

THE UNIVERSITY OF CHICAGO

THE ENRICO FERMI INSTITUTE

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December 30, 1969

Mr. Oscar E. Monnig
29 Chelsea Drive
Fort Worth, Texas 76134

Dear Mr. Monnig:

What a surprise to get a Christmas present from you! It has not arrived yet, but since I will be in Houston all next week for the Lunar Show-and-Tell, I thought I had better thank you in advance.

I shall certainly let you know the exact weight of the sample. Probably it will be a little while before we get it measured. Peter Jeffery who would normally do it, is returning to Australia in 3 1/2 weeks, and R. Ganapathy, my other mass spectrometrists, is deeply involved in neutron activation analysis of lunar samples. The work is truly back-breaking; he and his colleagues usually work a 12-14 hour day, 6-7 days a week.

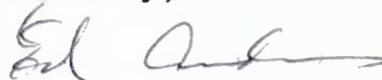
We did manage to put a meteoritic twist into our lunar work, by calculating the meteorite infall rate on the moon. Our principal findings are:

- 1.) The meteorite influx rate at Tranquillity Base is about 1/4 that for the earth;
- 2.) At least half of the infalling material must be of carbonaceous chondrite composition!

Of course, quite a few people suggested at one time or another that carbonaceous chondrites were more abundant in space than on earth, owing to destruction in the atmosphere.

We all wish you a very happy and healthy New Year!

Sincerely,



Edward Anders

EA/mkm