dark brown sugar
1 cup buttermilk
2 cups flour
1 teaspoon soda
1 teaspoon cloves
1 teaspoon cinnamon
Mix above ingredients well and steam 2 1/2 hours.

When ready to serve make sauce as follows:

2 cups brown sugar
1 cup water
1 tablespoon butter
2 tablespoons cornstarch
Mix above together and cool until clear, then add lemon or vanilla flavor to taste.

The Berg's also enjoy cookies and find the following recipe as bright as the season:

FRUIT DROPS

1 cup soft shortening
2 cups brown sugar (packed)
2 eggs
1/2 cup buttermilk
3 1/2 cups sifted flour
1 teaspoon soda
1 teaspoon salt
1 1/2 cups broken pecans
2 cups candied cherries cut in halves
2 cups dates cut up
Mix shortening, sugar and eggs. Stir in buttermilk.
Sift dry ingredients together and stir in pecans, cherries and dates.

Chill at least one hour.
Preheat oven to 400°. Drop rounded teaspoonful about 2" apart on lightly greased bake

sheet Bake 8 to 10 minutes until no imprint remains when pushed lightly with finger.

The holidays always call for ham and turkey among the traditionalists and Bob Finney of the Information Office is among the most skillful blenders in any kitchen. He experimented with dressing until he found just the proper balance for stuffing the bird:

TURKEY DRESSING, SOUTHERN STYLE

8 cups cornbread crumbs
5 cups white bread crumbs
1/2 cup chopped onion
1/2 cup chopped celery
1 tsp salt
1/2 tsp black pepper
2 eggs, beaten
2 cups or more of turkey stock.
Combine bread crumbs with celery and onions. Add eggs, turkey stock, salt and pepper. A pint of oysters may be added if desired. Mix well. Spoon lightly into turkey or place on a greased baking sheet and bake at 350 degrees about 20 minutes or until browned. Makes enough for a 15 pound turkey.

The Finney ham is another unusual approach with a festive air:

HOLIDAY HAM

3 cups raw cranberries
1 1/2 cups strained honey
2 tbsps whole cloves
2 slices center cut ham (3/4 to 1 inch thick)
Mix cranberries and honey. Gash edges of fat on ham. Place one slice ham in a baking dish. Spread the center with a mixture of cranberries and honey. Top with second slice. Cover with remaining cranberry and honey mixture. Garnish with whole cloves. Bake until done in moderate oven (350 degrees) about 1 1/2 hours, basting occasionally with liquid in dish.

Anyone wishing to take an unusual approach to a salad might try Juan Gerala's Salad Cake Argentino. Gerala, a member of the Legal Counsel staff, is an Argentinian who whips up some unusual dishes in his bachelor abode. Here is one:

SALAD CAKE ARGENTINO

5 eggs—beat whites & yellows separately
3 rounding soup spoons of wheat flour

Salt—pinch or two
Nutmeg—pinch or two
Mix all together and place in moderate oven for about 20 minutes (it should rise & be light inside when done)

Mix to taste mayonnaise & mustard (about a cup—quite thick)

Cut cake in 3 thin layers—spread all layers with mayonnaise on all sides. Lower layer fill with cut fine palmito. Second layer with cut fine lettuce, tomato, celery and parsley seasoned with salt.

Top layer fill with cut fine cooked potatoes and peas. Put plenty of mayonnaise in each layer, to cement well together.

When layers are all together spread all of outside also with mayonnaise. Roll sides in cut fine lettuce and sprinkle grated hard boiled eggs on top. Decorate with cut olives—ripe & green.

