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Professor

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Education:

Ph.D., Physics, State University of New York at Albany. 1982

M.S., Physics, State University of New York at Albany. 1975

B.S., Physics and Mathematics, State University of New York at Brockport, 1973

Professional Appointments:

Professor, Materials Science and Engineering, Northwestern University (NU), 2000-

Resident Visitor, Materials Science Division, Argonne National Laboratory (ANL), 1991-

Professor, Physics and Astronomy, Northwestern University, 2000-

Co-Director, Synchrotron Research Center, Northwestern University, 2005-

Director, X-ray Diffraction Facility, Northwestern University, 1999-

Spokesperson, National Synchrotron Light Source (NSLS) X15A, Brookhaven National Lab, 1992-2005

Spokesperson, NSLS X15A Beamline Contributing User Program, 2006-

Assoc. Professor, Materials Science and Engineering, Northwestern University, 1991-2000

Assoc. Professor, Physics and Astronomy, Northwestern University, 1999-2000

Adjunct Assoc. Prof., Materials Science and Engineering, Cornell University, 1990-1991

Staff Scientist, Cornell High Energy Synchrotron Source, Cornell University, 1984-1991

Research Associate, Hamburg Synchrotron Laboratory, DESY, Hamburg, Germany, 1982-1984

Resident Visitor (Ph.D. Thesis Work), Bell Laboratories, Murray Hill, NJ, 1979-1982

Research Fellowship, Physics Graduate Student, SUNY Albany, 1979-1982

High School Instructor, Elmira Christian Academy, Elmira, NY, 1975-1978

Professional Societies:

American Physical Society

American Crystallographic Association

American Association for the Advancement of Science

Materials Research Society

Honors and Awards:

Bertram Eugene Warren Diffraction Physics Award from the American Crystallographic Assoc., 1994

Fellow of the American Physical Society, 1998

Research Areas and Interests:

Surface, interface, thin-film, and nanoscale structures

Semiconductor and Oxide surface structures and heteroepitaxial strained-layer systems

Metal / oxide supported catalysts

Liquid / solid interface, diffuse double-layer structure

Atomic-scale structure of fluid / mineral interface

Biomolecular adsorption at charged surfaces

Ultrathin organic films, Self-Assembled Monolayers and Multilayers

Utilization of high brightness x-ray synchrotron sources as *in-situ* structural probes

X-ray interference phenomena, X-ray Spectroscopy, X-ray optics, Crystallography

Northwestern University Research Center Membership

DuPont Northwestern Dow Collaborative Access Team, Board Member

Materials Research Center, Executive Committee

Catalysis and Surface Science Center, Executive Committee

Institute for Environmental Catalysis, Executive Comm.

Instrumentation Shop, Executive Committee

Nanoscale Science and Engineering Center

Institute for BioNanotechnology in Medicine

