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## **EDUCATION**

University of California, Berkeley, 1982-1985.

Ph.D., Department of Agricultural and Resource Economics, December 1985. Fields in Natural Resource Economics, Agricultural Policy, Applied Statistics, and Mathematical Economics. National Wildlife Federation Fellowship. Teaching Associate.

M.A., Department of Statistics, 1985.

George Washington University, 1977-1982.

M.A., School of Public and International Affairs, 1979. Emphasis on International Economics, Comparative Public Policy, and International Politics. Scottish Rite Fellowship. Supplemental courses in econometrics and survey techniques, 1980-1982.

Mississippi State University, 1973-1977.

B.A. French/Political Science, 1977. Academic Scholarship.

## **PROFESSIONAL EXPERIENCE**

University of California, San Diego, 1985-present.

Chair 2002-2006; Professor, 1996-present; Associate Professor, 1990-1996; Assistant Professor 1985-1990. Department of Economics. Responsible for teaching graduate courses in natural resource economics, econometrics, and statistical computing, and undergraduate courses in environmental economics, energy economics, public policy, and marketing. Chair, Social Science Computer Committee; Vice Chair, Academic Senate Committee on Computing; Member, Academic Senate Committees on Educational Policy and Undergraduate Statistics Courses; Member, Environmental Studies and Environmental Sciences Program Steering Committees; service on departmental graduate and recruiting committees. Senior Fellow, San Diego Super Computer Center. Research Director for International Environmental Policy, UC Institute for Global Conflict and Cooperation.

Visiting Professor.

University of Sydney, 1995 and 1997; University of Oslo, 1996; UNSW 2005; UTS, 2007.

Association of Environmental and Resource Economists

President 2004-2007. Board Member 2001-2003. Program Chair World Congress 2002.

Natural Resource Damage Assessment, Inc., 1990-2001.

Principal. Assessed the economic damages associated with several major environmental incidents, including the Exxon Valdez oil spill for the State of Alaska.

Resources for the Future, October 1979-1990.

1982-1990, Consultant/Associate Research Program. Staff Member. 1979-1982.

Southern Research Associates, 1977-1979.

Political and Marketing Analyst.

## PUBLICATIONS

- (and Maximillian Auffhammer), "Forecasting the Path of China's CO2 Emissions: Using Province Level Information," *Journal of Environmental Economics and Management*, forthcoming.
- (and Sheila Walsh), "Preventing Damage from Oil Spills: Lessons for the Exxon Valdez," *Oceanis*, forthcoming.
- Contingent Valuation: A Comprehensive Bibliography and History* (Northampton, MA: Edward Elgar, forthcoming).
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- (and Michael B. Conaway, W. Michael Hanemann, Jon A. Krosnick, Robert Cameron Mitchell, and Stanley Presser), *Valuing Oil Spill Prevention: A Case Study of California's Central Coast* (Boston: Kluwer Academic Press, 2004).
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- "Review of 'The Economic Valuation of the Environment and Public Policy: A Hedonic Approach' by Noboru Hidano," *Environment*, vol. 46, 2004.
- (and Gui Li, Paul Wang, and Jordan Louviere), "Archetypal Analysis: A New Way to Segment Markets Based on Extreme Individuals," in *A Celebration of Ehrenberg and Bass: Marketing Knowledge, Discoveries and Contribution* (Adelaide,

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- (and Jon A. Krosnick, Allyson Holbrook, Matthew K. Berent, W. Michael Hanemann, Raymond J. Kopp, Robert Cameron Mitchell, Paul A. Ruud, V. Kerry Smith, Wendy R. Moody, Melanie C. Green, and Michael Conaway), "The Impact of "No Opinion" Response Options on Data Quality: Non-Attitude Reduction or an Invitation to Satisfice?," *Public Opinion Quarterly*, vol. 66, 2002.
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- "The Practice of Environmental and Resource Economics," (guest editor), Special Issue of *Environmental and Resource Economics*, vol. 22, 2002.
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- (and Janet Lord, Margaret Portwood, William Fowler, and James Lieberman), "Upper vs. Lower Extremity Functional Loss in Neuromuscular Disease," *Archives of Physical Medicine and Rehabilitation*, vol. 68, January 1987.