Another of the lawyers in the staff, Verbon Black, is not a bachelor, but he knows some cunning tricks with eggs and suggests this blend at the top of the day or at its end:

ARABIAN EGGS

6 eggs
1/2 small onion chopped
1/2 tsp. garlic salt
1/4 cup evaporated milk (or cream)
2 dashes of tabasco
1/2 tsp. worchestershire sauce
1/2 tsp. parsley
1/2 cup sharp cheese, diced
small can of mushrooms (stems and pieces)
pepper and salt to taste
Sauté the chopped onions in a generous amount of bacon grease. Break eggs into a blender; add milk, garlic salt, Tabasco, Worchestershire and pepper. Blend well

and pour into the skillet with the sauteed onions. Cook slowly at low heat, stirring constantly. Add the mushrooms and after the eggs have started to set, add the cheese. (If the eggs haven't started to set before the cheese is added, the result is a very unappealing soup.) Continue to stir and be careful to remove from heat while still quite moist. Stir in the parsley. Do not overcook and do not cook at high heat. These are especially good served with crumbled bacon on top.

Another of the Information Office members, Fred Eiland, likes this blend when he has a houseful of guests for the evening:

ARTILLERY PUNCH

Combine and stir well
1 cup sugar
Juice of 6 lemons or 12 table-spoonfuls concentrate
Add:
2 tablespoons of bitters,
1 quart Claret wine
1 quart Sherry wine
1 quart rye, bourbon or scotch
1 quart brandy
pour over block of ice in punch-bowl and add 1 quart club soda serves 20.

Dick Miller on the audio-visual staff as an illustrator claims a good salad starts in the grocery store with a mixture of greens, and crisp and soft textures to contrast or blend.

For dessert he finds cheesecake a satisfying meal topper. Here is the recipe his wife uses:

CHEESECAKE STATLER

Cheese Mixture:
2 lb. cream cheese
4 eggs
1-1/8 cup sugar
1/3 teaspoon salt
(See MENU on Page 9)

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Feasts Are Dressed In Festive, Tasty Garb

MENU

(Continued From Page 8)

1-1/3 tablespoon lemon juice
1 teaspoon vanilla

Beat cheese in mixture till soft and creamy, add eggs, one at a time, beating till smooth after each addition. Add remaining four ingredients and mix **ONLY ENOUGH TO DISOLVE SUGAR.**

Crust:

4 tablespoons Graham cracker crumbs
4 tablespoons Zwieback crumbs
1 tablespoon sugar
1/4 teaspoon cinnamon, blend together.

Grease a 9"x10" spring form pan with butter. Line bottom and sides with crumb mixture. Pour in cheese mixture, bake. Cake is bet-

ter when made a day ahead. Store overnight at room temperature. DO NOT remove from pan till cool. May be frozen, wrapped in foil. NOTE: While baking, rises 2 1/2 times, while cooling will fall about 1/2.

And just for good measure, because it blends so very well with the trimmings of Christmas, here is a congealed salad:

CRANBERRY SALAD

2 C cranberries
1 1/4 C water
Cook together until cranberries pop. Add 1 C sugar to above and cook 5 more minutes. Cool.
2 pkgs. cherry or any red Jello
Add 2 C hot water
Combine cranberries and jello and cool, add the juice and grated rind of 1 orange, 1 3/4 C chopped celery, 1 C chopped apple, 1/2 C

walnut meats, 1/2 tsp salt, and marshmallows as desired. Combine and chill.



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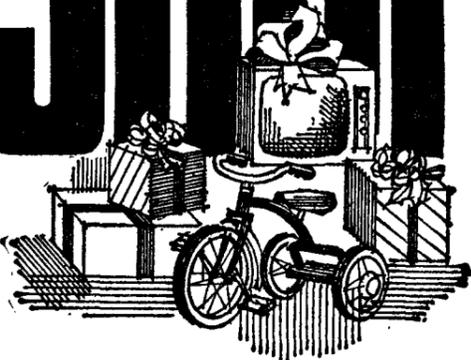
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—with up to 30 mos. to repay

Cash You Get	MONTHLY PAYMENT PLANS			
	6 Payments	12 Payments	18 Payments	24 Payments
\$ 50	\$ 9.23	\$ 5.02		
75	13.84	7.53	\$ 5.45	
100	18.46	10.05	7.27	\$ 5.90
200	36.92	20.09	14.54	11.81
300	55.09	29.87	21.54	17.42

Above payments include principal and interest. Life Insurance is available at group rate on loans above \$100. Loans up to \$300 under state supervision.

