

# GENEALOGY DATABASE ENTRY

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Badger, Richard McLean

1896 - 1974

DEGREE: PhD

DATE: 1924

PLACE: CalTech

TEACHER/RESEARCH ADVISOR: Noyes, A. A.

experimentally determined the free energy of hydrogen cyanide; investigated extensively in the field of molecular rotation-vibration spectra, including those of HCl, isothiocyanic acid, hydrogen persulfide, urea, ozone, oxygen, hydrogen hypochlorite, NO<sub>2</sub>, NO, and ammonia; established the three fundamental vibrations, the two moments of inertia, and the N-H bond length of ammonia; established an expression for the force constant of diatomic molecules, known as "Badger's rule"; studied a series of compounds which enabled clarification of inter- and intramolecular hydrogen bonding.

1. *Biog. Mem. Nat. Acad. Sci.* **1987**, 56, 3-20.