

## Hydrazine May Be Leading Power for Space Ship Use

New York — (U.P.) — Would-be space navigators soon will be able to fuel up with a chemical compound — hydrazine — which some scientists think may be a leading candidate to power space ships.

This nitrogen compound, which was a laboratory curiosity until it was propelled out of obscurity late in World War II by German rockets, now has gone into production in this country for the first time on a scale large enough to meet all military and chemical industry needs, plus a surplus for exploring new uses.

John M. Olin, president of Matheson Chemical Corp., a new company formed jointly by Matheson Chemical Corp. and Olin Industries, Inc., to manufacture and do research on this chemical, said:

"We regard hydrazine as one of the most exciting of the new commercial chemicals. It promises to be the starting point for an entirely new family of chemicals called hydrazines."

**Versatile Chemical**  
Some experts believe that a mixture of hydrazine and nitric acid is the most likely fuel for an interplanetary rocket.

Hydrazine is one of the most versatile materials to spring from test tubes. It is a compound of great energy—a six-atom molecule of two nitrogen atoms and four highly reactive hydrogen atoms. The latter are quick to join with oxygen and other elements to make a large number of different chemical combinations.

It was discovered some 60 years ago by a German chemist, Emil Fischer. Thirty-two years later another German chemist, Friedrich Raschig, developed a way of producing the substance by oxidizing ammonia with sodium hypochlorite, the principal ingredient of ordinary laundry bleach. The big drawback was

**Resentment Carved In Man's Tombstone**

Wellington, O. — (U.P.) — Otis G. Pratt was bitter over treatment he had received as an artist and sculptor, so he had his resentment carved on his tombstone.

The stone, standing over the grave of Pratt and his mother in Greenwood Cemetery here, attracts many tourists. Pratt died in 1921 at the age of 76. The inscription reads:

"Stranger, I lived in an age when corruption was in our government and the ballot box was begged for. When martyred presidents and riots echoed over our land. When law and respect clung to the rich and shunned the poor. When money and fashion had the brains and talent went over the water for want of free schools of art supported by our government. Such were the conditions which caused my landscape to decay with me as nature shows it. Farewell."

Pratt himself spent a good deal of time in Europe studying art. When he came back he earned a tiny income by sketching portraits of townspeople and selling them for a pittance.

He painted murals on the inside of his house but just before he died he destroyed them all.

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# MEDFORD TRIBUNE

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Second Section



**BATTLEGROUND**—Philadelphia Eagles center Ken Farragut (light jersey, center) and San Francisco 49er end Clay Matthews (right) exchange blows during free-for-all fight midway in fourth period of game in San Francisco. On the left, unidentified Eagle player rushes in to assist Farragut with "helmet drawn," while other gridders battle it out in the background. There was no immediate explanation for the melee, in which 200 players, policemen and fans participated. The 49ers won, 31-21.

## Late Summer Declared Best Time for Planting New Lawn

Waterbury, Conn. — (U.P.) — Now is the best time for making a new lawn, according to Charles Baskin, president of the Connecticut Golf Superintendents' Association.

Late summer is the ideal time because it is after the growing season for most weeds and the grass can become well rooted and healthy by the following summer when hot, dry spells take their toll of thin and weak sod, he explained.

The seeding should be timed to permit the grass to get rooted before the killing frosts. Hence, mid-September is the best time in the North, the deadline being delayed as one moves South.

**What to Do**  
Here are 10 steps recommended by Baskin, who is a consultant of the Scovill Manufacturing Co.:

1. Turn over the ground to a depth of eight to ten inches. This is the depth of the normal spade.

2. Pulverize the soil well and, if necessary, add new loam.

3. Smooth the surface with a wooden rake, and roll it.

4. Enrich the ground with a standard fertilizer, raking it in to a depth of about two inches.

5. Soak the ground to a depth of six to eight inches. For this purpose he recommends an automatic sprinkler, as the automatic device scientifically put the water down in an even force and pattern.

**Cut Grass**  
6. After a day, or whenever the moisture leaves the surface, re-rake to smooth out any bumps; then roll and seed.

7. Set the seed in the ground by a very light raking and then rolling.

8. Keep the ground moist until the grass comes up. This watering should be done once or twice daily, if there is no rain. Here the control provided by an automatic sprinkler is especially important to assure an even force and amount of water. Use of a hand nozzle leads to either over or under watering, the Scovill consultant points out, as the individual too often becomes bored with the operation.

9. Continue daily watering for at least two weeks after the grass comes up.

10. When it is about 1½ inches high, the grass should be cut and maintained thereafter at a height of approximately one inch. Trimming at this stage helps to strengthen the roots. After cutting, remove all grass clippings and leaves, as they will smother the new grass.

**DUSTER DANGER**  
Jackson, Miss. — (U.P.) — A crop-dusting pilot, Wayne Brown, of Stephenville, Tex., was released from a hospital here a week after his article, "I Fly With Death," appeared in a national magazine. Brown was treated for a broken leg. He also lost several teeth in the crash of his plane in a 40-acre Mississippi Delta cotton field.

**MACHINE AGE PROGRESS**  
Rochester, N. Y. — (U.P.) — Chopped cabbage, formerly packed by hand, can now be turned out at the rate of 120 cans a minute with a new machine developed by the Pfaunder Co. here. A machine generally used for cream soups and semi-liquids has been converted to handle chopped cabbage.

## Two Labor Unions Sign With Armour Co.

Chicago — (U.P.) — Two big labor unions have reached an agreement with Armour & Co., setting a pattern for wage dispute settlements with other Big Four companies of the packinghouse industry.

The agreement was reached in night long discussion between Armour officials and representatives of the AFL Amalgamated Meat Cutters and the CIO United Packinghouse Workers of America.

The discussions primarily were with negotiators for the AFL union but officer of the CIO group sat in on the meetings.

## Stevenson Praises Selection of Warren

Washington — (U.P.) — Adlai E. Stevenson today praised President Eisenhower's selection of Republican Gov. Earl Warren of California to be Chief Justice of the United States.

The 1952 Democratic presidential nominee said he had the "utmost respect and personal regard" for Warren and termed his choice "an excellent appointment."

Stevenson came here to report to President Eisenhower tomorrow on his recent world tour.

## France To Get Money For Indo-China Fight

Washington — (U.P.) — The United States and France have announced the administration has agreed to give France another \$385,000,000 to help "break and destroy" Communist forces in Indo-China.

The joint announcement said the money would be provided some time before the end of 1954.

The commission said that the French government is determined "to make every effort to break and destroy the regular enemy forces in Indo-China" and intends to do everything possible to increase military forces

of the three associated states, Cambodia, Laos and Viet Nam.

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