

# Michael J. Bedzyk

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Materials Science and Engineering  
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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:

Chair, Materials Science and Engineering, Northwestern University, 2011-  
Professor, Materials Science and Engineering, Northwestern University, 2000-  
Professor, Physics and Astronomy, Northwestern University, 2000-  
Co-Chair, Applied Physics Program, Northwestern University, 2010-2011  
Co-Director, Synchrotron Research Center, Northwestern University, 2005-  
Director, X-ray Diffraction Facility, Northwestern University, 1999-  
Visiting Scientist, Materials Science Division, Argonne National Laboratory (ANL), 1991-  
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

## Professional Societies:

American Physical Society  
American Crystallographic Association  
American Association for the Advancement of Science  
Materials Research Society  
American Chemical 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: (> 150 refereed publications)

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  
Molecular Self-Assembly  
Utilization of high brightness x-ray synchrotron sources as *in-situ* structural probes  
X-ray interference phenomena, X-ray Spectroscopy, X-ray optics, Crystallography