

**Curriculum Vitae
For**

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PERSONNEL

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CITIZENSHIP U.S.

EDUCATION

Ph.D., Economics, The Maxwell School, Syracuse University, 1973
M.A., Economics, The Maxwell School, Syracuse University, 1972
B.A., Economics, Minnesota State University (Moorhead), 1969

FIELDS OF SPECIALIZATION

Economic Policy Studies of Energy, Natural Resources and the Environment;
Science and Technology Policy; Applied Microeconomics; Experimental
Economics

CURRENT POSITION

Distinguished Research Staff Member, Oak Ridge National
Laboratory

Adjunct Professor of Economics, University of Tennessee

PROFESSIONAL EXPERIENCE/HONORS

Research Staff, Oak Ridge National Laboratory, August 1973 - present.

Adjunct Professor of Economics/Part-time Faculty Member, University of Tennessee, Knoxville, September 1977 - present.

Distinguished Alumni Award, Minnesota State University (Moorhead), 2006.

Joint Institute for Energy & Environment, Knoxville Tennessee, March 2003 - 2005.

Adjunct Professor of Economics, Georgia State University, 1993 - 2005

Editorial Council Member *Journal of Environmental Economics & Management*, 1996 - 1999.

On assignment at DOE, Secretary of Energy Advisory Board, 1991 - 1993.

Adjunct Faculty Member, Tusculum College TALL Program, 1987 - 1993.

Part-time Faculty Member, Department of Economics, Roane State Community College, 1984 - 1986.

BOOK

The Contingent Valuation of Environmental Resources: Methodological Issues and Research Needs, Edward Elgar Publishing, Ltd. (ed) with James Kahn, (January, 1996).

RECENT PUBLICATIONS IN JOURNALS, PERIODICALS, AND BOOKS (full list available upon request)

“Energy vs. Non-Energy Attributes: If not for Energy Efficiency, Why Buy New Technologies,” with Amy Wolfe, invited paper for the *Journal of Ecological Anthropology*.

“Selling Complementary Patents: Experimental Investigation,” with Rudy Santore and Michael McKee, under revision for the *Journal of Law and Economics*.

“An Experimental Investigation of Predictions and Symmetries in the Tragedies of the Commons and Anticommons,” with Steven Stewart, under revision for *Economic Inquiry*.

“Making Imperfect Decisions: Results from a Series of Quasi-experimental Workshop Sessions on the Acceptability of Bioremediation,” with Amy Wolfe, forthcoming, *The Applied Anthropologist*.

“Making Enduring Choices: Uncertainty and Public Policy,” with Michael McKee, *Energy Economics*, vol. 5-6, no. 28, Nov. 2006.

“Making imperfect decisions: Results from Public Workshops on Bioremediation,” *The Applied Anthropologist*, with Amy K. Wolfe, vol. 26, no.1, 54–64, 2006.

“Leveraging Defense Research: Societal Impact of the Transfer of Polycrystalline Diamond Drill Bit Research,” with Santa Falcone, *Comparative Technology Transfer and Society*, vol. 3, no. 3, pp. 276-302, December 2005.

“Patenting in the Emerging Genetic Information and Medical Treatment Industry: Anticommons and Access,” with Christine Dümmer, *ICFAI Journal of Intellectual Property Rights*, pp. 19-31, August 2005.

“Thermal Spray Technology Transfer Impact Analysis,” with Santa Falcone, *Comparative Technology Transfer and Society*, vol. 2, no. 2, pp. 195-219, August 2004.

“Research Project Impact Analysis,” with Santa Falcone, *Cost Engineering*, pp. 29-36, Dec. 2003.

“An Experimental Test for Options Value: Relevance for Contingent Value Elicitation,” with Paul Brewer, Ronald Cummings and Michael McKee, UCF/CentER International Conference on Environmental Economics and Policy, Orlando, FL, December 2000, published in John A. List and Aart de Zeeuw (eds), *Recent Advances in Environmental Economics*, Edward Elgar, 2003.

“Making Decisions about Hazardous Waste Remediation When Even Considering a Remediation Technology is Controversial,” with Amy K. Wolfe, *Environmental Science & Technology*, vol. 37, no.8, pp. 1485-1492, April 15, 2003.

“A Framework for Analyzing Dialogues Over the Acceptability of Controversial Technologies,” with Amy K. Wolfe, Milton Russell, and Nichole D. Kerchner, *Science, Technology and Human Values*, vol. 27, no. 1, Winter, pp. 134-159, 2002.

“Why Would Anyone Object? An Exploration of Social Aspects of Phytoremediation Acceptability,” with Amy K. Wolfe, *Critical Reviews in Plant Sciences*, vol. 21, September 2002.

“Prioritizing R&D for the U.S. Department of Energy’s Weapons Complex Clean-Up,” with Donald W. Jones and Kenneth S. Redus, *Environmental Modeling and Assessment* vol. 6, pp. 209-215, 2001.

“The Consequences of Alternative Environmental Management Goals: A Non-Linear Programming Analysis of Nuclear Weapons Legacy Clean-Up at Oak Ridge National Laboratory,” with Donald S. Jones and Kenneth S. Redus, *Environmental Modeling and Assessment*, vol. 5, pp. 1-17, 2000.