Cash You Get	MONTHLY PAYMENT PLANS		
	12 Payments	24 Payments	30 Payments
\$500	\$46.81	\$24.73	
700	64.92	34.30	
1000	92.30	48.76	\$40.05
1500	137.80	72.80	59.80
2000	181.96	96.13	78.96

Payments above include principal and loan charges if repaid according to schedule, but do not include life and disability insurance, available at group rates.

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New Year Greetings

Page 10 The Redstone Rocket — December 21, 1966



Merry Christmas

Rosy cheeks sparkling eyes, happy voices...children in anticipation of everything that Christmas brings: the family tree, stacks of presents, bells ringing out sweet carols, stockings filled with goodies, Santa Claus...and the solemnity of each tiny creche. Watching the delight, the awe, the wonder in a child's face is knowing the Spirit of Christmas. To all, our sincere greetings of the season plus our gratitude and thanks.



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Littlejohn Is Like Robin Hood, Ready Now

Littlejohn Facts

EDITOR'S NOTE: This is one of a series of updated facts about the Army's missile arsenal and the missiles still in the research stage of development that promise to strengthen the Nation's defense capabilities. Improvements, modifications and even silhouettes change the capabilities and increase the accuracy of this arsenal as technology advances. Department of Defense has approved each of these facts for public release.

Type: Surface-to-surface;
Trajectory: Ballistic;
Range: More than 10 miles;
Guidance: None;
Propulsion: Single-stage, solid propellant;
Length: 14.5 feet;
Diameter: 12 inches;
Weight: Approximately 800 pounds;
Warhead Types: Nuclear, non-nuclear;
Mobility: Ground mobile, or air transportable;
Status: Operational.

The 318 mm rocket, commonly known as the Littlejohn, is one of the Army's most advanced free-flight rocket systems. It is highly mobile and packs the explosive power of heavy artillery. Littlejohn is capable of delivering warheads with an effectiveness that surpasses Army requirements. It is easily transported by vehicles or helicopter.

The rocket was designed and developed at Redstone Arsenal. It



is under the systems management of the U. S. Army Missile Command. Littlejohn was designed to be used in Army airborne operations.

The weapon is produced by Consolidated Western Steel, Emerson Electric Manufacturing Company, Hercules Powder Company, U. S. Army Weapons Command, and the U. S. Army Munitions Command and its supporting contractors.

In contrast to a guided missile, Littlejohn is a free-flight rocket without electrical controls. Its deployment in the field is very similar to conventional artillery.

Littlejohn has been issued to troops in this country and abroad.

