

RESEARCH CORPORATION .

DIVISION OF GRANTS  
405 LEXINGTON AVENUE  
NEW YORK 17

CHARLES H. SCHAUER  
VICE PRESIDENT and SECRETARY

June 18, 1958

Mr. Grote Reber  
Wailuku  
Maui, Hawaii

Dear Grote:

Thanks for your letter of May 21. I am rather embarrassed to find that I am replying to it nearly four weeks later. It has been a very busy period of miscellaneous meetings of Committees, Boards, etc., with all of the attendant paper shuffling that follows them.

I have talked with Emberson and received his assurance that your time of arrival at Green Bank is not critical. On the other hand, he indicates that facilities should be at least adequate, including the presence of a draftsman who would be available to you. Said draftsman will disappear sometime in September, returning to graduate school I believe, but they have hopes of replacing him without too much delay. Emberson also advises that construction work on the 85-foot dish is to start on July first and is scheduled for completion in September. I don't believe that you are particularly concerned at present with use of this piece of equipment so the only effect of its construction going on will be to provide a little more company in this somewhat remote outpost.

As far as we are concerned, of course, you are your own boss. I have fond hopes that one of these days we will have your signature on one of the standard cards which entitles you to have income tax and old age security deductions made from a pay check, but which in turn will also provide a pay check with the appropriate subtractions.

We have made arrangements with Green Bank to receive your various materials which may land here en route,

Mr. Grote Reber

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including the bridge which we have been holding and some of your publications, but have still seen nothing of the shipment from England.

I am going to be circulating this summer at a fairly rapid rate on a course which will successively include New York, central Ontario, northern Maine and New York as the return point at various times. Accordingly, I may have an opportunity to keep current with my correspondence from you a little better than I have in other years when I have been missing for a solid month or so.

Once again, your own decision should be the controlling one in plans for timing of your arrival at Green Bank, with whatever way stops are desirable or indicated. As I noted before, I hope you will look up Bill Woods when you are on the West Coast. Please let us know if there is anything we can be doing here.

Until the next round,

Aloha,



Charles H. Schauer

CHS:JE

# Huge Radio Telescope Will Be Built by Navy

By Earl Ubell  
Science Editor

A huge radio telescope, capable of reaching now-invisible crannies of the universe, will soon be built by the Navy in the Allegheny Mountains of West Virginia. It will cost \$60,000,000.

But in its announcement yesterday the Navy declined to reveal the exact size of this instrument. "It's going to be a killer," a Navy spokesman said in Washington.

The indications are that the diameter of the circular antenna needed to soak up radio waves will be bigger than the 350-foot dish the Russians now have in operation. The British have a 290-foot device.

### Scientific Data

Such telescopes can pick up weak radio signals originating from natural sources more than a billion billion miles away. With them astronomers will be able to tell:

Whether the universe is curved or flat . . .

Whether the cosmos with its billions of stars is finite or infinite . . .

Whether the world was created in one gigantic explosion or always existed pretty much as we see it now.

These questions will be answered as astronomers count distant stars, galaxies of stars and group of galaxies that can't be seen with the world's largest light-collecting telescope, the 200-incher on Mount Palomar.

### Light Is Distorted

Those faraway objects are too dim. Whatever light does reach the earth is also distorted by our bubbling and boiling atmosphere.

But some celestial regions generate radio signals by natural atomic processes. Since the phenomenon was first noticed in 1932 by the late Karl Jansky, of Bell Telephone Laboratories, astronomers have tried to understand it.

British and Australian scientists led the way, leaving Americans far behind. The Russians, quick to see a new scientific

field, rapidly built new telescopes, too.

In the United States, Harvard built a sixty-foot dish, the biggest in this country until the Navy completed an eighty-four-foot instrument for the Naval Research Laboratory. The National Science Foundation and Associated Universities, Inc., now have under construction two more, an eighty-five-footer and a 140-footer at a cost of up to \$10,000,000 at Green Bank, W. Va.

And now, less than forty miles away, at Sugar Grove, W. Va., where there is little outside radio disturbance, the Navy is planning its giant new probe of the universe.

## U. S. Artist Wins At Venice Show

VENICE, June 17 (AP).—A modern American artist who uses hardly any colors but blues and pastels won the major prize for painting at Venice's 29th biennial of art today. The four-month international exhibition opened two days ago with works of artists from thirty-six countries.

The international jury awarded the \$2,400 first prize to Mark Tobey, of Seattle, a member of the ultra modern Pacific painting school. His thirty-two pictures take up half the space in the U. S. pavilion operated by the New York Museum of Modern Art. Persons and objects in them cannot be distinguished.

The top prize in sculpture, also \$2,400, was awarded to the exhibit of abstractionist statues by Spaniard Eduardo Chillida.

## Chess Champion Off Brooklyn Boy, 15, to Play Exhibitions in Russia

Bobby Fischer, fifteen-year-old United States chess champion from Brooklyn, took off from Idlewild Airport yesterday for Brussels en route to the Soviet Union where he will play in a series of exhibition matches. He will also play in interzonal matches in Yugoslavia during his three months abroad.

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