

Sandra O. Archibald  
Daniel J. Evans School of Public Affairs  
University of Washington  
208 Parrington Hall  
Box 353055  
Seattle, WA 98195-3055

## **EDUCATION**

Ph.D. Agricultural Economics, 1984, University of California, Davis  
M.A. Public Administration, 1971, University of California, Berkeley  
B.A. History, 1967, University of California, Berkeley

## **ACADEMIC APPOINTMENTS**

Fall 2003-Present; Dean and Professor, Evans School of Public Affairs  
University of Washington  
Fall 2002-Fall 2003; Deputy Associate Dean, Humphrey Institute of Public Affairs  
University of Minnesota  
Summer 2002-Fall 2002; Interim Dean, Humphrey Institute of Public Affairs  
University of Minnesota  
2001-2002; Associate Dean for Academic Affairs and Research Programs,  
Humphrey Institute of Public Affairs, University of Minnesota  
1999-2002; Associate Vice Provost for Faculty Development, University of Minnesota  
1998-Fall 2003; Professor, University of Minnesota, Humphrey Institute of  
Public Affairs and Adjunct Professor Department of Applied Economics;  
full graduate faculty membership in Water Resources Science; full graduate  
faculty membership in Conservation Biology.  
1992-1997; Associate Professor, University of Minnesota, Humphrey Institute of Public  
Affairs; Adjunct Associate Professor, Department of Applied Economics  
with full graduate faculty membership; full graduate faculty membership in  
Water Resources Science; and associate graduate membership in  
Management of Technology, University of Minnesota  
November 1993-September 1997; Associate Dean and Director of Graduate Studies,  
Humphrey Institute of Public Affairs  
1983-1991; Assistant Professor of Applied Economics, Stanford University,  
Food Research Institute

## **OTHER ACADEMIC, ADMINISTRATIVE & PROFESSIONAL APPOINTMENTS**

Visiting Scholar, Goldman School of Public Policy, University of California, Berkeley,  
Spring 2000  
Sabbatical leave, Visiting Scholar, Department of Agricultural and Resource Economics,  
University of California, Berkeley, Fall and Winter 1989  
Visiting Research Economist, Agricultural Issues Center, University of California, Davis,  
Summer 1989  
Adjunct Lecturer, Graduate School of Management, University of California, Davis, 1982  
Special Assistant for Academic Planning and Resource Management, Office of the Vice  
President, University of California, Berkeley, 1976-78

Program Analysis Officer, Office of the Assistant Administrator for Research and Development, United States Environmental Protection Agency, Washington, D.C.; simultaneously served as staff consultant to Vice President of the United States, Nelson Rockefeller, 1975-76  
Director of Economic Analysis, Rockefeller Commission on Critical Choices for Americans, New York, NY, 1974-75  
Principal Analyst, Vice President for Planning and Budgeting, System-wide Administration, University of California, Berkeley, 1968-74

## **PROFESSIONAL ACTIVITIES**

US Department of Homeland Security, Academic Advisory Committee, 2006-present  
US Comptroller General GAO, Academic Advisory Board, 2004-present  
Association for Public Policy Analysis and Management, Chair Institutional Representatives  
Association for Public Policy Analysis and Management, Second Vice President, 2004  
Association for Public Policy Analysis and Management, First Vice President, 2005  
National Association of Schools of Public Affairs and Administration, Executive Council, 2005-  
National Association of Schools of Public Affairs and Administration, Data Quality Task Force, 2007-  
National Association of Schools of Public Affairs and Administration, Commission on Peer Review and Accreditation, 2007-  
National Association of Schools of Public Affairs and Administration, International Education Committee, 2004-  
National Association of Schools of Public Affairs and Administration, 2007 Annual Conference Program Committee  
National Association of Schools of Public Affairs and Administration, Chair Section on Executive Education, 2005-2007  
Seattle Habitat for Humanity Board of Directors, 2005-2007  
Global Partnership Board of Directors, 2005-present  
Washington State Council on International Trade Advisory Board, 2004-2007  
Pacific Northwest Agribusiness Executive Seminar Steering Committee, 2006-2007  
CARE Council of Advocates, 2004-present  
Seattle World Affairs Council Board, 2004-2007  
American Water Works Association Research Foundation, Research Review Panel, 2001-2005  
Association for Public Policy Analysis and Management, Program Committee, 2000  
National Academy of Sciences, National Research Council, Water Science and Technology Board and Commission on Geosciences, Environment and Resources, Committee on American River Flood Frequencies, 1999  
Northeast Midwest Institute and the National Oceanic Atmospheric Agency, Blue Ribbon Panel: Economic Valuation of Great Lakes Environmental Benefits, 1997 -1999  
National Academy of Sciences, National Research Council, Water Science and Technology Board and Commission on Geology and Geophysics, Committee on Review of US EPA's Research Priorities (The ROPE Committee), 1996 -1998  
California Business Roundtable, State Chamber of Commerce and the California Farm Bureau Federation, Academic Oversight Committee: California Water Marketing Project, 1995-1996  
National Academy of Sciences, National Research Council, Water Science and Technology Board, Committee on Assessing the Value of Ground Water, 1994-1996  
National Water Research Institute, Research Advisory Board, 1994-Present  
National Academy of Sciences, National Research Council, Institute for Transportation, Committee on Hazardous Materials, 1991-1993  
National Academy of Sciences, National Research Council, Institute of Medicine, Board on Nutrition, State Food Labeling Committee, 1991-1992

