



☼ * ○ ● SYMBOLS FOR STARS IN ORDER OF BRIGHTNESS

With a volcano, on the other hand, the upwelling of lava from underground piles up, and the wall is ordinarily far bigger than the depression inside the crater.

That even important lunar discoveries can still be made by an amateur astronomer with a small telescope was strikingly shown last year. On July 28 John J. O'Neill, a Long Island amateur astronomer and science writer, was observing the moon with a telescope equipped with a lens four inches in diameter, using a power of 200 diameters.

At the eastern border of the dark area known as the Mare Crisium, Sea of Crises, he noticed what seemed to be a natural bridge, spanning two capes about two miles apart. He could observe the light shining under the bridge, which showed that it was not merely a ridge.

This was so extraordinary that he naturally wanted some confirmation, so he wrote to Dr. H. Percy Wilkins, an English astronomer and authority on the moon. As Dr. Wilkins described it later before a meeting of the British Astronomical Association:

"On Aug. 26 I began to observe, firmly convinced that I was about to debunk the whole affair! I used powers up to 300 on my 15-inch telescope and . . . well, there it was! At least, there was the appearance of a bridge with the sunlight streaming under it, and with the shadow of the arch cast upon the plain."

Unfortunately, Mr. O'Neill died last autumn, before he had heard from Dr. Wilkins of this confirmation of his discovery. Other astronomers have also observed it, so "O'Neill's bridge" has become a recognized lunar feature, a memorial to its discoverer, and an excellent proof that there is still much we do not know about the moon!

Celestial Time Table for August

Aug. EST	
2	1:18 p.m. Moon passes Venus.
5	10:00 p.m. Moon farthest, distance 251,200 miles.
	10:08 p.m. Moon passes Saturn.
6	1:50 p.m. Moon in first quarter.
10	2:32 a.m. Moon passes Mars.
12	early a.m. Meteors of Perseid shower, apparently radiating from constellation of Perseus visible, but

bright moonlight will interfere with the display.

14	6:03 a.m.	Full moon.
18	1:00 a.m.	Moon nearest, distance 228,200 miles.
20	11:51 p.m.	Moon in last quarter.
21	3:00 p.m.	Mercury beyond sun.
24	8:08 p.m.	Moon passes Jupiter.
28	5:21 a.m.	New moon.

Science News Letter, July 24, 1954

GENERAL SCIENCE

Many Scholarship Honors

➤ WINNING FIRST place this year in the Science Talent Search, one of the toughest scholarship competitions, has brought more than \$30,000 in scholarship offers to a high school senior, Alan F. Haight, 17, of Bethesda, Md.

He has refused all 30 of the college offers to carry out his original plan to attend Amherst College. Since need is the basis for scholarship awards at Amherst, he will have none from that college.

Alan, who graduated near the top of his class of 402 at Bethesda-Chevy Chase High School, intends to finish a liberal arts degree before he specializes in physics at Massachusetts Institute of Technology.

In the Thirteenth Annual Science Talent Search he was named, from 16,344 seniors who competed from every state, to receive the \$2,800 Westinghouse Grand Science Scholarship. He will use this at Amherst.

His work on a project of basic research in pure science, summarized in a highly technical report, entitled "Spectrographic Determination of Intermediate Products in Catalytic Reactions," helped to win him the Westinghouse Scholarship last March.

It also brought him a prized summer assignment at the National Bureau of Standards where he is student-aide to Dr. Wallace Brode, associate director. Dr. Brode is an authority in the field of chemical spectroscopy.

Of the 40 winners in the 1954 Science Talent Search, nine others are working at the Bureau this summer, getting their first taste of scientific research on a large scale. Like Alan, all the winners have had many

NUTRITION

Forced Eating May Cause Child's Loss of Appetite

➤ A CHILD'S appetite, when unhampered by illness or mental conflict, will usually be governed by need, Dr. Robert Ulstrom, University of California at Los Angeles pediatrician, advises.

"We seldom see a young baby who is physically well that does not eat well," he has found. "As his growth rate slows markedly, about age two years, he fails to increase his food intake. His eating habits become quite erratic.

"Because the parents cannot understand this tremendous variation of intake from meal to meal, the child may be prodded or forced to eat more than he wants. The rebellion of the child may be so great to this prodding and anxiety of his parents that he may become truly malnourished because of loss of appetite."

Dr. Ulstrom concludes that if the problem is anticipated or caught early, no special measures of correction, other than understanding, are necessary.

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offers of scholarship assistance, which they are accepting according to their financial need. Most of them have summer employment in line with their scientific specialties.

Thousands of boys and girls, who will graduate from high schools in 1955, are seeking to emulate these accomplishments. Many of them are using their summer holiday to prepare for the Fourteenth Annual Science Talent Search for the Westinghouse Science Scholarships.

Vacation leisure is giving them a chance to carry out reading, research and experiments in their chosen scientific fields.

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