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University of Northern Colorado
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Education

PhD, University of Maryland, 1988.
Area of Study: Economics

MA, University of Maryland, 1984.
Area of Study: Economics

BA, The Colorado College, 1982.
Area of Study: Economics

Professional Academic Experience

Co-Director, University of Northern Colorado. (2016 - Present).

Professor, University of Northern Colorado. (2012 - Present).

Visiting Scholar (during Sabbatical Leave), University of Wyoming. (2015).

Associate Professor, University of Northern Colorado. (2009 - 2012).

Director of the Fiscal and Economic Research Center, University of Wisconsin. (2007 - 2009).

University of Wisconsin Cooperative Extension State Specialist, University of Wisconsin. (2005 - 2009).

Associate Professor, University of Wisconsin. (2003 - 2009).

Mary and Leslie Gray Research Assistant Professor of the Economics of Public Lands,
University of Nevada. (2001 - 2003).

Research Assistant Professor and Cooperative Extension State Specialist, University of Nevada.
(1999 - 2001).

Senior Associate, Hagler Bailly, Inc. (1992 - 1998).

Associate, Hagler Bailly, Inc. (1991 - 1992).

Research Fellow and Postdoctoral Investigator, Marine Policy Center, Woods Hole
Oceanographic Institution. (1988 - 1991).

Economist, Resources for the Future. (1987 - 1988).

Teaching & Research Assistant, University of Maryland. (1982 - 1987).

Economist, U.S. Environmental Protection Agency. (1985).

Administrative Roles

Co-Director of Environmental and Sustainability Studies Program, (2016 - Present).

RESEARCH, SCHOLARSHIP, AND CREATIVE WORKS

Publications

Juried

Journal Article

Skidmore, M., Anderson, G., Eiswerth, M. (2014). The Child Adoption Marketplace: Parental Preferences and Adoption Outcomes. *Public Finance Review*, 1-34.

Schoengold, K., Shrestha, P., Eiswerth, M. (2013). The joint impact of drought conditions and media coverage on the Colorado rafting industry. *Journal of Natural Resources Policy Research*, 5(2-3), 183-198. <http://dx.doi.org/10.1080/19390459.2013.811853>. DOI: 10.1080/19390459.2013.811853

Eiswerth, M., Yen, S. T., Cornelis van Kooten, G. (2011). Factors determining awareness and knowledge of aquatic invasive species. *Ecological Economics*, 70(9), 1672 - 1679.. DOI: <http://dx.doi.org/10.1016/j.ecolecon.2011.04.012>

Eiswerth, M., Van Kooten, G. C. (2010). Balancing Bio-Energy Cropping Benefits and Water Quality Impacts: A Dynamic Optimization Approach. *Canadian Journal of Agricultural Economics/Revue canadienne d'agroeconomie*, 58(4), 463–480. <http://dx.doi.org/10.1111/j.1744-7976.2010.01201.x>. DOI: 10.1111/j.1744-7976.2010.01201.x

Eiswerth, M., Cornelis van Kooten, G. (2009). The ghost of extinction: Preservation values and minimum viable population in wildlife models. *Ecological Economics*, 68(7), 2129 - 2136.. DOI: <http://dx.doi.org/10.1016/j.ecolecon.2009.02.009>

Eiswerth, M., Krauter, K., Swanson, S. R., Zielinski, M. (2009). Post-fire seeding on Wyoming big sagebrush ecological sites: regression analyses of seeded nonnative and native species densities. *Journal of environmental management*, 90(2), 1320-5.. DOI: 10.1016/j.jenvman.2008.07.009

Eiswerth, M., Kashian, R. D., Skidmore, M. (2008). Examining angler behavior using contingent behavior modeling: A case study of water quality change at a Wisconsin lake. *Water Resources Research*, 44(11).. DOI: 10.1029/2006WR005828

Schoenig, S., Eagle, A. J., Eiswerth, M., Johnson, W., van Kooten, G. C. (2007). Costs and Losses Imposed on California Ranchers by Yellow Starthistle. *Rangeland Ecology & Management*, 60(4), 369-377.

van Kooten, G. C., Eagle, A. J., Eiswerth, M. (2007). Determinants of Threatened Sage Grouse in Northeastern Nevada. *Human Dimensions of Wildlife*, 12(1), 53-70.

Eiswerth, M., van Kooten, G. C. (2007). Dynamic Programming and Learning Models for Management of a Nonnative Species. *Canadian Journal of Agricultural Economics/Revue canadienne d'agroeconomie*, 55(4), 485–498.. DOI: 10.1111/j.1744-7976.2007.00104.x

- Eiswerth, M., Shonkwiler, J. S. (2006). Examining post-wildfire reseeding on arid rangeland: A multivariate tobit modelling approach. *Ecological Modelling*, 192(1), 286-298.
- Eiswerth, M., Kashian, R., Skidmore, M. (2006). Lake Rehabilitation and the Value of Shoreline Real Estate: Evidence from Delavan, Wisconsin. *The Review of Regional Studies*, 36(2), 221-38.
- Kim, C. S., Lubowski, R. V., Lewandrowski, J., Eiswerth, M. (2006). Prevention or control: optimal government policies for invasive species management. *Agricultural and Resource Economics Review*, 35(1), 29-40.
- Eiswerth, M., Singletary, L., Zimmerman, J. R., Johnson, W. S. (2005). Dynamic Benefit: Cost Analysis for Controlling Perennial Pepperweed (*Lepidium latifolium*): A Case Study. *Weed Technology*, 19(2), 237-243.
- Eiswerth, M., Shaw, W. D., Yen, S. T. (2005). Impacts of ozone on the activities of asthmatics: Revisiting the data. *Journal of Environmental Management*, 77(1), 56-63.
- Eiswerth, M., Darden, T., Johnson, W. S., Agapoff, J., Harris, T. R. (2005). Input-output modeling, outdoor recreation, and the economic impacts of weeds. *Weed Science*, 53(1), 130-137.
- Yen, S. T., Shaw, W. D., Eiswerth, M. (2004). Asthma Patients' Activities and Air Pollution: A Semiparametric Censored Regression Analysis. *Review of Economics of the Household*, 2(1), 73-88.
- Eiswerth, M., Johnson, W. S., Agapoff, J., Darden, T. D., Harris, T. R. (2002). Estimating Economic Damages of Non-indigenous Invasive Weeds on Recreation Using Three Analytical Approaches. *Shannon Books*, 744-747.
- Eiswerth, M., Johnson, W. S. (2002). Managing Nonindigenous Invasive Species: Insights from Dynamic Analysis. *Environmental and Resource Economics*, 23(3), 319-342.
- Eiswerth, M., van Kooten, G. C. (2002). Uncertainty, economics, and the spread of an invasive plant species. *American Journal of Agricultural Economics*, 84(5), 1317-1322.
- Shaw, W. D., Eiswerth, M., Huszar, E. (2001). Environmental Damages from Gold Mining: Application to the Humboldt River Watershed and Implications for Europe. *Revista Economica de Catalunya*, 70-78.
- Eiswerth, M., Haney, J. C. (2001). Maximizing conserved biodiversity: why ecosystem indicators and thresholds matter. *Ecological Economics*, 38(2), 259-274.
- Eiswerth, M., Donaldson, S. G., Johnson, W. S. (2000). Potential Environmental Impacts and Economic Damages of Eurasian Watermilfoil (*Myriophyllum spicatum*) in Western Nevada and Northeastern California. *Weed Technology*, 14(3), 511-518.
- Eiswerth, M., Englin, J., Fadali, E., Shaw, W. D. (2000). The value of water levels in water-based recreation: A pooled revealed preference/contingent behavior model. *Water Resources Research*, 36(4), 1079-1086.
- Eiswerth, M., Abendroth, K. W., Ciliano, R. E., Ouerghi, A., Ozog, M. T. (1998).

Residential electricity use and the potential impacts of energy efficiency options in Pakistan. *Energy Policy*, 26(4), 307-315.

Eiswerth, M., Shaw, W. D. (1997). Adjusting benefits transfer values for inflation. *Water Resources Research*, 33(10), 2381-2385.

Eiswerth, M. (1993). Using Dynamic Optimization for Integrated Environmental Management: An Application to Solvent Waste Disposal. *Land Economics*, 69(2), 168-180.

Haney, J. C., Eiswerth, M. (1992). Allocating conservation expenditures: accounting for inter-species genetic distinctiveness. *Ecological Economics*, 5(3), 235-249.