“DOE-EM Privatization and the 2006 Plan: Principles for Procurement Policies and Risk Management” with Donald W. Jones and Christine L. Dümmer, *Technology: Journal of the Franklin Institute*, vol. 334A, pp. 495-501, 1998.

“A Learning Design for Reducing Hypothetical Bias in the Contingent Valuation Method” with Ronald C. Cummings, and Laura Osborne, *Environmental and Resource Economics*, May 10, 1997.

RECENT PRESENTATIONS AND PUBLICATIONS IN PROCEEDINGS (full list available upon request)

“Energy vs. Non-Energy Attributes: If not for Energy Efficiency, Why Buy New Technologies,” with Amy Wolfe, presented at the annual meeting of the Society for Applied Anthropology, Tampa, FL, April 2007.

“Regulation of Emerging Technologies: Progress and Prospects,” Society for Risk Analysis Annual Meeting, Baltimore, MD, December 8, 2006.

“Social Control of Emerging Technologies through regulation: Challenges and Prospects,” Societal Implications of nanotechnology and Synthetic Biology, Chantilly, VA, May 1-2, 2006.

“Technology Acceptability Over Time: Role Playing in a Quasi-Experimental Structure,” with Amy Wolfe, Society for Risk Analysis Annual Meeting, Orlando, Florida, December 6, 2005.

“Consumer Values and Energy R&D Planning,” NREL Energy Analysis Seminar Series, Washington, D.C., video broadcast to NREL, Golden, Colorado, May 12, 2005.

“Consumer Valuation of Energy Technology Attributes,” International Energy Agency, Ad Hoc Working Group on Science and Energy Technologies, Paris, France, March 3, 2005.

“Modeling Societal Responses to Nanoscale-, Biology-, and Information-Related Technologies,” with Amy Wolfe, Society for Risk Analysis Annual Meeting, Palm Springs, CA, December 8, 2004.

“Selling Complementary Patents: Coordination and Pricing Choices,” with Rudy Santore and Mike McKee, Annual Meeting of the Economic Science Association, Tucson, AZ, November 7, 2004.

“Acceptability of Nanotechnologies: Regulatory Implications,” *Nanotechnology’s Future in East Tennessee*, Knoxville, TN, October, 26, 2004.

“Understanding Enduring Decisions for Public Policy: Timing and Uncertainty,” DOE Integrated Assessment Meeting, Snowmass, CO, August, 2003.

“Towards a Risk-Based Regulatory Framework for Biotechnology: Where we are and Where we are Heading,” with Amy K. Wolfe, Society for Risk Analysis Annual Meeting, New Orleans, LA, December 2002.

“Social Acceptability of Bioremediation Technologies,” with Amy K. Wolfe, Society for Risk Analysis Annual Meeting, New Orleans, LA, December 2002.

“Social Determinants of Bioremediation Technology Acceptability,” with Amy K. Wolfe, Society for Industrial Microbiology, Philadelphia, PA, August 2002.

“Technology Choice and Environmental Cleanup-Factors Affecting Decision Making?” with Amy K. Wolfe, Society for Applied Anthropology, Atlanta, GA, March 2002.

“Recasting Cleanup: DOE’s Legacy Waste Environmental Management Program,” Society for Risk Analysis Annual Meeting, Seattle, Washington, December 2001.

“Public Acceptability of Controversial Bioremediation Technologies,” Society for Risk Analysis, Annual Meeting, Seattle, Washington, December 2001.

“Economics and Human Genome Intellectual Property Rights: An-Uncommon Topic,” 4th Annual Challenges in Licensing and Intellectual Property Management Symposium, Licensing Executive Society Franklin Pierce Law Center, March 2000.

RECENT RELEVANT MONOGRAPHS, WORKING PAPERS AND OTHER PUBLICATIONS (full list available upon request)

“Observational Decision Making, Information, and Agent-Based Models: Potential Tools for Analyzing Markets for Energy Efficient Products,” with David P. Vogt, ORNL mimeo, June 29, 2007.

“A Protocol for Targeting End-Use Attributes Through R&D Program Management,” with Victoria D’Urso and Barbara Ashdown, ORNL, Draft.

“Energy Efficiency Plus: Modeling and Analysis for Designing More Attractive Energy Efficient Products and Technologies for the Consumer Market Place,” with Victoria D’Urso, ORNL, Draft.

“Redefining Right: Toward the Creation of Acceptable Decisions,” with Amy Wolfe, ORNL, draft.

“A Market Failures Framework for Defining the Government's Role in Energy Efficiency,” with Marilyn A. Brown, JIEE Report 2004-02, June 2004.

"Towards a New Risk-Based Regulatory Framework for Biotechnology," with Christine Dümmer, JIEE Report 2004-01, January 2004.

"Regulatory Policy Toward Organisms Produced through Biotechnology: Evolution of the Framework and Relevance for DOE's Bioremediation Program," with Christine Dümmer, JIEE Report 2003-04, January 2004.

"Economic Incentives in the Purchase and Use of Energy-Using Products: Past Practices and New Developments," The Joint Institute for Energy and Environment, JIEE Report 2003-01, January 2003.