Center for International Food and Agricultural Policy, University of Minnesota, Center Faculty, 1992-2003  
American Agricultural Economics Association, Economic Statistics and Information Committee, 1987-1995  
American Agricultural Economics Association, Review Committee: Quality of Research Communication Award, 1992-1993, 1993-1994  
International Apple Institute, Washington, DC, Environmental Affairs Advisory Committee, 1990  
US EPA and UN Food and Agriculture Organization, International Congress on Pesticide Resistance Committee on Constraints to New Technology Adoption, 1990-1991  
USDA, National Agricultural Pesticide Impact Assessment Program, Review Panel on Agricultural Fungicides, 1990  
University of California, Division of Agriculture and Natural Resources, Steering Committee, Food Safety Education Program, Oakland, CA 1989-1990  
Council for Agricultural Science and Technology, Task Force on Economic and Health Risks Associated with Mycotoxins, 1988-1989  
American Agricultural Economics Association, Committee on Professional Activities, 1985-1987  
Reviewer, American Journal of Agricultural Economics; Food Research Institute Studies; Journal of Applied Econometrics; Land Economics; Rand Journal of Economics; Western Journal of Agricultural Economics; World Bank, Journal of Soil and Water Science

## **CONSULTING**

US Agency for International Development, Environmental Policy Training Project in Central and Eastern Europe, 1994-2000  
National Water Research Institute, Analysis of Economics of Desalination in Southern California, 1999-2000  
US Department of Interior, Bureau of Reclamation, Economics of Water and Federal Water Policy, 1990-1994  
US Department of Justice, Economic Value of Indian Water Rights, 1989-1991  
US Environmental Protection Agency, 1975; 1989; 2000  
State of California, Department of Agriculture, Pesticide Policy and Economics, 1988  
State of California, Department of Water Resources, Economics of Water Use, 1990-1992  
State of Minnesota, Dakota County, Benefit-Cost Analysis Methods and Government Decision Making, 1999  
National Grocery Manufacturers Association, Food Use Pesticide Policy, 1989  
Spectrum Economics, San Francisco, CA, Pesticide Regulatory Policy, Energy Pricing and Regulation and State Conjunctive Water Use Policy, 1992  
Western Consortium for Health, Berkeley, CA, Pesticide Regulatory Policy, 1989  
Northwest Economics, Water Policy and Regulatory Analysis, 1991  
Management Economics Group, Davis California, Firm and Market Economic Analysis, 1983-1987  
Pacific Gas and Electric Company, Time-of-Use Energy Price Policy, 1983-1984  
Hennepin County, Minnesota, CO-2 Project Evaluation Committee, 1994  
Solano Irrigation District, Solano County, California, Value of Water Rights, 1992  
Oakland City School District, Oakland, CA, Budgeting, Program Evaluation, 1973

## **HONORS AND AWARDS**

Outstanding Teaching Award, Hubert H. Humphrey Institute of Public Affairs, University of Minnesota, 1993

Quality of Research Communication Award, American Agricultural Economics Association, 1989  
Outstanding Dissertation Award, Department of Agricultural and Resource Economics,  
University of California, Davis, 1984  
United States Department of Agriculture, Economic Research Service, Dissertation  
Research Grant, 1981-1983  
Liquid Sugars, Inc., Graduate Study Research Grant, 1979-1980  
Ford Foundation Research Grant, 1978-1979

#### **UNIVERSITY APPOINTMENTS and ASSIGNMENTS, UNIVERSITY OF WASHINGTON**

Elected Chair, University of Washington Board of Deans, 2007-2008  
Chair, University of Washington Environmental Stewardship Advisory Committee, 2004-present  
Co-Chair, University of Washington, Law School Dean's Search Advisory Committee, 2007-2008  
Chair, University of Washington, Building Names Committee, 2005-present  
Chair, University of Washington, Business School Dean Search Advisory Committee, 2004-2005  
Member, University of Washington, Vice President for Human Resources Search Advisory  
Committee, 2005-2006  
Chair, University of Washington Provost's Committee on Reallocation of Vacated Faculty Positions,  
2006  
Member, University of Washington, Human Resources Advisory Committee, 2004-present  
Member, University of Washington, Leadership, Culture and Values Initiative, 2005-2007  
Member, University of Washington, Council of Environmental Deans, 2007-present  
Member, Washington State Institute for Public Policy, 2004-present  
Dean's Representative, University of Washington Faculty Senate Planning and  
Budget Committee, 2008  
Dean's Representative, University of Washington Budget Committee, 2008-present  
Member, President's Council on Risk Management Policy, University of Washington, 2008-present

#### **SELECTED UNIVERSITY APPOINTMENTS and ASSIGNMENTS, UNIVERSITY OF MINNESTOTA**

University Council of Research Associate Deans, 2000-2003  
Executive Vice Provost and President, Search Committee for Associate Vice Provost for  
Faculty Development, 2002  
President's Council on Learning Assessment, 2001-2003  
Commission on the Environment, 2000-2002  
International Programs Office, Interdisciplinary Project on Genetically Altered Foods, 2000  
Elected University Senator, 1997-1999; 1999-2001  
Graduate School, Social Science Policy Review Council (Chair), 1995-1996, 1996-1997  
Graduate School Executive Committee, 1995-1996, 1996-1997  
Graduate School, Search Committee, Fessler-Lambert Chair, 1995-1996  
Institute of Technology, Search Committee, Braun-Intertec Chair, 1994-1995  
Vice President, Research, Academic Integrity Committee, 1994-1995, 1995-1996  
Graduate Program in Water Resources Science, Curriculum Committee, 1995-1997  
Department of Applied Economics, Seminar Committee, 1995-1996  
Graduate School Task Force: Curriculum for Urban and Regional Planning Program, 1997  
Vice President and Provost, Humphrey Institute Dean Search Committee, 1996-1997,  
1997-1998  
Humphrey Institute, Promotion and Tenure Committee 1996-1997; Chair, 1999-2000  
Humphrey Institute, Member, Graduate Admissions Director Search Committee,  
1999-2000  
Humphrey Institute, Member, Development Officer Search Committee, 1999-2000

