EXHIBIT K

Updated 12/08

CURRICULUM VITAE

Name: W. Michael Hanemann

Title: Chancellor's Professor, Agricultural and Resource Economics & The Goldman School of Public Policy

Address: Department of Agricultural and Resource Economics
University of California
Berkeley, California 94720
(510) 642-2670

Birthdate and Place: August 26, 1944, Manchester, England

Citizenship: U. S. citizen

Education

Institution	Degree	Year	Field
Oxford University, England	B.A.	1965	Philosophy, Politics, and Economics
London School of Economics	M.Sc.	1967	Development Economics
Harvard University	M.A.	1973	Public Finance and Decision Theory
Harvard University	Ph.D.	1978	Economics

Dissertation title: "A Theoretical and Empirical Study of the Recreation Benefits from Improving Water Quality in the Boston Area," Harvard University, 1978, 532p.

Employment

1967-68: Assistant to the Director, Unit for Economic and Statistical Studies on Higher Education, London School of Economics.

1970-1975: Teaching Fellow, Department of Economics, Harvard University.

1970-1975: Staff Economist/Consultant, Urban Systems Research & Engineering, Inc., Cambridge, Massachusetts.

1976: Lecturer, Department of Economics, Northeastern University, Boston, Massachusetts.

1976-1978: Acting Assistant Professor, Department of Agricultural and Resource Economics, University of California at Berkeley.

1978-1984: Assistant Professor, Department of Agricultural and Resource Economics, University of

California at Berkeley.

1984-1995: Associate Professor, Department of Agricultural and Resource Economics, University of California at Berkeley.

1995-1999: Professor, Department of Agricultural and Resource Economics, University of California at Berkeley.

1999- : Chancellor's Professor, Department of Agricultural and Resource Economics and Goldman School of Public Policy, University if California at Berkeley

Other Professional Activities

Member, California Department of Water Resources Climate Change Technical Advisory Group (2007 -)

Member, Advisory Board, Wegener Center for Climate and Global Change, University of Graz, Austria. (2005 -)

Director, California Climate Change Center at UC Berkeley (2003-)

Chair, Organizing Committee, Second World Congress of Environmental & Resource Economists (2002)

Member, California Bay-Delta Public Advisory Committee, Committee on Drinking Water (2002-)

Chair, Board of Advisors, National Ocean Economics Project, (2002 - 7)

Member, US Environmental Protection Agency, Environmental Economics Advisory Committee (2000-2006)

University Fellow, Resources for the Future (2001-2003).

Chancellor's Professor, (1999-).

Member, Board of Directors, Association of Environmental & Resource Economists (1995-97).

Member of the National Academy of Sciences/National Research Council Committee to Review the Glen Canyon Environmental Studies Program (1986-91); the Committee on Wolf and Bear Control in Alaska (1996-97); and the Committee on Prospective Benefits of DOE's Energy Efficiency and Fossil Energy R&D Programs, Phase 2 (2005 - 6); Panel to Review Climate Change Science Program Draft Synthesis and Assessment Product 5.3 (2007); Committee on Potential Energy Savings and Greenhouse Gas Reductions from Transportation (2008-).

Awards

Lifetime Award for Outstanding Achievement, European Association of Environmental & Resource Economists, 2008.

Fellow, Association of Environmental & Resource Economists (Inaugural Fellow) 2006.

Honorary Ph.D., Swedish University of Agricultural Sciences, October 2003.

Winner, Association of Environmental and Resource Economists, Publication of Enduring Quality, 1999

Winner, American Agricultural Economics Association Quality of Research Discovery Award, 1990.

Winner, Western Agricultural Economics Association Outstanding Journal Article Award, 1990.

Supervised Winner of Resources for the Future's Prize for Best Ph.D. Dissertation in Natural Resource Economics, 1989.

Publications

Refereed Articles

A-1 Chugh, Lal C., W. Michael Hanemann, and S. Mahapatra. "Impact of Pollution Control Regulations on the Market Risk of Securities in the U. S." *Journal of Economic Studies*, Vol. 5 (May, 1978), pp. 64-70.

A-2 Hanemann, W. Michael. "Measuring the Worth of Natural Resource Facilities." *Land Economics*, Vol. 56 (October, 1980), pp. 482-490.

A-3 _____. "Marginal Welfare Measures for Discrete Choice Models." *Economics Letters*, Vol. 13 (1983), pp. 129-136.

A-4 _____. "Entropy as a Measure of Consensus in the Evaluation of Recreation Site Quality." *Journal of Environmental Management*, Vol. 18 (April, 1984), pp. 241-251.

