

October 11, 1939

Birtill A. LloydPROGRESS REPORT

I continued in residence at the University of Illinois through the preceding Summer Session during which period I took an additional course in mathematics and determined the solubility of sulphur dioxide in various organic solvents. The information obtained from the following systems is expected to throw some light upon a possible electromeric behaviour of sulphur dioxide:

Dimethyl ether of tetraethylene glycol - sulphur dioxide.

Dimethyl acetamide - sulphur dioxide.

Ethylene glycol - sulphur dioxide.

Dimethyl ether of ethylene glycol - sulphur dioxide.

Trimethylene glycol - sulphur dioxide.

Ethyl alcohol - sulphur dioxide.

Diethyl ether - sulphur dioxide.

In each case but the last solubility data were obtained for the temperature range from 0° C to 40° C.

Having very creditably passed the Preliminary Examinations in the Major and Minor fields, I am now a candidate for the degree in June of 1940.