- (and Robert Cameron Mitchell), "Protests, Property Rights, and the Siting of Hazardous Waste Facilities," *Resources*, Fall 1986.
- (and Robert Cameron Mitchell), "Property Rights, Protest, and the Siting of Hazardous Waste Facilities," *American Economic Review*, vol. 76, May 1986.
- (and Robert Cameron Mitchell), "Some Comments on the State of the Art Assessment," in R.G. Cummings, D.S. Brookshire, W.D. Schulze, eds., *Valuing Environmental Goods: A State of the Arts Assessment of the Contingent Valuation Method* (Totowa, NJ: Rowman and Allanheld, 1986).
- (and Shankar Subramanian), "A Robust Data Smooth Based on an L-Estimator," 1985 *Proceeding of the Statistical Computing Section of the American Statistical Association*, (Washington: American Statistical Association, 1986).
- (and Ray J. Kopp and William J. Vaughan and Michael Hazilla), "Implications of Environmental Policy for U.S. Agriculture: The Case of Ambient Ozone," *Journal of Environmental Management*, Vol. 20, 1985.
- (and Joe A. Oppenheimer), "A Reply to Our Critics," *American Political Science Review*, vol. 79, no. 3, September, 1985.
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- (and Robert Cameron Mitchell), "Comment on 'Option Value: Empirical Evidence from a Case Study'," *Quarterly Journal of Economics*, vol. 100, February 1985.
- "Compensating for Missing Data and Invalid Responses in Contingent Valuation Surveys," in 1984 *Proceedings of the Survey Research Section of the American Statistical Association* (Washington: American Statistical Association, 1985).
- (and Irving Hoch), *Energy Oriented Input-Output Models for 1972 and 2000* (Palo Alto, CA: Electric Power Research Institute, 1984).
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- Vaughan, William J. and Clifford S. Russell, *Freshwater Recreational Fishing: The National Benefits of Water Pollution Control* (Baltimore, MD: Resources for the Future/Johns Hopkins University Press, 1982).
- Sherefkin, Mark, "Aggregate Environmental Epidemiology: Retrospect and Prospect," Report to the U.S. Environmental Protection Agency, March 1981.

## REPORTS AND OTHER PAPERS

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- Economics, University of California, San Diego, August 2006.
- (and Jordan Louviere), "Statistical Properties of Consideration Sets," Discussion paper 2006-07, Department of Economics, University of California, San Diego, August 2006.
- (and Christopher Leggett, Robert W. Patterson, Robert E. Unsworth, James E. Neumann, Kevin Boyle, Robert Cameron Mitchell, "Valuing Visibility in National Parks: An Overview of the Issues," report to the Air Resources Division, U.S. National Park Service, March 2004.
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- (and Rachel Cichowski), "Genetically Modified Foods: Economy, Controversy, Legality," draft manuscript, University of California, Institute on Global Conflict and Cooperation, September 2000.
- (and Nadja Marinova and David Zilberman), "Smoothing the Waters: the Jordanian Rift," University of California Institute on Global Conflict and Cooperation, Policy Brief 11-1, October 1999.
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- (and Robert Cameron Mitchell, W. Michael Hanemann, Raymond J. Kopp, Stanley Presser, and Paul A. Ruud), "Contingent Valuation and Lost Passive Use: Damages from the Exxon Valdez," University of California, San Diego, Discussion Paper 95-02, January 1995.
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- (and William W. Wade and Theodore Graham-Tomasi), "Rebuttal to Philip Meyer: 'Value Associated with King Salmon of the Sacramento/San Joaquin/San Francisco Bay System,' Bay Institute Exhibit No. 41, July 1987: Philip Meyer: 'The Value of King Salmon, Harbor Seals, and Wetland of San Francisco Bay,' Bay Institute Exhibit No. 41, June 1987," Report to Metropolitan Water District of Southern California. September, 1987.
- (and Robert Cameron Mitchell), "The Use of Contingent Valuation Data for Benefit-Cost Analysis in Water Pollution Control," report to the U.S. Environmental Protection Agency, September 1986.
- (and Robert Cameron Mitchell), "Valuing Drinking Water Risk Reductions Using the Contingent Valuation Method: A Methodological Study of Risks From THM and Giardia," report to the U.S. Environmental Protection Agency, May 1986.
- (and Theodore Graham-Tomasi, Charles Rund, and William Wade), "Problems with the Minnesota Pollution Control Agency's Survey Instrument and Survey Results," February, 1986.
- "Notes on Option Value and Contingent Valuation," Discussion Paper QE86-3, Resources for the Future, January 1986.
- "Three Essays on Contingent Valuation," Doctoral Dissertation, University of California, Berkeley, August 1985.
- (and Gary Casterline and Robert Cameron Mitchell), "A Note on Testing and Correcting for Starting Point Bias in Contingent Valuation Surveys," Discussion Paper QE85-11, Resources for the Future, January 1985.
- (and Joe A. Oppenheimer and Robert Cameron Mitchell), "The Impact of Environmental Groups on Congressional Voting and Environmental Regulation," draft manuscript, Resources for the Future, October 1984.
- (and Irving Hoch and Charles M. Paulsen), "Nonmetropolitan Energy Use in 1978 by Category of Use and Form of Energy," ERS Staff Report no. AGES840518, Economic Development Division, Economic Research Service, U.S. Department of Agriculture, September 1984.
- (and Irving Hoch), "Variations in Residential Electricity Demand: A Metropolitan-Nonmetropolitan-Regional Analysis," draft manuscript, Resources for the Future, June 1984.