Haney, J. C., Eiswerth, M. (1992). The Plight of Cranes: A Case Study for Conserving Biodiversity. *Proc. North Am. Crane Workshop* 6, 12-19.

Eiswerth, M. (1990). Integrated Environmental Management and Land-Based Pollution in the East Asian Seas. *Tropical Coastal Area Management* 53, 6-9.

Eiswerth, M. (1990). Working Group Targets Attention on Marine Biological Diversity. *BioScience*, 40(7), 549.

Book Chapter

Eiswerth, M. E., Epanchin-Niell, R., Rollins, K., Taylor, M. (2016). Economic Modeling and the Management of Exotic Annual Bromus Species: Accounting for Ecosystem Dynamics, Ecological Thresholds, and Spatial Interdependencies. In M.J. Germino, J.C. Chambers, and C.S. Brown (Ed.), *Exotic Brome-Grasses in Arid and Semi-arid Ecosystems of the Western U.S.: Causes, Consequences, and Management Implications* (pp. Chapter 15 (pp. 429-456)). New York, NY: Springer Publishing.

Eiswerth, M. E., Schoengold, K., Shrestha, P. (2014). The joint impact of drought conditions and media coverage on the Colorado rafting industry. *Climate Variability and Water Dependent Sectors: Impacts and Potential Adaptations* (Dannele E. Peck and Jeffrey M. Peterson editions ed., pp. 132 pages). Oxford: Routledge Publishing.

Eiswerth, M., Thornton, J., Slawski, T. M. (2009). Rehabilitation of Delavan Lake (USA). *Water Security and Ecosystem Services: The Critical Connection: Ecosystem Management Case Studies* (pp. 17-20). Nairobi: United Nations Environment Programme.

Eiswerth, M., Englin, J., Fadali, E., Douglass-Shaw, W. (2007). The value of water levels in water-based recreation: a pooled revealed preference/contingent behavior model. In Richard T. Carson (Ed.), *The Stated Preference Approach to Environmental Valuation: Applications: Benefit-Cost Analysis and Natural Resource Damage Assessment* (vol. 3). Aldershot: Ashgate Publishing Limited.

Eiswerth, M. (1993). Regulatory/Economic Instruments for Agricultural Pollution: Accounting for Input Substitution. In Clifford S. Russell and Jason F. Shogren (Ed.), *Theory, Modeling, and Experience in the Management of Nonpoint Source Pollution* (pp. 69-90). Norwell: Kluwer Academic Publishers.

Article in Oxford Research Encyclopedia

Eiswerth, M. E., Lawley, C., Taylor, M. H. (in press). Economics of Invasive Species. In J.R. Kahn, D. Biller, and J. Whitehead (Ed.), *Oxford Research Encyclopedia of*

Environmental Economics. New York, NY: Oxford University Press.

Conference (Full Paper) Proceeding

- Eiswerth, M., Johnson, W. S., Agapoff, J., Darden, T. D., Harris, T. R. (2002). Estimating Economic Damages of Non-indigenous Invasive Weeds on Recreation Using Three Analytical Approaches. In H. Spafford Jacob, J. Dodd, and J.H. Moore (Ed.), *13th Australian Weeds Conference Papers and Proceedings* (pp. 744-747). Melbourne, Victoria: Shannon Books.
- Eiswerth, M., Abendroth, K. W., Ciliano, R., Ouerghi, A., Ozog, M. T. (1993). A Study of Residential Load Determinants and Potential DSM Impacts in a Developing Country: Pakistan. *Proceedings of the Second International Energy Efficiency & DSM Conference* (pp. 487-493). Stockholm:.

Technical Report

- Eiswerth, M., Johnson, W. S., Agapoff, J., Darden, T. D., Harris, T. R. (2005). *Economic Impacts from the Effects of Invasive Weeds on Outdoor Recreation: An Input-Output Model: University of Nevada Cooperative Extension Special Publication* (pp. 6). Reno, Nevada: University of Nevada.
- Eiswerth, M., Johnson, W. S., Agapoff, J., Darden, T. D., Harris, T. R. (2003). *Estimating Net Losses in Recreation Use Values from Non-Indigenous Invasive Weeds: University of Nevada Cooperative Extension Special Publication SP-03-10* (pp. 7). Reno, Nevada: University of Nevada.
- Eiswerth, M., Johnson, W. S., Lewis, S., Hughes, L. (2001). *The Economic Costs of Delaying Invasive Weed Control: An Illustration Based on Nevada's Tall Whitetop Initiative: University of Nevada Cooperative Extension Special Publication SP-01-08* (pp. 6). Reno, Nevada: University of Nevada.
- Zimmerman, J., Johnson, W. S., Eiswerth, M. (2001). *Yellow Starthistle Control in Nevada: An Integrated Approach to Invasive Weed Management: University of Nevada Cooperative Extension Special Publication SP-01-16* (pp. 12). Reno, Nevada: University of Nevada.

Non-juried

Journal Article

- Breffle, W., Eiswerth, M., Muralidharan, D., Thornton, J. (2015). Understanding How Income Influences Willingness to Pay for Joint Programs: A More Equitable Value Measure for the Less Wealthy. *Ecological Economics*, 109, 17-25.
- Smith, E. G., Eiswerth, M., Veeman, T. S. (2010). Current and Emerging Water Issues in Agriculture: An Overview. *Canadian Journal of Agricultural Economics*, 58(4), 403-409.
- Eiswerth, M., Goggin, P., Kane, T., Korth, R., Lyden, T., Solomon, J. (2008). Towns of Delta and Iron River Lakes Survey Estimates Citizen Perceptions and Reactions to Aquatic Invasive Species (AIS). *Wisconsin Association of Lakes*, 4.

Book Chapter

- Eiswerth, M. (1996). Biodiversity. Appendix B. *Economic Evaluation of Environmental*

Impacts (pp. 303). Manila: Asian Development Bank.

Eiswerth, M. (1994). Environmental Protection for the Arctic Ocean. In J.M. Broadus and R.V. Vartanov (Ed.), *The Oceans and Environmental Security: Shared U.S. and Russian Perspectives* (pp. 328). Washington, DC: Island Press.

Eiswerth, M. (1994). Land-based Marine Pollution: The Gulf of Mexico and the Black Sea. In J.M. Broadus and R.V. Vartanov (Ed.), *The Oceans and Environmental Security: Shared U.S. and Russian Perspectives* (pp. 328). Washington, DC: Island Press.

Book Review

Eiswerth, M. (2011). *Bioinvasions and Globalization: Ecology, Economics, Management, and Policy* (4th ed., vol. 3, pp. 415-416). Journal of Natural Resources Policy Research.

Conference (Full Paper) Proceeding

Eiswerth, M., Englin, J., Fadali, E., Shaw, W. D. (1999). The Value of Water Levels in Water-based Recreation: A Pooled Revealed Preference/Contingent Behavior Model. *Proceedings of the 1999 W-133 Western Regional Research Project Technical Meeting on "Benefits and Costs of Resource Policies Affecting Public and Private Land"*.

Eiswerth, M., Holis, M., Mitchell, D., Whitcomb, J. (1997). Water Savings from the Installation of Ultra-Low-Flush Toilets in Commercial, Industrial, and Institutional Settings. *Proceedings of the 1997 Annual Conference of the American Water Works Association* (pp. 173-175).

Technical Report

Eiswerth, M. (2011). *Community Questionnaire Survey: Chapter III in A Lake Protection Plan for Cravath and Trippe Lakes, Walworth County, Wisconsin. Southeastern Wisconsin Regional Planning Commission Memorandum Report No. 191*. Waukesha, Wisconsin: Southeastern Wisconsin Regional Planning Commission.

Barton, K., Diggs, D., Dunn, J., Eiswerth, M., Jurin, R., Livingston, M. (2011). *University of Northern Colorado Qualifications in Water Resources Research* (pp. 11). Greeley, Colorado: University of Northern Colorado.

Peterson, P., Eiswerth, M., Thornton, J. (2010). Summary Statistics from the Trippe and Cravath Lakes Survey. *Prepared for the Wisconsin Department of Natural Resources and City of Whitewater, Wisconsin* (pp. 12). Waukesha, Wisconsin: Southeastern Wisconsin Regional Planning Commission and University of Wisconsin.

