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BIRTH DATE: 2-18-55

ACADEMIC TRAINING: University of Colorado, Ph.D. Economics, 1985

 University of Colorado, B.A. Geography, 1977

FIELDS OF SPECIALIZATION: Environmental/Natural Resources, Applied Microeconomics, Risk and Uncertainty

ACADEMIC/TEACHING EXPERIENCE:

*From Fall 1985 through Spring 2016 have taught over 60 semester-long courses, not including independent studies and other special teaching situations. Courses include Natural Resource Economics (Graduate and Undergraduate levels), Water Resource Economics & Policy (Graduate and Undergraduate), Environmental and Natural Resource Economics (Graduate and Undergraduate), Non-market Valuation (Graduate and Undergraduate),Tourism Economics (graduate), Introductory Environmental and Resource Economics Policy, Mathematical Economics, Introduction to Statistics and Econometrics, Advanced Undergraduate Econometrics, Graduate Econometrics (MS level), an Undergraduate Seniors Honors Seminar, Intermediate Microeconomic Theory, and Principles of Economics (Macro and Micro).*

Fall 2004 – current Department of Agricultural Economics, Texas A&M University, Full Professor

Fall, 2002 – Spring 2003 Division of Economics and Business, Colorado School of Mines, Visiting Associate Professor

March 1995-Fall 2004 Dept. of Applied Economics and Statistics and Faculty member of the Graduate Program in Hydrologic Sciences, University of Nevada – Reno. Associate Professor, tenure received in Spring, 1999.

1994 Temporary Special Programs Lecturer, Economics Institute, Boulder, CO

1987 to January, 1991 Vassar College, Assistant Professor of Economics

1985 to 1987 Williams College, Visiting Assistant Professor

NON-ACADEMIC EMPLOYMENT:

October 1994-March 1995 Independent Consultant

January 1991 to October 1994 Senior Economist, RCG/Hagler, Bailly Inc. Boulder, CO

1983 to 1987 Energy and Resource Consultants, Boulder, CO Research Economist (Part-time)

NATIONAL APPOINTMENTS, AWARDS, SERVICE:

Reviewer, Harvard Center for Risk (conference papers), 2013.

Reviewer, Decision Science and Risk Management Program, *National Science Foundation*, 2012.

Appointed member, Editorial Council, *J. of Agricultural and Resource Economics*, 2012-2014.

Reviewer for papers selection, annual meetings of the American Agricultural Economics Association; Western Agricultural Economics Assn., Denver, July 2010; Pittsburgh meetings, July 2011; Seattle meetings, August 2012, Summer 2013.

Reviewer of the EPA Safewater CBX model, via Intellitech Systems, Summer 2010.

Independent External Reviewer, St. Johns Bayou/New Madrid Floodway Project of the U.S. Army Corps of Engineers, subcontracted to Battelle Memorial Labs (Ohio), 2009 and 2010 (Phase II).

Blue Ribbon Panel Member, Restore America’s Estuaries and the National Oceanic and Atmospheric Administration’s Restoration Center and Assessment and Restoration Division, December 14-17th, 2009, Washington, D.C.

Independent External Reviewer, Mississippi Coastal Improvement Project of the U.S. Army Corps of Engineers, subcontracted to Battelle Labs (Ohio), 2008-2009.

Outstanding Speaker Award, Resort and Commercial Recreation Association, 28th National Conference (New Paltz, New York), 2008.

Steering Committee Member, University of Oregon, Program on Climate Change Economics, 2009.

Selection Committee, Publication of Enduring Quality, *Association of Environmental and Resource Economics*, 2007, 2008, 2009 (chair)

Associate Editor, *Journal of Leisure Research*, 2005-2007

Associate Editor, *Water Resources Research* 2005- winter, 2007

Member of Poster Selection committee (econometrics), *American Agricultural Economics Association*, 2006

Member of Selection committee, Economics Graduate Fellowships, *National Science Foundation* 2006

Editorial Council, *Journal of Agricultural and Resource Economics*, 2003-2006

Member, Lake Tahoe Science Advisory Group, 2001-2002.

Elected President (1998/1999), W-133 U.S.D.A. Regional Research Project Working Group.

Member of Papers Selection committee for the 1999 annual meetings of the American Agricultural Economics Association.

Member of the American Agricultural Economics Assoc. Selection Committee for Outstanding Annual MA or MS Thesis, Term: 1996-1999.

Best Paper Prize- 1991, Foundation for Environmental Conservation, Switzerland

Past and Present Professional Affiliations:

American Economics Association, American Agricultural Economics Association, American Water Resources Association, Association of Environmental and Resource Economists, Nevada Water Resources Association, Northeastern Agricultural and Resource Economics Association, Royal Economic and Royal Statistical Society, Southern Economics Association, Western Agricultural Economics Association, Western Economics Association

PUBLICATIONS: (I) PEER-REVIEWED ARTICLES IN *ECONOMICS* JOURNALS

“Interpersonal Discount Rates: An Experiment.” With T. Grijalva, J. Lusk and R. Rong, *J. of Risk and Uncertainty*, forthcoming 2019, accepted for publication November, 2018.

“Convex Time Budgets and Individual Discount Rates in the Long Run” With T. Grijalva, Jayson Lusk, Rong Rong. *Environmental and Resource Economics*, 2018, **71** (1/Sept): 259-77.

Environmental and Natural Resource Decisions under Risk and Uncertainty: A Survey. W. D. Shaw. *International Review of Environmental and Resource Economics*, 2016, Vol. **9**: No. 1-2: pp. 1-130. Doi:10.1561/101.00000074.

 “Willingness to Pay to Avoid Arsenic-Related Risks: A Special Regressor Approach.” With Thierry Kalisa and Mary Riddel. *J. of Environmental Economics and Policy*, 2016, **5** (2): 143-162. Published on-line June 25, 2015.

 “Discounting the Distant Future: An Experimental Investigation.” Therese Grijalva, Jayson Lusk, and W. D. Shaw. *Environmental and Resource Economics*, 2014, **59**: (1/September) 39-63.

“Willingness to Pay for Intervention Policies Related to HIV/AIDS: A Theoretical Framework with Endogenous Risk, Perceived Effectiveness, and Altruism.” Mario Fernandez and W.D. Shaw. *Economics Bulletin*, Vol. **33** (Issue 2), June 2013.

Estimating and Eliciting Valid Subjective Probabilities: An Experimental Investigation Using the Exchangeability Method. Simone Cerroni, Sandra Notaro, and W. D. Shaw. *Journal of Economic Behavior and Organization*, 2012, Vol. **84** (September): 201-15.

“Does Climate Change Information Affect Stated Risks of Impacts of Pine Beetles on Forests? An Application of the Exchangeability Method.” Simone Cerroni and W. D. Shaw, *Forest Policy and Economics*, 2012, Vol. **22** (September): 72-84.

“Arsenic-Related Mortality Risks for Smokers and Non-Smokers.” W. D. Shaw, Mary Riddel, and Paul Jakus. *Contemporary Economic Policy*, 2012, **30**, (3/July): 417-429.

Water Management, Risk and Uncertainty: What Water Resource Managers Wish They Knew in the 21st Century. W. D. Shaw and Richard T. Woodward. *Western Economic Forum*, 2010/2011, **9** (Fall): 9-21. Posted online at [www.waeaonline.org](http://www.waeaonline.org).

“Species Preservation versus Development: An Experimental Investigation under Uncertainty.” Therese Grijalva, Robert P. Berrens, and W. D. Shaw. *Ecological Economics*, 2011, **70** (5/March): 995-1005.[[2]](#footnote-2)

“Cigarette Smoking and Self-Reported Health in China.” Steven Yen, W. D. Shaw, and Yan Yuan. *China Economic Review*, 2010, Vol. **21** (4/December): 532-43.

“Option Price Without Expected Utility” Paan Jindapon and W. D. Shaw, *Economics Letters*, 2008, Vol. **100** (September): 408-410.

“Allocating Resources in an Uncertain World: Water Management and Endangered Species.” Richard Woodward and W. D. Shaw. *American Journal of Agricultural Economics*, 2008, Vol. **90** (3/August): 593-605.

“On Why Environmental and Resource Economists Should Care about Non-Expected Utility Models” W. D. Shaw and R.T. Woodward. *Resource and Energy Economics*, 2008 Vol. **30** (1/January): 66-89.[[3]](#footnote-3)

“Distributional Consequences of Fees in a Discrete Choice Model of Recreation Demand with Incomplete Data: An Application to Marine Fishing” Hwa Kim, W. D. Shaw, and Richard T. Woodward. *Land Economics*, 2007, vol. **83** (No. 4) November: 561-74.