Humphrey Institute, Member, Oversight Committee for Dual Executive Masters' Program, 1997-1999  
Humphrey Institute, Graduate Advisory Committee, Chair, 1993 -1997  
Humphrey Institute, Semester Transition Committee, Chair, 1995-1997  
Humphrey Institute, Coordinator, Graduate School External Program Review, 1995-1996  
Humphrey Institute, Mid-career Program Design Committee, 1995-1997  
Humphrey Institute, Public and Non-Profit Management Search Committee, 1995-1996  
Humphrey Institute Social Policy Search Committee, Co-chair, 1995-1996  
Humphrey Institute Ph.D. Program Design Committee, 1992-1993, 1993-1995 (Co-chair)  
Humphrey Institute Admissions Committee, 1992-1994  
Humphrey Institute, Served on numerous committees in capacity of Associate Dean, both within the Institute and the University

## **TEACHING**

### Graduate Instruction

Public Leadership Seminar, University of Washington  
Production Economics, Stanford University  
Advanced Research Methods, Stanford University  
Advanced Seminar in Production Economics, Stanford University  
Interaction of Biology and Economics in Agriculture, Stanford University  
Intermediate Microeconomic Theory, University of Minnesota  
Advanced Microeconomic Policy Analysis, University of Minnesota  
Introduction to Policy Analysis, University of Minnesota  
Economics of Natural Resources and Environmental Policy (cross-listed with Applied Economics), University of Minnesota  
Capstone Workshop in Environmental Policy Analysis  
Technology Policy (cross-listed with Institute of Technology), University of Minnesota  
Regulatory and Environmental Policy in Agriculture, University of California, Davis  
Innovation in Strategic Planning, Skills Workshop, University of Washington

### Undergraduate Instruction

Microeconomic Principles for Program in Human Biology, Stanford University

### Mid-Career Courses

Microeconomics  
Benefit-Cost Methods  
Environmental Policy Design  
US Technology Policy

## **INTERNATIONAL EXPERIENCE:** Associated with Research/Teaching Activities (Alphabetical order by country)

Argentina, September 24-26, 1992, one-week in-country participating in the SIV Congreso El Desafio del Mercado sponsored by the Asociación Argentina de Consorcios Regionales de Experimentación Agrícola, Capital Federal and Mendoza, Argentina. Speaking and advising on food-safety policy and technology  
Brazil, June 4, 1997, Keynote Address, Agricultural Policy and Implications for Major World Participants, 50<sup>th</sup> Anniversary of MANAH, S/A, São Paulo, Brazil.  
China, September 2006, Member Governor Christine Gregoire's Trade Mission to China and Japan  
France, June 1997, Participate in Second Toulouse Conference on Environment and Resource Economics, Institut D'Economie Industrielle, Université des Sciences Sociales, Toulouse, France

Hungary, November 1993, approximately one week in-country conducting training in Environmental and Resource Economics, University of Minnesota-USAID Environmental Training Project for Central and Eastern Europe

Italy, February-March 1992, approximately three weeks in-country participating in an invited lecture series on Food Safety and Food Policy at Istituto di Economia E Politica Agraria, Universita Degli Studi Di Verona, Verona, Italy; Assolambardo Food Industry Group in Milano, Italy; the Istituto Nazionale di Economia Agraria, Roma, Italy; the Centro di Specializzazione e Ricerche, Portici, Italy; and Universita degli Studi Della Calabria, Dipartimento di Economia Politicas, Cosenza, Italy

Italy, June 1996 VI Meeting of Exchange between the University of Minnesota and the University of Padova, workshop and exploration of mutual research interests

Italy, June 1998, World Congress of Resource and Environmental Economists, Venice, Italy

Italy, June 1999, VIII Meeting of Exchange between the University of Minnesota and the University of Padova, workshop and exploration of mutual research interests

Japan, November 2007, Workshop on International Public Policy Education, Hyogo University

Mexico, May 1995, Bi-national Workshop on Transboundary Resource Problems in the Era of NAFTA, sponsored by the NWRI, Imperial County, California and the Government of Mexico

Mexico, September 1986-1988, US Mexico Project between Stanford University's Americas Project and the Center for Economic Studies, El Colegio de Mexico, approximately four weeks in-country participating in workshops and field work investigating small-holder Mexican agriculture and technology adoption

Poland, 1997-2002, teaching in the University of Minnesota Joint Degree Program in Public Affairs

Poland, 2007, Collaboration with Warsaw School of Economics to develop a joint degree in Executive MPA in Central and Eastern Europe

Romania, March 1995, approximately one week in-country conducting training in Environmental and Resource Economics, University of Minnesota-USAID Environmental Training Project for Central and Eastern Europe and Harvard Institute for International Development, Sinaia, Romania

Romania, June 1999, one week in-country conducting training on Valuation of Environmental Resources, University of Minnesota-USAID Environmental Training Project for Central and Eastern Europe, Baile Felix, Romania

Romania, October 2000, one week in-country conducting training on Environmental and Resource Economics, University of Minnesota-USAID Environmental Training Project for Central and Eastern Europe, Cluj, Romania

Sweden, 1992-2003, Humphrey Institute-Swedish Futures Institute Collaboration on Common Policy Issues, approximately one week in-country on alternating years organizing and participating in International Annual Conferences (with Robert Kudrle). Topics included: Global Environmental Change, Transportation Policy, The International Economy and National Governance, Health Care Policy

