

Andrew B. Bocarsly
Professor of Chemistry

Office Address:

Department of Chemistry
Frick Laboratory, Princeton University
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Education:

Massachusetts Institute of Technology - PhD - June 1980
Major Field: Physical Inorganic Chemistry
Thesis Advisor: Professor Mark Wrighton
Thesis Title: "Characterization and Manipulation of Charge Transfer Processes at the
Semiconductor Electrolyte Interface"

University of California at Los Angeles, B.S., Magna Cum Laude with Departmental
Honors in Chemistry - June 1976
Major Field: Double Major in Chemistry and Physics
Research Advisor: Professor John Gladysz
Research Area: "Metal Atom Cocondensations for Organometallic Synthesis"

Academic Experience:

2002 - 2008	Director of Graduate Studies, Chemistry
1995 - 1998	Director of Graduate Studies, Chemistry
1994 - Present	Professor of Chemistry, Princeton University
1987 - 1994	Associate Professor of Chemistry, Princeton University
1980 - 1987	Assistant Professor of Chemistry, Princeton University
1976 - 1980	Graduate Research Assistant, M.I.T.
1975 (Summer)	Laboratory Assistant, Department of Chemistry, UCLA
1973 - 1974	Laboratory Assistant Department of Chemical Eng., UCLA

External Science Consulting (2000-present)

Co-founder, Liquid Light Inc. (2009-present)
President, Science Advisory Board, Liquid Light Inc. (2009-present)
NASA, Mars Oxidation Experiment Science Team (1997-8)
Science Advisor, Applied Semiconductor (2006-2009)
Science Advisor, Millennium Cell Inc. (1995-2008)
NSF Advisory Panel to $E=mc^2$, Elem. Science Ed. in Central Jersey (1994-2000)

Professional Associations and Editorial Activities (2000-present):

American Chemical Society
The Electrochemical Society
Materials Research Society

Associate Editor for Electrochemistry, *Methods in Materials Research*
Editorial Advisory Board Member, *J. Physical Chemistry Lett.* (2013 - 2015)
Co-Editor Fuel Cells and Hydrogen Storage, *Structure and Bonding*, 141 (2011)
Princeton Section, ACS, Secretary-Treasurer (1992), Chairman, (1994) (2008)
Princeton Section, ACS, Education Outreach Chair (1992-2010)
Director, New York - New Jersey Partners in Science Program (2000-2007)

Honors:

Sigma Xi Science Education Award (2003)
New York Academy of Sciences, Honorary Member (2001)
Alfred P. Sloan Fellow (1986 - 1988)
American Chemical Society, EXXON Solid State Chemistry Award (1984)
Dreyfus Foundation Newly Appointed Faculty Grant (1980)
DuPont Young Faculty Grant (1980)
Sigma Pi Sigma - National Physics Honor Society (1996)
Phi Beta Kappa (1996)
President's Undergraduate Research Fellowship UCLA (1975)

Present Research Interests:

Elevated Temperature Proton Exchange Membrane Fuel Cells
Non-hydrogen Based Fuel Cell Catalysts
Photoelectrochemical and Electrochemical Conversion of CO₂ to Alcohols
The Photochemistry of Multielectron Intervalent Charge Transfer Complexes
Cyanogels: Hydrogel Coordination Polymers as Materials Precursors

Scholarly Symposia Organized (2000- present)

2015 Host and organizer of the Third International CO₂ Workshop at Princeton University.
2012 Host and organizer of the Second International CO₂ Workshop at Princeton University.
2011 Organized and Chaired Symposium on CO₂ activation chemistry in the Physical Chemistry Division of the ACS for the Spring National Meeting, Anaheim, CA.
2010 Host and organizer of an international workshop held in Frick on chemistry related to conversion of exhaust carbon dioxide to fuels.