A-5 _____. "Discrete/Continuous Models of Consumer Demand." *Econometrica*, Vol. 52 (May, 1984), pp. 541-561.

A-6 _____. "Welfare Evaluations in Contingent Valuation Experiments with Discrete Responses." *American Journal of Agricultural Economics*, Vol. 66 (August, 1984), pp. 332-341.

A-7 _____. "Some Issues in Continuous- and Discrete-Response Contingent Valuation Studies." *Northeastern Journal of Agricultural Economics*, Vol. 14 (April, 1985), pp. 5-13.

A-8 Fisher, A. C., and W. Michael Hanemann. "Environmental Damages and Option Values." *Natural Resources Modeling*, Vol. 1 (Fall, 1986), pp. 111-124.

A-9 Fisher, Anthony C., and W. Michael Hanemann. "Quasi-Option Value: Some Misconceptions Dispelled." *Journal of Environmental Economics and Management*, Vol. 14 (1987), pp. 183-190.

A-10 Hanemann, W. Michael. "Welfare Evaluations in Contingent Valuation Experiments with Discrete Responses: Reply." *American Journal of Agricultural Economics*, Vol. 69 (February, 1987), pp. 185-186.

A-11 Bockstael, Nancy E., W. Michael Hanemann, and Catherine L. Kling. "Estimating the Value of Water Quality Improvements in a Recreational Demand Framework." *Water Resources Research*, Vol. 23 (May, 1987), pp. 951-960. Reprinted in *Environmental Valuation*, ed. by Kenneth G. Willis, Cheltenham, U.K.: Edward Elgar (in press).

A-12 Bockstael, Nancy E., Ivar E. Strand, and W. Michael Hanemann. "Time and the Recreational Demand Model." *American Journal of Agricultural Economics*, Vol. 69 (May, 1987), pp. 293-302. Reprinted in *Environmental Economics: A Reader*, ed. by Anil Markandya and Julie Richardson, New York: St. Martin's Press, (1992), 171-183.

A-13 Hanemann, W. Michael. "Information and the Concept of Option Value." *Journal of Environmental Economics and Management*, Vol. 16, No. 1 (January, 1989), pp. 23-37.

A-14 La France, Jeffrey T., and W. Michael Hanemann. "The Dual Structure of Incomplete Demand Systems." *American Journal of Agricultural Economics*, Vol. 71 (May, 1989), pp. 262-274.

A-15 Hanemann, W. Michael. "Welfare Evaluations in Contingent Valuation Experiments with Discrete Response Data: Reply." *American Journal of Agricultural Economics*, Vol. 71 (November, 1989), pp. 1057-1061.

A-16 Carson, Richard T., W. Michael Hanemann, and Dan Steinberg. "A Discrete Choice Contingent Valuation Estimate of the Value of Kenai King Salmon." *Journal of Behavioral Economics*, Vol. 19, Number 1 (1990), pp. 53-68.

A-17 Fisher, Anthony C., and W. Michael Hanemann. "Information and the Dynamics of Environmental Protection: The Concept of the Critical Period." *Scandinavian Journal of Economics*, Vol. 92, Number 3 (1990), pp. 399-414.

A-18 Fisher, Anthony C., and W. Michael Hanemann. "Option Value: Theory and Measurement." *European Review of Agricultural Economics,* Vol. 17 No. 2 (1990), pp. 167-180.

A-19 Hanemann, W. Michael. "Willingness to Pay and Willingness to Accept: How Much Can They Differ?" *American Economic Review*, Vol. 81, Number 3 (1991), pp. 635-647. Reprinted in *The Economics of the Environment*, ed. by W.E. Oates, Cheltenham, U.K.: Edward Elgar, (1994), pp. 471-483.

A-20 Fisher, Anthony C., W. Michael Hanemann, and Andy Keeler. "Integrating Fishery and Water Resource Management: A Biological Model of a California Salmon Fishery." *Journal of Environmental Economics and Management*, Vol. 20 (1991), pp. 234-261.

A-21 Hanemann, Michael, John Loomis, and Barbara Kanninen. "Statistical Efficiency of Double-Bounded Dichotomous Choice Contingent Valuation." *American Journal of Agricultural Economics*, Vol. 73 (November, 1991), pp. 1255-1263.

A-22 Hanemann, Michael, and Edward Morey. "Separability, Partial Demand Systems and

Consumer's Surplus Measures." *Journal of Environmental Economics and Management*, Vol. 22, No. 3 (1992), pp. 241-258.

