

VITA

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DATE AND PLACE OF BIRTH:

August 21, 1941; Cold Spring, MN

EDUCATION:

St. John's University 1963 B.A.
Iowa State University 1967 Ph.D.

AREAS OF SPECIALIZATION:

Inorganic Chemistry, Chemical Education, Computers in Education

PROFESSIONAL EXPERIENCE:

Dow Chemical Company, Chemist	Summer 1962
University of Chicago, Faculty Research Associate	1967 - 1968
University of Pennsylvania, Department of Chemistry	
Assistant Professor	1968 - 1973
Rhodes-Thompson Chair of Chemistry	1972 - 1973
Associate Professor	1973 - 1973
Arizona State University, Department of Chemistry	
Associate Professor	1973 - 1979
Professor	1979 - Present
Coordinator of General Chemistry	1973 - 1997
Director of Undergraduate Studies	1977 - 1986
Assistant Chairman	1983 - 1986, 1991 - 1992
Graduate Mentor, Curriculum and Instruction	1990 -
Faculty Affiliate, Center for Solid State Science	1998 -

PROFESSIONAL ORGANIZATIONS AND HONORARY SOCIETIES:

American Chemical Society, Association for Computers in Science and Math Teaching, Society for College Science Teachers, National Science Teachers Association, National Association for Research in Science Teaching, Sigma Xi, Phi Kappa Phi

MISCELLANEOUS:

Award for Distinction in Undergraduate Teaching	1980
Board of Directors - Odyssey School	
for the Gifted and Talented	1985 - 1987
Advisory Board - Center for Academic Precocity	1986 - 1987
Award for Distinction in Undergraduate Teaching	1986
SERAPHIM Fellowship	1987 - 1988
Visiting Professor, Eastern Michigan University	1987 - 1988
Feature Editor, "Filtrates and Residues", Journal of Chemical Education	1988 - 1989

Feature Editor, "The Computer Series", Journal of Chemical Education	1989 - 1996
National Catalyst Award, Chemical Manufacturers Assoc.	1990
Editorial Board, Journal of Chemical Education: Software	1992 -
High School Chemistry Task Force, ACS	1992 - 1996
Bookbuilders Award, College Textbook Division for "Chemistry", published by Houghton Mifflin Company	1994
General Chemistry Exam Committee, ACS	1995 - 1998
Teaching Innovation Award, College of Liberal Arts & Sciences	1996
Feature Editor, "Teaching with Technology", Journal of Chemical Education	1997 - 2001
American Dental Association General Chemistry Exam Committee	1998 -
Teaching Innovation Award, College of Liberal Arts & Sciences	1998
Teaching Innovation Award, College of Liberal Arts & Sciences	1999
Associate Editor, Journal of Research in Science Teaching	2000-2001

Publications:

Papers: 74
 Books and monographs: 28
 Software: 49
 Invited lectures and presentations: 205
 Grants: 38 totaling \$10,168,400