

Adam Z. Weber

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Education

- Ph.D., Chemical Engineering, University of California, Berkeley, 2004 (4.0 GPA).
Dissertation topic: Modeling Water Management in Polymer-Electrolyte Fuel Cells.
Supervisor: John Newman
- M.S., Chemical Engineering, Tufts University, 1999 (4.0 GPA).
Thesis topic: Au Supported on Ceria Catalysts for Low-Temperature Carbon Monoxide Oxidation and Related Studies.
Supervisor: Maria Flytzani-Stephanopoulos
- B.S., Chemical Engineering, Tufts University, 1999, summa cum laude (3.91 GPA).

Experience

- 2008-. Staff Scientist/Engineer and Principal Investigator, Lawrence Berkeley National Laboratory, Environmental Energy Technologies Division, Energy Storage and Distributed Resources Department, and Joint Center for Artificial Photosynthesis (JCAP).
- 2013-. Modeling and Simulation Team Lead, Joint Center of Artificial Photosynthesis
- 2011-. Principle Investigator
- 2012-. Acting Deputy of the Electrochemical Technologies Group
- 2009-. LBNL Program Manager to DOE EERE Fuel Cell Technologies Office
- 2005-2008. Research Scientist/Engineer.
- 2004-2005. Postdoctoral Fellow.
- 2009-. Editorial Board Member, Journal of Applied Electrochemistry
- 2013-. Chair, Energy Technology Division, The Electrochemical Society.
- 2011-2013 Secretary.
- 2009-2011 Treasurer.
- 2007-2008. Chair, San Francisco Section, The Electrochemical Society.
- 2005-2006. Vice-chair.

Awards

- Charles W. Tobias Young Investigator Award**, of the Electrochemical Society, 2014.
- Presidential Early Career Award for Scientists and Engineers (PECASE)**, 2012.
- Supramaniam Srinivasan Young Investigator Award of the Energy Technology Division**, of the Electrochemical Society, 2012.
- Best Poster Paper**, at the 2012 Grove Fuel Cell Science and Technology Conference, Berlin.
- ISE Prize for Applied Electrochemistry**, of the International Society of Electrochemistry, 2008.
- Student Research Award of the Battery Division**, of the Electrochemical Society, 2004.
- EPA Science to Achieve Results Fellowship**, 2001-2004.
- Fulbright Scholar**, University of New South Wales, Australia, 1999-2000.
- Churchill Scholarship Finalist**, 1999.
- Department of Chemical Engineering Award**, Tufts University, 1999.

Lt. Commander Robert J. Manning Memorial Award, Tufts University, 1999.
Astronaut Scholar, Astronaut Scholarship Foundation, 1998-1999.

Notable Invited Lectures

- 2013 Invited lecture at the Energy Water Nexus at the 224th meeting of The Electrochemical Society
- 2013 Department Lecture, Macromolecules and Interfaces Institute, Virginia Tech
- 2013 Invited lecture at Fuel Cell Tutorial Symposium at the 223rd meeting of The Electrochemical Society
- 2012 Chemical Engineering Colloquium, Princeton University, Princeton, NJ
- 2012 Department lecture, General Energy Research Department, Paul Scherrer Institute, Villigen, Switzerland
- 2012 Invited lecture at Fuel Cell Tutorial Symposium at the 221st meeting of The Electrochemical Society
- 2011 Invited lecture at the Special Lambda Symposium at the 220th meeting of The Electrochemical Society
- 2011 Invited lecture at the 2nd International Workshop on Degradation Issues of Fuel Cells, Thessaloniki, Greece
- 2011 Invited lecture at the Computational Electrochemistry symposium at the 219th meeting of The Electrochemical Society
- 2010 Invited plenary lecture at the Computational Clean Energy Symposium at the ASME IMECE
- 2008 Gordon Research Conference on Fuel Cells
- 2008 Marie Curie training course EF2: Nanostructured materials and membrane modelling and simulation, Patras, Greece
- 2007 Special Invitation Session at FC Expo 2007, Tokyo, Japan
- 2006 Plenary lecture at the Proton Exchange Membrane Fuel Cells 6 symposium at the 210th Meeting of The Electrochemical Society

Expertise

Analysis, advanced diagnostics, and mathematical modeling of polymer-electrolyte fuel cells and related electrochemical systems. Have also studied heterogeneous catalysis and photovoltaic systems. Author of various peer-reviewed technical papers and book chapters as well as numerous oral presentations (over 50) at technical meetings and invited lectures at various industry and universities. Have various managerial experience including supervising and writing major grant proposals; advising graduate students and postdocs, graduate student instructor of undergraduate courses in introduction to computers for engineers, transport phenomena laboratory, and chemical kinetics and reactor design; invited lecturer on fuel cells in graduate battery technology course. Currently lead a research group with over \$2M in annual funding for fuel cells and serve as the Fuel Cell and Hydrogen Program manager to DOE Office of Fuel Cell Technologies for LBNL. Serve as the chair of the Fuel-Cell Transport-Modeling working group for DOE EERE Fuel Cell Technologies Office. Organizer of Flow Cell Workshop for DOE. PI and Modeling and Simulation Team (MaST) leader in the Joint Center for Artificial Photosynthesis (JCAP).

Scientific Societies

Active member of the American Solar Energy Society, The Electrochemical Society, and the American Chemical Society. Sits on the editorial board of the Journal of Applied Electrochemistry and has edited an issue dedicated to Redox Flow Batteries.

In terms of experience with societies in detail, sit on the Executive Committee for the Industrial Electrochemistry and Electrochemical Engineering and Energy Technology divisions of The Electrochemical Society and have organized various symposia including the very successful Polymer-Electrolyte-Fuel-Cells series. Am also a past Chair and Vice Chair of the San Francisco Section of the Electrochemical Society, helped found and works with the UC Berkeley Student Chapter of the Electrochemical Society, and am current Chair of the Energy Technology Division of the Electrochemical Society.