

GENEALOGY DATABASE ENTRY

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Giauque, William Francis

1895 - 1982

DEGREE: PhD

DATE: 1922

PLACE: Berkeley

TEACHER/RESEARCH ADVISOR: Gibson

Nobel Prize in 1949 for his research on chemical thermodynamics, particularly his pioneering and exhaustive investigations on entropy and low-temperature chemistry; contributed greatly to establishing the third law of thermodynamics as a fundamental scientific law; invented the adiabatic demagnetization cooling process, and reached temperatures closer to absolute zero than those obtained by all other techniques (0.004 K); demonstrated the natural occurrence of the ^{17}O and ^{18}O isotopes and molecular hydrogen's ortho and para forms.

1. *Dictionary of Scientific Biography*; Charles Scribner's Sons: 1970-1990; vol. 17, p337-344.
2. *J. Chem. Ed.* **1990**, 67(3), 187-193.
3. Jolly, W. L. *From Retorts to Lasers*; University of California: 1987; p128-131.
4. *Chem. Eng. News* **1949**, 27, 3571.
5. *Univ. of Calif. In Memoriam*; University of California Press: 1985; p152-156.