

GENEALOGY DATABASE ENTRY

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Kistiakowsky, George Bogdan

1900 - 1982

DEGREE: PhD

DATE: 1925

PLACE: Berlin

TEACHER/RESEARCH ADVISOR: Bodenstein

leading expert on explosives and kinetics of chemical reactions; studied UV-VIS spectra of polyatomic molecules, shock and detonation waves, heat of dissociation of nitrogen, heats of hydrogenation of hydrocarbons, barriers about internal rotation about C-C bonds, and energy redistribution in excited molecules; first demonstration that enzymes can have more than one active site; discovered radiationless and collisionless singlet-triplet transitions and breakdown of spin state as a quantum number in large molecules; developed scanning time-of-flight mass spectrometer for kinetic studies; science advisor to Pres. Eisenhower; developer of the implosion method which triggered the first atomic bomb.

1. *McGraw-Hill Modern Scientists and Engineers*; McGraw-Hill: 1980; vol. 2, p173-174.
2. *Chem. Eng. News* **1971**, 49(29), 40-41.
3. *Chem. Eng. News* **1968**, 46(3), 59.
4. *Chem. Eng. News* **1967**, 45(53), 94.
5. *Nature* **1959**, 183, 1639.
6. *Nature* **1960**, 187, 112-113.
7. *Chem. Eng. News* **1982**, 60(50), 5.