A-23 Hanemann, W. Michael, Per-Olov Johansson, Bengt Kriström, and Leif Mattson. "Natural Resource Damages for Chernobyl." *Environment & Resource Economics*, Vol. 2 (1992), pp. 523-525.

A-24 Hanemann, W. Michael, and Ivar E. Strand. "Natural Resource Damage Assessment: Economic Implications for Fisheries Management." *American Journal of Agricultural Economics*, Vol. 75, (December, 1993).

A-25 Hanemann, W. Michael. "Designing New Water Rates for Los Angeles." *Water Resources Update*, The Universities Council on Water Resources, Issue No. 92, Carbondale, IL, (Summer, 1993).

A-26 Hanemann, W. Michael. "Incentives for Protecting North American Biodiversity." *The Economics of Biodiversity*, Vol. 1, No. 3 (Summer, 1994), pp. 24-25.

A-27 Hanemann, W. Michael. "Valuing the Environment Through Contingent Valuation." *Journal of Economic Perspectives*, Vol. 8, No. 4 (Fall, 1994), pp. 19-43.

A-28 Hanemann, W. Michael. "Improving Environmental Policy: Are Markets the Solution?" *Contemporary Economic Policy*, Vol. 13, (January, 1995), pp. 74-79.

A-29 Hewitt, Julie A., and W. Michael Hanemann. "A Discrete/Continuous Choice Model of Demand Under Block Rate Pricing." *Land Economics*, Vol. 71, No. 2 (May, 1995), pp. 173-192.

A-30 Albers, Heidi J., Anthony C. Fisher, and W. Michael Hanemann. "Valuation and Management of Tropical Forests: A Theoretical and Empirical Analysis." *Environment & Resource Economics*, Vol. 8, No. 1 (July, 1996), pp. 39-61.

A-31 Carson, Richard T., W. Michael Hanemann, Raymond J. Kopp, Jon A. Krosnick, Robert C. Mitchell, Stanley Presser, Paul A. Ruud, and V. Kerry Smith with Michael Conaway, and Kerry Martin. "Temporal Reliability of Estimates from Contingent Valuation." *Land Economics*, Vol. 73, No. 2 (May, 1997), pp. 151-163.

A-32 Carson, Richard T., W. Michael Hanemann, Raymond J. Kopp, Jon A. Krosnick, Robert C. Mitchell, Stanley Presser, Paul A. Ruud, and V. Kerry Smith with Michael Conaway, and Kerry Martin. "Referendum Design and Contingent Valuation: The NOAA Panel's No-Vote Recommendation." *Review of Economics and Statistics*, Vol. 80, N. 2 (May, 1998), pp. 335-338.

A-33 Carson, Richard, Nicholas E. Flores and W. Michael Hanemann, "Sequencing and Valuing Public Goods," *Journal of Environmental Economics and Management*, 36 (1998) 314-323.

A-34 Hanemann, W.H. "Adaptation and its measurement" *Climatic Change*, Vol. 45:3/4, June 2000, pp. 571-581.

A-35 Krosnick, J.A. et al. "The Impact of 'No Opinion' Response Options on Data Quality: Non-Attitude Reduction or an Invitation to Satisfice?" *Public Opinion Quarterly*, Vol. 66, 2002, pp

371-401.

A-36 Swait, J. et al. "Context Dependence and Aggregation in Disaggregate Choice Analysis" *Marketing Letters*, 13:3 (2002), pp. 195-205.

A-37 Cooper, J., W.M. Hanemann and G. Signorello, "One-and-One-Half-Bound Dichotomous Choice Contingent Valuation" Review of Economics and Statistics. November 2002; 84(4): 742-750.

A-38 Hanemann, W. Michael. "Willingness to Pay and Willingness to Accept: How Much Can They Differ? Reply" American Economic Review. March 2003; 93(1): 464.

A-39 Carson, R.T., R.C. Mitchell, W.M. Hanemann, R. J. Kopp, S. Presser, P. A. Ruud. "Contingent Valuation and Lost Passive Use: Damages from the Exxon Valdez Oil Spill." *Environmental and Resource Economics*, July 2003, Volume 25, Issue 3, pp. 257-286.

A-40 Kinzig, Ann, et.al. "Managing Uncertainty at the Science-Policy Interface," May 2003. *Ambio*,

Katherine Hayhoe et al. "Emissions Pathways, Climate Change, and Impacts on California," *Proceedings of the National Academy of Sciences of the United States of America (PNAS)* August 2004; 101 (34).

Schlenker, W., W. M. Hanemann and A. C. Fisher. "Will U.S. Agriculture Really Benefit from Global Warming? Accounting for Irrigation in the Hedonic Approach," *American Economic Review* (March 2005) 395-406.