## **RESEARCH GRANTS AND CONTRACTS**

Co-Principal Investigator (with Rachel Kleit), Northwest Area Foundation, Understanding Poverty in the Northwest, (\$1,500,000), 2006-2010

Northwest Area Foundation Planning Grant, (\$60,000), 2005

National Water Research Institute, Value of Water Supply Reliability in Southern California (\$34,000), 2002

National Association of Schools of Public Administration and US Environmental Protection Agency  
 Small Communities Outreach Project Grant (\$5,000)  
 Minimizing the Adverse Impacts of Rulemaking on Small Business:  
 Primary Drinking Water Regulations: Groundwater Rules, 2000

Northeast Midwest Institute and NOAA, Economic Valuation of Great Lakes Water Resources Grant  
 (\$7,500), 1999-2000

Co-Principal Investigator (with Dan Farber, Law School), Ford Foundation-Humphrey  
 Institute of Public Affairs Grant (\$26,000), Develop interdisciplinary water policy  
 research related to Treat Lakes Institutions and Water Rights, 1998-1999

Principal Investigator, New Initiatives in Interdisciplinary Research and Post-baccalaureate  
 Education-University of Minnesota graduate School (\$96,000)  
 Interdisciplinary investigation to value Great Lakes resources, 1997-1999.  
 (co-investigators: K. William Easter, Hans Gregerson, Tom Johnson and Mary Renwick)

Co-Principal Investigator (with K. William Easter, Applied Economics; Hans Gregerson,  
 Forest Resources; Tom Johnson, Large Lakes Observatory) (\$65,000)  
 Economic research to value the use and non-use services of the Great Lakes, 1996-1997

Co-Principal Investigator (with Estelle Bower and Mary Renwick) Minnesota Extension Service  
 (\$63,000) Policy Issues for Lake Superior, 1997

Principal Investigator, Canadian Studies grant (\$9,000), Develop a bi-national research  
 agenda to value climate change impacts on Great Lakes water resources, 1996

Principal Investigator, Minnesota Sea Grant Research Development Grant (\$5,000)  
 Develop a water policy research program focused on Lake Superior, 1996

Principal Investigator, Faculty grant-in-aid, Graduate School (\$14,000), The economics of  
 residential water use, 1995-1996

Principal Investigator, US Department of Interior, Bureau of Reclamation (\$20,100)  
 Economic Adjustments to Environmental Water Allocations, 1994-1995

Principal Investigator, State of California Water Quality Control Board Economic Working  
 Group, Stanford University (\$400,000), Economic and Financial Impacts of  
 Water Availability for California Agriculture, 1991-1992

Principal Investigator, Morrison Population and Resource Institute, Stanford University  
 Research Grant (\$10,000), 1990

Principal Investigator, Center for Economic Policy Research, Stanford University  
 (\$10,000) Environmental and Policy Resources Research Grant

Principal Investigator, Bureau of Reclamation, Department of Interior (\$75,000) Economic  
 Profile of Irrigated Agriculture, Westside San Joaquin Valley, 1989 -1990

Co-Principal Investigator (with David Zilberman), US Environmental Protection Agency,  
 Office of Program Planning and Evaluation, Western Health Consortium  
 (\$40,000) Modeling Welfare Impacts of Pesticide Bans, 1989-1991

Principal Investigator, Ford Foundation Research Grant, US Mexico Project, Stanford  
 University (\$25,000) Economics of pesticide use in Mexican agriculture, 1988

Principal Investigator, Chemicals in the Human Food Chain, Policy and Regulation,  
 Agricultural Issues Center, University of California, Davis (\$60,000) Policy  
 and regulation governing food use pesticides, 1987-1988.

## **PUBLICATIONS**

### ***Books and Monographs***

*Management and Leadership in Higher Education*, 1982. San Francisco: Jossey Bass, Inc.,  
 (with Chester O. McCorkle), 236 pages.

*An Economic Analysis of Water Supply Availability in California Agriculture*, 3 Volumes, 1992.  
Center for Economic Policy Research, Stanford University, 450 pages.

*A Bio-Economic Analysis of Pesticide Productivity: Pesticide Resistance in California Cotton*, 1986.  
Department of Agricultural and Resource Economics, Research Report No. 86-3,  
University of California, Davis, 115 pages.

## **JOURNAL ARTICLES AND BOOK CHAPTERS**

“Managing the Enterprise: Challenges Facing Policy School Leadership,” *Journal of Policy Analysis and Management*, Spring 2008. Volume 27, no. 2, pp. 434-441.

“Measuring Progress Towards Sustainable Development: An Environmental Kuznets Curve Analysis for 25 Countries in Central and Eastern Europe.” *European Environment: The Journal of European Environmental Policy*, (with Zbigniew Bochniarz, Masahiko Gemma, and Tanja Srebotnjak) (accepted with revisions)

“Assessing Sustainability of the Transition in Central European Countries,” (with Zbigniew Bochniarz). 2006. In Chapter 2, *The Environment and Sustainable Development in the New Central Europe* (eds. Zbigniew Bochniarz and Gary B. Cohen). Oxford: Berghahn Books, pp. 19-44.

“Market Liberalisation and Sustainability in Transition: Turning Points and Trends in Central and Eastern Europe” (with Luana E. Banu and Zbigniew Bochniarz). 2005. In *EU Enlargement and the Environment: Institutional Change and the Environment* (eds, JoAnn Carmin and Stacy D. VanDeveer). Routledge, pp. 266-289.

“Market Liberalisation and Sustainability in Transition: Turning Points and Trends in Central and Eastern Europe.” (with Luana E. Banu and Zbigniew Bochniarz). *Environmental Politics*, Vol.13, No.1, Spring 2004, pp. 266-289.