“An Empirical Study of Option Prices for Moose Hunting Permits: Lotteries and Guarantees.” To Nguyen, W.D. Shaw, R.T. Woodward, R. Paterson, and K. Boyle. *Ecological Economics*, 2007, Vol. **63** (Issues 2,3 – August): 476-84.

“Health Benefits and Uncertainty: an Experimental Analysis of the Effects of Risk Presentation on Auction Bids for a Healthful Product.” W.D. Shaw, R.M. Nayga, A. Silva, *Economics Bulletin*, 2006, Vol. **4** (17/May): 1-8.

“A Theoretically-Consistent Empirical Non-Expected Utility Model of Ambiguity: Nuclear Waste Mortality Risk and Yucca Mountain.” M. Riddel and W.D. Shaw. *Journal of Risk and Uncertainty,* 2006, Vol. 32 (2/March): 131-150.

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“Asthma Patients’ Activities and Air Pollution: A Semiparametric Censored Regression Analysis.” S. Yen, W.D. Shaw and M. Eiswerth. *Review of Economics of the Household*, 2004, Vol. 2, No. 1: 73-88.

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“Perceived Hazard and Product Choice: An Application to Recreational Site Choice” P. Jakus and W.D. Shaw. *Journal of Risk and Uncertainty,* 2003, Vol. 26 No. 1: 77-92.

“Testing for the Validity of Contingent Behavior Trip Responses.” T. Grijalva, R.P. Berrens, A. Bohara, and W. D. Shaw.  *American Journal of Agricultural Economics,* 2002, Vol. 84, No. 2 (May): 401-414.[[4]](#footnote-4)

“Valuing the Loss of Rock Climbing Access in Wilderness Areas: A National-level RUM.” T.A. Grijalva, R.P. Berrens, A. Bohara, P. Jakus, and W.D. Shaw. *Land Economics*, 2002, Vol. 78 No.1 (February): 103-120.

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“The Value of Leisure Time in the Presence of Under and Over-employment.” P.M. Feather and W.D. Shaw. *Economic Inquiry* 2000, Vol. 38, No. 4 (October): 652-662.

“Brand Choice and Total Purchases Revisited: An Application to Recreation Behavior.” W.D. Shaw and J.S. Shonkwiler. *American Journal of Agricultural Economics,* 2000, Vol.82 (August): 515-24.

“Possibilities for Including the Opportunity Cost of Time in Recreation Demand Systems.” W.D. Shaw and P.M. Feather. *Land Economics,* 1999, Vol. 75, No. 4 (November): 592-602.

“Estimating the Cost of Leisure Time in Recreation Demand Models.” Peter Feather and W.D. Shaw. *Journal of Environmental Economics and Management*, 1999, Vol. 38, No. 1: 49-65. Reprinted in “Revealed Preferences Approaches to Environmental Valuation, Vol. 1,” Joe Herriges and Cathy Kling (eds.), July 2008.

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“Searching for a Model of Multiple-Site Recreation Demand that Admits Interior and Boundary Solutions.” E.R. Morey, D. Waldman, D. Assane, and W.D. Shaw. *American Journal of Agricultural Economics*, 1995, Vol. 77, No. 1 (February): 129-140.

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“Hurdle Count Data Models for Recreation Demand Analysis.” J.S. Shonkwiler and W.D. Shaw. *Journal of Agricultural and Resource Economics,*  1996, Vol. 21, No. 2:210-219.

“Travel Cost Models of the Demand for Rock Climbing.” W.D. Shaw and P.M. Jakus. *Agricultural and Resource Economics Review,* 1996, Vol. 25, No. 2: 133-142.[[6]](#footnote-6)

“Searching for the Opportunity Cost of an Individual’s Time.” W.D. Shaw. *Land Economics*, 1992, Vol. 68, No. 1 (February): 107-115.

“Recreational Demand by Tourists for Saltwater Beach Days: Comment.” W.D. Shaw. *Journal of Environmental Economics and Management,* 1991, Vol. 20, No. 3: 284-89.

“Casualty Between Literacy and Macroeconomic Growth” S.R. Khan, F. Hussain, and W.D. Shaw. *Economics of Education Review*, 1991, Vol. 10, No. 3: 245-51.

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“Valuing the Effect of Acidification Damages on the Adirondack Fishery: Comment.” W.D. Shaw. *American Journal of Agricultural Economics,* 1989, Vol. 71, No. 2: 217-220.

“Neoclassical and Post-Keynesian Environmental Economics: An Addendum.” W.S. Brown and W.D. Shaw. *Journal of Post-Keynesian Economics,* 1983, Vol. 6, No. 1.

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“Valuing the benefits of rock climbing and the welfare gains from decreasing injury risk: An application of a Kuhn-Tucker Model.” With Lea Nicita and Giovanni Signorello. *Risk Analysis*, 2018, Vol. **38** (11/Nov.): 2258-74.

 “Models of transportation choice with risk: an application to managed lanes”, Chao Huang, Mark Burris, and W. Douglass Shaw. *Transportation Letters*, 2017, **9**:5,276-295, DOI: 10.1080/19427867.2016.1204811

 “Perceived Risks of Mountain Landslides in Italy: Stated Choices for Subjective Risk Reductions.” Mara Thiene, W. D. Shaw, Riccardo Scarpa. *Landslides,* 2017, Vol. **14** (3/June): 1077-89.

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How Many Bad Apples are in a Bunch? Perceived Risks of Pesticide Residues in Apples: An Experimental Investigation. Simone Cerroni, Sandra Notaro, and W. D. Shaw. *Food Policy*, 2013, Vol. **41** (August): 112-123.

Do Travelers Pay for Managed Lane Travel as They Claimed They Would?: A Before-After Study of Houston Katy Freeway Travelers. Prem Chand Devarasetty, M. Burris, and W.D. Shaw. *Transportation Research Record: the Journal of the Transportation Research Board*, 2012, Vol. **2297** (Finance, Pricing, Economics, and Equity Issues): 56-65 [published on-line February 2013].

The Value of Travel Time and Reliability : Evidence from A Stated Preference Survey and Actual Usage. Prem Chand Devarasetty, M. Burris, and W.D. Shaw. *Transportation Research Part A: Policy and Practice*, 2012, Vol. **46** (8/October): 1227-40.

 “The Effect of Weather on Physical Activity among Older Adults: Controlling for Location Selection with Longitudinal Data.” Richard A. Dunn, W. D. Shaw and Michael Trousdale. *Journal of Aging and Physical Activity*, 2012, Vol. **20** (January): 80-92.

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Travel Using Managed Lanes: An Application of a Stated Choice Model for Houston, Texas. Sunil Patil, Mark Burris, and W. D. Shaw. *Transport Policy*, 2011, **18** (4/August): 595-603.

“Attributes Affecting Traffic Safety Camera Programs.” Lindsey Higgins, W. D. Shaw, and Aklesso Egbendewe-Mondzozo. *Accident Analysis and Prevention*, 2011, **43**: 1042-48.

 “An Empirical Model of Perceived Ambiguous Mortality Risks from Selected United States Arsenic Hot Spots.” To N. Nguyen, Paul Jakus, Mary Riddel, and W. D. Shaw. *Risk Analysis*, 2010, Vol. 30 (10/October): 1550-1562.

“Models of Location Choice and Willingness to Pay to Avoid Hurricane Risks for a Sample of Hurricane Katrina Evacuees.” Justin Baker and W.D. Shaw. *International Journal of Mass Emergencies and Disasters*, 2010, **28** (1/March): 87-114.

“Red Light Cameras at Traffic Intersections: Estimating Preferences Using a Stated Choice Model.” Aklesso Egbendewe-Mondzozo, Lindsey Higgins and W. Douglass Shaw, *Transportation Research, Part A: Policy and Practice*, 2010, **44** (5/June): 281-290.

 “Subjective Risks of Hurricanes and the Role of Risks in Intended Moving and Location Choice Models.” Justin Baker, W. D. Shaw, D. Bell, S. Brody, W. Neilson, M. Riddel, and R.T. Woodward, *Natural Hazards Review*, 2009, Vol. **10** (3/August): 102-112.

“Risk Perceptions of Arsenic in Tap Water and Bottled Water Consumption” Paul Jakus, W. Douglass Shaw, To Nguyen, and Mark Walker. *Water Resources Research*, 2009, Vol. **45**, published on-line, May 2009.

**“**Explaining Changes in Subjective Hurricane Risks as Time Passes: An Analysis of a Sample of Katrina Evacuees.” J. Baker, M. Riddel, W.D. Shaw, and R.T. Woodward. *Journal of Risk Research*, 2009, Vol. **12** (1/January): 59-74.

 “Frameworks for Analyzing the Economic Effects of Climate Change on Outdoor Recreation and Selected Estimates.” W. D. Shaw and J.B. Loomis. *Climate Research*, 2008, Vol. **36** (3/June): 259-269.

