

Science Talks Midget Motor

NEW YORK (AP)—A new Tom Thumb rocket motor looks good for vital tasks in exploring space, a physicist said today.

This midget motor is no bigger than a man's thumb.

It works by shooting out electrified atoms and electrons at speeds of 22,000 miles an hour. This produces thrust, just as does the exhaust of chemical fuels to thrust up rockets.

The tiny engine is not strong enough to propel a rocket or satellite as its main engine.

But it could produce sidewise, forward or backward thrust to control the position and direction of a satellite in space, said Dr. W. H. Bostick of Stevens Institute of Technology, Hoboken, N. J.

Such controls can be important in keeping a weather-watcher or communications satellite in a precise orbit around the earth, or making it drop down lower, or fly up higher, to intercept a space ship, or refueling, or rescue missions. Or to keep a photographic eye pointing at the moon or distant stars for pictures.

Bostick and associates developed a laboratory model of the midget motor just last month. He described it today at opening sessions of the annual meeting of the Institute of Aeronautical Sciences.

The midget is a plasma rocket motor, he explained.

Electrical energy vaporizes the tip of a wire in the motor. Off come positively charged atoms (ions) and electrons, which fly out of the engine, producing thrust.

This engine can develop 41 per cent efficiency for the electrical energy consumed, Bostick said. The energy is created in pulses. More wire can be thrust up as the tip is consumed.

In some respects, the plasma motor is simpler and lighter in weight than ion rocket engines, which produce thrust only from positively charged ions, the physicist said.



97 TRAILER PARK, one mile south of the Klamath Falls city limits on Highway 97 South, has been purchased by Mr. and Mrs. D. A. Pitts who recently moved here from Bend. They are former operators of a motel and trailer park at Myrtle Creek and have numerous property interests. The aerial photo was taken by Carl Frei for the sellers, Mr. and Mrs. J. V. Kindig and shows the seven-acre project with 45 modern trailer units. The Pitts plan the addition of about 20 units. The trailer park, first modern trailer facilities in this area, was started in 1949 and finished in 1950 by the sellers.



JUDY JOHNSON

KUHS Senior Wins Contest

Klamath Union High School winner in the 1960 Betty Crocker Homemakers of Tomorrow contest is 17-year-old Judith Anne Johnson, daughter of Mr. and Mrs. Charles Johnson, 1005 Newcastle. She is a senior and member of Mrs. Clara Fink's homemaking classes at the high school.

The other Klamath County winner is Marilyn Mack of Henley High School.

Each received the highest score in a 50-minute written examination on homemaking knowledge and attitudes taken by graduating seniors in her school. Their papers will be entered in competition with other high school winners to name the state Betty Crocker Homemaker of Tomorrow.

The test is prepared and judged by Science Research Associates of Chicago.

Total enrollment in the six-year history of the \$110,000 General Mills-sponsored scholarship program has neared the two million mark. This year, a record number of 379,018 girls enrolled from 12,597 high schools throughout the 50 states and the District of Columbia. This is an increase of nearly 30,000 girls and 337 schools over last year.

Each state Homemaker of Tomorrow will receive a \$1,500 scholarship and an educational trip on April 23-29 with her school adviser to Washington, D.C., where the national winner will be announced. The runner-up in each state will receive a \$500 scholarship. The school of each state Homemaker of Tomorrow will be given a set of the Encyclopaedia Britannica.

ROCK AROUND CLOCK—LEAMINGTON SPA, England (UPI)—Seven teen-agers finished rocking around the clock today to set a new British five marathon record.

"At times it was very boring," said 19-year-old Derrick Marriott when the rock-a-thon was over.

"But it is a wonderful feeling to know that we have danced 24 hours."

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Hubby Burned Getting Deed

POTTSTOWN, Pa. (AP)—Mr. and Mrs. Arthur Kybruz and their children got out of their home fast Sunday when a fire started.

But Kybruz suddenly dashed back. He didn't reappear. Three passersby went into the Chester Springs home and found the 29-year-old father overcome by smoke and badly burned.

Kybruz, in critical condition at Phoenixville Hospital, had gone back for the property deed to his home. He didn't know his wife had grabbed it when the family fled.

Dinner Honors Six Operators

Six Richfield service station operators of the Klamath Falls area will be honored Monday night at a dealer club dinner at Kim's in Medford, according to T. J. O'Hara, Richfield's agent here.

Carl Frei has been a Richfield operator at Highway 97 and 66 for 23 years. Others honored include C. W. Howry with 15 years service; Rudy Ebert and Lane Smith, each 10 years, and Allen Klus and Ira L. Davis, each with five years of service.

Film Scoundrel Dies Of Cancer

HOLLYWOOD (AP)—John Miljan, 67, portrayer of the smooth scoundrel in countless movies, died of cancer Sunday night in Cedars of Lebanon Hospital.

Miljan's appearance—tall and handsome with a trim mustache—served him equally well as an early day matinee idol and later as a screen villain.

A native of Lead, S.D., Miljan came to Hollywood as a young man in 1922. In the 1930s he played romantic leads opposite Norma Shearer and Joan Crawford. In later years, he was consistently cast as a villain.

His last screen appearance was in "The Ten Commandments." Survivors include his widow, Victoire, and three grown sons.

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Increase In Gasoline Tax Will Not Come Until '63

SALEM (AP)—Oregon will not have to increase its 6-cent a gallon gasoline tax until at least 1963, State Highway Engineer W. C. Williams said Friday.

