

Nuclear Power Necessary To Boost Space Exploration Flights

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EDITOR'S NOTE: It has been charged that the United States is moving too slowly toward development of a nuclear rocket — that it may lose the race to the planets in its pre-occupation with reaching the moon. The following dispatch by a UPI space expert explains the situation.

**By JOSEPH L. MYLER
United Press International**

WASHINGTON (UPI) — Space experts agree that only the atom's fantastic energy can put men on Mars or fly them around the more distant planets of the solar system.

But after eight years of research and development, and an expenditure of \$400 million, a reliable nuclear rocket is not yet a certainty.

A few years ago optimists were predicting that a nuclear rocket would be tested in flight as early as 1965. A far more realistic guess now is 1968.

If that first flight turns out to be an unqualified success, it still will take at least two years more of intensive testing before anyone can say the rocket is dependable enough and safe enough to transport human beings on missions deep in hostile space.

At the present rate of progress, by the time nuclear rockets are proven and available the first men should long since have landed on the moon.

By that time, however, the United States may have decided to explore Mars. Boosters of atomic energy profess certainty that it will be broken to space

harness and ready for the mission.

Under Review

At the moment, the nuclear rocket development schedule is being reviewed while experts study what happened in the most recent firing of a flightless prototype engine at the atomic proving ground in Nevada.

Six experimental rocket reactors have been ground-tested so far, and project managers expect to "consume" 30 to 40 more before a flight test is attempted. When the seventh firing will take place, however, has not been decided.

There are those who believe atom-powered rocket stages might have been available — if only more money and effort had been committed — for the Apollo program to land men on the moon before 1970.

But when the space race began, the only rockets available either to Russia or the United States were chemically fueled. So both countries based their programs so far on the chemical rocket technology, which was a legacy of World War II.

Cannot Wait

When the United States decided to make a lunar landing the main

space business of the 1960s, officials concluded they could meet the schedule only with chemical rockets. They couldn't wait, they figured, until a brand new atomic rocket technology was perfected.

Why should they have to wait? Atomic energy obviously is far greater, pound for pound, than that extractable from the best chemical fuels.

One pound of fissionable uranium, for example, contains 10 million times the energy in a pound of gasoline. And the concept of a nuclear reactor is fairly simple. You merely heat a propellant, hydrogen, in a reactor core and expel it through a nozzle.

But the atom is by nature intractable, and dangerous.

It would take a 10-million-pound all-chemical rocket system to send an exploring party to Mars. Substitution of a nuclear stage would cut the weight to one million pounds.

Such a saving in just one Mars mission, the experts say, would more than repay all the cost of developing and producing the nuclear rocket.

Problems Formidable

So why not barge ahead with the atom? No, say two experts, because of two loggers.

Logger Killed

MILL CITY, Ore. (UPI)—Kenneth Lawrence Brand, 25, Mill City, was killed Thursday in a logging accident in the Little North Fork region north of here, State police said.

Limited Take Winter Trout Season Proposed

DUNSMUIR — A limited take trout season in the Sacramento River Canyon north of Shasta Lake during the winter months is advocated by the Dunsmuir Chamber of Commerce.

Upon endorsing this winter fishing season, the chamber asked Ted Fay, chamber fish and game chairman, to draw up a resolution to present to the Inter-County Chamber of Commerce of the Northern California meeting on Feb. 19. The resolution asks that a three-trout limit per day be allowed from Nov. 1 until the regular spring opening of fishing season.

The Dunsmuir chamber believes limited winter fishing will not be a deterrent to fish life in the upper Sacramento River and will enhance the year-around recreation in the area.

The chamber also endorsed election of members of the state fish and game commission by district and the right of boards of supervisors to modify by a

two-thirds vote the rulings of the fish and game commission which affect their particular counties. This resolution is presently before the ICCCNC and slated for vote at the next meeting.

Opposition to the proposed legislation known as the highway users tax was voted by the Dunsmuir chamber on grounds that increased gas tax revenues realized through California's population influx should be adequate. The chamber also voted to oppose elimination of billboards and advertising signs adjacent to highways as presently proposed in the state senate.

Leslie Lenton, chamber president, reported a tremendous demand for Dunsmuir's "fish maps" and "best water on Earth" decals at the San Francisco Boat Show. He also reported a sign on current snow depth at Mt. Shasta, the only major ski development in California with adequate skiable snow, attracted boards of winter sports enthusiasts.