- (and Robert Cameron Mitchell), "Non-Sampling Errors in Contingent Valuation Surveys," Discussion Paper D-120, Resources for the Future, March 1984.
- (and Robert Cameron Mitchell), "A Reestimation of Bishop and Heberlein's Simulated Market-Hypothetical Markets-Travel Cost Results Under Alternative Assumptions," Discussion paper no. D-107, Resources for the Future, 1984.
- "A Model of U.S. Wheat Production Using Microdata and Flexible Functional Forms," draft manuscript, University of California, Berkeley, December 1983.
- "Constructing Voting Indices from Factor Scores," draft manuscript, Resources for the Future, August 1983.
- (and Irving Hoch), "1978 County Level Energy Estimates by Fuel Type and End Use," Resources for the Future, August 1983.
- "The Determinants of Acute Morbidity: Multivariate Techniques for Estimation Using the Health Interview Survey," Discussion paper, Resources for the Future, 1982.
- (and William J. Vaughan and Raymond J. Kopp), "Methodologies for Estimating the National Welfare Effects on Agriculture of Alternative Ozone Standards," A report to the U.S. Environmental Protection Agency, April 1982.
- (and Irving Hoch and Charles M. Paulsen), "Nonmetropolitan Energy Use: Consumption and Expenditures in 1978 and Comparisons to Metropolitan Energy Use," A report to the U.S. Department of Agriculture, October 1981. Available through the National Technical Information Service as ERS Staff Report AGES840517.
- (and William J. Vaughan and Clifford S. Russell), "A Survey of Recreation Fee Fishing Enterprises," *Farm Pond Harvest*, vol. 15, no. 4, Fall 1981.
- (and Robert Cameron Mitchell), "An Experiment in Determining Willingness to Pay for National Water Quality Improvements," A report to U.S. Environmental Protection Agency, June 1981.
- (and William J. Vaughan and Clifford S. Russell), *National Directory of Recreational Fee Fisheries* (Washington, D.C.: Resource for the Future, 1980).
- "The Anglo-Icelandic Fisheries Disputes 1948-1976: A Case Study of a Protracted Conflict," Master's Thesis, George Washington University, 1980.

## PRESENTATIONS AT PROFESSIONAL MEETINGS

- "Contingent Valuation: Where From and Where To," keynote address at Conference on Economic Valuation of the Environment," Department of the Environment, Food, and Rural Affairs, United Kingdom, London, November 2007.
- (and Shelia Walsh), "Preventing Damages from Oil Spills: Lessons from the Exxon Valdez," paper presented at Workshop on Les Dommages Ecologiques Causés par les Marées Institut Océanographique Noires: Evaluations Economiques et Indemnisations," Paris, May 2006.
- "Archetypal Analysis", keynote presentation at the Salford System Data Mining Conference, San Diego, March 2006.
- (and Jason Murray), "Fisheries Management Implications of Intrinsic Under Identification of Growth Equation Parameters," paper presented at the American Agricultural Economics Association Meeting, Providence RI, August, 2005.

- (and Tolga Cenesizoglu and Roger Parker), “Aggregation Issues in Forecasting Aggregate Demand: An Application to U.S. Commercial Air Travel,” paper presented at the American Marketing Association’s Advanced Research Techniques Forum, Coeur d’Alene, ID, June 2005.
- (and Clive Granger, Jeremy Jackson, and Wolfram Schlenker), “Are Current Fisheries Management Models Wrong? An Error Correction Approach to Reconciling the Historical Records on Fish Stocks,” Allied Social Sciences Meeting, Philadelphia, PA, January 2005.
- (and Maria Damon), “Pollution Control Policies Aimed at Consumers: Evidence from Recreational Boaters in San Diego Bay,” paper presented at the European Association of Environmental and Resource Economists, Budapest, June 2004.
- (and Theodore Groves, John List and Mark Machina), “Probabilistic Influence and Supplemental Benefits: A Field Test of the Two Key Assumptions Underlying Stated Preferences,” paper presented at the European Association of Environmental and Resource Economists, Budapest, June 2004.
- (and Theodore Groves, John List and Mark Machina), “Probabilistic Influence and Supplemental Benefits: A Field Test of the Two Key Assumptions Underlying Stated Preferences,” paper present at NBER Public Economics Workshop, Palo Alto, March 2004.
- “Contingent Valuation of Tropical Rainforest,” presentation at Workshop on International Financing of Biodiversity Conservation in Developing Countries, La Jolla, December 2003.
- (and Theodore Groves, John List and Mark Machina), “Probabilistic Influence and Supplemental Benefits: A Field Test of the Two Key Assumptions Underlying Stated Preferences,” paper present at the Workshop on Advancing the Methodology of Discrete Choice Experiment in Health Economics, Oxford, September 2003.
- “A Experiencia da Valoración de Danos Nos Recursos Naturais e Ambientais Polo Exxon Valdez,” presentation at Efectos Economicos, Sociais e Ambientais da Marea Negra Do ‘Prestige’, Seminario Cientifico Internacional, Santiago de Compostela, Spain, March 2003.
- (and Moshe Ben-Akiva, Denis Bolduc, David Bunch, Jordan Louviere, Hikaru Phillips and Matthew Symons), “Identifying Optimal Offerings and Campaigns in Interactive Channels Using Real-Time Experiments and Automated Modeling Procedures,” paper present at the American Marketing Association Advanced Research Techniques Forum, Vail Colorado, June 2002.
- (and Theodore Groves, John List and Mark Machina), “Probabilistic Influence and Supplemental Benefits: A Field Test of the Two Key Assumptions Underlying Stated Preferences,” paper present at the Second World Congress of Environmental and Resource Economists, Monterey California, June 2002.
- (and Maria Damon, Leigh Johnson, and Jamie Miller), “Conceptual Issues in Transitioning from Copper Hull Coatings on Recreational Boats to Non-Toxic Alternatives,” paper present at the Second World Congress of Environmental and Resource Economists, Monterey California, June 2002.

