

## Radio Astronomer to Tell Haleakala Work Progress

Grote Reber, research physicist, will address the Hawaiian section of the Institute of Radio Engineers at its meeting in the Hawaiian Electric building at 7:30 tonight.

Mr. Reber will discuss the progress of his work in radio astronomy at a special receiving station on Haleakala.

The location atop Maui's highest mountain was chosen because it permits the use of the sea as a reflector for his receiving antenna, which is used to detect and identify radiation from the stars.

Mr. Reber, a pioneer in the field of radio astronomy built his first radio telescope in 1927. He has made many contributions to the field.

At present the Haleakala project has been observing sources of radio waves along the Milky Way, the highly turbulent gas cloud in Cassiopeia, and the colliding galaxies in Cygnus.

**RADIATION HAS** also been detected from the supernovas of A. D. 1054 and A. D. 1572. A supernova is a star which blows up due to old age; the date refers to the year the explosion was observed on earth.

The Haleakala observations are being made at frequencies between 20,000 and 100,000 kilocycles. The upper frequencies are near TV channel 4. Results of the observations are altered or confused at times by the ionosphere, layers of electrically charged gases 60 to 200 miles above the earth. Mr. Reber will discuss the effects of ionospheric activity on his observations.

**HE WILL ALSO** discuss the effects of probable meteor trails. Radiation from the sun at higher frequencies has also been measured from time to time.

Mr. Reber's installation at Kolekole hill on Haleakala is supported by the Research Corporation, a New York foundation. Because of his work he was nominated for the Pacific Region IRE award for outstanding electronic achievement.

### Emperor to Fly

TOKYO, July 13 (UP)—Emperor Hirohito will make the first airplane flight next month ever made by a Japanese ruler, it was disclosed today. An American pilot will be at the controls.