 “Benefit-Cost Analysis of FEMA Hazard Mitigation Grants.” Adam Rose, K. Porter, N. Dash, J. Bouabid, C. Huyck, J. Whitehead, W. D. Shaw, R. Eguchi, C. Taylor, T. MacLane, T. Tobin, P. Ganderton, D.Godschalk, A. Kiremidgian, K. Tierney and C. West. *Natural Hazards Review*, 2007, Vol. **8**, No. 4 (November):97-111.

 “Analytical Arsenic Consumption and Health Risk Perceptions in a Rural Western U.S. Area,” M. Walker, W.D. Shaw, and M. Benson. *Journal of the American Water Resources Association*, 2006, **42** (5/October): 1363-70.

 “Significance of Private Water Supply Wells as a Route of Exposure to Aqueous Arsenic.” M. Walker, M. Benson and W.D. Shaw. *Journal of Water and Health*, 2005, Vol. 3 (3/September)*:* 305-312.

 “Impacts of Ozone on the Activities of Asthmatics: Revisiting the Data.” M. Eiswerth, W.D. Shaw, and S.Yen. *Journal of Environmental Management* 2005, Vol. 77 (1/October): 56-63.

“Treating and Drinking Well Water in the Presence of Health Risks from Arsenic Contamination: Results from a U.S. Hot Spot” W.D. Shaw, M. Walker, and M. Benson. *Risk Analysis* 2005, Vol. 25 (6): 1531-1543.

“Environmental Risk and Uncertainty: Insights from Yucca Mountain.” M. Riddel, Christine Dwyer, and W.D. Shaw. *Journal of Regional Science*, 2003, Vol. 43, No. 3 (August): 435-58.

“Rationing an Open-Access Resource: Mountaineering in Scotland.” N.D. Hanley, B. Alvarez-Farizo, and W.D. Shaw. *Land Use Policy*, 2002, Vol. 19, No. 2 (April): 167-176.

 “Contingent Valuation of Some Externalities from Mine Dewatering.” E. Huszar, N. Netusil, and W.D. Shaw. *Journal of Water Resources, Planning, and Management*, November, 2001, Vol. 127, No. 6: 369-77.

 “The Value of Water Levels in Water-Based Recreation: a Pooled Revealed Preference/Contingent Behavior Model.” M. Eiswerth, J. Englin, B. Fadali and W.D. Shaw. *Water Resources Research,* 2000 Vol. 36, No. 4 (April): 1079-86.[[7]](#footnote-7)

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 “Economic Impacts of Water Reallocation: A CGE Analysis for the Walker River Basin of Nevada and California” C.K. Seung, T.R. Harris, T.R. MacDiarmid, and W.D. Shaw. *Journal of Regional Analysis and Policy*, 1998, Vol. 28, No. 2: 13-34.

“Trick or Treat: An Offer to Obtain Metered Water.” C. Vossler, J. Espey, and W.D. Shaw. *Journal of the American Water Resources Association*, 1998, Vol. 34, No. 5: 1213-20.

 “Adjusting Benefits Transfer Values for Inflation.” M.E. Eiswerth and W.D. Shaw. *Water Resources Research,* 1997, Vol. 33, No. 10: 2381-2386.

“Price Elasticity of Residential Water Demand: A Meta Analysis.” M. Espey, J. Espey, and W.D. Shaw. *Water Resources Research* 1997, Vol. 33, No. 6: 1369-74.

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“Congestion at Recreation Areas: Empirical Evidence on Perceptions, Mitigating Behavior, and Management Preferences.” P.M. Jakus and W.D. Shaw. *Journal of Environmental Management* 1997, Vol. 50, No. 4: 389-402.

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“Short Communication: Selecting Distributions for Use in Exposure Assessment.” J. Lipton, W.D. Shaw and others.  *Regulatory Toxicology and Pharmacology* 1995, Vol. 21: 192-198.

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OTHER PUBLICATIONS (III) [Books, Book chapters, published abstracts, book reviews, peer-reviewed notes, other papers and comments, conference proceedings papers, and cooperative extension fact sheets]

*Books*

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*Book Chapters, Non-peer Reviewed Papers, Conference Proceedings, Book Reviews*

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“The Aggregation of Conditional Recreation Demand Systems.” With J. S. Shonkwiler, Western Regional Research Publication: 10th Interim Report (1997). Compiled by J. Englin, University of Nevada, Reno.

“The Economic and Recreational Importance of Rock Climbing and Recreation at the Red Rock Canyon National Conservation Area: Preliminary Study Results.” UNR/Cooperative Extension Fact Sheet #97-12 Coauthored, [Reviewed].

Abstract: “RUM and Income: A Finite Mixture Approach to Analyze Income Effects in Random Utility Models.” J.S. Shonkwiler and W.D. Shaw. *American Journal of Agricultural Economics,* 1997, Vol. 79: 1705.

Economic Evaluation of Environmental Impacts: A Workbook. Asian Development Back. 1996. Contributing Author.

“Preliminary Results From a Focus Group Analysis of Walker River Basin Water-Based Recreation: Yerrington, NV.” UNR/Cooperative Extension Fact Sheet #96-28. 1996. Coauthored, [Reviewed].

“Preliminary Results From a Focus Group Analysis of Walker River Basin Water-Based Recreation: Bridgeport, CA.” UNR/Cooperative Extension Fact Sheet #96-29. 1996, Coathored, [Reviewed].

Abstract: “A Joint Structural Model of Fish Catch and the Demand for Recreational Fishing.” J. Englin, D. Lambert, and W.D. Shaw. *American Journal of Agricultural Economics,* 1996, Vol. 78, 1405.

Abstract: “Count Models Corrected for Selectivity Bias.” J. Englin, J.S. Shonkwiler, and W.D. Shaw. *American Journal of Agricultural Economics,* 1996, Vol 78, 1416.

“A Discrete Choice Model of the Demand for Closely Related Goods: An Application to Recreation Decisions.” J. S. Shonkwiler and W.D. Shaw. Selected for presentation at the Eighth Annual Conference of the European Association of Environmental and Resource Economists, Tilburg, The Netherlands, (June, 1997). Published in Western Regional Research Publication: Ninth Interim Report, W-133 Benefits & Costs Transfer in Natural Resource Planning. August, 1996. Compiled by J. Herriges, Iowa State University.

“Recreation and Tourism Benefits from Water Quality Improvements: An Economist’s Perspective” W.D. Shaw and R. Raucher. Clean Water in the American Economy, Proceedings: Surface Water-Volume 1, U.S. EPA (Office of Water) 800-R-93-001a, March 1993.

“The Nestucca Oil Spill” R.D. Rowe, W.D. Shaw, W.D. Schulze. Chapter 20 in Natural Resource Damage: Law and Economics, J. Duffield and K. Ward (ed.), John Wiley & Sons, Inc. 1992.

“Environmental Economics.” W.D. Shaw. *Communications, Issues in Science and Technology* 7 (4) [Summer] 1991.

“Valuing Damages in Prince William Sound” W.D. Shaw. The Margin. September/October, Vol. 6, No. 1, 1990 and also in Annual Editions: Economics 91/92, Duskin Publishing Co.: Guilford, Connecticut, 1991.

“The Impact of Acid Rain: A Characteristics Approach to Estimating the Demand for and Benefits from Recreational Fishing” E.R. Morey and W.D. Shaw. A chapter in Advances in Applied Microeconomics, Vol. 5: Recent Developments in Modeling of Technical Change: and Modeling Demand for and Valuation of Recreation Resources, A.N. Link and V.K. Smith (eds.). Greenwich, CT: JAI Press Inc., 1990: 195-216. [Peer-reviewed]

“Innovations in Water Management: Lessons from the Colorado big Thompson Project and Northern Colorado Water Conservancy District” C.W. Howe, D.R. Schurmeier, and W.D. Shaw. Chapter 6 in Scarce Water and Institutional Change. K. Frederick and D. Gibbons, (eds.) Washington D.C.: Resources for the Future, 1986.

“Water Costs” W.D. Shaw. In Water in the West, a special publication of the American Institute of Professional Geologists, 1981.

“Alternatives to Zoning” W.D. Shaw. A chapter in The Permit System, by W. Odell and K. Wickersham, Jr. Indian Peaks Publishing, Boulder, CO 1980.

UNPUBLISHED WORK

*Under revision*

*Submitted/Under review*

 “Waste Reduction and Spillovers from Unit-based Pricing: Quasi-experimental Evidence from Taiwan” With Yu-Kai Huang and Reid Stevens. Submitted to *Environmental and Resource Economics,* summer 2018.

**Completed Discussion Papers (unpublished)**

“The effect of good news and bad news on preferences: A discrete choice model of reductions in pesticide residue risk.” Simone Cerroni, Sandra Notaro, Roberta Raffealli, and W.D. Shaw. Discussion paper, 2017.