- “The Contingent Valuation Debate: Lessons for the Valuation of Cultural Resources,” paper presented at Conference on the Contingent Valuation of Culture, Chicago, February 20002.
- “Contingent Valuation Controversies and Evidence,” Keynote Address, 6<sup>th</sup> Occasional California Workshop on Environmental and Resource Economics, Santa Barbara, October 2001.
- (and Maxamillian Auffhammer and Theresa Garin-Munoz), “Exploring Structural Differences in CO2 Emissions of China’s Provinces,” paper presented at the European Association of Environmental and Resource Economists Meeting, Southampton, UK, June 2001.
- (and Anna Alberini), “Yea Sayers, Nay Sayers, or Just Plain Confused: Mixtures of Populations in Contingent Valuation Survey Responses,” paper presented at the European Association of Environmental and Resource Economists Meeting, Southampton, UK, June 2001.
- (and Yongil Jeon) “On Overcoming Informational Deficiencies in Estimating Willingness to Pay Distributions,” paper presented at the American Agricultural Economics Association Meeting, Tampa, FL, August 2000.
- (and Yongil Jeon) “On Overcoming Informational Deficiencies in Estimating Willingness to Pay Distributions,” paper presented at European Association for Environmental and Resource Economists Meeting, Rythymnon Greece, June 2000.
- (and Theodore Groves and Mark J. Machina), “Incentive and Informational Properties of Preferences Questions,” invited paper, Conference on the Theory and Application of Environmental Valuation Japan Forum of Environmental Valuation Kobe, Japan, January 2000
- (and Theodore Groves and Mark J. Machina), “Incentive and Informational Properties of Preferences Questions,” Plenary Address, European Association of Environmental and Resource Economists, Oslo Norway, June 1999.
- (and Robert Cameron Mitchell), “Public Preferences Toward Environmental Policies: The Case of Trihalomethanes,” paper presented at the Society for Risk Analysis Meeting, Phoenix, December 1998)
- (and Changhua Rich), “Per Capita Pollution Emissions Across China’s Provinces: Explaining the Differences,” presentation at the 4<sup>th</sup> Occasional California Workshop on Environmental and Resource Economics, University of California, Santa Barbara, October 1998.
- (and Nicholas E. Flores, and Norman F. Meade), "Contingent Valuation: Controversies and Evidence," paper presented at the World Congress of Environmental Economists, Venice, June, 1998.
- (and Jordan J. Louviere), “Archetypal Analysis and Segmentation,” paper present at the American Marketing Association Advanced Research Techniques Forum, Keystone Colorado, June 1998.
- (and Theodore Groves and Mark J. Machina), “Incentive Compatibility Issues in Stated Preference Surveys”,” paper presented at the National Oceanic and Atmospheric Administration Workshop on Application of State Preference Methods to Resource Compensation, Washington, June 1998.
- (and Allyson Ankerbrand, Jon A. Krosnick, and Robert Cameron Mitchell), “Violating Conversational Conventions Disrupts Cognitive Process of Survey Questions,” paper