“Environmental Outcomes Assessment: Using Sustainability Indicators to Measure Environmental Outcomes for Central Europe to Measure Transition Effects on the Environment,” in *Does Environmental Policy Work: Theory and Practice of Outcomes Assessment*. (Ervin, Kahn and Livingston, ed). 2003. Elgar Press. Wallace Oates (series ed.) *New Horizons in Environmental Economics*.

“Assessing Environmental Impacts of Transition,” *Periphery*, Volume 6/7. 2000-01, pp: 86-92 (with Zbigniew Bochniarz).

“Benefit-Cost Analysis and Its Use in Regulatory Decisions.” 1999. Chapter 8 in Ken Sexton et.al (ed.) *Better Environmental Decisions*. Washington, D.C.: Island Press (with K. William Easter and Nir Becker) pp. 157 -176.

“Estimation of Optimal Forest Protection Expenditures Under Uncertainty,” 1998. *Journal of Forest Planning* (with Syed A. Husain, Dietmar Rose, Joan Nichols).

“Demand Side Management Policies for Urban Water Use: Who Bears the Conservation Burden,” 1998. *Land Economics* Vol. 74(3) (with Mary E. Renwick), pp. 343-59.

- “Identifying Agricultural Sites for Biomass Energy Production in Minnesota,” 1998. Chapter 7 in K. William Easter, Ariel Dinar and Mark Rosegrant (Eds.) *Markets for Water: Potential and Performance*, (Eds.). Natural Resource Management and Policy Series, Kluwer Academic Press (with Mary E. Renwick), pp. 95-118.
- “A Framework for the Integration of Environmental and Sustainable Development Issues into Agricultural Planning and Policy Analysis,” 1996 (with G. Edward Schuh).
- Chapter 1 in Steven A. Breth (Ed.) *Integration of Sustainable Agriculture and Rural Development Issues in Agricultural Policy*. Winrock International, pp. 3-44.
- “Impact of Central Planning on Production Efficiency: The Case of the Cotton Textile Industry in China,” 1993. *Journal of Comparative Economics*, Volume 17, March, pp. 23-42 (with Kamman Cheung and Miguel Faig).
- “Technology and Labor Intensive Agriculture: Competition Between Mexico and the United States,” 1992 (with David Runsten), in Jorge A. Bustamante, Clark W. Reynolds, and Raul A. Hinojosa, *U.S. – Mexico Relations: Labor Market Interdependence*. Stanford: Stanford University Press, pp. 449-476.
- “A Flexible Model of Factor-Biased Technological Change: An Application to Japanese Agriculture,” 1991. *Journal of Development Economics*. Vol. 35(1): 127-45 (with Loren Brandt).
- “Regulating Chemicals: A Public Policy Challenge,” 1990. *Choices*. First Quarter, pp.20-25.
- “Pesticides in Food: Assessing the Risks,” 1990. Chapter 1 in C.K. Winter, J.N. Seibert and C.F. Nuckton (Eds.), *Chemicals in the Human Food Chain*. New York: Von Nostrand Reinhold Co., Inc., pp. 1-50 (with Carol Winter).
- “California’s Proposition 65: A New Regulatory Trend?” 1989. In John Braden (Ed.) *Agriculture and Water Quality: International Perspectives*. Boulder: Lynne Rienner Publishers, Inc., 147-67 (with Gloria Helfand).
- “Pesticide Residues and Cancer Risks,” 1989. *California Agriculture*. Vol. 43(6): 6-9 (with Carl Winter).
- “Incorporating Externalities in Agricultural Productivity Analysis,” 1988. Chapter 13 in Capalbo, S.M. and J.M. Antle (Eds.), *Agricultural Productivity: Measurement and Explanation*, Baltimore: Johns Hopkins Press, pp. 366-395.
- “Regulating U.S. Food Processing Industries,” 1988. Chapter 5 in C.O. McCorkle, Jr. (Ed.), *Economics of the U.S. Food Processing Industries*, New York: Academic Press, pp: 167-214 (with Dale Dahl).
- “Food Industry Dynamics and Economic Policy,” (with Alex McCalla and C.O. McCorkle) 1988. Chapter 12 in C.O. McCorkle, Jr. (Ed.), *Economics of the U.S. Food Processing Industries*, New York: Academic Press, pp. 409-434.
- “Trends in the U.S. Food Processing Industry: Implications for Modeling and Policy Analysis in a Dynamic Interactive Environment,” 1985. *American Journal of Agricultural Economics*, Vol. 67, No. 5: 1149-1154; (Japanese translation) in *Nobiyuku Nogyo*, Tokyo, Japan, 1987 (with Alex F. McCalla and C. O. McCorkle).

“Meeting the Challenges of the 1980s—A Perspective on Higher Education,” 1980.  
*Western Journal of Agricultural Economics*, Vol. 5(2): 203-208 (with C.O. McCorkle).

## **PUBLISHED RESEARCH REPORTS**

“Evaluating Environmental Effects of the Transition in Central and East European Countries: A Preliminary Research Report.” Center for Nations in Transition, Hubert H. Humphrey Institute of Public Affairs, University of Minnesota, Minneapolis, MN, September 2001. 25 pages.

“What Does the Law Require,” Chapter 2 in *Science for Solutions: Great Lakes Economic Valuation Handbook*, 2000. Decision Analysis Series. Washington, D.C.: National Oceanic and Atmospheric Agency, US Department of Commerce. pp. 120-22.

National Research Council, Water Science and Technology Board and Commission on Geosciences, Environment and Resources, *Report on American River Flood Frequencies*. Committee on American River Flood Frequencies, 1999.

