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EDUCATION:

B.S., Mathematics, University of North Carolina, Chapel Hill, 1977
M.S., Economics, University of Tennessee, Knoxville, 1979

PROFESSIONAL INTERESTS:

Energy economics, energy demand modeling risk analysis, regional economics, decision support tools for integrated national/regional assessments, statistical analysis

RESEARCH POSITIONS:

Research Staff, ORNL, September 1979 to 2007

Senior Research Staff, ORNL, January 2008 to present

Major Projects: sectoral electricity demand modeling (NRC); analysis of energy demand for rural cooperatives (US Department of Agriculture, Rural Electrification Administration); headwater benefits analysis for FERC; analysis of uranium industry employment (EIA); industrial energy consumption patterns and forecasts (OEA); estimation of transportation energy savings from use of Maglev trains (DOE); fuel cycle externalities (DOE); assessing energy savings of new generation vehicles (DOE); evaluation of energy savings from new technologies (DOE's Energy Related Inventions Program); risks of biomass commercialization (DOE); cost/benefit analysis of EIS of decommissioning a metallurgical facility (NRC); socioeconomics analysis for EIS on demilitarization of an army facility (US Army); EIS for New Don Pedro (FERC); analysis of demands for and benefits of public transit services in Tennessee (TDOT); modeling regional

recruiting potential (Army National Guard); assessing risk of institutions participating in Title IV Student Financial Aid programs (U.S. Department of Education); evaluation of system-wide National Economic Development (NED) benefits of project improvements on the Upper Mississippi River Basin (US Army Corps of Engineers); assessing risk of erroneous payments to comply with OMB IPIA regulations (US Department of Education (ED), Office of the Chief Financial Officer (OCFO)); provide assistance in developing the internal capacity to operate and maintain a state-of-the-art decision-support methodology to assist in the grant monitoring process (ED, OCFO).

Research Fellow, November 1977-August 1979, UT-Knoxville

Research fellow at ORNL responsible for data collection, statistical analyses, and forecasts of sectoral electricity demand (NRC).

RECENT COAUTHORED PAPERS AND REPORTS:

“FFELP FY07 Improper Payment Rate Estimate: Final Methodological Report, FSA Erroneous Payments Risk Assessment Project,” Final Report, October 2008.

“System Goals and Design, FSA Erroneous Payments Risk Assessment Project,” Final Report, October 2008.

“Straw Man” Model for the FSA Erroneous Payments Risk Assessment Project,” Final Report, October 2008.

“Data Dictionary on Available Data Elements, FSA Erroneous Payments Risk Assessment Project,” Final Report, October 2008.

“Report on the Data Discovery Workshop, FSA Erroneous Payments Risk Assessment Project,” Final Report, October 2008.

“Elements of Risk Assessment: FSA Erroneous Payments Risk Assessment Project,” Final Report, October 2008.

“Federal Department and Agency Responses to the Improper Payments Information Act (IPIA), Update for FY07,” Final Report, August 2008.

“Report of the Issues Identification Workshop, FSA Erroneous Payments Risk Assessment Project,” Final Report, May 2008.

“Data Mining: State Profiles of Erroneous Payments, OCFO Erroneous Payments Risk Assessment Project,” Final Report, June 2007.

“Update of the Estimation of the Risk of Erroneous Payments for Selected Department of Education Functional Programs: 2006 Report, OCFO Erroneous Payments Risk Assessment Project,” March 2007.

“Other Federal Department and Agency Responses to the Improper Payments Information Act (IPIA), OCFO Erroneous Payments Risk Assessment Project,” Final Report, March 2007.

“Enhanced Risk Rankings, OCFO Erroneous Payments Risk Assessment Project,” Final Report, March 2007.

“Frontier Equation Estimation of Regional Participation Rates in the Army National Guard,” Draft, February 2007.

“Update of the Estimation of the Risk of Erroneous Payments for selected Department of education Functional Programs: 2005 Report, OCFO Erroneous Payments Risk Assessment Project,” Final Report, April 2006.

“Retrospective on the Deployment of Two ORNL Decision Support Tools: Lessons Learned,” Final Report, April 2006.

“Elements of Risk Assessment Used in Policy Compliance and Assessment Decision Support Systems,” Final Report, April 2006.

“Enhanced Risk Rankings, OCFO Erroneous Payments Risk Assessment Project,” Final Report, March 2006.

“Research Design Investigation, OCFO Erroneous Payments Risk Assessment Project,” Final Report, March 2006.

“Estimating Land-Cover Change in RSIM: Problems and Constraints,” Conference Proceedings of Reno 2006 American Society for Photogrammetry and remote Sensing, 2006.

“Growth in the Arizona Demographic Base and Implications for Increased Force Structure Deployment in the Arizona Army national Guard,” Final Report, October 2005.

“Main Research Paradigms for the Department of Education: OCFO Erroneous Payments Risk Assessment Project,” Final Report, December 2004.

“Data Book for the Department of Education: OCFO Erroneous Payments Risk Assessment Project,” Final Report, December 2004.

“Provisional Estimation of High Risk Programs for the Department of Education OCFO Erroneous Payments Risk Assessment Project,” Final Report, December 2004.

“Straw Man Procedure for Erroneous Payments Risk Assessment,” Draft, October 2004.

“Report of the Erroneous Payments Project Issues Identification Workshop,” Final Report, September 2004.

“Demands for and Benefits of Public Transit Services in Tennessee,” ORNL Report MO2-114048, June 2002.

“Great Lakes Navigation Draft Reconnaissance Report, Appendix A, Economic Attachments,” USACE Detroit District web site, May 2002.

“Stop Payment for Large Public Institutions,” Response Brief, December 2001.

“Commercial Progress and Impacts for the ERIP Inventions,” Draft Report, June 1999.

“Energy Related Invention Program’s Contribution to the Forest Products Industry,” white paper, June 1999.

“Estimating Externalities of Natural Gas Fuel Cycles,” Report No. 4, prepared by ORNL and RFF, January 1998.

“Estimating Externalities of Biomass Fuel Cycles,” Report No. 7, prepared by ORNL and RFF, January 1998.

“Evaluating the Economic, Energy and Environmental Impacts of a Technology Commercialization Program,” *Proceedings of the 1997 International Energy Program Evaluation Conference*, Madison, WI: Omni Press, pp. 255-265, November 1997.

“The Energy-Related Inventions Program: Continuing Benefits to the Inventor Community,” ORNL/CON-429, October 1996.

“Reservoir Release Requirements for Fish at the New Don Pedro Project, California,” Final EIS, FERC Project No. 2299-024, FERC-EIS-0081-F, July 1996.

“Decommissioning of the Shieldalloy Metallurgical Corporation Cambridge, Ohio, Facility,” draft EIS, NUREG-1543, July 1996.

“Reservoir Release Requirements for Fish at the New Don Pedro Project, California,” draft EIS, FERC Project No. 2299-024, FERC-EIS-0081-D, April 1996.

“Disposal of Chemical Agents and Munitions Stored at the Umatilla Army Depot, Oregon, Final EIS,” Program Manager for Chemical Demilitarization, Aberdeen Proving Ground, Maryland, May 1996.

“Disposal of Chemical Agents and Munitions Stored at the Umatilla Army Depot, Oregon, Revised Draft EIS,” Program Manager for Chemical Demilitarization, Aberdeen Proving Ground, Maryland, December 1995.