Is Smoking Harmful? Modeling Gallup Opinion Poll Responses. Andrew Leidner and W.D. Shaw and S.T. Yen. Discussion paper, 2014.

“Welfare Measures for Uncertain Risks” Mary Riddel and W. Douglass Shaw. Discussion paper, October, 2010.

“Do Parent’s Perceptions of their Children’s Risks Matter in the Decision to Remove Arsenic in Drinking Water? An Empirical Investigation” W. Douglass Shaw (with Yongxia Cai), conference paper, November 2009. Earlier version with Ximing Wu presented at the 2008 annual meetings of the *American Agricultural Economics Association*, selected paper.

“Economic Experiments with an Auction for a New Food Product and Relations to Perceived Mortality Risks: a Pilot Study.” W.D. Shaw, R.M. Nayga, and A. Silva. Discussion paper, 2008.

 “Incorporating Perceived Mortality Risks from Arsenic into Models of Drinking Water Behavior and the Valuation of Arsenic Risk Reductions.” W. Douglass Shaw, Mary Riddel, P. Jakus, Paan Jindapon, M. Walker. Presented at the EPA Workshop on Valuation of Mortality and Morbidity Risks, April, 2006.

*“*Settlement versus Litigation in Environmental Damage Cases.” F. Flamini, N.D. Hanley, and W.D. Shaw. Discussion paper, University of Glasgow (Scotland), 2006.

TECHNICAL/CONSULTING REPORTS (all are co-authored unless specified)

“Managed Lane Travelers: Do They Pay for Travel as they Said They Would?” Final Report prepared for the Southwest Region University Transportation Center (#SWUTC/11/161002-1) by Mark Burris, Prem Chand Devarasetty, June 2011.

“Analyses of the Effects of Global Change on Human Health and Welfare and Human Systems.” Gamble, Janet (U.S. Environmental Protection Agency), et al. Report by the U.S. Climate Change Science Program. Synthesis and Assessment Product 4.6, September 2008 (contributed to Chapter 4).

 “Review of Non-market Values Estimation for Events and Festivals: A Discussion Paper.” W. Douglass Shaw and Judy Rogers. Draft report by Research Resolutions Consulting, Ltd. For the Ministry of Tourism, Ontario, August, 2005.

“Benefits from Process Grants from the Federal Emergency Management Agency.” Part of a draft report prepared for U.S. Congress. Applied Technology Council, California, Fall 2004.

“Report on Daryll Olsen’s Memorandum [Efficiency and In Stream Flow in the Columbia River].” Prepared for Washington Dept. of Ecology and Attorney General’s Office in anticipation of litigation, Snake River Irrigation Association v. Washington Dept. of Ecology, November, 2002.

“Non-market Values.” 2002. Appendix to the Draft EIS for Walker Lake, Report to the U.S. Bureau of Reclamation, Carson City, NV. Prepared by the Desert Research Institute.

“Lake and Reservoir Valuation Issues in the Eastern Sierras of California.” Task 2 report (draft) prepared for the Office of Statewide Consistency, California Water Resources Control Board, February 2001.

“Groundwater Valuation Issues in California.” Task 2 report (draft) prepared for the Office of Statewide Consistency, California Water Resources Control Board, March 2001.

“Literature Review of Lake and Reservoir Valuation.” Task 1 report (draft) prepared for the Office of Statewide Consistency, California Water Resources Control Board, October 2000.

“Literature Review of Groundwater Valuation.” Task 1 report (draft) prepared for the Office of Statewide Consistency, California Water Resources Control Board, August 2000.

“Preliminary Assessment of the Potential for Water Banking in Nevada.” Phase I report (draft) prepared for the U.S. Bureau of Reclamation, June 1998.

“Columbia River System Operation Review Recreation Impacts: Demand Model and Simulation Results.” Final report prepared for Mr. Matthew Rae, U.S. Army Corps of Engineers, Portland, Oregon 97208-2946. June 1995.

“Regional Environmental Economics Assessment, Sections I, II.” Draft Report Prepared for the Office of the Environment, Asian Development Bank, Manila, Philippines. July 1994.

“Preliminary Investigation of Injuries and Damages for the Kalamazoo River.” *Confidential Attorney/Trustee Work Product*. Draft for the Michigan Department of Natural Resources and Attorney General’s Office (MDRN and AG) May, 1994.

“Assessment Plan for Determination of Natural Resource Damages at Saginaw Bay, Saginaw River, and the Tittabawasee River.” *Confidential Attorney/Trustee Work Product*. Draft for the MDNR/AG March, 1994.

“Assessing Compensation in a Settlement Over Land Dispute Between the Quileute Indian Tribe and The National Park Service.” Prepared for the Quileute Indian Tribe, February 1994.

“Assessment of Damages to Anglers and Other Users From Injuries to the Upper Clark Fork River Basin: Appendix to the Report of Assessment” *Confidential Attorney/Trustee Work Product.* Preliminary Draft for the State of Montana Natural Resource Damage Program. Final Draft, December 1993.

“Saginaw Bay, Saginaw River and Tittibawasee River Natural Resource Damage Assessment Litigation Support Document.” *Confidential Attorney/Trustee Work Product*. Draft for the MDNR/AG, November 1993.

“Assessment Plan for Determination of Natural Resource Damages at the Blackbird Mine Site.” *Confidential Attorney/Trustee Work Product.* Draft for the Idaho Attorney General’s Office, 7-93.

“Estimating Recreation Impacts for the Columbia River Systems Operation Review: Methods for Phase II.” Final report prepared for the U.S. Army Corps of Engineers, Portland, Oregon. 3-93.

“Natural Resource Impacts and Associated Economic Costs at the G & H Industrial Landfill.” *Confidential Attorney/Trustee Work Product.* Draft for MDNR/AG 3-93.

Mohonk Preserve Recreational Use Survey: A Profile of Visitors.” 1993. Report prepared by Paul Jakus, W. D. Shaw and John DeLeo for Glenn D. Hoagland, Executive Director, Mohonk Preserve, Inc. Mohonk Lake, New Paltz, NY 12561.

“Techniques for Modeling Participation and Load Impacts of Residential Air Conditioning DLC Programs.” *Draft report* submitted to the Wisconsin Center for Demand-Side Research, Madison, WI 53711. June 8, 1992.

“Selecting Distributions for Use in Monte Carlo Simulations.” Draft report submitted to the Science Policy Branch, Office of Policy Analysis, U.S. EPA. June 1992.

“A Scoping Study for Assessing the Benefits from Averting Climate Change in South Carolina.” Final Report for the Climate Change Division, U.S. EPA. May 1992.

“Natural Resource Damage Assessment for Injuries to New Jersey Resources Resulting from the Presidente Rivera Oil Spill.” *Confidential Attorney/Trustee Work Product.* Settlement Draft prepared for the State of New Jersey Department of Environmental Protection. July 18, 1991.

“Contingent Valuation of Natural Resource Damage Due to the Nestuca Oil Spill”, Final Report Prepared for the British Columbia Ministry of Environment. June 1991.

“Management Measures Guidance for Non-point Source Controls in Coastal Watershed Areas: A Preliminary Assessment of Benefits.” Final report prepared for Nonpoint Source Branch, Office of Water, U.S. Environment Protection Agency. April, 1991.

“Contingent Valuation of Residual Clean-up Damages at the Rocky Mountain Arsenal.”  *Confidential Attorney Work Product.* Prepared for the CERCLA Division, Colorado Attorney General’s Office. April 1991.

“Valuing Marine Recreation Fishing on the Pacific Coast.” Final report prepared for the National Marine Fisheries Service, National Oceanic and Atmospheric Administration. LaJolla, CA. March 1985 (NOAA:NA83ABCOO205)

“Integral Vista Benefits Analysis,” final report prepared for the Air Quality Division, National Park Service, U.S. Department of Interior. 1983.

“Economic Benefits of Water Recycling in the Oil Shale Industry,” a chapter in Water Use and Reuse Opportunities and Costs at Oil Shale Plants, Vol. 11, a report prepared for the Office of Water Research and Technology, Bureau of Reclamation, 1983.

GRANTS PROPOSED AND PROJECTS FUNDED:

Proposed/Submitted/Being Reviewed: NA.

Funded

$1.425 million, “Using Behavioral Economics to Better Understand Managed Lane Use,” Federal Highway Administration, U.S. Department of Transportation, 2017 – 2020 (3.5 years), Mark Burris (PI) and several others from TTI.

Strategic Graduate Assistant Research Grant, for three PhD students, Texas A&M University (internal), March 2015, with Marco Palma and Yu Zhang.

