GENEALOGY DATABASE ENTRY

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Johnston, Herrick Lee 1898 - 1965

DEGREE: PhD DATE: 1928 PLACE: Berkeley

TEACHER/RESEARCH ADVISOR: Giauque

studied low temperature calorimetry, the production of low temperatures, high temperature calorimetry and vapor pressures, molecular spectra, isotope identification and separation, high pressure thermodynamics, transport properties of gases, and photochemistry; pioneered work on the liquid hydrogen-liquid oxygen rocket engine used in the development of the Saturn missile; pioneer in the electrolytic separation of heavy water from naturally occurring water; with Giauque, discovered existence of oxygen isotopes -- this led eventually to the abandonment of the atomic weight scale based on oxygen.

- 1. For confirmation of research advisor, see J. Am. Chem. Soc. 1929, 51, 2300 and 3194, and thesis.
- 2. American Men of Science (8th Ed.); The Science Press: 1949; p1279.
- 3. Ohio State University Monthly 1965, (Nov.), 48.