

American Scientist Made Many Finds In Rocket Studies

Dr. Paul H. Goddard
Laid Down Rocket
Principles

The Army has made great strides in its guided missiles program. However, it is indebted to the late Dr. Paul H. Goddard for much of the ground-work.

Rocketry did not develop simply and gradually. Rather, its principles and theories have been worked on by one group of people, dropped, taken up by another, and sometimes forgotten or disregarded for generations.

Dr. Goddard laid down principles of rocketry, including the methods of stabilization that are being used today in the Army's "rockets with brains."

Some of his other "firsts" were:
1. Development of the mathematical theory of rocket propulsion and rocket flight on which all military and experimental calculations now are based.

2. He first proved—both mathematically and by actual test—that a rocket works in a vacuum and needs no air or other substance to push against to obtain its impetus.

3. Development of a rocket motor using liquid fuels. He successfully used it in 1926, ante-dating its use in the German V-2 by nearly 18 years.

4. He was first to fire a rocket that attained a speed faster than the speed of sound.

5. He patented plans for "step" rockets—the firing of a rocket from another rocket already in flight.

6. He developed a gyroscopic steering apparatus for rockets ten years before the Germans developed similar gear.

7. He was first to use vanes in the blast of the rocket motor for steering rockets.

Borrowing from his achievements, the Germans during World War II unleashed the first long-range, rocket-propelled missile—operating at supersonic speed—ever to be used against an enemy. They ably demonstrated that their V-2 rocket could be employed successfully without air superiority, that weather had little or no effect on its performance, and that most counter-measures were ineffective against it.

When the first V-2 hurtled out of the atmosphere to strike London September 8, 1944, it did not come as a complete surprise. Allied technical intelligence managed to gain information about the V-2 more than a year before it was unleashed by the enemy.

The first report, in the autumn of 1943, came from Zurich, Switzerland. It said the Germans had fired rockets that were 45 feet long and weighed 12 tons a distance of 35 to 40 miles. In January, 1944, reports came from Stockholm that a missile similar to this description rose to a height of 35 miles, traveled 65 miles before crashing, and caused a clearing 600 yards in diameter in a forest.

When these missiles would be used by the Germans was a question foremost in the minds of the Allied commanders. This question was answered when the first V-2 struck London in the fall of 1944.

During the remainder of the war, approximately 2,676 V-2 missiles were launched by the Germans. Approximately 1,152 V-2's were thrown against England—517 of them at London.

After the capture of Antwerp by the Allies, the Germans hurled 1,341 V-2's against this port—65 per cent landing within a six mile radius of the center of the target.

On May 8, 1945, the war in Europe ended. The launching sites had been over-run and Vengeance Weapon Two had been muzzled—but not for long. Ten months later, the New Mexico desert reverberated to the thunderous roar of another V-2.

His Failing
Hubby—Ah, let me back just one more horse, dear, and I promise it will be the last.
Wife—It always is.

COTTON QUIZ

WHY IS COTTON SO IMPORTANT IN A BASEBALL GAME?

ANS—STURDY COTTON THREAD HOLDS THE HORSEHIDE COVER ON BASEBALLS.



Better Eating ALL YEAR 'ROUND

FANCY NEW Sweet Potatoes
2 lbs. 29c

BABY TENDER OKRA
Lb. 29c

SAVE ON THESE
Large Package FAB 29c

Quart Texsize Bottle Bleach 10c

3 Lbs. Shortening Can Crisco 89c

8-oz. Pride of Albemarle HERRING Can ROE 15c

Quart W-Pack Kosher DILL Jar Pickles 31c

FANCY ELBERTA CANNING PEACHES
Bushel \$2.49
LIMITED QUANTITY

SEE OUR DISPLAY
24-oz. Welch's
GRAPE JUICE
bottle 35c
Win a Plastic Water Toy. Enter the Welch Grape Juice Contest Today!

6-oz. Swift's Premium BOILED Pkg. HAM 59c

U. S. Commercial T-BONE, SIRLOIN Lb. Steaks 69c

U. S. Choice Western CUBE Lb. Steaks 69c

Harrell's Grade 'A' SLICED BACON Lb. 69c

DRESSED AND DRAWN
FRYERS
per lb. 49c
CUT UP, lb. 57c

PET MILK
4 Tall 55c
4 Small 28c

Grade "A" Western BEEF LIVER, lb. 39c
1-lb. Cello Harrell's FRANKS, lb. 49c

IT'S COOL!
AIR-CONDITIONED!

P & Q Super Market's

RECIPE OF THE WEEK
By Mary Lee Taylor
Rice Meat Balls

1 lb. ground lean beef
1/2 cup raw rice (see note)
1/2 cup Per Evaporated Milk
2 Tablespoons finely cut onion
1 1/2 teaspoons salt
few grains pepper
1 can tomato soup
1 1/2 cups water

Mix well in a bowl the beef, rice, milk, onion, 1 teasp. salt and the pepper. With wet hands shape meat mixture into 8 balls. Put balls into a skillet about 1/2 inch apart. Mix soup, water and 1/2 teasp. salt until smooth. Save 3/4 cup of the soup mixture. Pour rest of mixture over the meat balls. Bring to a boil, then cover tightly and cook over low heat 45 minutes. Turn meat balls in sauce twice while cooking. Remove meat balls to warm platter. Stir rest of soup mixture into sauce left in skillet. Stir until steaming hot. Serve sauce with the meat balls. Makes 4 servings.

NOTE: For best results, use regular or converted rice, but not the quick-cooking kind.

SAVE with P & Q

Jones PURE PORK SAUSAGE..

CELLO FRANKS..

HOT SAUSAGE..

1-lb. Phillips PORK and BEANS 10c can

12 oz. Wonder Long Grain RICE 18c pkg.

5-lb. Plain Gold Medal FLOUR 45c bag

Small Biscuit Mix BISQUICK 25c pkg.

Tall Armour's MILK 2 cans 25c

12 oz. Luncheon Meat PREM 49c can

Mrs. Filbert's
1 lb. Oleo 30c
16 oz. S. Dressing 32c
16 oz. Mayonnaise 37c
16 oz. S. Spread 32c
16 oz. R. Spread 37c
Top Quality AT ECONOMY PRICES!

HOME OWNED HOME OPERATED
P&Q SUPER MARKET
"EVERY DAY LOW PRICES"
PHONE 511 EDENTON, N. C. FREE DELIVERY EVERY FRIDAY

A Natural Combination — FRESH
CORN-ON-COB 6 ears 23c
Local Fresh Green BUTTER BEANS 3 lbs. 39c