Eiswerth, M., Goggin, P., Kane, T., Korth, R., Lyden, T., Solomon, J. (2009). Wisconsin lakes under siege: Learning how local citizens perceive the threat of aquatic invasive species. *Community, Natural Resources and Economic Development Impact Report* (pp. 2). Madison, Wisconsin: University of Wisconsin Cooperative Extension.

Compas, E., Eiswerth, M., Ejnik, J., Eshelman, B., Harrahy, E., House, P., Jacobs, P., Jeffery, T., Splinter, D. (2008). UW-Whitewater Directions in Water Resources Research. *Submitted to Milwaukee 7 Water Council* (pp. 14). Whitewater, Wisconsin: University of Wisconsin – Whitewater.

- Kashian, R., Eiswerth, M., Skidmore, M. (2007). Geneva Lake Watershed Survey. *Prepared for the Geneva Lake Conservancy* (pp. 43). Whitewater, Wisconsin: Fiscal and Economic Research Center, University of Wisconsin – Whitewater.
- Eiswerth, M. (2007). National Facilitation Project: Energy Independence, Bioenergy Generation and Environmental Sustainability. *Development of Assessment and Evaluation Protocols for Bioenergy Generation* (pp. 11). Madison, Wisconsin: University of Wisconsin Cooperative Extension.
- Eiswerth, M., Kashian, R., Skidmore, M. (2005). What is the Value of a Clean and Healthy Lake to a Local Community? *Prepared for Delavan Lake Improvement Association and University of Wisconsin – Extension* (pp. 80). Whitewater, Wisconsin: Fiscal and Economic Research Center, University of Wisconsin – Whitewater.
- Kadmas, T., Johnson, W. S., Eiswerth, M., Coca, M. (2003). The Estimated Costs of Treating Invasive Weeds in Elko County, Nevada. *University of Nevada Cooperative Extension Fact Sheet FS-03-41* (pp. 4). Reno, Nevada: University of Nevada.
- Zimmerman, J. R., Johnson, W. S., Eiswerth, M. (2002). Medusahead: Economic Impact and Control in Nevada. *University of Nevada Cooperative Extension Fact Sheet FS-02-37* (pp. 4). Reno, Nevada: University of Nevada.
- Zimmerman, J. R., Eiswerth, M., Singletary, L., Johnson, W. S. (2002). Net economic benefits of perennial pepperweed (*Lepidium latifolium* L.) management. *13th Australian Weeds Conference Papers and Proceedings, Plant Protection Society of WA Inc* (pp. 748). Melbourne, Victoria: Shannon Books.
- Harris, T. R., Darden, T. D., Eiswerth, M. (2002). Walker River Basin Extended Environmental Impact Statement. *Analyses conducted and report sections provided for various components of the overall EIS*. U.S. Bureau of Land Management.
- Eiswerth, M. (2000). Livestock Grazing and Recreational Use Losses due to Invasive Plants and Weeds in Nevada. *Draft report submitted as input for white paper to be presented to the Governor of Nevada* (pp. 24).
- Eiswerth, M. (2000). Working Group on Invasive Plant and Weed Impacts on Rangeland Carrying Capacity. *Report for RREA Grant 1505-151-5120 Submitted to Nevada Cooperative Extension Rangeland Natural Resources Committee*.
- Eiswerth, M., Rowe, R. D. (1998). Assessment of Recreation Use Damages for the Guadalupe Natural Resource Damage Assessment Case. *Prepared for California Department of Fish and Game, Office of Oil Spill Prevention and Response*. Boulder, Colorado: Hagler Bailly, Inc.
- Barron, M., Eiswerth, M., Podrabsky, T., Ottem, T., Welsh, M., Lipton, J., Rowe, R. D. (1998). Confidential assessment of natural resource injuries and damages at a Southern U.S. riparian site. *Prepared for U.S. Department of Justice*. Boulder, Colorado: Hagler Bailly, Inc.
- Wellman, T., Eiswerth, M., Grant, T., Mills, D., Morris, F., Raucher, R., Thom, R. (1997). Economic Analysis Related to Remediation of Contaminated Sediments on State-Owned Aquatic Lands. *Prepared for the State of Washington Department of Natural Resources*. Seattle, Washington and Boulder, Colorado: Battelle Seattle Research Center and Hagler Bailly, Inc.

- Whitcomb, J., Eiswerth, M. (1997). The CII ULFT Water Savings Study. *Prepared for the California Urban Water Conservation Council*. San Francisco, California: Hagler Bailly, Inc.
- Ozog, M. T., Eiswerth, M., Abendroth, K. W. (1996). Impact Evaluation of the Energy Initiative Program. *Final report prepared for New England Power Service Company*. Boulder, Colorado: Hagler Bailly, Inc.
- Eiswerth, M., Rowe, R. D. (1996). Preliminary analysis of recreation data for the Guadalupe natural resource damage assessment case. *Prepared for California Department of Fish and Game, Office of Oil Spill Prevention and Response*. Boulder, Colorado: Hagler Bailly, Inc.
- Eiswerth, M., Jeppesen, J., Stern, F. (1995). Montana Power Company Commercial Lighting Program Impact and Process Evaluation. *Final report prepared for Montana Power Company*. Boulder, Colorado: RCG/Hagler Bailly, Inc.
- Cooney, K., Eiswerth, M., Neal, B., Stern, F. (1994). Impact and Process Evaluations of Montana Power Company's Low-income Weatherization Program. *Final report prepared for Montana Power Company*. Boulder, Colorado: RCG/Hagler Bailly, Inc.
- Eiswerth, M., Abendroth, K. W., Calhoun, R. C. (1993). Persistence of Savings Study for Northeast Utilities' SPECTRUM Single Family Electric Heat Program. *Final report prepared for Northeast Utilities Service Company*. Boulder, Colorado: RCG/Hagler Bailly, Inc.
- Eiswerth, M., Ciliano, R., Abendroth, K. W. (1993). Residential Electricity Consumption Study: Analysis of Load Profiles and Determinants of Household Demand. *Final report prepared for the World Bank and the Government of Pakistan Energy Wing* (pp. 145). Boulder, Colorado: RCG/Hagler Bailly, Inc.
- Raucher, R. S., Eiswerth, M., Dixon, A. M., Trabka, E., Hormell, M. (1992). Benefit-cost Analysis for the Management Measures Guidance for Nonpoint Source Controls in Coastal Watershed Areas. *Final report prepared for the Office of Water, U.S. Environmental Protection Agency*. Boulder, Colorado: RCG/Hagler Bailly, Inc.
- Broadus, J. M., Eiswerth, M., Kaoru, Y., Ketcham, R., Leschine, T., Segerson, K., Swanson, L., Tietenberg, T. (1991). Economic and Legal Research. *An Abyssal Ocean Option for Waste Management* (pp. 57-67).
- Broadus, J. M., Eiswerth, M., Kaoru, Y. (1990). Economics and the State of the Marine Environment. *Completed for the United Nations Joint Group of Experts on the Scientific Aspects of Marine Pollution (GESAMP), as input for: GESAMP. The State of the Marine Environment. UNEP Regional Seas Reports and Studies No. 115*. UNEP.
- Eiswerth, M. (1990). Overview of the Current Status of the Global Ocean Environment: Pollution, Economics, and Law. *Prepared for Joint Workshop between Woods Hole Oceanographic Institution and the Institute of World Economy and International Relations, Soviet Academy of Sciences*. Woods Hole, Massachusetts: Woods Hole Oceanographic Institution.
- Broadus, J. M., Eiswerth, M., Gjerde, K. M., Kaoru, Y. (1990). WA 18 Phase II Report. Analysis of a Proposed Global Convention for Land-Based Sources of Marine Pollution. *Prepared for U.S. Environmental Protection Agency*. Woods Hole, Massachusetts: Woods Hole Oceanographic Institution.

Eiswerth, M. (1985). Financial Strength and 1985 Asbestos Hazards Abatement Assistance Program Aid: A Profile Across Local Educational Agency Population Categories. *Prepared for Office of Toxic Substances, U.S. Environmental Protection Agency*. Washington, DC:.

Eiswerth, M. (1985). Qualitative Analysis of Major End-Use Markets for Chlorinated Solvents. *Prepared for Office of Toxic Substances, U.S. Environmental Protection Agency*. Washington, DC:.

Eiswerth, M. (1985). The Sensitivity of 1985 Asbestos Hazards Abatement Assistance Program Awards to Changes in Financial Burden Parameters. *Prepared for Office of Toxic Substances, U.S. Environmental Protection Agency*. Washington, DC:.

