

Thursday Evening  
October 5, 1961

MEMO TO FILE

Send Caspersson, ~~Prices~~ and the article by Field on UV

We have had considerable difficulty in dealing with the organisms in Ludox on account of precipitation of the Ludox and the immobilization of the specimens. We, therefore, have to find better techniques for transferring the specimens from Ludox to TVA or for supplementing the Ludox so that it can be used directly. We promised to do this. He will test out the incorporation of bacteria into polyvinyl alcohol himself and we will send him additional specimens including those from soil already prepared on quartz covered glasses. It would be desirable to use a .35 mm covered glass on one side and a thinner cover glass on the other to allow some latitude in the use of the lens. Caspersson will also send us a mounting for registration of the specimen.

Caspersson also discussed the variation in the focus of the quartz lenses and indicated that these were mainly things which we would have to measure for ourselves. There is about a 4 micron excursion of the focus in the region from 2400 to 3000m $\mu$  for the 1.25 lens. He did not think we would really lose very much by using the .85 lens.

Caspersson will be back in this country for a brief period the end of November and will keep us informed about his itinerary. Otherwise he will remain in Stockholm at least through the end of this year.

We discussed the possible use of the laser for raman spectroscopy with the microscope. Caspersson was rather interested in this.

Gullberg wants to visit us.

Wolochow and Chatingny should be urged to compare their cook lens with ours.

Have Lee Hundley remind Freed about the vibrating mirror.