

Mrs. J. M. KING
1020 GARNER AVENUE
WHEATON, ILLINOIS

Nov 21

Dear Grotz.

Saw this in yesterday's Chicago Tribune - We are proud of you! Really you are the man of the hour.

Jim King & his wife Nancy are dying to see you & Nancy to meet you.

You'd enjoy Rochester & perhaps even their friends. Their address is 224 Birch Lane, Webster, N.Y.

P.S. They have a guest room too. They are coming to Wheaton for Christmas, flying Dec 23 - 29 - How are

Things going in Green Bank? Fine, we
hope. Jack has been flying around here
& there on one or two day business trips.
We won't take a vacation till after the
first of the year. The Wheaton mayor Edwin
Farrar got himself into the news in
an unsavory way - Headlines in Tribune
last Sat. molesting a 14 yr. old girl of
Wheaton too - what has happened to our
nice small town? Progress? or largeness
or > we have the racist little boy ^{bringing}
leaves & on deck for more shoveling.
His name is David ^{IHA} ~~Zah~~ from Kauai, Hawaii.
I couldn't resist inviting him in for a
cup of tea & a spot of conversation after
he had raked for a couple of cold hours.
He is a fresh, freshman (1st time on
the mainland,) at Wheaton College.
Good luck and aloha
Jimmy & Jack

photocopy of original of
made 11/22/04 by F. B. A. H. H. H.

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Huge U. of I. Telescope to Peer Far Into Space

BY RICHARD PHILBRICK
(Drawing on back page)

The University of Illinois will soon have the most powerful instrument in the world for research in radio astronomy, university trustees announced Wednesday at their meeting in the La Salle hotel.

The device, known as a radio telescope, will occupy a ravine 600 feet long, 400 feet wide, and 65 feet deep five miles southeast of Danville.

Prof. George C. McVittie, head of the university's astronomy department, said the instrument will make it possible to explore space to distances far beyond any now within reach.

Huge Device in England

The largest existing similar device, a radio telescope at Manchester, England, can peer 1,000 times deeper into space than the world's biggest visual telescope.

The cost of constructing the instrument, not yet disclosed, will be borne by the federal government. The ravine in which it will be situated and more than 200 acres about it will be purchased by the university for \$15,880, the trustees agreed. The British government spent \$2,240,000 to build the Jodrell Bank telescope at Manchester.

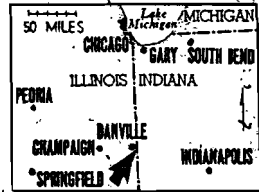
Notes Cosmic Noises

The telescope's 160,000 square feet of receiving area will make it more than twice the size of the one at Jodrell Bank, but it will not be steerable as is the British instrument. McVittie said observers will have to wait until the object they want to examine is brought over the telescope by the earth's rotation.

A radio telescope is essentially a radio aerial tuned to cosmic noises. The noises it detects are radio waves emitted from objects in space both inside and outside our galaxy.

The Illinois instrument, Prof. McVittie said, should help to discover what the sources of these noises or radio signals are.

The sides and the bottom of the ravine will be lined with metal, thus creating a giant



reflector which will concentrate the radio waves onto a line of receiving elements 155 feet above the bottom of the trough in a north and south line.

Site Carefully Chosen

Neither fog nor clouds nor daylight will limit the use of the telescope, but it will be extremely sensitive to electrical disturbances.

The site it will occupy was chosen, Prof. McVittie said, as being remote from such interference and possessing proper soil characteristics.

The radio telescope was invented by Grote Reber, an Illinois Institute of Technology graduate, who was born in Chicago and reared in Wheaton.

THE WEATHER

THURSDAY, NOVEMBER 26, 1936

CHICAGO AND VICINITY:

Partly cloudy Thursday with little temperature change; rain and colder at night; high, near 50; low, in 20s; west to northwest winds at 15 to 22 m. p. h. Friday: Partly cloudy with little change in temperature.

ILLINOIS: Partly cloudy in north and fair in south Thursday; a little colder in north and over most of state at night. Friday: Fair with little temperature change.

