William R. Schwartz

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Education

2011 **PhD**, *Yale University*, New Haven, CT
Chemical Engineering with research focus on catalysis and combustion

1980 **MBA**, *University of Michigan*, Ann Arbor, MI
Accounting and Finance

1978 **BA**, *University of Rochester*, Rochester, NY
Economics with minor in Mathematics

Experience

University of New Haven, West Haven, CT

2015–Present **Research Scientist**
Investigating electro-catalytic promotion of biofuel synthesis.

2012–Present **Adjunct Lecturer**
Teach undergraduate general chemistry and chemistry/chemical engineering lab sections.

2012–Present **Founder** *dBand Energetics, LLC*, Fairfield, CT
Established company to conduct scientific research, with emphasis on catalytic systems for alternative energy and environmental sustainability applications.

1999–2002 **Research Assistant** *Fairfield University*, Fairfield, CT
Investigated behavior or Ge:Ga extrinsic infrared photo-detectors, including cryogenic experiments and data analysis.

1996–1999 **Consultant** *Time & Cents Consultants, LLC*, Fairfield, CT
Provided assistnace to corporations with setup and maintenance of accounting/finance departments.

1990–1996 **Director of Finance & Administration** *Wayfarer Ketch Corporation*, White Plains, NY
Responsible for financial and administrative functions, including controllership, tax, treasurey, and financial accounting computer systems.

1989–1990 **Controller** *Corporate Air, Inc.*, Windsor Locks, CT
Responsible for accounting functions for parent and subsidiary companies.

1987–1989 **Division Controller** *United Air Fleet*, Windsor Locks, CT
Responsible for division accounting functions.

1984–1987 **Senior Accountant** *Prager and Fenton, LLP*, New York, NY

1981–1984 **Senior Financial Analyst and Corporate Auditor** *Xerox Corporation, Western Union International subsidiary*, New York, NY

1980–1981 **Auditor and CPA** *Arthur Andersen & Co.*, Rochester, NY

Publications

Lee, Sungchul, Gayatri Keskar, Changchang Liu, William R. Schwartz, Charles S. McEnally, Ju-Yong Kim, Lisa D. Pfefferle, and Gary L. Haller. "Deactivation characteristics of Ni/CeO2-Al2O3 catalyst for cyclic regeneration in a portable steam reformer". In: *Appl. Catal. B Environ.* 111-112 (Jan. 2012), pp. 157–164.

Schwartz, William R., Dragos Ciuparu, and Lisa D. Pfefferle. "Combustion of methane over palladium-based catalysts: Catalytic deactivation and role of the support". In: *J. Phys. Chem. C* 116.15 (2012), pp. 8587–8593.

Schwartz, William R. and Lisa D. Pfefferle. "Combustion of methane over palladium-based catalysts: Support interactions". In: *J. Phys. Chem. C* 116.15 (2012), pp. 8571–8578.

Lee, Sungchul, William R. Schwartz, Jong-Rock Choi, Jin-Goo Ahn, Dong-Hyun Kim, In-Hyuk Son, Woo Cheol Shin, and Ju-Yong Kim. "Start-up characteristics of commercial propane steam reformer for 200 We portable fuel cell system". In: *Int. J. Hydrogen Energy* 35.22 (Nov. 2010), pp. 12286–12294.

Persson, Katarina, Lisa D. Pfefferle, William Schwartz, Anders Ersson, and Sven G. Järås. "Stability of palladium-based catalysts during catalytic combustion of methane: The influence of water". In: *Appl. Catal. B Environ.* 74.3-4 (2007), pp. 242–250.

Schwartz, William R., Charles S. McEnally, and Lisa D. Pfefferle. "Decomposition and hydrocarbon growth processes for esters in non-premixed flames". In: *J. Phys. Chem. A* 110.21 (2006), pp. 6643–6648.

Schwartz, W.R. and N.M. Haegel. "Direct determination of the mobility-lifetime ($\mu\tau$) product from the transient response of extrinsic Ge:Ga photoconductors". In: *Infrared Phys. Technol.* 45.2 (Mar. 2004), pp. 125–129.

Haegel, Nancy M., William R. Schwartz, Joseph Zinter, A. Michael White, and Jeffrey W. Beeman. "Origin of the Hook Effect in Extrinsic Photoconductors". In: *Appl. Opt.* 40.31 (Nov. 2001), p. 5748.

Presentations

May 2011 **New Enlgand Catalysis Society** *Worchester Polytecnic Institute*, Worcester, MA
Combustion of Methane over Palladium Based Catalyts- Catalytic Deactivation and Role of the Support

September 2008 **International Workshop on Catalytic Combustion**, Lake Zurich, Switzerland
- Gas Turbine Engine Test of RCL® Catalytic Pilot for Ultra Low NO_x Applications.
- Combustion of Methane over Palladium Based Catalysts - A Study of Catalytic Deactivation.

March 2007 **5th US Combustion Meeting** *University of California*, San Diego, CA
Combustion of Methane over Palladium Based Catalysts - A Study of Catalytic Deactivation and the Use of Electrochemical Oxygen Pumping

December 2005 **Langer Symposium** *Yale University*, New Haven, CT
Electrochemical Promotion of Methane Oxidation over Pd/YSZ Catalyst

Awards

July 2013 **Foresight Science & Technology™**
Recipient of "Go" assessment in Go/NoGo® program for Low Temperature Oxygen Transport Membrane development.

July 2012 **American Chemical Society (ACS)**
Accepted to Entrepreneurial Resource Center (ERC) program.