

Name, Ph.D

Department of XXXX
Indiana University Purdue University Fort Wayne
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EDUCATION

- 1989 PhD in Chemistry - Harvard University
Thesis : Coupled Equation Description of Molecular Perturbations
(Supervisor : Professor Alexander Jones)
- 1986 A.M. in Chemistry - Harvard University
- 1984 B.S. in Chemistry with highest distinction - University of Virginia

EXPERIENCE

- 2004 - present: PROFESSOR and CHAIR of Chemistry at Indiana University Purdue University Fort Wayne.
- 1997 - 2004: ASSOCIATE PROFESSOR of Chemistry at Indiana University Purdue University Fort Wayne.
- 1999: VISITING ASSOCIATE PROFESSOR of Chemistry at the Technion - Israel Institute of Technology, sabbatical January - June, working in collaboration with Prof. Nimrod Moiseyev on chemical reaction dynamics and scattering theory using the complex coordinate method.
- 1997: VISITING ASSOCIATE PROFESSOR of Chemistry at the University of Michigan teaching Physical Chemistry II (Chemistry 461) May-June.
- 1996: VISITING ASSISTANT PROFESSOR of Chemistry at the University of Michigan teaching Physical Chemistry II (Chemistry 469) May-June.
- 1993 - 1998: FACULTY ADVISOR to the Student Affiliates of the American Chemical Society IPFW Chapter.
- 1991 - 1997: ASSISTANT PROFESSOR of Chemistry at Indiana University Purdue University Fort Wayne.
- 1989 - 1991: POSTDOCTORAL RESEARCH ASSOCIATE with Donald G. Truhlar at the University of Minnesota studying quantum mechanical reaction dynamics on a Cray-2.

1984 - 1989: RESEARCH ASSISTANT with Alexander Jones at the Harvard-Smithsonian Center for Astrophysics analyzing molecular perturbations using scattering theory.

1984 - 1985: TEACHING ASSISTANT at Harvard University responsible for recitation sections and laboratory instruction in General Chemistry.

1981 - 1984: UNDERGRADUATE RESEARCH STUDENT with Lester Andrews at the University of Virginia performing experiments in matrix-isolation spectroscopy of organic cations.

HONORS

2003 Inclusion in 2003 edition of *United Who's Who Executive and Professional Registry, 2003*

2002 Inclusion in seventh edition of *Who's Who Among America's Teachers, 2002*

1995 Sigma Xi Chapter of Fort Wayne Researcher of the Year

1990 Minnesota Supercomputer Institute Research Scholar

1985 Award for Outstanding Teaching as a Teaching Fellow

1985 Monsanto Fellow, Harvard University

RESEARCH/TRAVEL GRANTS

2004 Awarded American Chemical Society Petroleum Research Fund Type B grant;
1/1/04 - 8/31/07

2002 Awarded Purdue Research Foundation International Travel Grant

2001 Awarded American Chemical Society Petroleum Research Fund Type B grant;
1/1/01 - 8/31/03; extended to 8/31/04

2001 Awarded IPFW Summer Grant for Research

2000 Awarded IPFW International Conference Fund Grant

2000 Awarded Purdue Research Foundation International Travel Grant

1997 Awarded American Chemical Society Petroleum Research Fund Type B grant;
9/1/97 - 8/31/99; extended to 8/31/01

1997 Awarded and accepted Purdue Research Foundation (PRF) Summer Faculty Grant

SOCIETY MEMBERSHIPS

American Chemical Society, American Physical Society, Phi Beta Kappa.

DEPARTMENTAL AND SPECIALTY SEMINARS

Harvard-Smithsonian Center for Astrophysics, Atomic and Molecular Physics Division, March, 1988. "Effects of Shallow Attractive Wells at Large Internuclear Distances in Diatomic Potential Energy Curves."

Harvard-Smithsonian Center for Astrophysics, Atomic and Molecular Physics Division, June, 1988. "Level Shifts in the $B^3\Sigma_u^-$ State of Molecular Oxygen" and "Band Oscillator Strengths of the Schumann-Runge Absorption Bands of Molecular Oxygen."

Harvard-Smithsonian Center for Astrophysics, March, 1989. "Solving Scattering Problems using Molecular Potentials Inferred from Spectroscopic Data."

University of Minnesota, Chemistry Department, September 1989."Multichannel Eigenvalue Problems."

CONFERENCE PRESENTATIONS

"The Magnetic Dipole Photodissociation of Molecular Oxygen" by *R.S. Smith* and A. Jones, **Atomic, Molecular and Optical Physics Division Meeting**, Cambridge, MA, May 1987.(Poster presentation.)

"Level Shifts in the $B^3\Sigma_u^-$ State of Molecular Oxygen" by *R.S. Smith* and A. Jones, **Atomic, Molecular and Optical Physics Division Meeting**, Baltimore, MD, April 1988.(Poster presentation.)

"Quantal Calculations of O^+-O Scattering" by A. Jones and *R.S. Smith*, **American Geophysical Union Spring Meeting**, Baltimore, MD, May 1988.(Invited Oral presentation.)

"Level Shifts in the $B^3\Sigma_u^-$ State of Molecular Oxygen" by *R.S. Smith* and A. Jones; and "Band Oscillator Strengths of the Schumann-Runge Absorption Bands of Molecular Oxygen" by *R.S. Smith*, **Symposium on Molecular Spectroscopy**, Ohio State University, Columbus, Ohio, June 1988.(Oral presentations.)

PUBLICATIONS: Journal Articles and Book Chapters

Vibronic Absorption Spectra of Dichloro- and Dibromobenzene Cations in Solid Argon at 20 K, *R.S. Smith*, *B.J. Kelsall*, and *L. Andrews*, *J. Phys. Chem.* **88**, 1944, 1984.

Photochemical Rearrangements of o- and m-Dichlorobenzene Cations to p-Dichlorobenzene Cation in Solid Argon, *R.S. Smith* and *L. Andrews*, *J. Am. Chem. Soc.* **107**, 822, 1985.

PUBLICATIONS: Textbooks

Molecular Quantum Mechanics, *P.W. Adams* and *R.S. Smith*, Oxford University Press, Oxford/New York, 3rd ed., 1997.

Solutions Manual for Molecular Quantum Mechanics Third Edition, *P.W. Adams* and *R.S. Smith*, Oxford University Press, Oxford/New York, 3rd ed., 1997.

Meccanica Quantistica Molecolare, *P.W. Adams* and *R.S. Smith*, Zanichelli, Bologna, 1st (Italian) ed., 2000.