Dr. M. A. Tuve Carnegie Institution of Washington Department of Terrestrial Magnetism 5241 Broad Branch Road, W.W. Washington 15, D.C.

Dear Tuve:

Enclosed is a manuscript describing the present undertaking here. There are ten slides to illustrate the material. Getting a few slides made turned out to be a bit of an operation. Inspite of my precise instructions the photographer succeeded in getting four of the pictures on sideways. Perhaps the lantern operator can compensate by swivelling the slide holder. If not, the audience will have to swivel its neck. I used to get upset about such things, but that time has passed. Out here such things are known as Hawaiian style. Other places it is called Chinese style!

After your letter of the 7th arrived I decided to add four more slides labelled A to D as historical material to precede the above ten slides. These are

- A. Jansky and his antenna at Holmdel, New Jersey in 1931. It is a Bruce type array with reflector two wavelengths (110 feet) long operating at 20.5 megacycles. It turned around once in twenty minutes.
- B. Meridian transit at Wheaton Illinois. Wooden framework fastened with gusset plates. Sheet metal mirror 31 5 5 diameter and 20 0 focal length. Constructed during summer of 1937. First try was spring of 1938 at 3300 megacycles without results. A second failure at 910 megacycles that autumn. First success was spring of 1939 at 167 megacycles.
- C. Contours of Cosmic Static along the milkyway at 160mc taken during 1943. The loop at 79°, -1° marked 2.0 is prominent source in Cassiopeiae.
- D. Contours of Cosmic Static along the milkyway at 480pc taken during 1946. The small loop at 440, \neq 40 marked 1.6 is well known Cygnus source. The small loop at 1530, -40 marked 0.9 is Crab Nebula.

The slides went off a few days ago via air parcel post. As I explained to Schauer the past year has been strenuous, travel is hard work, and I do not feel equal to making a long junket at this time. However, I am always pleased to receive visitors, and if any members of the Academy are out travelling I will be pleased tomeet them at the airport and provide a Cooks tour of the Island.

Best regards,