The Redstone Rocket — December 21, 1966 Page 11

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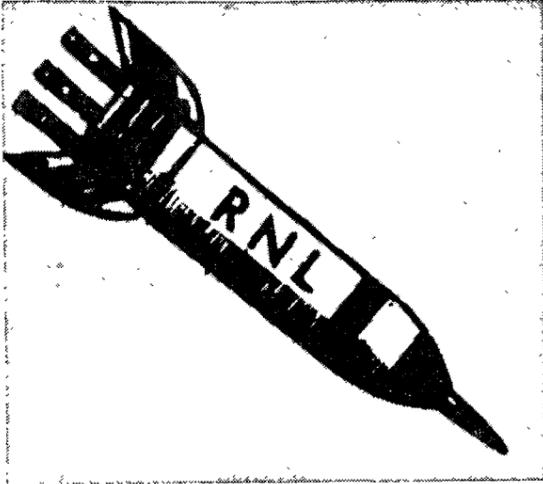
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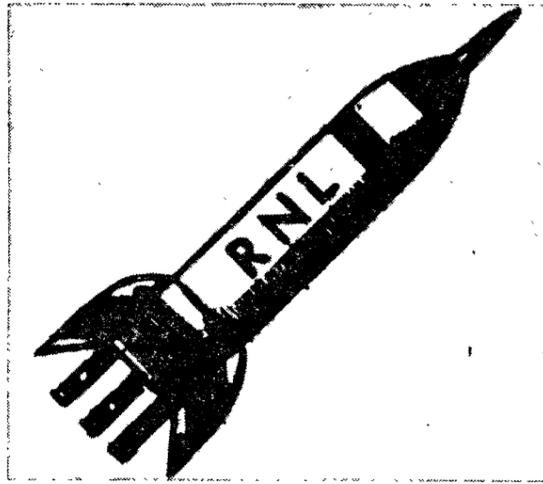
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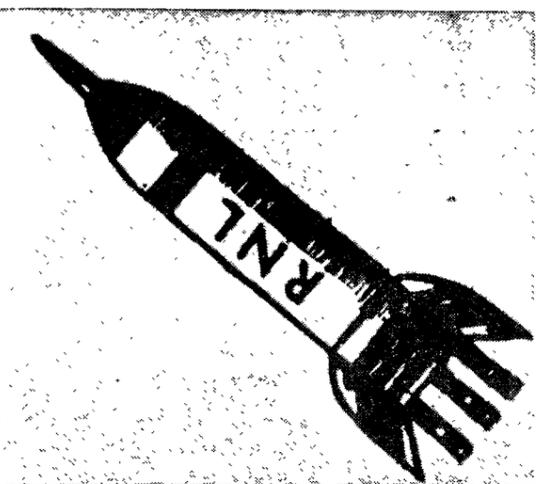
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TOW Begins Engineer Service Tests

The Army is entering engineer service tests of the TOW wire guided missile, a new infantry weapon so deadly it can knock out an enemy tank from more than a mile away with one shot, the developer of the system reported today.

While the Army is subjecting the missile to firing under field conditions, Hughes will set up pilot production facilities under an Army contract to study quantity production of the weapon, a company official said. A helicopter version of the missile is also being developed.

Dr. Leonard Gross, division manager at Hughes, said TOW was designed to give the infantryman an "equalizer" against his classic enemy, the tank.

"TOW gives the foot soldier the accuracy and firepower to fire at long range from a hiding place and get his tank with the first shot," Gross said.

The high speed missile, which receives steering signals through two hair-thin wires while in flight, can follow a tank's maneuvers and destroy it even though it is dodging and racing at top speed to avoid being hit.

The launcher is light enough to be carried by three men so that it can be placed in areas not accessible to vehicles. It can be mounted on jeeps, M113 armored personnel carriers, or other vehicles.

To fire the TOW weapon a gunner simply aligns the cross hair of a telescope sight on the tar-

get and then launches the missile. The gunner keeps his sight centered on the target and the missile is automatically steered, by electronic signals transmitted along its trailing wires, to the exact spot at which the sight is aimed. The gunner does not have to estimate the range or speed of the target or the angle at which it is traveling.

Gross said developmental models of TOW at the Army Missile Command's Redstone Arsenal scored center hits on tank-size targets traveling at speeds up to 30 miles an hour, at ranges of more than a mile.

The engineer service tests now starting will use tactical models and will provide a "wringing out" of the weapon under realistic

field conditions, including firings by troops in a simulated battle environment. Such tests normally precede acceptance and production of a new weapon by the Army.

The TOW system consists of a fiber glass launch tube, a tripod, the missile, a traversing and sighting unit, and an electronic "black box." The entire weapon system weighs approximately 200 pounds including the missile and can be broken down or set up in less than a minute.

The system is automated and simple to operate so it can be used by regular field troops without special training as Missile technicians. The missile is loaded into the launcher in its shipping case and can be handled as easily as a round of ammunition.

