November 12, 1962.

Dear Jim:

Have your Oct. 22nd card before me, and many thanks for 'keeping in touch'.

What! you haven't got Toronto in on the scene as yet? Shame on them.

The weather here has been ghastly.

You missed a fine lecture on Thursday night at McGill. The Dominion Time Keeper gave a most interesting talk.

He gave the astronomical definition of time as being 1/31,556,925,9747. (which I don't understand.

He explained how they, through a mathematical equasion (?) (they use three 'times'- UT-0, UT-1, UT-2) they obtained an accurate method of obtaining such precise TIME with their new quartz clocks, so as to synchronize Time Signals all over the world to a split second.

He gave this mathematical method which they used.

U T- 2 / Delta I = Ephemeris Time

obtaining a frequency figure - milliseconds

9,192,631,770 plus a certain no of cycles per second.

Wish I could understand the mathematical parts of the talk! Does any of it make sense to you. Don't forget I'm only quoting-- errors are mine!

A new batch of reports for October are going out to you by tomorrow or the next day. I want to check out everything at the Centre before sending them.

There are a few new ones as you will see. I should like to alert you to Rippen's reports. He switched instruments from September's report to October, and he had me in a tizzie!

I think we should ask all of the obervers to maintain a uniformity of reporting. I think the cloudy days are superfluous-- what do you think? Reporting visibility of stars of fainter magnitude than six should not be done, even though conditions are such that visibility allows one to observe them. Stars are checked actually only up to sixth mag. What do you think? Mr. DeKinder discussed it with me the other night and he seems to think that it should not be done. Please let me know how you feel about it.

Best regards to you and I did give your regards to some of the members, and I shall bring your card tonight and read it to the members.

Sincerely yours,

Don Gaul E