(Funded for 2010) “Managed Lane Travelers: Do they Pay for Transportation as they Claimed They Would?” Southwest Region University Transportation Center, with Mark Burris (lead PI).

$80,000 Funded. “Estimating the Benefits of Managed Lanes” Texas Transportation Institute, University Center on Transportation Mobility. Co-PI with Mark Burris (lead PI), 2008-2009 (12 months).

$27,000 (2009 allocation funded) “The Role of Perceived Risks in Environmental Economics: Application to Drinking Water Consumption Behavior & Valuation of Other Resources.” U.S.D.A.-Hatch Project (Regional W-2133 Research Project), TXO9064, 2004 – 2009. [Shaw is sole PI, ongoing].

$185,934 Funded. “Efficiency and Design Lessons from the Great Miami River Watershed Water Quality Trading Credit Program” *U.S. Environmental Protection Agency* (STAR grant program), co-PI on project from 2008-2009 only [lead PI was Richard T. Woodward].

$96,000 (Small Grant Exploratory Research Proposal) “Perceived Risks and Willingness to Pay for Hurricane Protection.” *National Science Foundation*, December 2005-July 2007. PI [Co-PI’s include Rich Woodward, William Neilson, Mary Riddel, Sam Brody].

$314,000 “Perceived Risks from Arsenic in Drinking Water.” *U.S. Environmental Protection Agency* (#R832235), PI, September 1, 2005 to December 31, 2007. [Co-PI’s and subcontractors include Mary Riddel, Paul Jakus, Mark Walker, Klaus Moeltner, PA-Consulting/Government Services]

$372,5000 – “Arsenic in Churchill County, Nevada domestic water supplies” *U.S.D.A., Cooperative State Research Education and Extension Service* (CSREES) National Integrated Water Quality Program, Co-PI with Mark Walker (PI), 2002-2004 (36 months – 2002 to 2005).

$70,000 – “Arsenic in Drinking Water from Private Wells.” USDA Rangeland Initiative Program, Co-PI with Mark Walker (PI), 2002.

$30,000 – “Water Quality at California Lakes and Reservoirs” for the California State Water Resources Control Board (Shaw – sole PI), January, 2000-June 2001.

$26,000 – “Survey of Groundwater Valuation Studies” for the California State Water Resources Control Board (PI), July 1999 – January 2000 – June 2001.

$767,000 – NSF/EPA Competitive grant: co-P.I. with Glenn Miller, Wally Miller, and Scott Tyler. 3 years, Jan. 1st 1997-Dec. 31st, 2000: “Geochemical, Biological and Economic Effects of Arsenic and Other Oxyanions on a Mining Impacted Watersheds.” Economics: The Impacts of Mine Dewatering in the Humboldt River Basin.” [Lead economist, EPA Grant # R 825289-01-0; NEV05146, code #1330-153-5185].

$245,000 - Grant: co-P.I. with T. Harris and R. Narayanan – A preliminary study of the potential for Water banking in Walker River Basin of Nevada and California. U. S. Dept. of Interior, Bureau of Reclamation. January 1998- June 1999 [#1330-153-5191]. [Lead and sole economist on reclamation analysis]

$280,169 – Grant: co- P.I. with T. Harris and R. Narayanan – A preliminary study of the potential for Water banking in Walker River basin of Nevada and California. U.S. Dept. of Interior, Bureau of Reclamation. September 1996- December 1997 [#1330-153-5184]. [Lead and sole economist on recreation analysis]

$53,988.25 – Grant: Hatch Project (NEV05146), 3 years 1996-1999. “Valuing Water-based Recreation in Northwestern Nevada: Issues in Using on Site, Mail and Telephone Surveys.”

$55,232 – Grant: Regional Research Project W-133 (NEV05140), 3 years 1995-1997. “Benefits and Costs Transfer in Natural Resource Planning: Valuing Risky Recreation: The Demand for Rock Climbing.” (code # 1403-152-5140)

$900,000 – Funded Consulting Project – Co-P.I. and co-manager on Natural Resource Damage Assessment of the Kalamazoo River and for Saginaw Bay and River, for Michigan Department of Natural Resources, 1993-1995.

$300,000 – Funded Consulting Project – Assessment of the Impacts of Reservoir Level Changes for the U.S. Army Corps of Engineers, Bonneville Power Administration and U.S. Bureau of Reclamation, 1993-1994 (Co-manager of project)

$75,000 - Funded Consulting Project – Natural Resource Damage Assessment of the G & H Landfill for Michigan Department of Natural Resources, 1993 (Co-Principal investigator)

$30,000 – Funded Consulting Project – Scoping Study on the Effect of Climate Change on Water Resources, U.S. Environmental Protection Agency, 1991.

ARTICLE, BOOK, PROJECT GRANT, SCHOLAR REVIEWER:

Projects/Organizations

Bi-national Agricultural Research and Development Fund (Israel and United States); University of Delaware-Sea Grant Program; U.S. Environmental Protection Agency – Office of Water (2003), U.S. Environmental Protection Agency and National Science Foundation Valuation Grant Proposals (2002); National Center for Atmospheric Research, National Science Foundation, Graduate Fellowship Program (2006); National Science Foundation Career Grants (2002); Harvard Univ. Center for Risk (conference), The Nature Conservancy (D.H. Smith Fellows Program); Ohio State University (Agricultural and Development Economics faculty grants program), Western Energy Biomass Program; Tenure/promotion reviews: (Kansas State University, New Jersey Institute of Technology, North Dakota State University, Univ. of New Mexico, Denver University, Texas A&M University)

Books/Journals

Addison-Wesley Longman Press (Textbook Division)

Agricultural and Resource Economics Review

American Journal of Agricultural Economics

Australian Journal of Agricultural and Resource Economics

BMC Public Health

Canadian Journal of Agricultural Economics

Choices

Climatic Change

Climate Research

Coastal Management Journal

Contemporary Economic Policy

Environment and Development Economics

Ecological Economics

Ecology and Society

Economics Bulletin

Environmental and Resource Economics

Environments

Forest Science

Growth and Change

Health Economics

Health, Risk, and Society

Journal of Agricultural Economics

Journal of Agricultural and Resource Economics

Journal of Disaster Studies, Policy and Management

Journal of Applied Econometrics

Journal of the Association of Environmental and Resource Economists

Journal of Economic Behavior and Organization

Journal of Environmental Economics and Management

Journal of Environmental Economics and Policy

Journal of Environmental Planning and Management

Journal of Environmental Management

Journal of Forest Economics

Journal of Political Economy

Journal of Public Economics

Journal of Socio-Economics

Journal of Water Resources Planning and Management

Land Economics

Marine Resource Economics

Resource and Energy Economics

Review of Agricultural Economics

Review of Economics and Statistics

Review of Economics of the Household

Risk Analysis

Society and Natural Resources

Shore & Beach

Southern Economic Journal

Transport Policy

Transportation Research, Part D

Water Resources Research

Weather, Climate and Society

Western Economic Forum

World Development

 LOCAL (University Committee), INSTITUTIONAL AWARDS AND SERVICE

Promotion and Tenure Committee, and workgroup leader/recruiting coordinator for resource economics group, Dept. of Agricultural Economics, Texas A&M University, Fall 2004-2006.

Position search committees (regional economics; risk economics), Texas A&M University, 2005, 2006; (energy economics), 2013.

Graduate student awards committee, Dept. of Agricultural Economics, Texas A&M Univ., Fall 2005.

Appointed co-head of the University of Nevada, Reno Tahoe Research Committee, with Dr. Dennis Murphy, 2001-July, 2002.

Appointed to University of Nevada, Reno Appeals Committee. 2001-2003.

Nominated for *Teacher of the Year* (1997, 1998, 2000), College of Agriculture, University of Nevada, Reno.

Appointed member, Tahoe Institute Committee for the University of Nevada, Reno 2000.

Elected Curriculum Committee Chair, 1998, Dept. of Applied Economics and Statistics, UNR.

Appointed chair (1997), and member of the University of Nevada, College of Agriculture Research Committee, 1997-1999.

Appointed member of the NCE/NAES Joint Proposal Evaluation and Review Panel, College of Agriculture, University of Nevada, January 1997.

Appointed seminar director, Dept. of applied economics and statistics, UNR (1995 – 1999)

Senior Honors Thesis Director, Vassar College, 1989.

Member Curriculum Committee, Vassar College, 1988 – 1990.

Education Grant – Awarded a Ford Foundation Grant for course development, Summer 1990, Vassar College.

Education Grant – Sloan Grant for course development – Vassar College, 1989.

STUDENT SUPERVISING/ADVISING

Current MS or PhD committee member for:

Laurence Huang, PhD, 2016-2018. Michael Black, PhD, 2018. Jesse Backstrom, PhD, 2017-2018.