- presented at the annual conference of the American Association for Public Opinion Research, St. Louis, May 1998.
- (and Theodore Groves and Mark J. Machina), "Economic Responses to Preference Surveys," paper presented at the annual U.S.D.A. W-133 meeting, Colorado Springs, CO, March 1998.
- (and Theodore Groves and Mark J. Machina), "Stated Preference Questions: Context and Optimal Response," paper presented at the Econometric Society Summer Meeting, California Institute of Technology, June 1997.
- (and Theodore Groves and Mark J. Machina), "Comparative Statistics of Approaches to Eliciting Economic Values," presentation at 1997 NSF/EPA Workshop on Valuation and Environmental Policy, Arlington, VA, May 1997.
- (and Dan Steinberg and Leo Breiman), "Broad Scale Missing Value Imputation with Iterative Binary Partitioning," paper presented at Second World Conference of the International Association for Statistical Computing, Pasadena, February 1997.
- (and Nicholas E. Flores), "A Dynamic Characterization of Temporary Rationing: Implications for Natural Resource Valuation," invited paper presented at the Third Occasional California Workshop on Environmental and Resource Economics, University of California, Santa Barbara, May 1996.
- (and Theodore Groves and Mark J. Machina), "Informational and Strategic Properties of Value Elicitation Procedures," paper presented at the INFORMS Conference, Washington, DC, May 1996.
- (and Theodore Groves and Mark J. Machina), "Informational and Strategic Properties of Value Elicitation Procedures," paper presented at the annual U.S.D.A. W-133 meeting, Jekyll, Island, GA, February 1996.
- (and Nicholas E. Flores, and Norman F. Meade), "Contingent Valuation: Controversies and Evidence," paper presented at the Western Economic Association Annual Conference, San Diego, July 1995.
- "Economic Considerations in Designing and Conducting Ecotoxicological Risk Assessments," presentation at California Environmental Protection Agency Workshop on Case Studies in Ecological Risk Assessments, Irvine, June 1995.
- "The Economic Structure of Non-Market Valuation Systems: Puzzles and Some Answers," invited paper presented at the Australian Agricultural Economics Society 39th Annual Conference, Perth, Western Australia, February 1995.
- "The Who, What, Where, Why, and How of NRDA," panel presentation at the OPA '90 Revisited Conference, Maritime Association of the Port of New York and New Jersey, New York, January 1995.
- (and Nicholas E. Flores) "The Relationship Between the Income Elasticities of Demand and Willingness to Pay," paper presented at the Association of Environmental and Resource Economists meeting, Washington D.C., January 1995.
- "Valuation of Tropical Rainforest: Philosophical and Practical Issues in the Use of Contingent Valuation," invited paper at Third Biennial Meeting International Society for Ecological Economics, San José, Costa Rica, October 1994.
- (and W.J. Sieber, T.G. Ganiats, and S.B. Cantor), "Discounting Future Health: Moderating Effects of Age, Sex, and Education," Paper presented at the annual meeting of the Society for Medical Decision Making, 1994. Abstract in *Medical Decision Making*, Vol. 14, 1994.

"Contingent Valuation Surveys and Tests of Insensitivity to Scope," paper presented at the International Conference on Determining the Value of Nonmarketed Goods: Economic Psychological, and Policy Relevant Aspects of Contingent Valuation Methods, Bad Homburg, Germany, July 1994.

(and T.G. Ganiats, R. Hamm, S.J. Spann, M.D. Hagen, and S.B. Cantor), "Population-Based Discounting of Future Health Outcomes," paper presented at Association for Health Services Research, San Diego, June 1994. Abstract on *Medline*.

(and Nicholas E. Flores, Kerry M. Martin, and Jennifer L. Wright), "Contingent Valuation and Revealed Preference Methodologies Comparing the Estimates for Quasi-Public Goods," paper presented at the annual U.S.D.A. W-133 meeting, Tucson, Arizona, February 1994.

"Future Research Implications of the NOAA Panel Report on Contingent Valuation," invited presentation at American Economic Association meeting, Boston, January 1994.

(and Anna Alberini and Barbara J. Kanninen), "A General Model for Double-Bounded Discrete Choice Contingent Valuation Data," presented at the Association of Environmental and Resource Economists, Boston, January 1994.

"Current Directions in Recreation Demand Modeling," Invited presentation at International Conference on Regional Water Management, Berkeley, October 1993

(and Robert Cameron Mitchell), "Issues of Scope and Sequence in Contingent Valuation," invited paper presented at the American Association of Agricultural Economics meeting, Orlando, Florida, August 1993.

"The CV Methodological Lessons from the Exxon Valdez and Blue Ribbon Panel Experiences," presentation at the California Workshop on Environmental and Resource Economics and Policy, Santa Barbara, May 1993.

"The Development of Alaska's Exxon Valdez Contingent Valuation Instrument: The Measurement of Passive-Use Values," paper presented at the annual U.S.D.A., W-133 meeting, Santa Fe, New Mexico, March 1993.

(and W. Michael Hanemann) "Issues in the Assessment of Damages from Oil Spills," invited presentation at the Society For Risk Analysis annual meeting, Coronado, CA, December 1992.

"The Contingent Valuation Method and Environmental Damage Assessment," invited presentation at Southern Economic Association, Washington, November 1992.

(and Nicholas E. Flores and W. Michael Hanemann) "On the Creation and Destruction of Public Goods: The Matter of Sequencing" paper presented at European Association of Environmental and Resource Economists meeting, Krakow, Poland, June 1992.

"The Current State of Natural Resource Damage Assessment," invited address presented to the Natural Resource Modeling Association Conference, Berkeley, June 1992.

(and Nicholas E. Flores and W. Michael Hanemann) "On the Nature of Compensable Value in a Natural Resource Damage Assessment," invited paper presented at the annual American Economics Association Meeting, New Orleans, January 1992.

(and Michael B. Conaway, W. Michael Hanemann, Raymond J. Kopp, Kerry Martin, Robert C. Mitchell, Stanley Presser and Paul A. Ruud), "Valuing Winter Visibility Improvements in the Grand Canyon," paper presented at Association of Environmental and Resource Economists meeting, New Orleans, January 1992.

(and Robert Cameron Mitchell), "Nonuse Values and Contingent Valuation," invited paper presented at Southern Economic Association meeting, Nashville, November 1991.