National Research Council, Committee on Research Opportunities and Priorities for EPA, *Building a Foundation for Sound Environmental Decisions*. 1997. A Report to the Board on Environmental Studies and Toxicology, the Water Science and Technology Board, and the Commission on Geosciences, Environment and Resources. Washington, D.C.: National Academy Press, 88 pages.

National Research Council, Committee on Valuing Groundwater, 1997. *Valuing Ground Water: Economic Concepts and Approaches*. Water Science and Technology Board, Washington, D.C.; National Academy Press, 204 pages.

Transportation Research Board, *Special Report 239: Hazardous Materials Shipment Information for Emergency Response*. 1993. Institute for Transportation, Washington, D.C: National Academy Press, 232 pages.

National Research Council, Committee on State Food Labeling, 1992. *Food Labeling: Toward National Uniformity*. Board on Nutrition, Institute for Medicine, Washington, D.C: National Academy Press, 256 pages.

*Economic Profile of Agriculture in the West Side of the San Joaquin Valley*, 1990. Report to the San Joaquin Valley Drainage Program, U.S. Department of Interior, Sacramento, CA, July.

*Modeling Impacts of Fungicide Cancellations in the U.S. Apple Market*, 1989. A Report to the Office of Policy, Planning and Evaluation, United States Environmental Protection Agency, Washington, D.C., September, 45 pages (with Tim Brown and David Zilberman).

“Economic Impacts of Mycotoxins,” 1989. In *Mycotoxins: Economic and Health Risks*, 1989. Report No. 116, Council for Agricultural Science and Technology, Ames, Iowa, pp. 45-53.

*Shared Markets, Shared Risks: Pesticides in Mexico and the US*, August 1989. Report to the Ford Foundation, US-Mexico Project, Stanford University, Stanford, CA, 76 pages (with Robin Marsh and M.C. Robledo).

*Regulating Chemicals: A Public Policy Quandary*, 1988. (Ed.) University of California: Agricultural Issues Center.

National Research Council, Committee on Emerging Trends in Agriculture, *Emerging Trends in Agriculture and Their Impact on Wildlife Habitat*, 1982. Board on Agriculture and Renewable Resources, Washington, D.C: National Academy Press.

#### **PAPERS PUBLISHED IN PROCEEDINGS**

“Benefit-Cost Analysis and Regulatory Decisions.” Proceedings: *6th Joint Conference on Agriculture, Food and the Environment*, St. Paul, Minnesota, August 31-September 2, 1998. Published by University of Padova, Padova, Italy (with K. William Easter).

“The Rose of Regulatory Reform in Sustainable Development: An Economist’s Perspective,” 1996. In Ken Sexton and Barbara Scott Murdock (Eds.), *Environmental Policy in Transition: Making the Right Choices*, Minnesota Series in Environmental Decision-Making, Volume (1): 85:91.

“Integrating Environmental and Sustainable Development Issues into Agricultural Policy Analysis,” Invited Paper. *Proceedings: 5th Joint Conference on Agriculture, Food and the Environment*, Padova, Italy, June 17-18, 1996 (with G. Edward Schuh).

“Institutional and Bio-Physical Constraints on Water Transfers,” 1995. Selected Paper. *Abstract in Proceedings*. Western Social Science Association, Oakland, California, April 26-28.

“Research Information Needs to Facilitate the Regulatory Policy Process,” 1991. Invited paper. Published in *Proceedings: Look Through the ‘90s: The U.S. Fruit and Vegetable Industry*.” Workshop sponsored by the S-222 Regional Research Committee and the Farm Foundation. June 10-11, Washington, D.C.

“Getting the Pig to Market: Economics of Biotechnology.” 1990. Invited Paper. Organized Symposium on Developments in Animal Biotechnology, Chemistry and Biotechnology. *Abstract in Proceedings*, American Association for the Advance of Science Annual Meeting, New Orleans, Louisiana, February 18-19.

“Policy and Regulation Governing Pesticides,” 1988. In Harold O. Carter and Carole Frank Nuckton (Eds.), *Chemicals in the Human Food Chain: Sources, Options and Public Policy*. Proceedings of a symposium, University of California Agricultural Issues Center, Sacramento, California, June 3-4.

“Managing Pesticide Resistance,” Invited paper. Abstract in *Proceedings*, IAAIE Annual Conference, San Luis Obispo, California, February 6-7, 1989.

“Food Quality and Safety,” 1987. Invited Paper. In Harold O. Carter and Carole Frank Nuckton (Eds.), *Marketing California’s Specialty Crops: Proceedings of a Symposium*, Agricultural Issues Center, University of California, Sacramento, California, June 1-2.

#### **PAPERS PRESENTED AT PROFESSIONAL MEETINGS (1987-2008)**

“A Changing Public Service Enterprise: Time for New Strategies.” (with Laurel McFarland). APPAM Spring Conference. April 5, 2008, Washington, D.C.

