

# GENEALOGY DATABASE ENTRY

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Wilson, Edgar Bright

1908 - 1992

DEGREE: PhD

DATE: 1933

PLACE: CalTech

TEACHER/RESEARCH ADVISOR: Pauling

theoretical and experimental studies of IR and Raman spectra; pioneer in use of symmetry to simplify the quantum mechanics of vibrations; co-developed first relatively complete mathematical formulation of the rotational-vibrational motion of molecules (the FG matrix method); invented the Stark effect microwave spectrometer; used microwave spectroscopy to determine interatomic distances, hydrogen bonding, centrifugal distortions, bond rotation barriers, and rotational isomerism.

1. *J. Phys. Chem.* **1979**, 83(11), 5A-12A.
2. *McGraw-Hill Modern Scientists and Engineers*; McGraw-Hill: 1980; vol. 3, p333-334.
3. *Chem. Eng. News* **1978**, 56(46), 7.
4. See *J. Chem. Phys.* **1933**, 1, 210 for confirmation of PhD advisor.