- (and John Horowitz), "The Demand For Government Regulation of Environmental Health Risks," paper presented at the Association for Public Policy Analysis and Management Conference, Bethesda, October 1991.
- "The Value of Winter Visibility Improvements in the Grand Canyon," paper presented at the Summer NBER Tax Workshop, Cambridge, August 1991.
- (and John Horowitz), "A Classification Tree for Predicting Consumer Preferences for Risk Reduction," invited paper presented at the summer meeting of the American Agricultural Economics Association, Manhattan Kansas, August 1991.
- (and William Balson and Robert Mitchell) "The Grand Canyon Visibility Benefits Study," paper presented at the annual meeting of the Air and Waste Management Association, Vancouver, June 1991.
- "The Economic Value of Preventing Water Shortages," paper presented at the European Association of Environmental and Resource Economists, Stockholm, June 1991.
- "Visibility at the Grand Canyon Revisited," paper presented at the Western Regional Sciences/W-133 Meeting Monterey, February 1991.
- (and John Horowitz), "Does the Public Really Care About Risk Characteristics," paper presented at Society for Risk Analysis meeting, New Orleans, October 1990.
- (and John Horowitz), "Do Consumers Really Care About the Characteristics of Health Risks," paper presented at the Association of Environmental and Resource Economist Meeting, Vancouver, August 1990.
- (and Francis Lim and Mark Machina), "Forecasting State Lotto Sales: Micro and Policy Implications," paper presented at the Fifth International Conference on the Foundations and Applications of Utility, Risk, and Decision Theory, Durham, North Carolina, June 1990.
- (and John Horowitz), "Which Risks are Important? The Case of Food Safety," paper presented at Economics of Food Safety Workshop, Alexandria, VA, June 1990.
- (and Anna Alberini), "The Efficiency of Discrete Choice Estimation," paper presented at Western Regional Sciences/W-133 Meeting Molokai, Hawaii, February 1990.
- (and John Horowitz), "The Many Facets of Risk: Valuing the Characteristics," paper presented at the Association of Environmental and Resource Economists Meeting, Atlanta, December 1989.
- "The Tobit Model with a Non-Zero Censoring Threshold," paper presented at the Econometric Society Meeting, Atlanta, December 1989.
- "Value of Diamonds and Water: Water Supply Reliability in Southern California," paper presented at Association for Public Policy Analysis and Management, Washington D.C., November 1989.
- (and Robert Cameron Mitchell and Paul Ruud), "Valuing Air Quality Improvements: Simulating a Hedonic Pricing Equation in the Context of a Contingent Valuation Scenario," paper presented at the annual Air Pollution Control Association meeting, Estes Park, Colorado, October 1989.
- (and Dan Steinberg), "Experimental Design for Discrete Choice Voter Preference Surveys," paper presented at the annual meeting of the American Statistical Association, Washington, D.C., August 1989.
- (and W. Michael Hanemann and Thomas Wegge) "A Nested Logit Model of Recreational Fishing Demand in Alaska," paper presented at the annual Western Economic Association Conference, Lake Tahoe, June 1989.

- (and Peter Navarro), "Role of Regulation in Explaining Trade Flows," paper presented at 2nd University of California Conference on Economics Issues of the Pacific Rim, Davis, April 1989.
- "Contingent Valuation: Using Surveys to Price Public Goods," invited paper presented at American Association for Public Opinion Conference, Monterey, March 1989.
- (and Dan Steinberg) "Estimation of Demand Curves via Survival Analysis," invited presentation at Winter Meeting of the American Statistical Association, San Diego, January 1989.
- (and Ciaran S. Phibbs), "Influence of Specific Services on the Shape of Hospital Market Areas," paper presented at Western Economics Association meeting, Los Angeles, July 1988.
- (and Robert Cameron Mitchell) "On the Use of Contingent Valuation in Natural Resource Damage Cases," paper present at Natural Resources Damage Assessment Conference, Washington, DC, June 1988.
- (and Michael W. Hanemann and Dan Steinberg) "A Discrete Choice Contingent Valuation Estimate of the Value of Kenai King Salmon," paper presented at the Social and Behavioral Economics Conference, San Diego, June 1988.
- (and Peter Navarro), "Matching Behavior in Academic Labor Markets," paper presented at the annual meeting of the Eastern Economic Association, Boston, March 1988.
- (and W. Michael Hanemann) "Valuing Quality in a Recreational Fishery Using a Generalized Logit Model," paper presented at the annual U.S. Department of Agriculture W-133 Conference on Research Issues in Resource Decisions Involving Marketed and Nonmarketed Goods, Monterey, January 1988.
- "What Components of Value Should Be Included in a Benefit/Damage Estimate", presentation at the annual U.S. Department of Agriculture W-133 Conference on Research Issues in Resource Decisions Involving Marketed and Nonmarketed Goods, Monterey, January 1988.
- (and Peter Navarro), "Special Interest and Ideology in the Dispute Over Natural Resource Damage Assessment: Economists Caught in a Methodological Crossfire," invited paper presented at American Economics Association meeting, Chicago, December 1987.
- (and Robert Cameron Mitchell), "Valuing Reductions in Environmental Risk: The Case of Trihalomethanes," paper presented at the Association for Public Policy Analysis and Management, Washington D.C., October 1987.
- (and Theodore Graham-Tomasi), "An Economic Perspective on Natural Resources Damage Assessment Regulations," paper presented at the Association for Public Policy Analysis and Management, Washington D.C., October 1987.
- (and James Chalfant and Kenneth White), "Demand System Specification and Out-of-Sample Prediction Rates", paper presented at the Econometric Society Summer Meeting, University of California, Berkeley, June 1987.
- (and Robert Cameron Mitchell), "How Far Out on the Learning Curve Are We with Contingent Valuation?", paper presented at Engineering Foundation-Universities' Council on Water Resources Conference on the Role of Social/Behavior Science in Water Resource Management Santa Barbara, May 1987.
- (and Robert Mitchell), "Evidence of Bias in Amenity Valuation," paper presented at Workshop on Integrating Economic and Psychological Knowledge in Valuation of