- “Liberalization and the Environment in Countries in Transition,” Conference on the Global Environment, Austrian Center, University of Minnesota, Minneapolis, MN, September 21, 2002.
- “Comparative Rural Development Policies: What Can We Learn from the US,” 2000. 8<sup>th</sup> Joint Conference on Food, Agriculture and the Environment, University of Bologna, Bologna, Italy, June 10-15.
- “An Empirical Analysis of the Environmental Kuznets Curve in Central and Eastern European Transition Economies,” 1999. Selected Paper. European Association of Environmental and Resource Economists, June 22-25, University of Oslo, Oslo, Norway.
- “Modeling Sustainable Growth: Determining the Effects of Economic Restructuring and Environmental Investments on Productivity Growth in Central European Countries,” European Conference of Environmental and Resource Economists, Warsaw, Poland, September 24 -26, 1998 (with Zbigniew Bochniarz).
- “Managing Transboundary Water Resources: Hidden Impacts of Consumptive Water Uses in the Great Lakes,” 1998. Selected paper, American Agricultural Economics Association Annual Meetings. Salt Lake City, Utah, August 2-5. Abstract in American Journal of Agricultural Economics, Vol. 80(5). December 1998, pp. 1189 (with Nir Becker, K. William Easter and Mary E. Renwick).
- “Transactions Costs and Incentives for Water Market Development,” 1997. Organized Symposium. Environmental Policy Choices: Are Politicians the Only Ones Measuring Transactions Costs? American Agricultural Economics Association Annual Meeting, Toronto, Canada, July 27 -30.
- “Modeling Urban Water Demand,” 1997. Second Toulouse Conference on Environment and Resource Economics, Institut D’Economie Industrielle, Universite des Sciences Sociales, Toulouse, France, May 14-16.
- “Demand Side Management Policies for Residential Water Use: Who Bears the Conservation Burden,” 1997. Selected Paper. Western Regional Science Association Annual Meeting, Big Island, Hawaii, February 23 -27.
- “Modeling Gains-from-Trade in the California Water Industry: A Response to Environmental Water Demands,” 1996. Invited paper. Western Regional Science Association 35<sup>th</sup> Annual Meeting, Silverado Country Club, Napa, CA, February 25-29 (invited for submission to *Annals of Regional Science*).
- “The Value of Information in Pesticide Regulation,” 1994. Invited Paper. Annual meeting of the National Association for Science and Technology: Technological Citizenship and Future Generations, Washington, D.C., January 22-23.
- “Institutional Factors in Economic Policy Analysis: California Rice Production,” 1993. Invited Paper. An International Workshop on Japanese Agriculture, Social Science Research Council, East West Center, Honolulu, Hawaii, August 15-21.
- “The Effect of Work Capacity on Agricultural Wages: Are there Rewards to Physical Capital Development?” 1993. Selected poster. American Agricultural Economics Association Annual Meeting, Orlando, Florida, August 1-4 (with Kim Chung and Reynaldo Martorell).

- “Pest Control in Mexico: Parastatals, Pesticide Use and the Circle of Poison,” 1992. Organized Symposium on Chemical vs. Biological Control of Pests: An International Comparison. American Agricultural Economics Association Annual Meeting, Baltimore, Maryland, August 10.
- “An Economic Model of Pesticide Quality and Quantity Effects on Apple Production,” 1991. Selected paper. American Agricultural Economics Association Annual Meeting, Manhattan, Kansas, August 2 (with Tim Brown and David Zilberman).
- “Modeling Welfare Impacts of Pesticide Bans in California Agriculture.” 1991. Selected paper. Western International Economics Association Annual Meeting, Seattle, Washington, July 4 (with Julie Hewitt).
- “The Cost of Imperfect Information in Pesticide Regulation,” 1990. Organized Symposium. American Agricultural Economics Association Annual Meeting, Vancouver, B.C., August 4-6.
- “Isolating Bias in Econometric Estimates of Technical Change,” 1989. Selected paper. American Agricultural Economics Association Annual Meeting, Louisiana State University, Baton Rouge, Louisiana, July 30-August 2.
- “The Economics of Biotechnology,” Symposium on Biotechnology on the Farm: Developments and Impacts in Production Agriculture. Life Sciences and Technology Section, American Association of Allied Science Annual Meeting, San Francisco, California, January 14-19, 1989.
- “Optimal Pest Control Strategies Incorporating Resistance,” 1988. Selected paper. Annual meeting of the Society for Optimal Control and Dynamics, Arizona State University, Tempe, March 10-13, 1988.

## **BOOK REVIEWS**

- Review of National Research Council, *Regulating Pesticides in Food: The Delaney Paradox in Land Economics*, 1989. 65(1): 79-86.
- Review of David Debertin, *Agricultural Production Economics for the American Journal of Agricultural Economics*, Vol. 69, May 1987.

## ***Written Testimony (1987-Present)***

- “An Economic Analysis of Water Availability in California Agriculture: Impacts of Federal Water Quality Policy,” 1992. Testimony before the California State Water Resources Control Board, San Francisco, California, July.
- “Economic Impacts of California’s Conjunctive Use Water Policy on Agriculture,” 1992. Testimony before the California Public Utilities Commission, San Francisco, California, March.
- “Economic Implications of Increased Groundwater Pumping in Response to Drought-Induced Surface Water Shortages,” 1992. California Public Utilities Commission Hearing on the Economic Implications of Higher Electricity Rates to Agricultural Class Customers and the Various Alternatives Available to Reduce Their Electricity Demands, Sacramento, California, March 27.

“Developing Food Safety Policy for Food Use Pesticides: Trade Implications of Pesticide Bans,” 1990. Testimony before the International Trade Commission, Washington, D.C., May.

#### **TECHNICAL REPORTS AND WORKSHOP PROCEEDINGS**

The Value of Water. 1999. National Water Research Institute. NWRI-99-011. Fountain Valley, California. (with C.W. Abdalla, B.L. Cross, P. Hall, J.K. Lazo, K.P. Lindstrom, B. Sheikh and G. Silva)

“Economic and Environmental Indicators to Guide Land Use Planning,” 1998. A Report of Cook County, Minnesota Planning Commission, Humphrey Institute of Public Affairs and Minnesota Extension Service, Minneapolis, Minnesota (with Mary E. Renwick, Tom Rosales and Tim Thoreen).

*Groundwater Disinfection Regulation Workshop: Proceedings*, 1997. Occasional Paper NWRI-97-1, Fountain Valley, California. National Water Research Institute.