Community Calendar

- MONDAY
MONDAY
GREAT BOOKS DISCUSSION CLUB, 7:30 p.m., city library. St. Thomas Aquinas Treatise on Law.
- ORDER OF RAINBOW GIRLS, 7:30 p.m., meeting, initiation, Scottish Rite Temple. Wear formal.
- DEGREE OF HONOR, 7:30 p.m., business meeting and Valentine party, K.C. Hall.
- KLAMATH SPORTSMEN'S ASSOCIATION, regular meeting, 7:30 p.m., Shasta Grange Hall. 7:30 p.m. Movies.
- EWAUNA TOASTMASTERS, 7:30 p.m., meeting, Winema Hotel. Visitors welcome.
- DEGREE OF HONOR, 7:30 p.m., installation, K.C. Hall. Wear formal.
- OREGON LICENSED PRACTICAL NURSES, Area 8, 7:30 p.m., Community Lounge.
- CHILOQUIN PTA, 7:30 p.m., Founders Day program, Chilouquin Grade School. Film and speaker.
- HENLEY ROOSTER CLUB, 8 p.m., meeting, Henley Cafeteria.
- TUESDAY
GIRL SCOUTS, 7:15 to 8:15 p.m., splash party, KUHSS pool.
- JOLLY NEIGHBORS, 8 p.m., Valentine recipe exchange, Belle Franklin, 5630 Harlan.
- OTI FACULTY WIVES AND WOMEN'S CLUB, 7:30 p.m., student lounge.
- CITY FACULTY CLUB, 8 p.m., Exchange student to speak, home of Mrs. Ray Hunsaker.
- ALOHA CHAPTER, OES, 8 p.m., stated meeting, Masonic Temple.
- WOTM, Chapter 467, 7:30 p.m., friendship meeting, Moose Home.
- SOCIAL CLUB, Veterans of WW I Auxiliary, 1 p.m., Gladys Ferrell, 2424 Radelite. Bring sewing materials.
- WEDNESDAY
EAGLES AUXILIARY SOCIAL CLUB, 12 noon, luncheon, Eagles Hall.
- SOJOURNERS, 12:30 p.m., luncheon meeting, Willard Hotel. Cards following. Newcomers welcome.
- MILLS SCHOOL PTA, 2:15 p.m., Founders Day, Mills auditorium. Speaker, Louis Corrigan on hospital plans.
- KLAMATH COUNTY HISTORICAL SOCIETY, 8 p.m., lecture in room, County Library. W. B. Sweetland, speaker.
- KENO HOME EXT. UNIT, 10:30 a.m., potluck, Credit Buying No. 2, Bath Heulever, 3710 Madison.
- CAR, 7 p.m., meeting, guest night, Rebekah Pierson, 237 Hillside. Interested persons invited.

Lakeview Bridge Players Top List

Three Lakeview duplicate bridge players figured prominently among those placing in tournaments at the Lakeshore and Klamath Bridge clubs this past week, headed by Mrs. Layne Binnion who placed second with her husband at the Klamath Bridge Club Saturday night and repeated as runnerup with Ethel Davis in the north-south section of the early bird tournament at the Lakeshore BC last Tuesday.

Mrs. N. E. Retterath and Mrs. L. S. Barry, also of Lakeview, placed third in the east-west section of the same tournament.

Leona Robertson and Dick Briggs posted the highest percentage of the week with a 70.2 score at the Lakeshore Club Thursday evening.

Complete results last week:

Lakeshore (early bird), NS, 1, Lena Smith-Mary Ramp; 2, Ethel Davis-Layne Binnions (Lakeview); 3, Mrs. H. O. Juckland-Mrs. V. C. Rexford.

EW, 1, Mrs. H. H. Schaeffer; Mrs. W. D. Harlan; 2, Jane Englehard-Phyllis Goakey; 3, Mrs. N. E. Retterath-Mrs. L. S. Barry (both Lakeview).

Lakeshore BC (Thursday) — NS, 1, Leona Robertson - Dick Briggs; 2, Dorothy Rogers-Mrs. William Grove; 3, Father Hal Fumo-Dr. Gerald Nicholson.

EW, 1, Ruth Jones - Mrs. Stanley Miller; 2, Mr. and Mrs. Robert Gotshall; 3, Anne Briggs-Katie Lake.

Klamath BC, 1, Emily Yuen-Anne Briggs; 2, Mr. and Mrs. F. M. Binnion (Lakeview); 3, Pearl Drew-Mary Drew; 4, Father Hal Fumo-Dr. Gerald Nicholson.

WINNING SCORES LAST WEEK (per cent)

Leona Robertson-Dick Briggs (Lakeshore BC), 70.8; Mrs. H. H. Schaeffer - Mrs. W. D. Harlan (Lakeshore BC), 65.2; Emily Yuen-Anne Briggs (Klamath BC), 64.0; Ruth Jones-Mrs. Stanley Miller (Lakeshore BC), 59.6; Lena Smith-Mary Ramp (Lakeshore BC), 58.3.

BEST SCORE THIS YEAR
Dorothy Rogers - Anne Briggs (Klamath BC, Jan. 26) 72.4.

Eight Children Die In Blaze Rock Halts Fleeing Boy

TORONTO, Ont. (UPI)—Eight children died Saturday in a fire that destroyed their two-story attached home in the city's West End.

The victims, children of Roy French, 36, and his wife, Effie, 33, were identified as Ann, 17, Albert, 16, Eileen, 14, Alison, 12, John, 10, Linda, 8, Sharon, 6, and Bill, 4.

Their parents were taken to a hospital suffering shock. French was unable to rescue any of his children when the fire started about 1 a.m. EST. The mother returned home from work to find her home destroyed and children dead.

About 100 firemen battled the fire in 10-below degree weather and brought it under control by 4 a.m.

Medicare Plea

SALEM (UPI)—Oregon legislators will be asked to decide whether they think Congress should enact a medical care for the aged program through the Social Security plan.

A memorial urging Congress to enact the program was introduced in the Oregon House by Rep. Richard Kennedy, D-Eugene.

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