Working Paper

Eiswerth, M. E., van Kooten, G. C. (2017). Maximizing Returns from Payments for Ecosystem Services: Incorporating Externality Effects of Land Management. *Resource Economics and Policy Analysis Research Group Working Paper 2017-06* (pp. 34 pages). Department of Economics, University of Victoria.
[HTTP://WWW.WEB.UVIC.CA/~REPA/PUBLICATIONS/REPA%20WORKING%20PERS/WORKINGPAPER2017-06.PDF](http://www.web.uvic.ca/~repa/publications/repa%20working%20papers/workingpaper2017-06.pdf)

Other Publications

Auton, A., Eiswerth, M., Johnson, W. S., Kadrmas, K. (2000). Invasive Weed Impacts on Habitat Carrying Capacity: Results of an Expert Judgment Survey. *Abstract published in: Proceedings of the Second National Extension Natural Resources Conference* (pp. 63). South Lake Tahoe, Nevada:.

Eiswerth, M., Donaldson, S., Johnson, W. S. (2000). Potential Impacts of Eurasian Watermilfoil, with Emphasis on Northern Nevada and Northeastern California. *Abstract published in: Proceedings of the Second National Extension Natural Resources Conference* (pp. 67). South Lake Tahoe, Nevada:.

Professional Presentations

Invited

Non-juried

Eiswerth, M. E. (Presenter), Annual Meeting of the USDA Cooperative State Research, Education and Extension Service Multistate Regional Research Project on Management and Policy Challenges in a Water-Scarce World (W-3190), "State Report: Colorado," Lincoln, Nebraska. (October 13, 2016).

Not Invited

Juried

Eiswerth, M. E. (Author & Presenter), 2017 Annual Water Resources Conference of the American Water Resources Association, "Enhancing Benefits from Payments for Water-based Ecosystem Services by Accounting for Spillover Impacts," American Water Resources Association, Portland, Oregon. (November 9, 2017).

Eiswerth, M. E. (Author & Presenter), Joint Meetings of the Canadian Agricultural

Economics Society and Western Agricultural Economics Association, "Maximizing Returns from Payments for Ecosystem Services: Incorporating Cross-Land Manager External Effects," Canadian Agricultural Economics Society and Western Agricultural Economics Association, Victoria, British Columbia, Canada. (June 23, 2016).

Breffle, W., Eiswerth, M., Muralidharan, D., Thornton, J., 89th Annual Conference of the Western Economic Association International, "Understanding How Income Influences Willingness to Pay for Joint Programs: A More Equitable Value Measure for the Less Wealthy," Denver, Colorado. (June 30, 2014).

Skidmore, M., Anderson, G., Eiswerth, M., 2013 Annual Meetings of the American Economic Association, "The Child Adoption Marketplace: Parental Preferences and Adoption Outcomes," San Diego, California. (January 6, 2013).

Muralidharan, D., Breffle, W., Eiswerth, M., Thornton, J., 32nd International Symposium of the North American Lake Management Society, "Economic Values for Lake Improvement: Using a Method to Better Reflect the Preferences of Less Wealthy Residents," Madison, Wisconsin. (November 7, 2012).

Eiswerth, M., Breffle, W., Banerjee, A., 2010 Conference on Pathways to Success: Integrating Human Dimensions into Fisheries and Wildlife Management, "Improving Estimates of Consumer Surplus by Purging Income Effects for the Less Wealthy: Indirect Measures of Willingness to Accept," Estes Park, Colorado. (October 1, 2010).

Abbott, B., van Kooten, G. C., Eiswerth, M., Agricultural and Applied Economics Association Annual Meeting, "Can Domestication of Wildlife Lead to Conservation? The Economics of Tiger Farming in China," Denver, Colorado. (July 26, 2010).

Eiswerth, M., Peterson, P., van Kooten, G. C., Agricultural and Applied Economics Association Annual Meeting, "Balancing Bioenergy Cropping Benefits and Water Quality Impacts: A Dynamic Optimization Approach," Milwaukee, Wisconsin. (July 27, 2009).

Eiswerth, M., van Kooten, G. C., 17th Annual Conference of the European Association of Environmental and Resource Economists, "Balancing Bioenergy Cropping Benefits and Water Quality Impacts: A Dynamic Optimization Approach," Amsterdam, The Netherlands. (June 26, 2009).

Eiswerth, M., Kane, T., Korth, R., Solomon, J., 31st Annual Wisconsin Lakes Convention, "Determinants of Knowledge and Awareness of Aquatic Invasive Species," Green Bay, Wisconsin. (March 19, 2009).

Eiswerth, M., Goggin, P., Kane, T., Korth, R., Solomon, J., North American Lake Management Society 2008 International Symposium, "Citizen Perceptions and Reactions to Aquatic Invasive Species on the Pike Lake Chain of Lakes, Bayfield County, Wisconsin, U.S.A.," Lake Louise, Alberta, Canada. (November 11, 2008).

Eiswerth, M., Kane, T., Korth, R., Solomon, J., 30th Annual Wisconsin Lakes Convention, "Citizen Perceptions and Reactions to Aquatic Invasive Species," Green Bay, Wisconsin. (April 18, 2008).

Eagle, A. J., Eiswerth, M., Johnson, W. S., Schoenig, S., van Kooten, G. C., Plenary Session of the 60th Annual Conference of the California Weed Science Society, "Costs and Losses Imposed on California Ranchers by Yellow Starthistle," Monterey, California. (January 28, 2008).

- van Kooten, G. C., Eiswerth, M., American Agricultural Economics Association Annual Meeting, "The Ghost of Extinction: Preservation Values and Minimum Viable Population in Wildlife Models," Portland, Oregon. (July 29, 2007).
- Eiswerth, M., van Kooten, G. C., Lines, J. M., Canadian Agricultural Economics Society Workshop, "Dynamic Programming and Learning Models for Management of a Nonnative Species," Calgary, Alberta. (October 15, 2006).
- Eagle, A. J., Eiswerth, M., Johnson, W. S., Schoenig, S. E., van Kooten, G. C., 15th Annual Symposium of the California Invasive Plant Council, "Economic Impacts of Yellow Starthistle on California Ranchers," Rohnert Park, California. (October 5, 2006).
- Kashian, R., Eiswerth, M., Skidmore, M., 2005 Annual Conference on Taxation, "The Influence of Water Quality on the Value of Residential Real Estate Adjacent to Delavan Lake," National Tax Association, Miami, Florida. (November 17, 2005).
- Eiswerth, M., Kashian, R., Knipper, M., Skidmore, M., North American Lake Management Society 2005 International Symposium, "Assessing the Economic Value of a Clean Lake to a Local Community: Delavan Lake Case Study," Madison, Wisconsin. (November 9, 2005).
- Eiswerth, M., van Kooten, G. C., Lines, J. M., Eagle, A. J., Annual Conference of the Western Agricultural Economics Association, "Dynamic Programming and Learning Models for Management of a Nonnative Species," San Francisco, California. (July 7, 2005).
- Eiswerth, M., Kashian, R., Skidmore, M., Presented at the 27th Annual Wisconsin Lakes Convention, "Water Quality and the Local Economy: A Study of Delavan Lake," Green Bay, Wisconsin. (April 29, 2005).
- Eiswerth, M., Kashian, R., Skidmore, M., Annual Conference of the Southern Regional Science Association and Mid-Continent Regional Science Association, "The Economic Value of Lake Water Quality Changes: An Input/Output Approach," Arlington, Virginia. (April 9, 2005).
- Eiswerth, M., Kashian, R., Skidmore, M., Annual Conference of the Southern Regional Science Association and Mid-Continent Regional Science Association, "The Influence of Water Quality on the Value of Residential Real Estate Adjacent to Delavan Lake," Arlington, Virginia. (April 9, 2005).
- Eiswerth, M., Kashian, R., Skidmore, M., "Contingent Behavior Analysis Applied to Changes in the Quality of a Wisconsin Lake," Annual Conference of the Southern Regional Science Association and Mid-Continent Regional Science Association, Arlington, Virginia. (April 9, 2005).
- Eiswerth, M., van Kooten, G. C., Lines, J. M., Eagle, A. J., Midwest Economics Association Annual Meetings, "Decision Making Models for Management of a Nonnative Species: A California Case Study," Milwaukee, Wisconsin. (March 12, 2005).
- van Kooten, G. C., Eagle, A. J., Eiswerth, M., Feng, H., American Agricultural Economics Association Annual Meeting, "Anthropogenic and Natural Determinants of the Population of a Sensitive Species: Sage Grouse in Nevada," Denver, Colorado. (August 4, 2004).