- Public Amenity Resources (U.S. Forest Service), Estes Park, CO, May 1986.
- "The Use of Dichotomous Choice Formats for Contingent Valuation: Current Research Issues and Concerns," presentation at annual U.S. Department of Agriculture W-133 Conference on Research Issues in Resource Decisions Involving Marketed and Nonmarketed Goods, San Diego, February 1986.
- (and Robert Cameron Mitchell), "Not in My Backyard or the Economic Cost of Siting Opposition," invited paper presented at the annual American Economics Association Meeting, New York, December 1985.
- "Splitting, Smoothing, and Resampling: Computer Intensive Statistics and Their Use in Economics and the Social Sciences," paper presented at the 5th World Congress of the Econometric Society, Massachusetts Institute Technology, August 1985.
- (and James Chalfant), "Causality Tests Without Linearity or Normality," paper presented at Econometric Society 5th World Congress, MIT, August 1985.
- (and Shankar Subramanian), "A Fast Robust Data Smooth Using An L-Estimator," paper presented at American Statistical Association Meeting, Las Vegas, August 1985.
- "SAS Macros for Bootstrapping and Cross-Validating Regression Equations," paper presented at SAS Users Group International 10th Annual Conference, Reno Nevada, March 1985.
- (and Shankar Subramanian), "Robust Regression: A Synthesis of Developments Involving Distribution Theory and Non-Spherical Errors," paper presented at Econometric Society meeting, Dallas, December 1984.
- "Compensating for Missing Data and Invalid Responses in Willingness to Pay Surveys," paper presented at American Statistical Association meeting, Philadelphia, 1984.
- (and Robert Cameron Mitchell), "Fresh Water Quality Benefits: Findings from a New National Contingent Valuation Study," invited paper presented at Joint Meeting of the American Agricultural Economics Association and the Association of Environmental and Resource Economists, Cornell University, August 1984.
- (and Alan Love and Fabienne Keller-Griesmar), "The Soviet Grain Import Decision as an Optimal Control Problem," paper presented at American Agricultural Economics Association meeting, Cornell University, August 1984.
- (and William E. Foster), "A Theory of Auctions from the Auctioneer's Perspective," paper presented at Econometric Society Summer meeting, Stanford University, June 1984.
- (and Robert Cameron Mitchell), "Public Perceptions of Risk and Local Siting Issues," paper presented at Western Social Sciences Association meeting, San Diego, April 1984.
- "Ordinal and Dummy Variables: An Errors-in-Variables Approach," paper presented at Econometric Society Meeting, San Francisco, December 1983.

## **SEMINARS PRESENTED**

Academia Sinica, Agricultural University of Norway, Athens University of Business and Economics, Australian National University, University of Auckland, Lincoln University, University of California, Berkeley, University of California, Davis, University of California, Los Angeles, University of California, San Diego, University of California, Santa Barbara, University of Chicago, University of Colorado, Boulder, Chung-Hua Institution for Economic Research (Taipei), University College, Dublin, Duke University, University of East Anglia, East-West Center at the University of Hawaii, University of Florida, Forest Research Institute Malaysia, Göteborg University, Harvard University, University of Haifa, Hebrew University, University of Economics Ho Chi Minh City, University of Illinois, University College, London, London School of Economics, University of Maryland, Massey University, Massachusetts Institute of Technology, University of Michigan, Michigan State University, University of New South Wales, University of Oslo, Oregon State University, Peking University, Rand Corporation, Research Triangle Institute, Resources for the Future, University of Saarland San Diego State University, Stanford University, Stockholm School of Economics, University of Southern California, Sungkyunkwan University, University of Sydney, University of Technology, Sydney, TERI University (Delhi), Tokyo Institute of Technology, U.S. Environmental Protection Agency, University of Venice, University of Washington, Seattle, University of Warsaw, University of Wisconsin, Madison, Washington State University, World Health Organization, Xi'an Jiaotong University.