**Committee Service Completed:**

Lauren Rhodes, PhD, Three Essays on the Economic Relationships between Climate and Agriculture, 2015-2016, completed August 2016.

Daniel Tebo, MS, Landslides/Debris Flow in Boulder, CO. Department of Geology, Mark Everett (chair), 2015-2016, completed June 2016.

Sasathorn Tanapeeyakul, PhD, “Spatial Appraisal and Valuation of Environment and Ecosystems (SAVEE)” Dept of Ecosystem Sciences and Management, Douglas Loh (chair), 2010-15, completed December 2015.

Pei Huang, PhD, Ag. Econ. “Three Essays in Fisheries Management and Climate Change Adaptation.” R.T. Woodward (chair), 2012-2015, completed May 2015.

Thierry Kalisa, PhD, Economics “Economic Valuation of Ecosystems and natural Resources.” Université de Lyon, France, (Philipe Polomé, chair), 2012-2014: completed June, 2014.

Chin Hsien Yu, PhD, Ag. Econ. “The Impacts of Typhoons Induced by Climate Change on Taiwan’s Agricultural Sector.” Bruce McCarl (chair), 2010-2014; completed, May 2014.

Padmaja Pancharatnam, PhD, Ag. Econ. “Three Essays on Environmental Issues in India”, Richard Woodward (chair), 2010-2013 (completed, May 2014).

Simone Cerroni, PhD, Economics. “Public perceptions of climate change risks on apple orchards in Trentino and public acceptability of adaptation policies to climate change in Trentino” Sandra Notaro (co-chair), Dept. of Economics, University of Trento, Italy, 2010-2013 (completed February, 2013).

Phil Xu, PhD, Ag. Economics, “Fairness and Experimental Economics,” Fall 2012 -2013 .

Chao Huang, PhD, Civil Engineering, “Examining Decision-Making Surrounding the Use of Managed Lanes by Katy Freeway Travelers: a Prospect Theory Approach,” Mark Burris (chair), 2012-2013; completed December 2013.

Marta Wlodarz, PhD, Ag. Econ. “Three Essays on Bioenergy Production in the United States,” Bruce McCarl (chair), 2010-2013, completed, December 2013.

Prem Chand Devarasetty, PhD, “The Value of Travel Time and Reliability.” Mark Burris (chair), Civil Engineering, 2010-2012. *Completed*, Fall 2012.

Heather Wade, MS “Arsenic Contamination in Bryan, Texas,” Sam Brody (chair), College of Architecture, 2010-2011, completed May, 2011.

Callie McAdams, MS, “Willingness to Pay for Pomegranates: Impact of Product and Health Futures Using Non-hypothetical Ranking Procedures.” Marco Palma (chair), Completed, May 2011.

Sihong Chen, MS, Ag. Economics, “Risk Perception and Willingness to Pay for Removing Arsenic in Drinking Water,” (co-supervisor with Alexander Brown, Dept of Economics), Completed, August 2011.

To Nugyen, PhD, “Essays on Econometric Modeling of Subjective Perceptions of Risks in Environment and Human Health.” Ag. Economics (co-chair with Richard Woodward), Completed, May 2008.

Memory Machingambi, “Essays on the Impacts of Development on Agricultural Land Amenities, and Values in Texas.” PhD dissertation, Jim Mjelde (chair), Completed, May 2010.

Jason Kurten, “Who Are Climbing the Walls? An Exploration of Specialization and Serious Leisure in the Social World of Indoor Rock Climbing”, MS thesis, RTPS, Texas A&M University [TAMU] (chair, Scott Shafer), 2008-2009, completed December 2009.

John Lowery, “Reactions to Value Pricing by Different Suburban Population Groups” MS thesis, Civil Engineering, TAMU (chair, Mark Burris, Civil Engineering), 2008-2009, Completed 2009.

Sunil Patil, "Understanding and Estimating the Value Travelers Place on their Trips on Managed Lanes", PhD, Civil Engineering, TAMU (chair, Mark Burris), 2008-2009, completed December 2009.

Aaron Mumula, PhD, “Economics of commercial shrimp operations” Dept. of Agricultural Economics, TAMU (chair, Richard Woodward), completed May, 2009.

Yongxia Cai,“Water Scarcity, Climate Change, and Water Quality: Three Essays in Water Resources Research.” Dept. of Agricultural Economics, TAMU (chair, Bruce McCarl), Completed May, 2009.

Kati Ireland Stoddard, MS, “Public Responses to Elevated Levels of Arsenic in Drinking Water: An Investigation of Survey Participation, Risk Perception, and Averting Behavior” Hydrologic Sciences Interdisciplinary Program, TAMU, Completed June 2007.

Hwa Kim, PhD, “Tradable Fishing Permits” Dept of Agricultural Economics, TAMU (chair, Richard Woodward), completed December, 2006

Paan Jindapon, PhD, “Essays on Risk Aversion” Dept. of Economics, TAMU (chair, William Neilson), completed August 2006.

Memory Machingambi, PhD “The Effects of Billing Information on Water Consumption in Texas,” TAMU, Ron Griffin (chair) 2006 – not completed.

Bill Brower, MS, “Valuing Recreational Impacts.” Dept of Recreation, Parks, and Tourism Sciences, TAMU, Spring 2006, not completed.

Andrew Kerins, MS Degree, Dept. of Recreation, Parks and Tourism Sciences, TAMU (chair, David Scott). “Serious versus Casual Recreational Activities.” Completed, August 2005.

Andres Silva, PhD, “Risk and Food Products” Dept of Agricultural Economics, TAMU (chair, Rudy Nayga), 2005-2006, not completed.

MS committee member for Jamie Trammel (MS, Dept. of Geography), U Nevada, Reno [UNR] served in 2003.

PhD committee member for Kurt Unger (Graduate Program in the Hydrologic Sciences), UNR, served in 2003.

Margaret Pennington, “The Value of Instream Flow,” MS degree, Dept. of Applied Economics and Statistics, UNR, primary advisor 2003, resigned upon moving, Sept. 2004.

MS committee member for Amod Kher, Dept. of Applied Economics, UNR. “Dynamic Modeling of the Truckee River’s Flows and Implications of Flood Management: A State-Space Approach.” Completed, July 2004.

MS committee member for Marnee Benson, Dept. of Environmental and Resource Sciences, UNR. “Assessing the Risk of Exposure to Arsenic.” Completed, May 2003.

MS committee member for McClain Peterson, Dept. of Environmental Studies, University of Nevada, Las Vegas. “The Value of Protecting the Las Vegas Wash.” Completed, December 2002.

MS committee member for Kim Snow, Department of Environmental and Resource Science, UNR. “Control Methods and Policy for Coyote Population Impacts on Sheep.” Completed August 2001.

MS committee member for Yanping Ye, Dept. of Applied Economics, UNR “A Micro-econometric Analysis of Cigarette Consumption.” Completed August 2001.

MS committee member for Stacy Langsdale, Hydrologic Science Graduate Program, UNR. “A Systems Approach to Modeling the Walker River Basin in Nevada.” Completed May2001.

MS committee member for Barry Dahlberg, “Water in the West,” Department of History, UNR, Graduation in 2001.

PhD Committee member for Therese Cavlovic, Department of Economics, University of New Mexico, Albuquerque. “Valuing the Losss of Access: an Institutional and Welfare Economics Analysis of Climbing on Public Lands in the United States.” Completed May 2000.

Jeanmarie Agapoff, MS degree, Dept. of Applied Economics and Statistics, UNR. “A Hedonic Study of the Impact of Oxygenated Fuels on Water Suppliers’ Treatment Costs.” Completed August 2000.

MPA committee member for Lou Christianson, Department of Political Science, UNR. “History of, and Political Issues for Lake Tahoe.” Completed December 1999.

MS committee member for Jule Humberstone, Department of Hydrologic Sciences, Desert Research Institute and UNR. “Walker River Basin Water Quality Modeling: Identification and Quantification of Sources of Total Dissolved Solids in the Walker River Basin and Correlation of Elevated TDS Levels With Fish Populations.” Completed May 1999.

Eric Huszar, MS degree, Department of Applied Economics and Statistics, UNR, “Contingent Valuation and the Economics of Mine Dewatering.” Graduation and completion, July 1999.

Betsy Fadali, MS degree, “Water-based Recreation at Walker Lake and Surrounding Waters”, Dept. of Applied Economics and Statistics, UNR. Completed December 1997.

PhD dissertation committee member for Marilyn Banta, Department of Biology, UNR. 1996-97.

Acting PhD dissertation supervisor for Mr. Assane Djeto, Dept. of Economics, University of Colorado, Fall 1986. “Corner Solutions in Recreation Demand Models.”