Eagle, A. J., Eischerth, M., van Kooten, G. C., Mid-Continent Regional Science Association Annual Conference, "Alien Invaders: The Economic Costs of Yellow Starthistle on California Rangelands," Madison, Wisconsin. (June 4, 2004).

Darden, T. D., Eischerth, M., Harris, T. R., 45th Annual Conference of the Western Social Science Association, "Estimating the Regional Economic Impacts of an Interbasin Water Transfer," Las Vegas, Nevada. (April 10, 2003).

Yen, S., Shaw, D., Eischerth, M., 54th International Atlantic Economic Conference, "Adverse Health Effects of Air Pollution: Revisiting the Data," Washington, DC. (October 11, 2002).

Eischerth, M., van Kooten, G. C., Annual Meetings of the American Agricultural Economics Association, "Uncertainty, Economics and the Spread of an Invasive Plant Species," Long Beach, California. (July 30, 2002).

Eischerth, M., van Kooten, G. C., 77th Annual Conference of the Western Economic Association International, "Uncertainty, Economics and the Spread of an Invasive Plant Species," Seattle, Washington. (July 1, 2002).

Non-juried

Eischerth, M. E., Hansen, K., Paige, G., Laituri, M., 2015 Annual Water Resources Conference of the American Water Resources Association, "Payments for Water-based Ecosystem Services: Current Challenges and Lessons Learned," Denver, Colorado. (November 16, 2015).

Eischerth, M. E., 2015 Annual Water Resources Conference of the American Water Resources Association, "Value of Ecosystem Services," Denver, Colorado. (November 16, 2015).

Eischerth, M. E. (Presenter), Annual Meeting of the USDA Cooperative State Research, Education and Extension Service Multistate Regional Research Project on Management and Policy Challenges in a Water-Scarce World (W-3190), "State Report: Colorado," Salt Lake City, Utah. (October 30, 2015).

Eischerth, M. E. (Presenter), Annual Meeting of the USDA Cooperative State Research, Education and Extension Service Multistate Regional Research Project on Management and Policy Challenges in a Water-Scarce World (W-3190), "State Report: Colorado," Gainesville, Florida. (October 24, 2014).

Eischerth, M. E. (Presenter), Annual Meeting of the USDA Cooperative State Research, Education and Extension Service Multistate Regional Research Project on Water Policy and Management Challenges in the West (W-2190), "State Report: Colorado," Salt Lake City, Utah. (October 25, 2013).

Eischerth, M. E. (Presenter), Schoengold, K. (Presenter), Shrestha, P. (Presenter), Interdisciplinary Water Resources Seminar, "The joint impact of drought conditions and media coverage on the Colorado rafting industry," Colorado State University, Fort Collins, Colorado. (April 17, 2013).

Eischerth, M., Schoengold, K., Shrestha, P., Interdisciplinary Water Resources Seminar, "The joint impact of drought conditions and media coverage on the Colorado rafting industry," Colorado State University, Fort Collins, Colorado. (April 17, 2013).

Eiswerth, M. E. (Presenter), Eiswerth, M. E. (Moderator), Pilot UNC Community Conversation, "Searching for Colorado's Water Future," University of Northern Colorado, Greeley, Colorado. (November 14, 2012).

Eiswerth, M., Pilot UNC Community Conversation, "Searching for Colorado's Water Future," University of Northern Colorado, Greeley, Colorado. (November 14, 2012).

Eiswerth, M. E. (Presenter), Annual Meeting of the USDA Cooperative State Research, Education and Extension Service Multistate Regional Research Project on Water Policy and Management Challenges in the West (W-2190), "State Report: Colorado," Riverside, California. (October 19, 2012).

Eiswerth, M., Annual Meeting of the USDA Cooperative State Research, Education and Extension Service Multistate Regional Research Project on Water Policy and Management Challenges in the West (W-2190), "State Report: Colorado," Riverside, California. (October 19, 2012).

Eiswerth, M., "Allocating Water in the Colorado River Basin: How Would You Change the Rules if You Could?," One Day University, Union Colony Civic Center, Greeley, Colorado. (July 28, 2012).

Eiswerth, M. E. (Presenter), One Day University, "Allocating Water in the Colorado River Basin: How Would You Change the Rules if You Could?," Union Colony Civic Center, Greeley, Colorado. (July 28, 2012).

Eiswerth, M., Annual Meeting of the USDA Cooperative State Research, Education and Extension Service Multistate Regional Research Project on Water Policy and Management Challenges in the West (W-2190), "State Report: Colorado," El Paso, Texas. (October 14, 2011).

Eiswerth, M., van Kooten, G. C., Fall 2010 Seminar Series of the Department of Agricultural and Resource Economics, "Balancing Bio-energy Cropping Benefits and Water Quality Impacts: A Dynamic Optimization Approach," Colorado State University, Fort Collins, Colorado. (October 20, 2010).

Eiswerth, M., Goemans, C., Annual Meeting of the USDA Cooperative State Research, Education and Extension Service Multistate Regional Research Project on Water Policy and Management Challenges in the West (W-2190), "State Report: Colorado," Fort Collins, Colorado. (October 14, 2010).

Eiswerth, M., Rural Economy and Renewable Energy Conference, "Assessing the Potential Environmental Impacts of Bioenergy: Where Do We Start?," Rocky Mountain Farmers Union and Colorado Governor's Energy Office, Greeley, Colorado. (November 14, 2009).

Eiswerth, M., Program of Research on the Economics of Invasive Species Management, Economic Research Service, "Comments on Integrated Epidemic-Economic Modeling and Analysis of Preparedness and Response to Hypothetical Avian Influenza Outbreak in Texas; Incentives for Individual and Cooperative Management of a Mobile Pest: The Olive Fruit Fly in California; A Bioeconomic Model to Predict Livestock Disease Movement," U.S. Department of Agriculture, Washington, DC. (October 23, 2009).

Eiswerth, M., Annual Meeting of the USDA Cooperative State Research, Education and Extension Service Multistate Regional Research Project on Water Policy and Management Challenges in the West (W-2190), "State Report: Wisconsin," Portland,

- Oregon. (October 9, 2009).
- Eiswerth, M., Water Summit III, "What Do Economists Have to Say about the Public Good Values of Water?: A Look at Two Examples," Milwaukee 7 Water Council, Milwaukee, Wisconsin. (July 20, 2009).
- Eiswerth, M., Board of the Delavan Lake Improvement Association, "Examining Angler Net Benefits Using Contingent Behavior Modeling: Delavan Lake, Wisconsin," Delavan, Wisconsin. (June 8, 2009).
- Eiswerth, M., Workshop on Aquatic Invasive Species, "Looking for Clues – Public Reactions to Aquatic Invasive Species: Perceptions and Economics," Milwaukee, Wisconsin. (February 16, 2008).
- van Kooten, G. C., Eiswerth, M., "The Ghost of Extinction: Preservation Values and Minimum Viable Population in Wildlife Models," Northern Arizona University, Flagstaff, Arizona. (February 15, 2008).
- Eiswerth, M. (Coordinator/Organizer), Workshop on Energy Independence, Bioenergy Generation and Environmental Sustainability, Madison, Wisconsin. (December 19, 2007).
- Eiswerth, M. (Author & Presenter), "Benefits of Public Investment in Clean Water: A Study of Delavan Lake, Wisconsin," Department of Agricultural and Resource Economics, Colorado State University, Fort Collins, Colorado. (February 23, 2007).
- Eiswerth, M., Meeting of the Senior Advisory Group of the Center for Community Economic Development, "Overview of the Fiscal and Economic Research Center," University of Wisconsin – Extension, Madison, Wisconsin. (December 5, 2006).
- Eiswerth, M., Earth Day Program, "Economic Benefits of Nature," University of Wisconsin, Whitewater, Wisconsin. (April 20, 2006).
- Eiswerth, M., Kashian, R., Skidmore, M., Invited assembly of approximately 70 public officials and stakeholders, "What Is the Value of a Clean and Healthy Lake to a Local Community?," Delavan, Wisconsin. (March 11, 2005).
- Eiswerth, M., "Some Current Trends in Agriculture and Economics," University of Wisconsin-Whitewater, Whitewater, Wisconsin. (April 18, 2004).
- Eiswerth, M., Fairhaven Lecture Series, "The Economics of Biological Invasions," Whitewater, Wisconsin. (February 23, 2004).
- Johnson, W. S., Eiswerth, M., van Kooten, G. C., Eagle, A., Range Improvement Committee of the California Cattlemen's Association, Annual Midwinter Meetings, "Second Interim Progress Report: Yellow Starthistle Survey on Impacts to CA Agriculture," Reno, Nevada. (November 20, 2003).
- Johnson, W. S., Eiswerth, M., Rangeland and invasive weeds meeting, "Economic Losses from Invasive Weeds in Elko County, Nevada," Elko, Nevada. (October 2003).
- Eiswerth, M., Johnson, W. S., van Kooten, G. C., Range Improvement Committee and Water Quality Committee of the California Cattlemen's Association, "First Interim Progress Report: Yellow Starthistle Survey on Impacts to California Agriculture," Rancho Cordova, California. (July 10, 2003).