Sethi, G. et al. "Fishery Management Under Multiple Uncertainty," *Journal of Environmental Economics and Management* Vol. 50 No. 2, 2005, pp 300-318.

Wiktor Adamowicz et al. "Decision Strategy and Structure in Households: A 'Groups' Perspective" *Marketing Letters* Vol. 16 No. 3/4, December 2005, pp 387-299

Schlenker, W., W. M. Hanemann, and A. C. Fisher, "The Impact of Global Warming on US Agriculture: An Econometric Analysis of Optimal Growing Conditions," *Review of Economics and Statistics* (February, 2006) 88(1) 113-125.

Albiac, J. M. Hanemann, J. Calatrava, and J. Uche. "Evaluating Alternatives to the Spanish National Hydrological Plan" *Natural Resources Journal* Summer 2006, Vol. 46, No. 3, 727-757.

Schlenker, W., W. M. Hanemann, and A. C. Fisher, "Water Availability, Degree Days, and the Potential Impact of Climate Change on Irrigated Agriculture," *Climatic Change* (2007) 81, 19-38.

Olmstead, Sheila M., W. Michael Hanemann and Robert N. Stavins, "Water demand under Alternative Price Structures," *Journal of Environmental Economics and Management* 54 (2007) 181-198.

Narain, Urvashi, Michael Hanemann and Anthony Fisher, "The Irreversibility Effect in Environmental Decisionmaking" *Environmental & Resource Economics*, (2007) Vol. 38, 391-405.

David R. Purkey, Annette Huber-Lee, David N. Yates, Michael Hanemann and Susan Herrod-Julius, "Integrating a Climate Change Assessment Tool into Stakeholder-driven Water Management Decision-making Processes in California" *Water Resources Management* 2007 21: 315-329.

Daniel Cayan, Amy Luers, Guido Franco, Michael Hanemann, Bart Croes, and Edward Vine, "Overview of the California Climate Change Scenarios Project" *Climatic Change* Volume 87, Supplement 1, March 2008, p 1-6.

D. R. Purkey, B. Joyce, S. Vicuna, W. M. Hanemann, L. L. Dale, D. Yates and J. A. Dracup, "Robust Analysis of Future Climate Change Impacts on Water for Agriculture and Other Sectors: A Case Study of the Sacramento Valley." *Climatic Change*. Volume 87, Supplement 1, March 2008, pp 109-122.

S. Vicuna, R. Leonardson, W. M. Hanemann, L. L. Dale, "Climate Change Impacts on High Elevation Hydropower Generation in California's Sierra Nevada: A Case Study in the Upper American River" *Climatic Change* Volume 87, Supplement 1, March 2008, pp 123 - 137.

Jorge E. Arana, Carmelo J. Leon and W. Michael Hanemann, "Emotions and Decision Rules in Discrete Choice Experiments for Valuing Health Care Programmes for the Elderly," *Journal of Health Economics* 2008.

Michael Hanemann, "California's New Greenhouse Gas Laws" *Review of Environmental Economics and Policy* volume 2, issue 1, winter 2008, pp. 114–129

Holly Doremus and Michael Hanemann, "The Challenges of Dynamic Water Management in the American West" *UCLA Journal of Environmental Law and Policy* Vol. 26, No. 1 2008, pp 55-75.

Wiktor Adamowicz, David Bunch, Trudy Ann Cameron, Benedict G.C. Dellaert, Michael Hanemann, Michael Keane, Jordan Louviere, Robert Meyer, Thomas Steenburgh, Joffre Swait, "Behavioral Frontiers in Choice Modeling" *Marketing Letters* Vol. 19, 2008.

Holly Doremus and W. Michael Hanemann, "Of Babies and Bathwater: Why the Clean Air Act's Cooperative Federalism Framework is Useful for Addressing Global Warming," *Arizona Law Review*, Vol 50, 2008 (in press).

Anthony Fisher, Michael Hanemann, Michael Roberts, Wolfram Schlenker, "Potential Impacts of Climate Change on Crop Yields and Land Values in U.S. Agriculture," *American Economic Review* (accepted)

Richard T. Carson, W. Michael Hanemann and Thomas C. Wegge, "A Nested Logit Model of Recreational Fishing Demand in Alaska" *Marine Resource Economics* (forthcoming)

Nonrefereed Research Articles
(Research Reports)

B-1 Hanemann, W. Michael, and C. Binkley. *The Recreation Benefits of Water Quality*

Improvements: Analysis of Day Trips in an Urban Setting. EPA-600/5-78-010. Report submitted to the U. S. Environmental Protection Agency by Urban Systems Research and Engineering, Inc. Washington, D. C.: U. S. Environmental Protection Agency, 1978.