RECENT PAPER PRESENTATIONS, SEMINARS, AND OTHER PROFESSIONAL ACTIVITIES:

Presentations or Seminars at the United States Air Force Academy, Universities of Autonoma de Barcelona (Spain), California (Berkeley), Arizona State, California State, (at Chico, at Cal Polytechnic at San Luis Obispo, and San Francisco), Central Florida, Chicago, Colorado, Colorado School of Mines, Denver, Edinburgh (Scotland), Florida, Florida Institute of Technology, Florida International University, Florida State, Massachusetts, Michigan State, Nevada-Las Vegas, Nevada-Reno, New Mexico, North Carolina State, Oregon, Oregon State, Portland State, Queen’s University of Belfast (Ireland), Southern Methodist University, Texas A & M, Utah State, Wyoming, Wisconsin-La Crosse, Wisconsin-Whitewater, and York (England); Colleges of Reed, Vassar, Williams, and William and Mary. Frequent presenter and discussant for the Association of Environmental and Resource Economics, American Agricultural Economics Association, W-2133 (formerly W-133 and 1133 USDA Nonmarket Valuation Regional Project.

Interpersonal Discount Rates. Seminar, Dept. of Economics, Colorado State University, March 2018.

Discussant of the Total Value Model for the BP oil spill, invited panelist for NOAA. Gulf of Mexico Research Conference, New Orleans, February 2017.

Convex Time Budgets and Individual Discount Rates in the Long Run. With T. Grijalva, J. Lusk and R. Rong. Presented (Shaw) at Arizona State University (Department of Economics), March, 2015. Presented (Shaw) to the Integrated Assessment Modeling (IAM) group, National Center for Atmospheric Research, April, 2015.

“Difference in Probability Weighting: A managed lane choice application.” Chao Huang, Mark Burris, W.D. Shaw. Poster presented at the annual meetings of the Transportation Research Board. January, 2015.

Incorporating subjective risks into stated choice experiments to test for scenario adjustment.” Simone Cerroni, Sandra Notaro, Roberta Raffealli, and W.D. Shaw. Discussion paper, University of Aberdeen, Scotland, February 2014. Accepted for presentation (by Cerroni) at the annual meetings of the Associazione Italiana di Economia Agraria E Applicata and the European Association of Agricultural Economics. Also presented (Shaw) at the University of Wyoming, April 19th 2013.

“A Prospect Theory Approach to Estimating the Use of Managed Lanes.” Chao Huang, Mark Burris, and W. D. Shaw. Presented at the annual meetings (by Burris) of the Transportation Research Board, January 2014.

“Do Monetary Incentives and Chained Questions Affect the Validity of Risk Estimates Elicited Via the Exchangeability Method? An Experimental Investigation,” oral presentation (Simone Cerroni) as a contributed paper at the 28th Triennial Conference of the International Association of Agricultural Economists (IAAE) in Brazil from August 18 to 24, 2012.

“Discounting with Long Time Horizons.” Therese Grijalva, Jay Lusk, W.D. Shaw. Presented in the Dept. of Psychology, Texas A&M (2-2012), and at Economics Dept. at the University of Denver, 11-2011.

“Uncertainty and Preferences for Species Preservation: An Experiment.” Robert Berrens, Therese Grijalva, and W. Douglass Shaw, selected for presentation at the Fourth World Congress of Resource and Environmental Economics, Montreal, Canada (June 2010). Also presented at the 2010 annual meetings of the W-2133 Research group (February, Tucson, Az), and an early version presented at Colorado State University, April 2009.

Risk and Uncertainty in Natural Resource and Environmental Management. Invited seminar, Florida International University, November 2009.

Water Quantity, Quality, Risk and Uncertainty: What Water Resource Managers Wish They Knew in the 21st Century. W. Douglass Shaw and Richard T. Woodward, Draft, March 2009. Presented at Michigan State University, May 2009.

 “Affects of Perceived Risks of Arsenic in Drinking Water on Bottled Water Consumption.” Presented at the annual U.S.D.A./W-2133 meetings, February 2009, Austin, TX and at the annual meetings of the AAEA, Minneapolis, MN (July 2009 by Paul Jakus). Also as seminar, Utah State University (Paul Jakus, presenter), and Florida Institute of Technology, Melbourne, Florida - November, 2008.

“Economic Frameworks for Assessing Climate Change Impacts on Outdoor Recreation.” Invited paper, *Resort and Commercial Recreation Association* annual conference, New York, November, 2008.

“Welfare Values for Ambiguous Risks: the Case of Arsenic.” Mary Riddel and W. Douglass Shaw. Presented for seminar, Hazard Reduction and Recovery Center, Texas A&M University, October 31,; Department of Economics, University of Oregon, October 10; Department of Economics, University of Alabama, November 6; Department of Economics, Vassar College, November 10th, 2008, Department of Economics, University of Central Florida, November, 2008.

“Risk Perception and Altruistic Averting Behavior: Planned Expenditures to Remove Arsenic in Drinking Water.” Yongxia Cai, W. Douglass Shaw, and Ximing Wu, draft discussion paper, 2008. Presented at the 2008 Annual meetings of the American Agricultural Economics Association, Orlando, Florida (Cai, presenter).

“Modeling Perceived Distributions of Mortality Risk from Arsenic Concentrations in Drinking Water” Selected paper, 2008 (February) W-2133 Annual Meetings, Hawaii (Paul Jakus, presenter).

“Managing Water Resources Under Uncertainty about Fish Populations.” Presented at Pathways to Success: Integrating Human Dimensions into Fish and Wildlife Management conference, Estes Park, Colorado, October 2008, and for the Dept. of Ecology, Washington State, In-Stream Flow Workshop, June 12, 2008. Previously presented at the Water Initiative Seminar Program, Utah State University, January 30, 2008, and for the Invited Speaker Program, Environmental Defense Fund, Boulder, Colorado, July, 2007.

“Perceived Hurricane Risks and Location Decisions: Analysis of a Sample of Katrina Evacuees,” Natural Hazards and Disasters Researchers’ Meeting, July 2007, Boulder, Colorado; presented at the 2007 annual meetings of the University Council on Water Resources (Justin Baker, presenter), Boise, Idaho. Also presented at the University of Alabama, Spring 2009.

“Option Prices in a Non-Expected Utility Framework” (presented by P.Jindapon) at the University of Colorado and Environmental Protection Agency Workshop, Vail, Colorado, September 2006.

“Perceived Mortality Risks from Arsenic in Drinking Water.” (coauthored), presented at the EPA Workshop on Morbidity and Mortality, Washington DC, April 10-12th, 2006, presented as seminar, U. of Texas School of Public Health, Houston, TX (April 28th, 2006); presented at the 2007 annual meetings of the University Council on Water Resources (Kati Stoddard, presenter), Boise, Idaho.

 “Perceived Mortality Risks and Healthful Food Products: An Experiment” (coauthored), Presented at the 2006 annual meetings of the American Agricultural Economics Association, Long Beach (AERE Session), July 2006. Also presented at Texas A&M University, March 2006, and at California Polytechnic University at San Luis Obispo (November, 2006).

 “Empirical Estimates of Option Prices: A Hunting Lottery Guarantee,” (coauthored), presented at the annual meetings of the W-1133 Regional Research Group, San Antonio, TX (February), 2006.

 “Perceived Risks of Transportation of Nuclear Wastes’ (w/Mary Riddel) Selected paper, 2nd World Congress for Environmental and Resource Economics, Monterey, CA, June 2002. Also given as Seminar, Dept. of Economics, College of William and Mary (January, 2002); Seminar, Dept. of Economics and Finance, University of Wyoming, December, 2001. Also presented at invited seminar, Department of Economics, University of Chicago, June 2002, Institute of Behavioral Science, University of Colorado, February 2003, Department of Agricultural Economics, Colorado State University, February 2003, Department of Economics, U.S. Air Force Academy, March 2003, Department of Economics, California-Chico State University, April, 2003; Denver University, May 2003, University of California-Berkeley, February 2004, Dept. of Economics, Southern Methodist University, March 2005; Association for Public Policy Analysis and Management, November 2005, Washington D.C..

“Selected Issues in Water Resource Economics.” Seminar, Department of Agricultural Economics, Texas A & M, June, 2004

“The Economic Benefits of Rock Climbing” (w/ T. Grijalva). Invited Presentation, Union Internationale Des Association d’ Aplinisme (UIAA) “Benefici e costi dell’attività aplinistica ed escursionistica in montagna” Conference on the Benefits and Costs of Mountaineering, Trento, Italy. May 2002.

“The Affects of Ground Level Ozone on Asthma Patients: Revisiting the Data.” Presented at a workshop sponsored by the Galloway Foundation, Dept. of Economics, University of Central Florida, November, 2001.

“The Potential for Benefits Transfer for Groundwater Valuation in California.” Special water quality session, State of California, 2001 Annual meetings, Western Economic Association International, San Francisco, July 5-8th.

