



BLACKTOPPING MATERIAL, donated by the Clemens Construction Company of Klamath Falls and Tulelake, has been used to surface the sidewalk around the Klamath Falls Gospel Mission. The material was hauled to the Mission in a truck donated by the Bly Logging Company. Men in the picture not identified stopped by to offer assistance. On the ground, left to right, are Jack Wright, with the roller, assistant superintendent at the mission, John Pederson, superintendent; Clarence Stengle, staff member at the mission, unidentified man, and Mac Bryan, truck driver for Morrison Knudsen Construction Company.

Solar Power May Be Used For Sending Ship To Mars

By DARRELL GARWOOD
United Press International

PITTSBURGH (UPI)—Dr. T. C. Tsu believes that the simple procedure of unfurling a sail heats the air in the space-propulsion systems for reaching the planets Mars and Venus.

Tsu, of the Westinghouse Research Laboratories, has made detailed studies of the force which the sun's radiation could apply against a parachute-like sail, and has reached these conclusions.

A space ship weighing 1,000 pounds and bound for Mars would need a sail 1,600 feet in diameter, big enough to provide a tent for the Pentagon. But the sail would be very thin, would weigh only 800 pounds and would be unfurled after the ship had been rocketed into orbit.

Solar radiation would provide a force of only half-a-pound or about half a horsepower, but this would continue indefinitely and would propel the ship to Mars in 118 days. By comparison, Dr. Werner von Braun allows 260 days for reaching Mars in a rocket ship.

Although the planet Venus is closer to the sun than is the earth, Tsu believes it could be reached with almost equal ease by a system that amounts to "lacking"—changing the position of the sail so as to move either towards or away from the sun.

The same kind of "lacking," he said, could be used to slow down in space.

After leaving its 18,000-mile-an-hour earth orbit, the ship would hit a peak speed of 50,000 to 60,000 miles an hour on its journey to Mars. The scientist outlined his plan during a series of scientific demonstrations Monday. He said his ship would need no return fuel, but might want to carry an auxiliary landing craft for descent to the surface of the nearer planets.

Sailing would be inefficient for reaching distant planets, he said, and would become worthless outside the solar system, where heat radiation from the stars would compete with that from the sun.

Dr. R. A. Ramey, head of the laboratories' new products division, meanwhile, said he is installing in his home an "ultra-sonic" dishwasher that cleans dishes by sending sound vibrations through water.

Ramey demonstrated that a concave-stained glass almost immediately became clean when placed in the sound-cleansed water. He estimated the device will become "practical" in two to four years.

The Malaya Federation Chinese more than two million Chinese among its multilingual population of seven million.

Long's career in radio broadcasting stretched back more than 30 years to Kansas City, Kan., where he started when radio was a tiny crystal set.

For the past 18 years Long had worked as an announcer and program director of Seattle station KVI.

He collapsed Wednesday afternoon after returning home from the station.

He had worked at many stations in the nation, including KFOA and KFWQ, one-time Seattle stations; KGA, KHQ and KEPY, Spokane; KFWB, Hollywood, Calif., and stations in Walla Walla, Wash., and Lewiston, Idaho.

Long was a former chairman of the Washington-Northern Idaho Ann. and was a member of Radio Pioneers, a group made up of persons with more than 30 years in the broadcasting industry.

He is survived by his widow, Albertha.

Only MARK HATFIELD can give Oregon the dynamic, new leadership it needs now. By his warm friendliness, his exceptional skill in public affairs and his independence from political pressures, MARK HATFIELD has demonstrated the ability, the integrity and the political courage to become one of Oregon's greatest governors.

MARK HATFIELD

Oregon needs him for Governor... NOW!

PA. Adv. Klamath Falls, Hatfield for Gov. Comm. Robt. Larson, Robert Keel Co-Chairmen PO Box 488 Klamath Falls, Oregon

NOTICE OF FINAL ACCOUNT

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