TEMPERATURES IN CHICAGO

3 a. m. ... 25	11 a. m. ... 43	7 p. m. ... 44
4 a. m. ... 24	Noon ... 45	8 p. m. ... 43
5 a. m. ... 24	1 p. m. ... 48	9 p. m. ... 42
6 a. m. ... 25	2 p. m. ... 49	10 p. m. ... 41
7 a. m. ... 25	3 p. m. ... 51	11 p. m. ... 40
8 a. m. ... 26	4 p. m. ... 50	Midnight ... 39
9 a. m. ... 27	5 p. m. ... 47	1 a. m. ... 38
10 a. m. ... 29	6 p. m. ... 46	2 a. m. ... 37

↑ High; ↓ Low * Unrecorded.

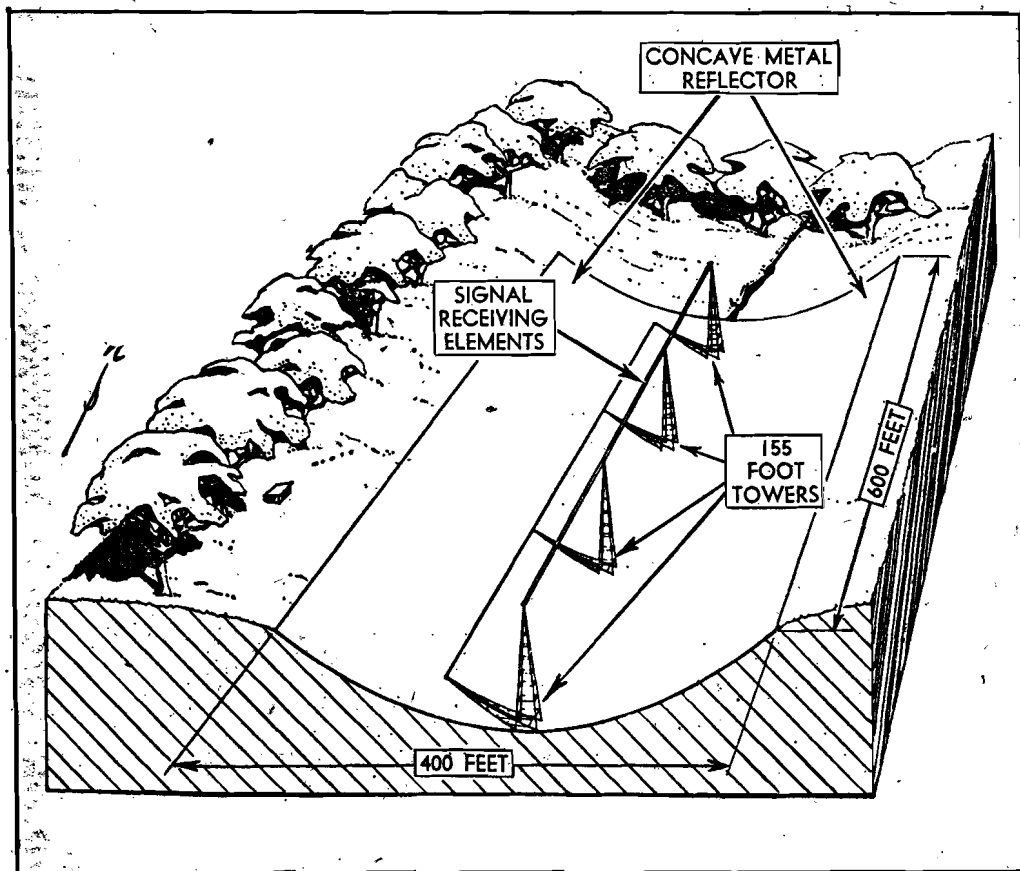
THE MOON



Sunrise, 6:46. Sunset, 4:27. Moonset, 2:11 a. m. Friday. Evening stars: Saturn and Mars.

For 24 hours ended 6 p. m. Nov. 19: Mean temperature, 43 degrees; normal, 28; month's excess, 145; year's excess, 82. Precipitation, none; month's deficiency, .11 inch; year's deficiency, 4.65 inches. Highest wind velocity, 20 m. p. h. Relative humidity, 6 a. m., 76 per cent; noon, 52; 9 p. m., 59. Barometer, 6 a. m., 29.96; 6 p. m., 29.96. [Map and other reports on page 16]

Photo of a giant chipmunk
made in 1920/1 in the Pacific



How new University of Illinois radio telescope, most powerful in world, will be built in a ravine five miles southeast of Danville.

(Story on page 1)