

September 17, 1956

Mr. Bruce Rule  
California Institute of Technology  
1201 East California Street  
Pasadena, California

Dear Bruce:

The meetings on September 25 and 26 may turn into some interesting debates, because Don Kennedy and Bob Grenzeback (Kennedy chief engineer) and perhaps Mr. Husband will be present, as well as Dr. Feld. Therefore, I am planning an "executive working session" for Thursday, September 27 and I hope you can stay over for it.

As a minimum goal, I would like to get advice and decisions on:

(a) The best combination for an equatorial telescope, e.g. perhaps the Feld mount but with oil pad bearings, and the Kennedy reflector in place of the Feld shell, and a specification for the drive and control system.

(b) At least one complete altazimuth telescope, e.g. one of the three designs plus specifications for the drive and control system, including a choice on the type of coordinate conversion unit.

I believe you are up-to-date on all the structural material produced to date but you need copies of some of the drive and control material.

Dr. Brown, who is associated with Mr. Warren at the Lombard Governor Corporation gave some thought to the altazimuth control problem and submitted a plan, a copy of which is attached. Similarly, the Farrand Optical Company submitted a plan, built around a mechanical coordinate conversion unit; a copy is attached. Vickers also studied the drive and control problem but excluded the coordinate conversion unit from their plans; a copy of this material is also attached.

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In addition to the above, there is the possibility of the coded disks, mentioned in the MIT report. This would require a computer. I am advised that the only real limitation here is money to pay for the equipment, as almost any precision and speed may be obtained.

I will look forward to seeing you on the 25th.

Sincerely,

Richard M. Emberson  
Assistant to the President

cc: D.S. Meeschen ✓  
M.B. Karelitz  
J.O. Silvey w/encls.

Encls:  
Lombard plans  
Farrand plans  
Vickers plans

Signed in Dr. Emberson's Absence