

GENEALOGY DATABASE ENTRY

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MacInnes, Duncan Arthur

1885 - 1965

DEGREE: PhD

DATE: 1911

PLACE: Illinois

TEACHER/RESEARCH ADVISOR: Washburn

investigated many areas of electrochemistry, including development of the moving boundary method for determining transference numbers and the measurement of the potentials of galvanic cells containing liquid junctions; studied electrometric titrations; developed method for making small and sensitive glass electrodes for measuring the pH values of solutions which was adapted for biological and medical purposes; responsible for the experimental confirmation of the Debye-Hückel theory of ionic interaction for both strong and weak electrolytes; investigated the EMF centrifuge and the iodine coulometer.

1. Research advisor confirmed on acknowledgement page of thesis.
2. *Biog. Mem. Nat. Acad. Sci.* **1970**, *41*, 295-317.
3. MacInnes, D. A. *Autobiographical Sketch*; Rockefeller Univ. Archives: 1963; p1-10.