



**Calhoun: The NPS Institutional Archive**  
**DSpace Repository**

---

History of Naval Postgraduate School

Biographies

---

Undated

## Resume of William Marshall Tolles, Undated

Tolles, William Marshall

Monterey, California: Naval Postgraduate School

---

<http://hdl.handle.net/10945/54301>

---

This publication is a work of the U.S. Government as defined in Title 17, United States Code, Section 101. Copyright protection is not available for this work in the United States.

*Downloaded from NPS Archive: Calhoun*



Calhoun is the Naval Postgraduate School's public access digital repository for research materials and institutional publications created by the NPS community. Calhoun is named for Professor of Mathematics Guy K. Calhoun, NPS's first appointed -- and published -- scholarly author.

**Dudley Knox Library / Naval Postgraduate School**  
**411 Dyer Road / 1 University Circle**  
**Monterey, California USA 93943**

<http://www.nps.edu/library>

## RESUME OF WILLIAM MARSHALL TOLLES

William Tolles was born in New Britain, Connecticut, in 1937. He attended the University of Connecticut where he majored in chemistry and minored in mathematics. He received the degree of Bachelor of Arts in June, 1958. Graduate study followed at the University of California at Berkeley where he received the degree of Doctor of Philosophy in January, 1962. Research, in the field of microwave spectroscopy, was under the direction of Professor William D. Gwinn. From October, 1961, to July, 1962, he undertook postdoctoral studies at Rice University in Houston, Texas, where he further studied microwave spectroscopy of free radicals.

He joined the faculty of the Department of Material Science and Chemistry at the Naval Postgraduate School, Monterey, California, in July, 1962. He was promoted to Professor in the Department of Physics and Chemistry in 1973, and to Dean of Research and Dean of Science and Engineering in 1978.

He has pursued research in the fields of rotational spectroscopy of molecules, electron spin resonance, molecular orbital calculations, microwave properties of materials, and non-linear optical spectroscopy. A number of projects were performed in conjunction with efforts at the Naval Weapons Center, China Lake, the Naval Research Laboratory, Washington, D.C., and the University of Southern California. Specific applications of fundamental studies pursued include measurements of properties of possible propellants, the production of materials with specific microwave properties, and the development of new diagnostic instrumentation for chemical analysis.

He is a member of the American Physical Society, the American Chemical Society, the Optical Society of America, the American Society of Engineering Education, and Sigma Xi.

