

OUTWARD TO THE STARS (20)—Landing on the Moon

By Don Oakley and Ralph Lane



(1) Since the Moon has no atmosphere to support wings or parachutes, landing upon it will have to be done entirely by means of using rockets for brakes. Even though the Moon's gravity is weak (one-sixth that of Earth's), considerable force will be needed to counter the Moon ship's momentum in its fall.

The entire operation will be a delicate maneuver, probably handled by automatic instruments. Some type of radar altimeter will control the rocket motors to fire them at the precise moment and strength. Gyroscopes will maintain the ship's perpendicular attitude.

It is thought that much of the Moon's surface



is covered with fine, pumice-like dust, here being spewed upward by the rocket blast of the approaching ship. Determining the thickness of this layer of dust will be important before landing, lest the ship be engulfed by it.

(2) The first men step out upon the surface of the Moon, but still in space in terms of atmosphere and temperature. Temperature extremes, estimated by astronomers, range from 212 degrees F. (the boiling point of water) at noon, to -238 degrees F. at midnight. A step from sunlight into shadow means a difference of hundreds of degrees.

(3) A forbidding "moonscape," unrelieved by



meadow or forest or any form of life that we know of, greets the landing party. All about are craters, some as much as 10 miles in diameter. Ringed and walled plains, up to a hundred miles across, are also part of this vista, along with two-mile-wide crevices and the vast plains called "seas." Towering above all are the jagged mountains, the highest 30,000 feet above the average level. Unsoftened by wind or rain, they appear needle sharp. From the Moon, men view the Earth as no one before has seen it—remote and lovely, a blue jewel set in a black sky. It makes the Moon seem all the more harsh and lonely.

Next: The Lunar Colony.

Rival Governor Nominees Discuss Industrial Ideas

PORTLAND (AP)—The rival nominees for governor of Oregon discussed their ideas on industrial development of the state at a

Voters Mull Airport Tax

LAKEVIEW—A special tax in excess of the six per cent limitation to raise \$15,000 a year for five years for maintenance, operation and improvement of the local airport will be voted on by Lake County voters on November 4 in conjunction with the regular election.

The levy, based on present assessed valuation, would mean a tax of about nine-tenths of a mill. The court stated that it recognized the importance of the airport to the entire county in forest fire patrol, air ambulance service, charter plane service, and in commercial and industrial development.

The Lakeview airport was built by the Air Force during World War II at a cost of around one million dollars and was used by the Navy for bomber training. After the war it was turned over to the city of Lakeview, but has proved too large an installation for the town to provide upkeep and maintenance. Even with assistance from the Civil Aeronautics Board the 44 per cent needed from the town proved too much. Estimated repair for the runway and taxi strip has been set by the CAB at about \$35,000, and other repairs and improvements are also needed.

4-H NEWS

DORRIS AGGIES—New officers were elected by the Dorris Aggies 4-H Club at a meeting in city hall. They are Linda Crawford, president; Benny Struble, vice president; Norma Struble, secretary; and Jerry Adamec, reporter. Reports were given by Linda Crawford on the fair and by Ronald Adamec on his trip to Davis for a convention. Three new members, Judy and Grant Day and Jaunice Spears, were enrolled in the club. Jerry Adamec is the retiring president.

Gov. Robert D. Holmes, the Democratic incumbent, said he already has a constructive program under way. It includes, he said, establishment of the Department of Resources and Development, a non-partisan tax study now in progress and the Interstate Commerce Commission freight investigation. Holmes mentioned, too, his recent trade promotion trip to Alaska. "All of this," Holmes continued, "adds up to trying to bring the full weight of the chief executive in back of efforts of chambers of commerce, farm groups and others to expand Oregon industry."

