

***Professor Thomas E. Drennen***  
***Economics (Chair) and Environmental Studies***  
***Hobart and William Smith Colleges***  
***Geneva NY 14456***

***Senior Member of Technical Staff***  
***Sandia National Laboratories***  
***Albuquerque, NM 87123***

**EDUCATION**

Massachusetts Institute of Technology	Nuclear Engineering	B.S., 1984
University of Minnesota	Public Policy	M.A., 1988
Cornell University	Resource Economics	Ph.D., 1993

**APPOINTMENTS**

Full Professor	Hobart and William Smith Colleges	2010 – present
Lecturer	Simon School of Business, U. of Rochester	2011 - present
Associate Professor	Hobart and William Smith Colleges	2003 - 2010
Assistant Professor	Hobart and William Smith Colleges	1997 - 2003
Senior Economist	Sandia National Laboratories	2001 – present
Staff Economist	Sandia National Laboratories	1993 – 2001

**SELECTED PUBLICATIONS**

T. Drennen and A. Baker, “Model-Based Analysis of Global Climate Treaty Emissions Compliance”, Sandia National Laboratories, January 2012 (forthcoming).

T. Drennen, J. Andruski, T. Skone, and J. Adder, “Power Systems Life Cycle Analysis Tool”, Version 2.0, National Energy Technology Laboratory (forthcoming).

T. Drennen and J. Andruski, “Power Systems Life Cycle Analysis Tool (Power LCAT): Technical Description”, Sandia National Laboratories, January 2012 (forthcoming).

T. Drennen, R. Williams, and A. Baker, “Alternative Liquid Fuels Simulation Model (AltSim): Technical Documentation”, DOE/NETL-2010/1404, National Energy Technology Laboratories, March 2010.

T. Drennen, R. Williams, and A. Baker, “Alternative Liquid Fuels Simulation Model (AltSim)”, Version 2.0, National Energy Technology Laboratories, March 2010, available at:  
<http://www.netl.doe.gov/energy-analyses/refshelf/detail.asp?pubID=302>.

T. Drennen, A. Baker, R. Williams. “Alternative Liquid Transportation Fuels Simulation Model”, SAND2008-3953, Sandia National Laboratories, October, 2008.

T. Drennen, A. Baker, W. Kamery, and R. Williams, “Electricity Generation Cost Simulation Model (GenSim)”, SAND2002-3376, Sandia National Laboratories, September 2008.

T. Drennen and J. Rosthal, *Pathways to a Hydrogen Future*, Elsevier, 2007.

T. Drennen and J. Rosthal, “The Hydrogen Futures Simulation Model (H<sub>2</sub>Sim): Pathways to a Hydrogen Future”, in *Frontiers in Environmental Valuation and Policy*, J. Erickson and J. Gowdy, editors, Elgar Publishers, 2007.

T. Drennen, “International Climate Change Negotiations: Getting China Onboard”, *Public Affairs Journal*, Fall 2007.

T. Drennen and R. Klotz, “The Electricity Portfolio Simulation Model (EPSim): Technical Description”, SAND2005-6090, Sandia National Laboratories, September 2005.

P.H. Kobos, J.D. Erickson, T.E. Drennen, “Technological Learning and Renewable Energy Costs: Implications for U.S. Renewable Energy Policy”, *Energy Policy*, Volume 34, 2006, pp 1645 – 1658.

T. Drennen and A. Baker, “The Economic Outlook for Nuclear Power in the U.S.”, SAND2005-5762, Sandia National Laboratories, September 2005.

P. Kobos, J. Erickson, and T. Drennen, “Scenario Analysis of Chinese Passenger Vehicle Growth”, *Contemporary Policy Issues*, April 2003.

T. Drennen and J. Erickson, “Who Will Fuel China?”, *Science*, Vol. 279, March 6, 1998.

## **SYNERGISTIC ACTIVITIES**

Co-P.I., “Joint Development of Dynamic Simulation Models.” Joint project between Sandia National Laboratories (U.S.) and Energy Marketing Authority (Singapore). Funding from Singapore government. Includes development of two energy/economic models. Commenced February 2009.

P.I., “Alternative Liquid Fuels Simulation Model”, Joint project between Sandia National Laboratories and National Energy Technology Laboratory (jointly funded). Includes development of dynamic simulation model for public release. 1996 – present.

P.I. on several completed energy/economic dynamic simulation models, available from Sandia National Laboratories, including: U.S. Energy and Greenhouse Gas Model, China Energy and Greenhouse Gas Model, Electricity Generation Cost Simulation Model, and Hydrogen Futures Simulation Model.

Teaching of the Year Award, Hobart and William Smith Colleges, 2006.

## **COLLABORATORS**

Arnold Baker, Sandia National Laboratories.  
Benjamin Cipiti, Sandia National Laboratories.  
Patricia Gilbert, University of Maryland Center for Environmental Science.  
Jay Keller, Sandia National Laboratories.  
Peter Kobos, Sandia National Laboratories.  
Len Malczynski, Sandia National Laboratories.  
Andy Lutz, Sandia National Laboratories.  
Ron Pate, Sandia National Laboratories.  
Jennifer Rosthal, Rice University.  
Timothy Skone, National Energy Technology Laboratories.  
Ellen Stechel, Sandia National Laboratories.