- Eiswerth, M., Zimmerman, J. R., Singletary, L., Johnson, W. S., "Benefit/Cost Analysis and Payback Periods for Controlling Perennial Pepperweed (*Lepidium latifolium*): A Case Study along the West Walker River," Nevada State Conservation Commission, Reno, Nevada. (March 5, 2003).
- Eiswerth, M., "Economics of Managing Biological Invasions: Dynamics and Uncertainty," University of Wisconsin – Oshkosh, Oshkosh, Wisconsin. (February 10, 2003).
- Eiswerth, M., "Agricultural Impacts from Yellow Starthistle in California: Economic Losses and Optimal Management," California State University – Stanislaus, Turlock, California. (January 29, 2003).
- Eiswerth, M., Johnson, W. S., Joint Meeting of the Sacramento Valley and San Joaquin Valley Agricultural Commissioners and Sealers, "Economic Losses from Yellow Starthistle in California: A Proposed Draft Producer Survey," Stockton, California. (December 2002).
- Eiswerth, M., Johnson, W. S., Presented at the Range Improvement Committee of the California Cattlemen's Association, "Economic Losses from Yellow Starthistle in California," Sacramento, California. (November 21, 2002).
- Eiswerth, M., van Kooten, G. C., Round Table Planning Session on the Economics and Trade Implications of Invasive Pests and Diseases, "A Decision Support Tool for Nonnative Invasive Species Management Under Uncertainty: Preliminary Results," University of Florida, Gainesville, Florida. (November 15, 2002).
- Eiswerth, M., "Two Tools for Assessing Societal Impacts of Extreme Weather," National Center for Atmospheric Research, Environmental and Societal Impacts Group, Boulder, Colorado. (June 13, 2002).

GRANTS

Funded

- Eiswerth, M. (Principal), VanDriel, M., "Assessing Opportunities for Energy Efficiency in Colorado Agriculture," Sponsored by Summer Support Initiative, University of Northern Colorado, \$4,874.00. (2010 - 2011).
- Eiswerth, M. (Principal), Thornton, J. (Principal), "Wisconsin Lake Management Planning Program for Cravath and Trippe Lakes, Walworth County," Sponsored by Wisconsin Department of Natural Resources and City of Whitewater, Wisconsin, \$16,250.00. (2009 - 2011).
- Eiswerth, M. (Principal), Shepard, R. (Co-Principal), Miller, G. (Co-Principal), "Energy Independence, Bioenergy Generation and Environmental Sustainability: The Role of a 21st Century Engaged University," Sponsored by U.S. Department of Agriculture, National Integrated Water Quality Program, Federal, \$400,000.00. (2007 - 2011).
- Eiswerth, M. (Principal), "Development of the University of Wisconsin-Extension Website: Welcome to the World of Economic Values and Water: What is a Lake Worth?," Sponsored by University of Wisconsin-Extension and Burnett County, Wisconsin, \$2,500.00. (2007 - 2009).
- Eiswerth, M. (Principal), "Strategic Planning for the Fiscal and Economic Research Center," Sponsored by Office of Graduate Studies and Continuing Education, University of Wisconsin

- Whitewater, \$6,000.00. (2008).
- Eiswerth, M. (Principal), Korth, B. (Supporting), Lyden, T. (Supporting), Solomon, J. (Supporting), Kane, T. (Supporting), "Citizen Perceptions and Reactions to Lake Water Quality and Invasive Aquatic Species in Bayfield County, Wisconsin," Sponsored by University of Wisconsin-Extension, \$9,900.00. (2007 - 2008).
- Eiswerth, M. (Principal), "Support activities of the University of Wisconsin-Whitewater's Fiscal and Economic Research Center," Sponsored by University of Wisconsin-Extension, \$40,000.00. (2007 - 2008).
- Kashian, R. (Co-Principal), Eiswerth, M. (Co-Principal), Skidmore, M. (Co-Principal), "An Economic Analysis of the Value of Lake Geneva: An Intersection between Private Investment and Public Benefits," Sponsored by Geneva Lake Conservancy and University of Wisconsin – Whitewater Applied Research Grants Program, \$9,000.00. (2006 - 2007).
- Skidmore, M. (Co-Principal), Eiswerth, M. (Co-Principal), Kashian, R. (Co-Principal), "Collaboration between the University of Wisconsin-Extension and the University of Wisconsin-Whitewater's Fiscal and Economic Research Center," Sponsored by University of Wisconsin-Extension, \$40,000.00. (2006 - 2007).
- Skidmore, M. (Principal), Eiswerth, M. (Principal), Kashian, R. (Principal), Marks, D. (Principal), "Tax Increment Financing as a Development Tool for Wisconsin Communities," Sponsored by Faculty Proposal and Research Enhancement Program (PREP), University of Wisconsin-Whitewater, \$15,000.00. (2005 - 2007).
- Skidmore, M. (Co-Principal), Eiswerth, M. (Co-Principal), Kashian, R. (Co-Principal), "Proposed Collaboration between the University of Wisconsin-Extension and the University of Wisconsin-Whitewater's Fiscal and Economic Research Center," Sponsored by University of Wisconsin-Extension, \$42,739.00. (2005 - 2006).
- Eiswerth, M. (Principal), van Kooten, G. C. (Principal), Johnson, W. (Principal), "Economic Losses from Yellow Starthistle in California and Applications to Potential Biological Invasions," Sponsored by California Department of Food and Agriculture, State, \$86,098.00. (2003 - 2006).
- Eiswerth, M. (Principal), Kashian, R. (Principal), Skidmore, M. (Principal), "Assessing the Economic Impact of Delavan Lake Water Quality," Sponsored by University of Wisconsin – Extension, \$30,000.00. (2004 - 2005).
- Harris, T. (Principal), Eiswerth, M. (Principal), Darden, T. (Principal), "Interbasin Computable General Equilibrium Analysis for the Walker River Basin Environmental Impact Statement," Sponsored by U.S. Bureau of Land Management, Federal, \$49,555.00. (2002 - 2003).
- Kadmas, T. (Principal), Eiswerth, M. (Supporting), Johnson, W. (Supporting), "Economic Costs and Benefits of Managing Yellow Starthistle," Sponsored by Nevada Agricultural Foundation Research Development Grant, \$6,000.00. (2001 - 2003).
- Sawanson, S. (Principal), Krauter, K. (Principal), Eiswerth, M. (Principal), Tueller, P. (Principal), "GIS Strategies for Landscape Management of the Cheatgrass Fire Cycle," Sponsored by Arid Rangelands Initiative Grant: Cooperating agency: U.S. Bureau of Land Management, \$75,787.00. (2000 - 2003).

TEACHING

Teaching Experience

University of Northern Colorado

Courses Taught:

ECON 203, Principles of Macroeconomics, 4 courses. 3.00 credit hours.

ECON 205, Principles of Microeconomics, 22 courses. 3.00 credit hours.

ECON 305, Intermediate Microeconomics, 2 courses. 3.00 credit hours.

ECON 335, Environmental and Resource Economics, 7 courses. 3.00 credit hours.

ECON 356, Water Resource Economics, 7 courses. 3.00 credit hours.

ECON 378, Energy Policy and Economics, 1 course. 3.00 credit hours.

ECON 422, Directed Study, 3 courses. 2.00 credit hours.

ENST 335, Environmental and Resource Economics, 9 courses. 3.00 credit hours.

ENST 356, Water Resource Economics, 3 courses. 3.00 credit hours.

ENST 378, Energy Policy and Economics, 2 courses. 3.00 credit hours.