But Secretary of State Mark Hatfield, the Republican nominee, said industries are moving from the state because they are uncertain about what their taxes are going to be. He said the state's tax and financial structures are unfavorable in competition with its neighbors for new industries. "We cannot," Hatfield said, "afford to continue this attitude of money. Our state cannot afford it if we are to create the atmosphere needed for the industrial growth upon which we must rely for more jobs and more prosperity for all of us."

He said the 1957-58 state budget is 27 per cent higher than that for 1955-57 and that substantial savings could be made in dozens of little budgets through more than 100 plus boards, commissions and agencies.

Holmes said Oregon tourist trade expanded this year despite an average national decline. He attributed this increase in part to his efforts to promote industrial growth.

ATTENTION

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Cleric Appeals For Glasses

An appeal for used eyeglasses to be sent to his mission in West Africa came this week in a letter from the Rev. William W. Ainley.

former pastor of the Mt. Laki Community Church. The Ainleys were here about three years and left two years ago for foreign mission work.

Mrs. R. Tromblee, member of the Mt. Laki parish, said the letter states that there is widespread increasing interest in reading among the Africans with whom the Rev. Ainley works. Poor eyesight is common and there are no glasses to be purchased there, the letter said.

Arrangements have been made for used glasses to be left with either Market Basket No. 1, Market Basket No. 2 or the Big Y Market. Mrs. Tromblee said. The glasses should have rims or at least hook over the ears rather than being the pinch-on type.

"The Methodist church has sent us 40 pairs," the letter stated, "and they were all claimed within two days. We will gladly pay the duty at this end and we find our people take better care of their possessions if they cost them a little something."

The Rev. Ainley's address is B.P. 18, Ambam, French Cameroon, West Africa. Mrs. Tromblee reported.

Siskiyou Tutors Hold Institute

DORRIS—Siskiyou County teachers held an institute at the old and new high school auditoriums in Yreka last week under the direction of the county school superintendent, Eddie Roberts.

Dr. George A. Pettitt, assistant to the president of the University of California, spoke on "An Anthropologist Looks at the Challenge of the Atomic Age."

Three panels were included in the program with the first panel, "Great Changes Sweeping our World," composed of panelists, Dr. John C. Livingston, Richard C. Payne and Dr. Edward C. Britton.

A panel of educators, including Winston D. Purvine, director of Oregon Technical Institute, were on

the second panel, and a group of students, which included Robert H. Garner of OTI, composed the third panel.

Approximately 400 teachers and 50 lay persons attended the meetings.

Colonel "Light Horse Harry" Lee, hero of the American Revolution, was father of General Robert E. Lee, of Civil War fame.

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SCOUT NEWS

TROOP 4

MOTHERS AUXILIARY

The Mothers Auxiliary of Boy Scout Troop 4 held its first fall meeting on September 18 at the Wayne Galloway home.

A short business meeting was presided over by the president, Alice Galloway. The minutes and the treasurer's report were read by Zoe Green, pro tem.

A history of the auxiliary for the past year was prepared and presented by Ellen Tinker, historian.

New officers installed by Mrs. Murray Britton, president of the Mills PTA, were Mrs. E. Plowman, president; Mrs. W. Guyer, vice president; and Mrs. Ed Ground, secretary-treasurer. Each of the officers was presented with a corsage.

The retiring president, Mrs. Galloway, was presented a pin and corsage by the auxiliary for her year's work. She in turn presented a scout pin to all charter members.

Banquet and refreshment chairman, Ellen Tinker and Shirley Eccles; and scout camp fund chairman, Donella Plowman, received recognition for their work during the summer.

James Harpole, scout executive, thanked the following scout mothers in recognition of services rendered to the scouting program through service to the United Fund Drive: Joan Aschenbach, Shirley Eccles, Alice Galloway, Lucille Anderson, Madeline Gospodnetich, Mrs. Leech, Mrs. Parks, Mrs. Scholl, Donella Plowman, Ellen Tinker, Della Tonlin and Mrs. Amos.

Refreshments were served by Mrs. Galloway and Mrs. Plowman.

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