

Towns

149 Hill St.
Ann Arbor, Mich.
October 11, 1939.

Dr. George M. Reynolds
4901 Ellis Ave.
Chicago, Ill.

Dear Dr. Reynolds:

I am submitting herewith a report on my activities since last January when I applied for a renewal of my fellowship grant from the Julius Rosenwald Fund. I shall be very glad to supplement the information which it contains if it is incomplete in any way.

Very truly yours,

Myron B. Towns
Myron B. Towns.

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In the period since January, 1939, when I applied for a renewal of my fellowship grant from the Julius Rosenwald Fund I have prepared for, and satisfactorily sustained, the remainder of the written preliminary examinations required for candidates for the doctor's degree in Chemistry. These examinations were comprehensive ones in Physics and in Analytical Chemistry. The only requirement for the doctor's degree which remains to be met is the completion of the research upon which I am now engaged and the presentation of the results thereof in a satisfactory dissertation.

In the second semester of the last academic year I was elected to membership in Phi Kappa Phi, a national honorary society.

During the seventeen years that Dr. A.L. Ferguson and his coworkers have conducted their program of research on polarized electrodes quite an elaborate apparatus has been developed making measurements. It has taken some time for me to become familiar with the circuits involved in this assembly and to become familiar with the technique of operation. After these had been mastered it was found necessary to reconstruct the vacuum tube amplifier and a vacuum tube voltage regulator because of their failure to operate satisfactorily. Because of the variety of the factors which affect the proper operation of the apparatus assembly it has been a lengthy task to secure proper control of these factors and to determine the manner in which, and the extent to which, they are affected by the conditions to be employed. Such adjustments are absolutely necessary, however, to insure a minimum of uncertainty in the measurements which are to follow. This process of adjustment and calibration of apparatus has consumed the time I have given to research and is still incomplete. It is expected that in a period of two weeks, or less, after the writing of this report that the apparatus will be in a condition which will warrant experimental use.

-- Myron B. Towns.

October 11, 1939.