ENST 422, Directed Studies, 2 courses. 3.00 credit hours.

New Programs Developed/Major Program Revision: 4 courses.
Department of Economics

SERVICE

University Service

Committee Member, Research Advisory Council. (January 2016 - Present).

Committee Member, UNC powerED Steering Committee. (2016 - Present).

Program Coordinator, Coordinated UNC efforts to foster student attendance at Poudre River Forum, Greeley, CO, interfacing with colleagues at UNC, CSU (organizers), and Greeley Water (benefactor). Also attended Forum with UNC marketing materials aimed at new student recruitment. (December 2016 - February 2017).

Developed internal UNC pre-proposal entitled Northern Colorado Sustainability Institute (with William Hoyt and Karen Barton), Northern Colorado Sustainability Institute. (August 2013 - 2014).

Committee Member, Award Selection Committee for the annual Award for Excellence in Social Science Engaged Research, University of Northern Colorado. (2012 - 2014).

Presenter/Moderator, UNC Community Conversation. (November 14, 2012).

Committee Member, Martin Luther King Program Planning Committee, University of Northern Colorado. (2010 - 2011).

Task Force Member, Work Environment Task Force Subcommittee on Developing Communication Guidelines and Formal Documentation, University of Northern Colorado. (2010 - 2011).

Initiated the multidisciplinary, multiple-college University of Northern Colorado Water Resources Research Team and developed the Qualifications/Marketing document "University of Northern Colorado Qualifications in Water Resources Research.", University of Northern Colorado. (2009 - 2011).

Commencement Deputy Marshal, Fall 2010 Commencement. University of Northern Colorado. (2010).

Participant, Earth Day Panel. University Center, University of Northern Colorado. (April 2010).

Center Fellow, Center for Engaged Research and Civic Action, University of Northern Colorado. (2009).

Director, Fiscal and Economic Research Center, University of Wisconsin-Whitewater. (2007 - 2009).

Presenter, panelist and program organizer, Earth Day Program, University of Wisconsin-Whitewater. (2006 - 2009).

Committee Member, Undergraduate Research Program Steering Committee, University of Wisconsin-Whitewater. (2003 - 2009).

Coordinator and facilitator, University of Wisconsin – Whitewater Water Research Team. (2008).

Advisory Panel for Minor Program in Environmental Management, University of Wisconsin-Whitewater. (2005 - 2007).

Co-director, Fiscal and Economic Research Center, University of Wisconsin-Whitewater. (2004 - 2007).

Institutional Review Board for Protection of Human Subjects, University of Wisconsin-Whitewater. (2004).

Committee Member, Selection Committee for A.G. McGraw Award for Student Excellence, University of Wisconsin-Whitewater. (2004).

College Service

Banner Bearer, University of Northern Colorado Commencement Ceremony. (December 2016).

Committee Member, College of Humanities and Social Sciences Curriculum Committee, University of Northern Colorado. (August 2013 - 2015).

Committee Member, Budget & Planning Committee, College of Humanities and Social Sciences, University of Northern Colorado. (September 2009 - May 2013).

Economics Department Representative, Research Committee, College of Business and Economics, University of Wisconsin-Whitewater. (2003 - 2009).

Committee Chair, Research Committee, College of Business and Economics, University of Wisconsin-Whitewater. (2005 - 2006).

Department Service

Committee Member, Search and Screen Committee, Department of Economics. (2017 - Present).

Committee Chair, Department Evaluation Committee. Department of Economics, University of Northern Colorado. (August 2011 - Present).

Department Representative and Liaison to HSS, College of Humanities and Social Sciences - redesign and continual updating/maintenance of Dept. of Economics Web Site. (Department and College level service.) Department of Economics, University of Northern Colorado. (January 2011 - Present).

Economics Department Liaison with Michener Library, Michener Library, University of Northern Colorado. (September 2010 - Present).

Tenure track search in Macroeconomics and Econometrics, Department of Economics, University of Northern Colorado, Search and Screen Committee. (December 2010 - February 2011).

Contributor to writing the Economics Department Annual Progress Report, Department of Economics, University of Northern Colorado. (July 2008 - June 2010).

Committee Member, Merit Committee, Department of Economics, University of Wisconsin-Whitewater. (2007 - 2009).

Committee Member, Scholarships and Awards Committee, Department of Economics, University of Wisconsin-Whitewater. (2004 - 2009).

Committee Chair, Search and Screen Committee, Tenure track search in Regional Economics or Public Finance, Department of Economics, University of Wisconsin-Whitewater. (August 2007 - March 2008).

Committee Member, Search and Screen Committee for Academic Staff positions, Department of Economics, University of Wisconsin-Whitewater. (2007).

Committee Member, Search and Screen Committee for Academic Staff position, Department of Economics, University of Wisconsin-Whitewater. (2005).

External Committee Member, Search and Screen Committee for tenure track position, Department of Occupational and Environmental Safety and Health, University of Wisconsin-Whitewater. (2004 - 2005).

Committee Member, Merit Committee, Department of Economics, University of Wisconsin-Whitewater. (2003 - 2005).

Faculty Advisor, Whitewater Economics Society, Department of Economics, University of Wisconsin-Whitewater. (2003 - 2005).

Program Service

Committee Member, Program Faculty Evaluation Committee, Environmental and Sustainability Studies Program, University of Northern Colorado. (2017 - Present).

Co-Director, Environmental and Sustainability Studies (ENST) Program. (2016 - Present).

Committee Member, Search and Screen Committee, Tenure track search, Environmental and Sustainability Studies Program, University of Northern Colorado. (2016 - 2017).

Professional Service

Member, American Water Resources Association. (2015 - Present).

Referee for applications for tenure-track positions, Multiple Universities. (2009 - Present).

Reviewer, Journal Article, Ecological Economics. (2001 - Present).

Member, USDA Multistate Regional Research Project W-3190: Management and Policy Challenges in a Water-Scarce World. (2015 - 2019).

External Program Reviewer, Environmental Studies Program, Washington and Lee University, Lexington, Virginia. (January 2017 - April 2017).

Invited External Referee for Promotion and Tenure Application, Washington and Lee University, Lexington, Virginia. (August 2016 - December 2016).

Member, Western Agricultural Economics Association. (2015 - 2016).

Chairperson, USDA Multistate Regional Research Project W-3190: Management and Policy Challenges in a Water-Scarce World. (October 2015 - October 2016).

Reviewer, Journal Article, Journal of Agricultural and Resource Economics. (January 1998 - January 2016).

Member, Technical Program Committee of the American Water Resources Association 2015 Annual Water Resources Conference Planning Committee. (2015).

Vice Chair, USDA Multistate Regional Research Project W-3190: Management and Policy Challenges in a Water-Scarce World. (2014 - 2015).

Member, Western Economic Association International. (2014 - 2015).

Moderator, Session 74, Who Pays?, American Water Resources Association 2015 Annual Water Resources Conference, Denver, Colorado. (November 2015).

Reviewer, Journal Article, Journal of Agricultural and Resource Economics. (June 2015).

Reviewer, Journal Article, Land Economics. (2014).

Member, Advisory Group for the One World One Water Center for Urban Water Education and Stewardship at the Metropolitan State University of Denver, Denver, Colorado. (2013 - 2014).

Member, Advisory Group for the One World One Water Center for Urban Water Education and Stewardship at the Metropolitan State University of Denver, Denver, Colorado. (2013 - 2014).

Annual Project Reporting Participant, USDA Multistate Regional Research Project W-2190: Management and Policy Challenges in a Water-Scarce World. (2009 - 2014).

Committee Member, USDA Multistate Western Regional Research Project W-2190: Water Policy

and Management Challenges in the West. (2009 - 2014).

Moderator, Session 122, Renewable Resources: Water and Forests, 89th Annual Conference of the Western Economic Association International, Denver, Colorado. (June 2014).

Reviewer, Grant Proposal, University of Puerto Rico. (2010).

Editor, Journal Editor, Canadian Journal of Agricultural Economics. (2009 - 2010).

Committee Member, USDA Multistate Western Regional Research Project W-1190: Interfacing Technological, Economic, and Institutional Principles for Managing Inter-sector Mobilization of Water. (2008 - 2009).

Member, Wisconsin Association of Lakes. (2005 - 2009).

External referee for application for promotion, University of California-Davis. (November 2009).