Selected/invited paper, “Perceived Hazard and the Demand for Fishing: Welfare Effects from Removing Fish Consumption Advisories.” With Paul Jakus. Presented at the 2001 AERE Workshop on Risk, Bar Harbor, Maine. Also presented (Jakus) at the 2001 annual meetings of the American Agricultural Economics Association, Chicago.

Seminar, “Brand Choice and Total Purchase Frequency Revisited.” Selected paper, Western Economic Association, Vancouver, British Columbia, July, 2000. Also selected for and presented at the California Environmental Workshop, Univ. of California at Santa Barbara, sponsored by the U. S. Environmental Protection Agency, May, 2000. Presented in the Dept. of Economics, Colorado State University, February 2000. Also presented in the Dept. of Agricultural and Resource Economics, North Carolina State University and the Research Triangle Institute, Raleigh-Durham, November 1999.

Seminar, “Economics of Gold Mining Dewatering,” presented in October, 1999 at the University of Edinburgh, Scotland, the Queen’s University of Belfast, Northern Ireland, and at York University, England.

“Analysis of Supply Shocks in a Watershed System.” With David Lambert. Selected paper jointly presented at the 1st World Congress of Environmental and Resource Economics, Venice, (June 1998).

“Modeling Overnight Trips: An Application of the Repeated Conditional Multinomial Logit Model.” Seminar, University if Autonoma de Barcelona, Spain (June 1998).

Roundtable Participation: Values for the Environment. North American Interdisciplinary Conference on Environment and Community. University of Nevada, Reno: February, 1998.

Selected paper: “A Finite Mixture Approach to Allowing for Income Effects.” With J.S. Shonkwiler. Presented at the 1997 annual meetings of the American Agricultural Economics Association – AERE Sessions, Toronto, Ontario: July.

Invited participant and panelist at the Transportation Workshop, Lake Tahoe Presidential Forum, Reno, Nevada. July 1997. Hosted by Rodney E. Slater, Secretary of the U.S. Department of Transportation.

Invited peer presentation: “Incorporating Fisheries Biology into Recreational fisheries Economics: Lessons From Natural Resource Damage Assessment.” Presented at special symposium: Ecological Economics: Valuation of species, ecosystems, and natural resource damages, 1996 Annual meetings of the Ecological Society of America and Society for Conservation Biology. Providence, R.I., August, 1996.

Invited Lecturer, Special Program on Fiscal Federalism for participants from the government of Kazakstan. Economics Institute, Boulder, CO. August 6, 1996.

Invited paper presentation: “Residential Demand for Water: A Meta-analysis of Estimated Price Elasticity’s.” Presented at the American Association of Arid Lands, April 29-30, Reno, NV.

Invited paper presentation: “Valuing Wilderness Areas: An Environmental Economist’s Perspective.” Seventh North American Interdisciplinary Wilderness Conference. March , 1996. Reno, Nevada.

Invited Lecture: “Environmental Impacts and Project Appraisal”, Presented to the U.S. AID-funded visitors (Group II) from the Central Asian Republics, November 1994. Economics Institute, Boulder, Colorado.

Invited Lecture: “Environmental Impacts and Assessment in Asia.” Presented to the U.S. AID-funded visitors (Group I) from the Central Asian Republics, August 1994. Economics Institute, Boulder, Colorado.

Workshop: “Natural Resource Damage Assessment.” Conducted for the U. S. Fish and Wildlife Service, Breckenridge, CO, April 1994.

Invited presentation: “The Economics of Natural Resource Damage Assessment.” For the Michigan Dept. of Natural Resources, Annual Division In-Service Training Meetings, Central Michigan University, June 17, 1993.

Other Professional Activities

Consultant to: Applied Technology Council, Asian Development Bank, Battelle Memorial Laboratories, British Columbia Ministry of Environment, Colorado Attorney General’s Office, Delaware Dept. of Natural Resources and Environmental Control, Environomics, Inc., Florida Dept. of Environmental Protection, Hagler, Bailly Consulting, Inc., Hydrosphere Resources Consulting, Inc., Industrial Economics, Inc., Makah Indian Tribe, Michigan Dept. of Natural Resources and Attorney General’s Office, Montana Department of Health and Environmental Sciences, New Mexico Office of the Natural Resource Trustee, New York State Department of Environmental Conservation, National Oceanic and Atmospheric Administration, Puerto Rico Dept. of Natural Resources, Quileute Indian Tribe (Olympic Peninsula, Washington), SAIC, Inc., Shook, Hardy, and Bacon, LLP, Texas Office of the Attorney General, Toxicology and Ecological Risk Assessment (TERA), U.S. Army Corps of Engineers, U.S. Congressional Committee Review of FEMA, U.S. Environmental Protection Agency, U.S. Bureau of Reclamation (DOI), U.S. Forest Service (USDA), Washington Dept. of Wildlife, Washington Dept. of Ecology.

Paper discussant: W-1133 Annual Meetings, February 2006.

Expert Economics Witness, Washington Dept. of Ecology, 2002; Michigan Attorney General’s Office, 1993

Expert Economics Witness, U.S. Dept. of Justice and New Jersey Dept. of Environmental Protection, 1992/1993

REFERENCES (Client and other academic references available upon request):

Richard T. Carson, Professor, Dept. of Economics, University of California, San Diego, La Jolla, CA 92093 (619)534-6319 (rcarson@ucsd.edu)

Jason Shogren, Stroock Professor of Natural Resource Conservation & Management
 University of Wyoming , Dept. of Economics and Finance, Dept. 3985, 1000 E. University Avenue , Laramie, WY  82071  Phone: 307.766.5430  07.766.5090 (fax)  jramses@uwyo.edu

V. Kerry Smith, Professor Emeritus, formerly W.P. Carey Professor of Economics, Dept. of Economics, Arizona State University (Kerry.smith@asu.edu).

PERSONAL INFORMATION:

Married, three children. Enjoys rock climbing/ biking. Present or past member, Access Fund, American Alpine Association. Past Vice President, Reno Tennis Club. Professional jazz pianist - occasional professional engagements (e.g. Denver’s Dazzle Jazz Club, summer 2012).

Appendix: Teaching Materials (2012 – 2019)

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| Year/Semester | Course | Enrollment | Mean Stdnt. Eval. | Dept. Mean |
| 2012A2012C2012C2013C2013C2014A2014C2014C2015C2015C2015C2016C2017A2017A2017C2018A2018A2018C2019A2019ATotal/Average | 350350673673677350350673350673677350350606350350606350606677 | 75422127434357336496166682176552UnderG: 621Grad: 78 | 3.87NANANANA4.584.4754.514.87NA4.053.693.574.204.293.944.55NANAUnderG: 4.25Grad: 4.35 | 4.454.524.624.664.694.664.604.604.664.364.504.424.45 |

1. Shaw also had a 25% appointment with A&M’s Department of *Recreation, Park, and Tourism Sciences* from 2004 to 2009 and he is currently a Research Fellow in the *Hazard Reduction and Recovery Center*, which specializes in natural hazards research. He was a participating faculty member with the graduate program in *Water Management and Hydrologic Sciences* from 2005 to 2013. [↑](#footnote-ref-1)
2. [Also published in The 22nd Interim Report and Proceedings from the Annual Meeting: W2133 Benefits and Costs of Natural Resources Policies Affecting Public and Private Lands. Compiled by Roger H. von Haefen, September 2010.] [↑](#footnote-ref-2)
3. Earlier version published in W-1133: Benefits and Costs of Resource Policies Affecting Public and Private Land, Proceedings from the annual meeting, Richmond, Virginia, March 2007. Compiled by Randall S. Rosenberger. [↑](#footnote-ref-3)
4. **[**Earlier version published in the Proceedings of the W-133 Conference (2001), Fourteenth Interim Report, Compiled by Jerry Fletcher, West Virginia University.] [↑](#footnote-ref-4)
5. [Earlier version published in Western Regional Research Publication: Eighth Interim Report, W-133 Benefits and Costs Transfer in Natural Resource Planning. October, 1995. Compiled by D. Larson, Department of Agricultural Economics, University of California – Davis.] [↑](#footnote-ref-5)
6. [Earlier version published in Western Regional Research Publication: Ninth Interim Report, W-133 Benfits & Costs Transfer in Natural Resource Planning. August, 1996. Compiled by J. Herriges, Iowa State University.] [↑](#footnote-ref-6)
7. [Earlier version published in Proceedings of the W-133 Regional Research Project, 1999, Tucson, Arizona, W. D. Shaw (ed.)] [↑](#footnote-ref-7)
8. This paper incorporated a peer review coordinated by the editors of the series. [↑](#footnote-ref-8)
9. This paper incorporated a peer review coordinated by the editors of the book. [↑](#footnote-ref-9)