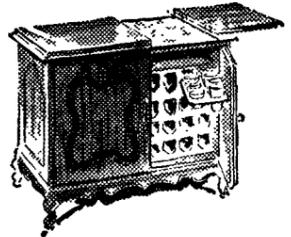
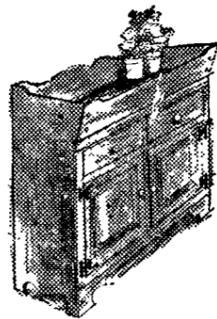
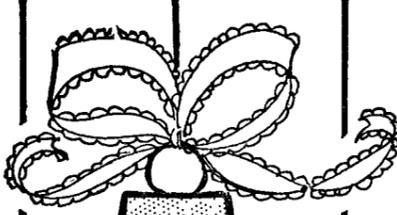
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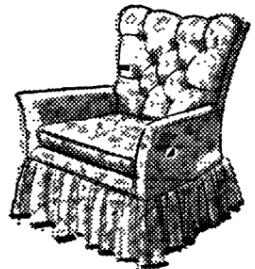
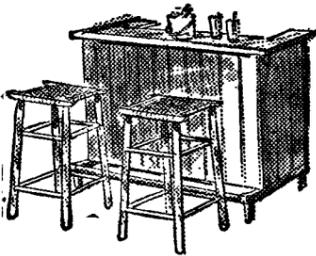
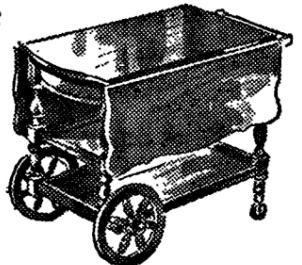


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Page 14 The Redstone Rocket — December 21, 1966

1. For Rent

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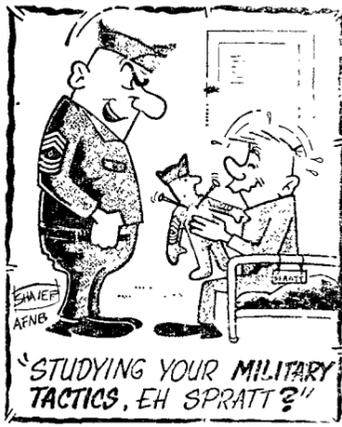
3. Miscellaneous

THE BIRD CAGE, nearly new shop 117 Longwood Drive S.E. (Just east of Riegel Outlet) Clothes for the entire family, unusual Christmas gifts, plentiful supply of party dresses. Open Mon. thru Fri. 8:30 to 4 p.m., Sat. 9 a.m. to 12 noon. ttc

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Seasons Greetings For The US Army

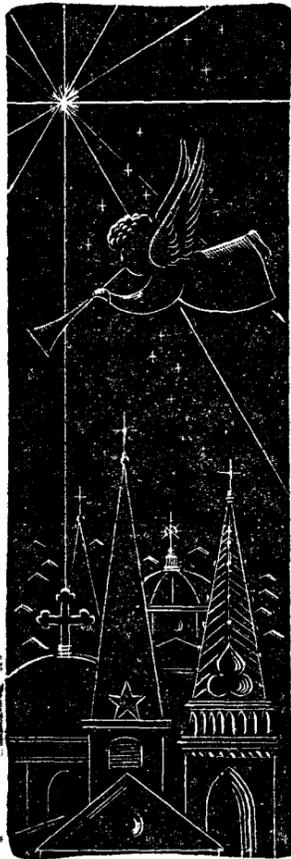
1966 CHRISTMAS MESSAGE

While the sacred Christmas season is a time of rejoicing, it is also a time to reflect on our purposes as voiced in the angelic proclamation "... on earth peace, good will toward men." Throughout the history of our Nation, we have worked toward a lasting peace in which men can live together in friendship and brotherhood.

