

STEVEN J. SIBENER

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Education

- 1971-1975 University of Rochester, Rochester, New York.
Sc.B. in Chemistry awarded with High Distinction, 1975.
B.A. in Physics awarded with Distinction, 1975.
- 1975-1979 University of California, Berkeley.
M.S. in Chemistry, 1977; Ph.D. in Chemistry, 1979.
Research with Professor Yuan T. Lee.

Professional Experience

Eastman Kodak Research Laboratories
Summer 1974: Photographic Research Division
Summer 1975: Physics Division, Solid State Physics Research Laboratory

Bell Laboratories Postdoctoral Fellow, September 1979 - August 1980.
Research with Dr. M.J. Cardillo.

The University of Chicago, The James Franck Institute and
The Department of Chemistry:
Assistant Professor, August 1980 - June 1985.
Associate Professor, July 1985 - June 1989.
Professor of Chemistry, July 1989 - .
Carl William Eisendrath Professor, July 2001- June 2010.
Carl William Eisendrath Distinguished Service Professor, July 2010- .
Senior Fellow, U. of Chicago/Argonne National Laboratory Consortium
for Nanoscience Research (CNR), October 2001 – June 2007.
Fellow, Institute for Molecular Engineering, 2013- .

Director, Univ. of Chicago Materials Research Science and Engineering
Center (NSF-MRSEC), July 1997-June 2001.
Director, MURI Center for Materials Chemistry in the Space Environment
(DoD-Multidisciplinary Univ. Research Initiative), May 2001- Nov 2006.
Director, The James Franck Institute, July 2001-June 2007.
Director, NSF Center for Chemical Innovation: Center for Energetic and
Non-Equilibrium Chem. at Interfaces (CENEICI), Sept 2009 – Aug 2012.
Director, University of Chicago Institute for Molecular Engineering's
Water Research Initiative, July 2013-present.

Honors and Awards

Arthur W. Adamson Award for Distinguished Service in the Advancement of
Surface Chemistry, American Chemical Society National Award, 2012.
American Vacuum Society Praire Chapter Outstanding Research Award, 2012.
Schulich Visiting Professor Lectureship, Technion, Israel 2012/2013
Elected Fellow, American Association for the Advancement of Science, 2006.
Elected Visiting Fellow, JILA (Joint Institute for Laboratory
Astrophysics), University of Colorado, Boulder, 1992-93; 2007-2008.
Elected Fellow, American Physical Society, 1997.
Chairman, Div. of Chemical Physics, American Physical Society, 1996.
Marlow Medal, Faraday Division of the Royal Society of Chemistry, 1988.
IBM Faculty Development Award, 1984-86.
Alfred P. Sloan Foundation Research Fellow, 1983-87.
Camille and Henry Dreyfus Young Faculty in Chemistry Award, 1980.
Gulf Oil Research Fellow, University of California, Berkeley.
American Institute of Chemists Award, University of Rochester.
American Chemical Soc. Div. of Colloid and Surface Chemistry
Undergraduate Thesis Competition Honorable Mention:
“The Shape of Liquid Interfaces,” 1975.
Regional Scholar for New York City, University of Rochester.

Associations

Phi Beta Kappa, American Physical Soc., American Chemical Soc.,
Sigma Xi, AAAS, American Vacuum Soc., Materials Research Soc.

S.J. Sibener**Curriculum Vitae****Professional Activities**

Vice-Chairman, 1985 GRC, Dynamics of Gas-Surface Interactions
 Member, Defense Science Study Group—Institute for Defense Analyses (1985 - 1988).
 Member, MRL & MRSEC Policy Committee, U. of Chicago (1987 -).
 Chairman, 1987 Gordon Conf., Dynamics of Gas-Surface Interactions.
 Member, Intl Advisory Ctte - Vibrations at Surfaces V Conf. (1987).
 Member, Board of Trustee's Visiting Committee for the College of Arts and Science, University of Rochester (July 1, 1987 - June 30, 1993).
 Member, IQEC '90 Program Committee (May 1990).
 Member, Physical Electronics Conference Advisory Committee (1991).
 Member, Physical Electronics Conference Committee (1991-1994).
 Organizer, Symposium on "Surface Chemistry from Reaction Dynamics Through Materials Growth", 8/1992, ACS Natl. Meeting, Wash. DC.
 Co-Chairman, Symposium on "Laser Techniques for Surface Science", January 1994, SPIE/OE LASE '94, Los Angeles, CA.
 Chairman, ACS Irving Langmuir Prize Canvassing Committee (1995).
 Division of Chemical Physics, American Physical Society:
 Vice-Chair (1994), Chair-Elect (1995), Chair (1996).
 Member, NSF-MRSEC Directors' Executive Committee (1998-2000).
 Member, Advisory Board, Center for Nanoscale Matls, Argonne (2001-3).
 Chair, APS Irving Langmuir Prize Committee (2004).
 Member, DOE Nanoscience Research for Energy Needs Ctte (2004).
 Member, External Advisory Committee, Wisconsin NSF-NSEC (2006-).
 Member, Program Committee, Physical Electronics Conference (2006).
 Member, Editorial Board, Advances in Chemical Physics (2007-2017).
 Co-Organizer, Centennial of the ACS Division of Physical Chemistry: Celebrating the Past, Embracing the Future, Philadelphia (Aug. 2008).
 Member, Local Organizing Committee, National Meeting of the American Association for the Advancement of Science (2009).
 Chair (2013), ACS Langmuir Award Selection Ctte (Member 2010-2013).
 Co-Organizer, Symposium on Energetic Interactions at Solid and Liquid Surfaces, ACS, 2011.
 Member, J. of Physical Chemistry Editorial Advisory Board, (2011-2014).
 Member (2014) & Chair (2015), Nominating Ctte, Div. Chem. Phys., APS

University Service

Chair, Ad Hoc Faculty Committees on Molecular Engineering, 2006-2011.
 Member, Ctte on Reaccreditation of the University, 2004-0, and 1995-96.
 Member, Scientific Advisory Committee, ChemMatCARS, 2003-.
 Chair, Provost's Ad Hoc Comm on Research Centers, 2001-2002.
 Director, The James Franck Institute, July 2001 – June 2007.
 Director, Univ. of Chicago Materials Center, July 1997 – June 2001.
 Chair, Div of Physical Sciences Shops & Services Ctte, 3/96 – 6/99.
 Member, Committee on Campus Planning, July 1996 – June 1999.
 Member, Council of the University Senate, Sept 1989 - Sept 1992.

Research Interests:

Surface/Materials Chemistry & Physics; Nanoscience; Interfacial Kinetic Processes; Chemical Physics; Reaction Dynamics; Electrochemistry; Materials Growth and Thin Film Dynamics; Molecular Beam Scattering; Surface Metallurgy: interface oxidation, vibrational dynamics, alloys, phase transitions; STM/AFM Studies of Surface Phenomena; Dynamics of Thin Polymer Films; Biological Structures at Interfaces; Materials Chemistry in the Space Environment; Superconducting RF Materials; Water Purification and Sustainability.