“Benefits From a Quality Assurance Program that Integrates Public Health Information: A Task Force Report,” 1997. *Proceedings: Groundwater Disinfection Regulation Benefits Conference*. National Water Research Institute, Arnold and Mabel Beckman Center of the National Academies of Sciences and Engineering, Irvine, California, March 17.

“Transboundary Resource Problems in the Era of NAFTA: The Case of the New River,” 1995. *Proceedings* from a Bilateral Workshop. National Water Research Institute, County of Imperial, California and the Government of Mexico, Holtville, California, May 19.

“Pesticide Residues and Cancer Risks,” *A Woman’s Place*, January 1994, pp.: 34-37.

“Mixing Water and Electricity: Conjunctive Use Policy in California Agriculture,” 1993. San Francisco, California: *Spectrum Economics* (with Steve Moss).

“Global Trends in the Aluminum Recycling Industry.” 1992. State and Local Policy Program, Recycling Conference, Humphrey Institute of Public Affairs, University of Minnesota, November (with David van Hattum and Karen Linner).

“Institutional Factors in Agricultural Adjustments to Trade Liberalization: Japanese and California Rice Production,” 1988. Working Paper, Social Science Research Council.

“Analysis of Pacific Gas and Electric Company’s Load Management ‘PA-2’ Time-of-use Rate Program,” 1985. A report prepared for Pacific Gas and Electric Company, December, 40 pages.

#### **SEMINARS, INVITED LECTURES AND ADDRESSES (1987-Present)**

“The Next Decade in Trade: Emerging Giants; U.S. Response,” 2005. Panelist for Washington Council on International Trade Senator’s Conference, Seattle, WA, July 7.

- “Can We Achieve Sustainable Growth: Lessons from Central and Eastern Europe,” 2005. PBAF 595A, Attaining a Sustainable Society, University of Washington.
- Keynote Speaker, Scottish Rite Scholarship Banquet, 2004. Seattle, WA, September 28.
- “The People Speak: American’s Role in the World,” 2004. Panelist for The People Speak, Seattle, WA, October 4.
- “America’s Stake in Eliminating Extreme Global Poverty,” 2004. Panel Discussion, Washington Council on International Trade, Seattle, WA, April 15.
- “California Water Policy,” 2002. Lectures in California Policy Issues, Goldman School of Public Policy, University of California, Berkeley, California, February.
- “The Environmental Kuznets Curve: Some Empirical Evidence.” 1999. Seminar in Environment and Resource Economics Department of Applied Economics, University of Minnesota.
- “Transactions Costs and Water Markets,” 1997. Seminar in Environment and Resource Economics Department of Applied Economics, University of Minnesota, Winter, and the Humphrey Institute Seminar Series, Spring.
- “Policy Analysis and the Case Study Method,” 1995. Workshop, APPAM Annual Conference, Washington, D.C., November 2.
- “Technology, Growth and Development,” 1996. Economics 5312, Department of Economics, University of Minnesota, February 7.
- “Health Care Policies in the Clinton Era,” 1995. Summer, University of Southern Stockholm, Novum Research Park, Stockholm, Sweden, August 23.
- “Managing Water Resources Worldwide,” 1995. Global Commons Seminar, Humphrey Fellows Program, University of Minnesota, Humphrey Institute, November.
- “Food Safety: Women and Children at Risk from Pesticides,” 1994. Seminar, Center on Women and Public Policy, January 11.
- “Nutrition and Productivity in Guatemala: Some Empirical Evidence,” 1994. Seminar, Humphrey Institute Seminar Series, February 11.
- “Issues in Global Environmental Sustainability,” 1994. Workshop, Department of Economics, Boston University, Boston, Massachusetts, November 9-10.
- “Integrating Concepts of Sustainable Development into Economic Policy and Planning,” 1993. The Cargill Lecture, Department of Economics, Macalester College, December 7.
- “Pesticide Policy and California Agriculture’s Changing Comparative Advantage, 1992. Invited Lecture, Department of Economics, University of Verona, Verona, Italy, February 16.
- “Sustaining Irrigated Agriculture in California’s San Joaquin Valley,” 1990. Invited Lecture, Morrison Institute Seminar Series on Water Quality and Land Degradation, Stanford University, April 26.

- “The Economics of Information in Regulatory Decision Making,” 1990. Seminar, Resources for the Future, Washington, D.C. April 9.
- “How Safe is Our Food?” 1989. Keynote Address, Western Legislative Conference, Monterey, California, November 13-15.
- “Confidence in Food Safety,” 1989. Keynote Speaker, Pesticide Residue Workshop, California Department of Food and Agriculture and the University of California, Davis, Sacramento, CA, February 21-23.
- “How Safe is Safe: A Public Policy Quandary,” 1989. Invited Speaker, Southern California Food Industry Conference, Davis, California, January 24-25.
- “How Safe is Safe: A Public Policy Quandary,” 1989. Invited Speaker, Western Food Industry Annual Conference, Davis, California, March 28-29.
- “Resisting Economics in Resistance Management: EPA’s Role in Managing Pesticide Resistance,” 1988. Invited Scientist Series, California Department of Food and Agriculture, Division of Environmental Monitoring, Sacramento, California, October 5.
- “Agricultural Chemical Regulation: A California Point of View,” 1988. Invited Speaker. Seminar on Regulatory Affairs, University of California, California Department of Food and Agriculture and the Western Agricultural Chemical Association, Sacramento, California, July 19-20.
- “Are Pesticides Economical?” 1987. Invited Speaker, Sacramento Economics Roundtable, Press Club, Sacramento, California, September 17.
- “Challenges of Immigration Policy to California Agriculture,” 1987. Invited Address, Commonwealth Club of San Francisco, February 12.