## **PROFESSIONAL MEMBERSHIPS**

American Agricultural Economics Association, American Association for Public Opinion Research, American Marketing Association, Association for Public Policy Analysis and Management, American Economics Association, American Marketing Association, American Statistical Association, Association of Environmental and Resource Economists, Biometrics Society, Econometric Society, European Association of Environmental and Resource Economists, Institute for Mathematical Statistics, International Society for Ecological Economics, Public Choice Society, Royal Economic Society, Western Economics Association.

## **WHO'S WHO**

Who's Who in Economics, Who's Who in America, Who's Who in the West, Who's Who in Finance and Industry

## **CONTRACTS AND GRANTS**

Principal investigator or co-principle investigator on contracts and grants totaling over 20 million dollars. Funding sources have included the National Science Foundation, Federal agencies such as the Department of Commerce and the U.S. Environmental Protection Agency, state agencies such as the Alaskan Department of Fish and Game and the California Department of Boating and Waterways, international organizations such as the World Bank and private foundations such as Electric Power Research Institute and the Hewlett Foundation.

## **CONSULTANT/REVIEWER/PROGRAM AFFILIATIONS**

Alaska Department of Law, Alaska Department of Fish and Game, American Council of Learned Societies, American Economic Review, American Journal of Agricultural Economics, American Journal of Public Health, American Association of Public Opinion Research (Annual Conference Program Committee), Australian Journal of Agricultural Economics, Apogee Research, Applied Economics, Association of Environmental and Resource Economists (President, Board of Directors), Australian Bureau of Agriculture and Resource Economics, Australian Journal of Agricultural and Resource Economics, Australian Journal of Management, Australian Resource Assessment Commission, Battelle Pacific Northwest Laboratories, B.E. Journal of Economic Analysis and Policy, California Attorney General's Office, California Department of Fish and Game, California Energy Commission, California Sea Grant Program, Universitywide (UC) Energy Research Group, Chicago Lung Association, City of San Diego, Coastal Management Journal, Computer Intelligence/Ziff Davis, Contemporary Economic Policy (Editorial Board), Dames and Moore, Decision Focus, Ecological Economics, Econometric Theory, Econometrica, Economic Development and Cultural Change, Economic Journal, Economic Letters, Electric Power Research Institute, Energy Journal, Environment and Development Economics, Environmental and Resource Economics (Editorial Board), Environment Canada, Environmental Conservation, Foundations and Trends in Microeconomics (Co-Editor), Hazen and Sawyer, Inc., HBRS, Inc., Health Economics, Illinois Department of Energy and Natural Resources, Industrial Economics, Institute for Neural Computation (Participating Faculty), John Wiley, Jones and Stokes Associates, Journal of Agricultural and Resource Economics, Journal of Applied Econometrics, Journal of Comparative Economics, Journal of Development Economics, Journal of Econometrics, Journal of Economic Education, Journal of Economic Literature, Journal of Economics and Business, Journal of Economic Psychology, Journal of Environment & Development (Board of Advisors), Journal of Environmental Economics and Management (Editorial Council), Journal of Environmental Management, Journal of Health Economics, Journal of Political Economy, Journal of Politics, Journal of International Economics, Journal of Law and Economics, Journal of Public Economics, Kluwer Academic Publishers, KPMG, Leisure Sciences, Lifetime Data Analysis, Los Angeles Department of Water and Power, Marine Ecology Progress Series, Memetrics, Metropolitan Water District of Southern California, Michigan Sea Grant Program, Natural Resource Modeling, National Academy of Science's Committee on Oil Spill Research and Development, National Academy of Science's Committee on Assessment of Water Resources Project Planning Procedures, National Association of Broadcasters, National Bureau of Economic Research (Faculty Research Fellow, Program in Public Economics), National Economic Research Associates, National Oceanic and Atmospheric Administration, National Science Foundation, National Wildlife Federation, New Jersey Department of Environmental Conservation, Organization for Economic Cooperation and Development, Oxford Economic Papers, Oxford University Press, Policy Sciences, Policy Studies Journal, Price Waterhouse, Princeton University Press, Proceedings of the National Academy of Sciences, Public Opinion Quarterly, QED Research, Quarterly Journal of Economics, Public Budgeting and Finance, Rand Journal of Economics, Regional Science and Urban Economics, Research Triangle Institute, Review of Economic Studies, Review of Economics and Statistics, Review of Economics of the Household, Resource and Energy Economics, Risk Analysis, Salford Systems, Salt River Project, San Diego Association of Governments, Scandinavian Journal of Economics, Social Sciences and Humanities Research

Council (Canada), Southern Economic Journal, South Florida Water Management District, Spectrum Economics, Statistica Sinica, Stone Analytics, United Nations Development Program, United Kingdom Department of Environment, Food and Rural Affairs, University of California Water Resources Center, U.S. Army Corp of Engineers, U.S. Department of Justice, U.S. Environmental Protection Agency, U.S. Forest Service, Wadsworth Advanced Books, Water International, Water Resources Research, Western Journal of Communication, Western Journal of Agricultural Economics, Western Regional Center of the National Institute for Global Environmental Change, World Bank, World Bank Economic Review, World Congress of Environmental and Resource Economists (Program Chair), World Development.