This Christmas season finds many of you away from your homes and loved ones. Some will observe the birthday of the Christ Child at lonely and remote outposts. But all, and especially those of you in Vietnam, can take pride in the knowledge that your service to the Nation is helping to preserve liberty and to restore or maintain peace.

Wherever you may be serving, as soldier or civilian, Mrs. Johnson and I hope that this holiday season will bring joy and satisfaction to you and your families and that through your efforts the new year will bring permanent peace and good will—the true gift of Christmas.

Harold K. Johnson
HAROLD K. JOHNSON
 General, United States Army
 Chief of Staff



1966 SEASONS GREETINGS

By tradition, the holiday season in the United States is a period in which we review our ties with family and friends and take strength in all the blessings of our rich life. This year the growing presence of American fighting men in Vietnam serves to sharpen our focus on the sacrifices which we all must make to preserve our American traditions and to perpetuate our concept of freedom.

The frontiers on which we must conduct the defense of freedom and tradition have not diminished in number or size. American soldiers continue to man these frontiers in many diverse areas of the world. In some areas, the emphasis is on vigilance and the soldiers there must be watchful for the encroachments of those who would destroy our way of life. Other areas demand the exercise of military skills in preparing friendly nations to develop and defend themselves. Here our soldiers must devote themselves to advice and friendly persuasion. In Vietnam, the United States Army has been called upon to perform its basic mission—combat with an armed enemy. In every area, the job is being done with the spirit, courage, and devotion that are hallmarks of the American soldier.

To all members of the Army Family I send my best wishes for a Blessed Christmas and a rewarding New Year.

Stanley R. Resor
Stanley R. Resor
 Secretary of the Army

NINTH NAVAL DISTRICT, covering 13 Midwestern and Rocky Mountain States, has won Navy League's E. V. Richards Memorial Trophy for excellence in training and administering Naval Reserve Program, primary mission of Navy Districts. Navy League National President, Morgan L. Fitch, presented trophy to RAdm. Howard A. Yeager, Ninth Naval District Commandant. (AFNB)



TOP EXECUTIVES—Sherman Clay (left) and Thomas Summers were the final winners of the annual Army Missile Support Command executive awards. Col. J. N. Jean, Director of the Arsenal Support Operations Directorate made the presentations last week. Clay, chief of the Maintenance Support Division, received the Senior Executive Award, and Summers was the winner of the Junior award. He is an industrial engineering technician for the Post Engineer.

January 13, 1965 — A new record for long distance satellite communications was established by the U. S. Army Satellite Communications (SATCOM) Agency, a project management activity of the Army Materiel Command, in a telephone test between Fort Monmouth, New Jersey and Asmara, Ethiopia, which employed two SYNCOM satellites in the same circuit. Spanning three continents and two oceans for a surface distance of more than 17,000 miles, the experimental call was relayed from an Army ground station in Asmara via SYNCOM II, over the Indian Ocean, to Saigon, where two stations were co-located. One received the call from SYNCOM II and the other passed it via SYNCOM III over the Pacific to the SATCOM station at Camp Roberts, California. From there the circuit continued by land line to Fort Monmouth, New Jersey.