Peer Reviewer of Research Project funded by the Program of Research on the Economics of Invasive Species Management (PREISM), Economic Research Service, U.S. Department of Agriculture, Washington, D.C. (October 2009).

Reviewer, Journal Article, Journal of Agricultural and Resource Economics. (September 2008).

Reviewer, Journal Article, Journal of Environmental Economics and Management. (2007).

Reviewer, Grant Proposal, National Science Foundation. (2006).

Reviewer, Journal Article, American Journal of Agricultural Economics. (2005 - 2006).

Reviewer, Journal Article, Journal of Agricultural and Resource Economics. (October 2006).

Reviewer, Journal Article, Journal of Agricultural and Resource Economics. (March 2006).

Reviewer, Journal Article, Agricultural and Resource Economics Review. (2005).

Member, Midwest Economics Association. (2005).

Member, Mid-Continent Regional Science Association. (2004 - 2005).

Reviewer, Journal Article, Environmental and Resource Economics. (2004).

Reviewer, Grant Proposal, American Agricultural Economics Association. (2003).

Reviewer, Journal Article, Euphytica: International Journal of Plant Breeding. (2003).

Reviewer, Grant Proposal, Smith Fellowship Program of The Nature Conservancy. (2003).

Member, Round Table on the Economics and Trade Implications of Invasive Pests and Diseases (composed of researchers from various land grant universities, including Florida, California, Hawaii, Guam, Puerto Rico, and Nevada). (2002 - 2003).

Committee Member, Western Public Policy Education Committee of the Cooperative State Research, Education and Extension Service. (2001 - 2003).

Member, Society for Range Management. (2000 - 2003).

Committee Member, Western Coordinating Committee for Coordination of Integrated Pest Management Research and Extension Programs for the Western United States (WCC-069). (2000 - 2003).

Committee Member, Nevada Noxious Weed Action Committee. (1999 - 2003).

Member, Nevada Weed Management Association. (1999 - 2003).

Reviewer, Journal Article, Contemporary Economic Policy. (2002).

Reviewer, Grant Proposal, National Science Foundation. (2002).

Committee Member, USDA Multistate Western Regional Research Committee W-190: Agricultural Water Management Technologies, Institutions and Policies Affecting Economic Viability and Environmental Quality. (2001 - 2002).

Reviewer, Grant Proposal, Land Grant University in an Eastern U.S. State (Hatch Grant proposal reviewer). (2000 - 2002).

Reviewer, Journal Article, The Energy Journal. (2000).

Reviewer, Journal Article, Water Resources Research. (2000).

Reviewer, Journal Article, Journal of Agricultural and Resource Economics. (May 1999).

Reviewer, Journal Article, Journal of Agricultural and Resource Economics. (October 1998).

Public/Community Service

Contributed to (quoted as UNC professor in) article in the Colorado Independent online newspaper, Colorado Independent, Denver, Colorado. (July 27, 2017).

Authored text, UNC News Central. (August 20, 2015).

Contributed to (quoted as UNC professor), Greeley Tribune. (April 1, 2015).

Program Organizer, Steering committee composed of specialists from the Colorado Department of Agriculture (Conservation Services Division Director), Colorado State University (Clean Energy Extension Specialist), Rocky Mountain Farmers Union (Director of Renewable Energy Development), Colorado Farm Bureau (Executive Vice President), and Colorado Cattlemen's Association (Executive Vice President). (2011 - 2012).

Guest Speaker, UNC Community Conversation, UNC Alumni Association and College of Humanities and Social Sciences, University of Northern Colorado: Searching for Colorado's Water Future, Greeley, Colorado. (November 14, 2012).

Guest Speaker, One Day University: Allocating Water in the Colorado River Basin: How Would You Change the Rules if You Could?, Greeley, Colorado. (July 28, 2012).

Assisted with Congressional Hearing on Colorado Water Allocation. (2010).

Board Member, Delavan Lake Improvement Association, Delavan, Wisconsin. (2007 - 2009).

Guest Speaker, Communities in the State of Wisconsin. (2004 - 2009).

Guest Speaker, Rural Economy and Renewable Energy Conference, sponsored by the Rocky

Mountain Farmers Union and the Colorado Governor's Energy Office, Greeley, Colorado. (November 14, 2009).

Consulting

For Profit Organization, Office of Emergency and Remedial Response, U.S. Environmental Protection Agency, Hagler Bailly Inc., Boulder, Colorado. (1998).

For Profit Organization, Office of Policy Planning and Evaluation, U.S. Environmental Protection Agency, Hagler Bailly Inc., Boulder, Colorado. (1998).

For Profit Organization, Office of Water, U.S. Environmental Protection Agency, Hagler Bailly Inc., Boulder, Colorado. (1998).

For Profit Organization, Office of Water, U.S. Environmental Protection Agency, Hagler Bailly Inc., Boulder, Colorado. (1998).

For Profit Organization, U.S. Department of Justice, Hagler Bailly Inc., Boulder, Colorado. (1998).

For Profit Organization, Texas Water Development Board, Hagler Bailly Inc., Boulder, Colorado. (1997 - 1998).

For Profit Organization, California Department of Fish and Game, Office of Oil Spill Prevention and Response, Hagler Bailly Inc., Boulder, Colorado. (1996 - 1998).

For Profit Organization, New Jersey Board of Public Utilities, Hagler Bailly Inc., Boulder, Colorado. (1997).

For Profit Organization, State of Washington Department of Natural Resources, Hagler Bailly Inc., Boulder, Colorado. (1997).

For Profit Organization, California Urban Water Conservation Council, Hagler Bailly Inc., Boulder, Colorado. (1996 - 1997).

For Profit Organization, Environment Canada, Health Canada, Hagler Bailly Inc., Boulder, Colorado. (1996 - 1997).

For Profit Organization, Approximately Twenty U.S. Electric and Gas Utilities, including Montana Power Company, Florida Power & Light, New England Power, Boston Gas Company, Pacific Gas & Electric, Consolidated Edison of New York, Central Hudson Gas & Electric, Public Service Company of Colorado, Hagler Bailly Inc., Boulder, Colorado. (1992 - 1996).

For Profit Organization, Office of Water, U.S. Environmental Protection Agency, Hagler Bailly Inc., Boulder, Colorado. (1995).

For Profit Organization, Asian Development Bank, Hagler Bailly Inc., Boulder, Colorado. (1994 - 1995).

For Profit Organization, World Bank, Islamabad, Pakistan, Hagler Bailly Inc., Boulder, Colorado. (1992 - 1993).

For Profit Organization, Office of Water, U.S. Environmental Protection Agency, Hagler Bailly Inc., Boulder, Colorado. (1992).

AWARDS AND HONORS

Other

First Year Scholars Outstanding Faculty, University of Northern Colorado. (2013).

First Year Scholars Outstanding Faculty, University of Northern Colorado. (2010).

Nominee for the College of Business and Economics Research Award, Department of Economics, University of Wisconsin – Whitewater. (2008).

Nominee and College Finalist (Top 3 in College), College of Business and Economics Hermsen Teaching Award, Department of Economics, University of Wisconsin – Whitewater. (2006).

Outstanding Journal Article of the Year Award, Agricultural and Resource Economics Review. (2006).

Nominated for: Nominee for the College of Business and Economics Research Award, Department of Economics, University of Wisconsin – Whitewater. (2005).

Marine Policy Research Fellow, Woods Hole Oceanographic Institution, Woods Hole, MA. (1988).

Sloan Foundation Dissertation Fellow, University of Maryland, College Park, MD. (1986).

Kenneth Curran Prize in Economics, Colorado College. (1982).

Magna Cum Laude and Phi Beta Kappa, Colorado College. (1982).

Pi Gamma Mu International Honor Society in Social Science, Colorado College. (1982).

Scholarship/Research

Humanities and Social Sciences College Scholar Award, University of Northern Colorado. (2016).

PROFESSIONAL MEMBERSHIPS

American Water Resources Association. (2015 - Present).

USDA Multistate Western Regional Research Project W-3190: Management and Policy Challenges in a Water-Scarce World. (2014 - Present).

Agricultural & Applied Economics Association (formerly American Agricultural Economics Association). (1999 - Present).

Association of Environmental and Resource Economists. (1999 - Present).

Western Agricultural Economics Association. (1999 - Present).

Western Economic Association International. (2014 - 2015).

USDA Multistate Western Regional Research Project W-2190: Management and Policy Challenges in a Water-Scarce World. (2009 - 2014).

Association of American Geographers. (2008 - 2010).