

GENEALOGY DATABASE ENTRY

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Brown, Herbert Charles

1912 -

DEGREE: PhD

DATE: 1938

PLACE: Chicago

TEACHER/RESEARCH ADVISOR: Schlesinger

Nobel Prize in 1979 for his work on boranes and organoboranes, including his discovery of the hydroboration reaction, the room temperature addition of diborane to olefins, which occurs without skeletal rearrangement to produce the anti-Markownikov addition product; during WWII, studied volatile uranium compounds; developed quantitative methods for the determination of steric effects in organic chemical reactions and the chemical effects of steric strain; investigated the non-classical ion problem, the basic properties of aromatic hydrocarbons, and the development of a set of electrophilic constants which correlated aromatic substitution data and a wide variety of electrophilic reactions.

1. Seymour, R. B.; Fisher, C. H. *Profiles of Eminent American Chemists*; Litarran Enterprises Pty. Ltd.: 1988; p48-53.
2. *Prix Nobel en 1979*; P. A. Norstedt & Soener: 1980; p125-128.
3. *Science* **1980**, 207, 44-46.
4. *Nobel Laureates in Chemistry 1901-1992*; James, L. K., Ed.; American Chemical Society: 1993; p604-610.