The Redstone Rocket — December 21, 1966 Page 15

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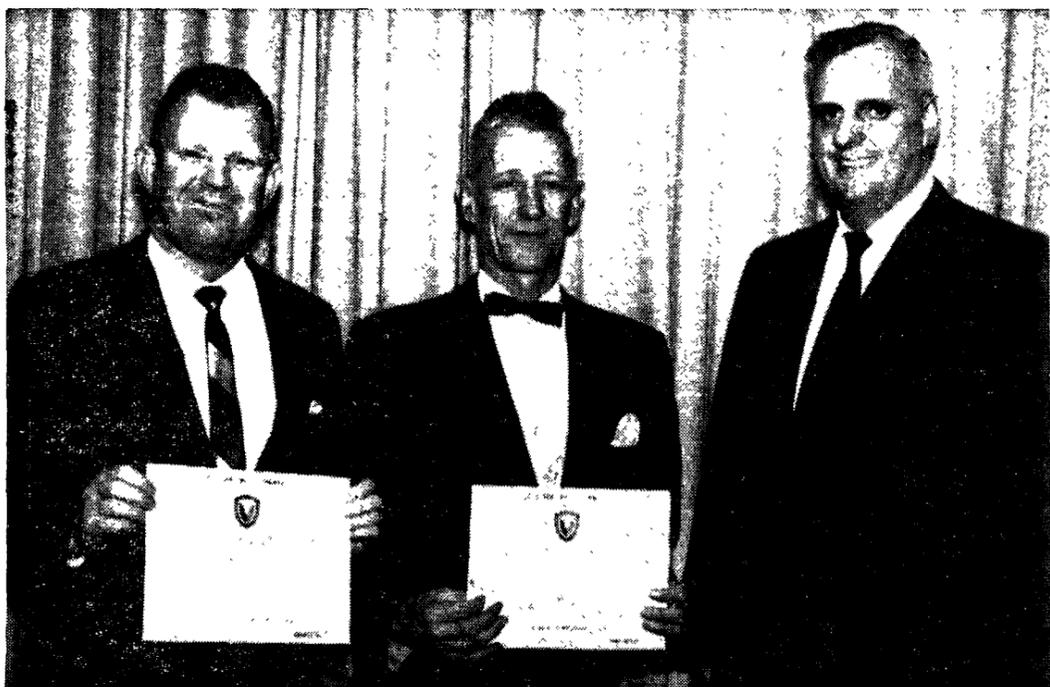
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Give An Eligible Friend a Membership Card for Christmas

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EXCELLENCE—Vernon Oden, left, and James Renfroe, center, have been named "Buyers of the Month" in the Army Missile Command Procurement and Production Directorate, for October and November, respectively. J. A. Muller, P&P Assistant Director, Procurement Operations, presented the certificates of excellence.

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Theater Schedules

Theater No. 1
WED.-THUR., Dec. 21-22
"The Poppy is also a Flower" (M-YP)
FRI., Dec. 23
"John F. Kennedy: Years of Lightning, Day of Drums" (F)
SAT., Dec. 24
"The Little Nuns" (M-YP)
SUN.-MON., Dec. 25-26
"Gambit" (F)
INCREASED ADMISSION: adults 50c, children 25c
TUE., Dec. 27
"Every Day is a Holiday" (F)
One show only at 7 p.m. Dec. 23-31

Theater No. 2
WED., Dec. 21
"The Little Nuns" (M-YP)
FRI., Dec. 22
"Gambit" (F)
INCREASED ADMISSION: adults 50c, children 25c
SAT., Dec. 24
"Smoky" (F)
SUN., Dec. 25
"The Venetian Affair" (M-YP)
TUE., Dec. 27
"Where the Bullets Fly" (M)
One show at 7 p.m.

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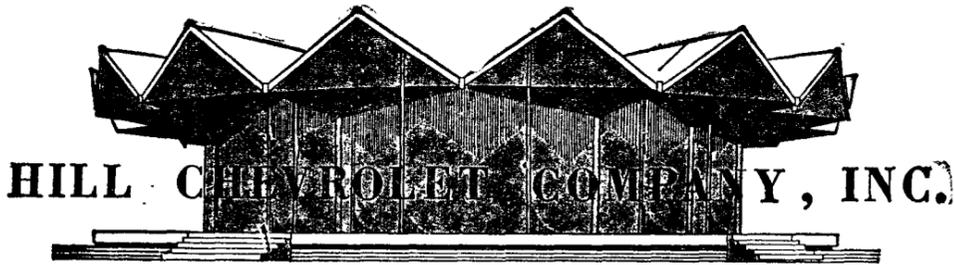
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