He told this to the Legislative Interim Highway Committee, which met with the Highway Commission and Williams to discuss highway policies.

The Highway Commission failed in its effort to get the 1959 Legislature to boost the tax one cent a gallon.

Williams said Friday because the federal government slowed down its interstate highway construction program the extra cent tax wouldn't have been needed.

Oregon's share of the interstate highway program now is 27 million dollars behind schedule because of the federal slowdown, he said. For this reason, state match-

ing revenue will be sufficient to last through 1962, he added.

This was welcome news to the legislators, who now won't have to consider a raise in the tax at the 1961 session.

Williams said the interstate highway program, including Oregon's part, will not be completed until 1974, instead of 1970, the original target date.

But he said Oregon's two interstate routes—the Pacific and Columbia River-Old Oregon Trail Highways—will be modernized within seven or eight years from now. This means, he said, that these routes will be either four-lane or with wide two-lane construction by that time. Work will be done later to increase the remaining two-lane sections to four lanes.

Williams doubted if there is a chance to remove the tolls which were imposed 12 days ago on the Interstate Bridge between Portland and Vancouver. He said Congress probably would not provide the 14 million dollars to pay off the bridge bonds, because there are hundreds of similar cases throughout the country.

As to construction costs of interstate routes, Williams said Oregon pays the same as the national average—\$600,000 per mile in rural areas, and from 3 to 10 million a mile in cities. Right of way costs about 25 per cent of the total construction cost.

Williams said the national road tests now being conducted in Illinois will tell whether Oregon is correct in making trucks pay one-third of highway costs. These results, which will be available in about a year, also will give valuable information about designing roads.

He explained that concrete costs 8 to 9 per cent more than asphalt, but that maintenance of concrete costs far less. Oregon has not used much concrete so far but Williams said it is better where there is heavy traffic and doubtful foundation.

Milo K. Melver, commission chairman, said he thinks the com-

mission is spending the right amount of money for development of state parks, and that Oregon is in line with other states.

He said this in reply to a question by State Rep. Beulah Hand (D-Milwaukie), who said parks are too crowded in the summer.

Melver said that "some people, like motel owners, think we spend too much on parks, and some think we spend too little."

He said he doesn't favor a proposal to create a parks agency independent of the Highway Commission. "The people get more money for their dollar under the present system," he added.

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Foresters Hear Statement On Forest Service Policy

"It is the U.S. Forest Service's policy to be as fair to industry and purchasers as possible," it was stated by the guest speaker at Friday evening's meeting of the Shasta - Cascade Chapter, American Society of Foresters at Lakeview.

The speaker was Walter Lund of Portland, assistant regional forester, U.S. Forest Service, in charge of timber management for the Pacific Northwest. He was introduced by Clayton Weaver, supervisor of the Fremont National Forest and a member of the chapter.

"It is our policy to let industry know our plans, because we are dependent upon industry just as it is dependent upon us," Lund continued. "It is our policy to do our utmost to make progress in the management of the forests—to improve our management techniques, our harvesting techniques, and our utilization techniques."

Lund emphasized that the policy includes determining as accurately as possible the maximum cut of marketable products which can be harvested and still have a continuous yield and an even flow of timber to maintain an economic balance.

He stated that the policy has remained uniform since the basic creative act which established national forests nearly 60 years ago. This act, he explained, had the two-fold purpose of protecting the nation's watersheds and maintaining a continuous supply of timber through good forest management.

"It has been stated that we have no policies," Lund asserted. "Possibly, we have not promulgat-

ed rules as have other agencies. We feel that to publish policies would restrain free action."

In speaking of planting and stand betterment on lands that are cut, Lund came to the defense of the law which establishes a reserve for this purpose.

"If we didn't collect the money," he said, "we would have to allow for a price for the purchaser to do this himself." He was referring to the clause in timber sale contracts which sets aside an amount to be withheld from the total net amount of forest service timber sales revenue on which the counties' 25 per cent return is based. This was established by the Knutsen - Vandenberg Act passed by Congress.

"It is necessary for the forest service to demonstrate (to the public) on lands that are cut that we get the lands back to where they are attractive and that we will not destroy them for multiple use purposes," Lund said in conclusion.

PREDICT TESTS DATE
PARIS (UPI)—France's first atomic bomb test will take place in the Sahara around Feb. 15, diplomatic sources predicted Sunday. They added, however, that the final decision on the date would depend on weather conditions.

STOPPED SECOND TIME
NEW YORK (UPI)—A 35-year-old parolee held up a liquor store Saturday night, then returned to the scene of his crime a few hours later to hold up the store again, police said.

They said James Johnson, wielding a water pistol, got \$100 the first time and \$83 the second time. The second time he also got caught.

The founder of Mormonism, Joseph Smith, was born in Sharon, Vt., in 1805.

Family Saved By Telephone

OKLAHOMA CITY, Okla. (AP)—A telephone call was credited with saving a family of six from serious illness and possible death Sunday.

William E. Johnson, 29, awoke feeling ill. He discovered his wife and their four children also had been stricken. Mrs. Johnson, 29, was unconscious.

Johnson staggered to a telephone to call his wife's mother, Mrs. O. E. Godwin. She and her brother-in-law J. B. Godwin, hurried to the Johnson home and managed to get them outside and call firemen and ambulances.

District Fire Chief Ben Dancy said the family became ill on gas fumes due to improper combustion of the fuel in a floor furnace.

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