B-2 King, Diana; Hanemann, W. Michael; and Nimmons, John. *The Role of Gas and Electric Utilities in Direct Applications of Geothermal Resources*. Earl Warren Legal Institute, University of California. Berkeley, March, 1980.

B-3 Hanemann, W. Michael (contributor). *Market Shares Estimation Task Force Report: Projections for Hydrothermal Direct-Heat Systems Market Shares*. U.S. Department of Energy, December, 1980.

B-4 Hanemann, W. Michael. *Welfare Evaluations with Simulated Hypothetical Market Data: Bishop and Heberlein Revisited*. Department of Agricultural and Resource Economics, University of California. Berkeley, July, 1983.

B-5 Fairfax, Sally K.; and Hanemann, W. Michael, eds. *Emerging Research Needs and Priorities Concerning Minerals Development on National Forest Lands*. Department of Agricultural and Resource Economics, University of California. Berkeley, March, 1983.

B-6 Stern, Martin W.; Hanemann, W. Michael; and Eckhouse, Kathy. *A Case Study of Energy and Process Substitution for Frozen Broccoli: Geothermal Energy and the Retortable Pouch*. Department of Agricultural and Resource Economics, University of California. Berkeley, August, 1983.

B-7 Hanemann, Michael, Ivar Strand, and Thomas Wegge. *Albacore Sportfishing Economic Study*. Prepared for the National Marine Fisheries Service. Sacramento, California: Jones and Stokes Associates, Inc., May, 1986.

B-8 Hanemann, W. Michael. *Economic Valuation of Changes in the Catch of Sacramento River Chinook Salmon*. Department of Agricultural and Resource Economics, University of California. Berkeley, October, 1986.

B-9 Hall, C. H.; Lichtenberg, E. R.; Patton, S. E.; Layton, D. W.; Hanemann, W. M.; and Stuermer, D. H. *Costs of Alternative Treatment Technologies for 1,2-Dibromo-3- Chloropropane (DBCP) in California Groundwater Supplies*. Livermore, California: Lawrence Livermore National Laboratory, May, 1987.

B-10 Carson, Richard T., W. Michael Hanemann, and Thomas C. Wegge. *Final Report: Juneau Area Economic Study*. Prepared for the Alaska Department of Fish and Game. Jones and Stokes Associates, Sacramento, California, December, 1987.

B-11 Carson, Richard T., W. Michael Hanemann, and Thomas C. Wegge. *Final Report: Southcentral Alaska Sport Fishing Economic Study*. Prepared for the Alaska Department of Fish and Game. Jones and Stokes Associates, Sacramento, California, December, 1987.

B-12 Hanemann, W. M., and L. Dale. *Reasonable Municipal and Industrial Use in 2010 by SWP Contractors in Southern California* and *Reasonable Municipal and Industrial Use in 2010 in the Central Coast and San Francisco Bay HSAs*. Consultant's report submitted to the State Water Resources Control Board, Berkeley, 1988.

B-13 Dale, L.; and Hanemann, W. M. *The Cost of Re-Operating New Don Pedro Reservoir to Increase Spring Flow to the San Joaquin River.* Department of Agricultural and Resource Economics, University of California. Berkeley, June, 1990.

B-14 Dale, L.; and Hanemann, W. M. *Sizing of A Groundwater Bank.* Department of Agricultural and Resource Economics, University of California. Berkeley, June, 1990.

B-15 Jones & Stokes Associates, Inc. *Environmental Benefits Study of San Joaquin Valley's Fish and Wildlife Resources.* (JSA 87-150) Sacramento, California. Prepared by J. B. Loomis, W. M. Hanemann, and T. C. Wegge, September, 1990.

B-16 Carson, Richard T.; Hanemann, W. Michael; Kopp, Raymond. *A Nested Logit Model of Recreational Fishing Demand in Alaska,* June, 1989.

B-17 Jones & Stokes Associates, Inc. *Southeast Alaska Sport Fishing Economic Study* Final Research Report (JSA 88-028) Sacramento, California. December, 1991.

B-18 Carson, Richard T.; Conaway, Michael B.; Hanemann W. Michael; Kopp, R.J.; Mitchell, R.C.; Presser, S.; Ruud, P.A. *Comments on the Benefit Analysis in the U.S. Environmental Protection Agency's Proposed Navajo Generating Station BART Action Decision Focus.* 1991.

B-19 MacDougall, Neal, W. Michael Hanemann, and Zilberman, David. *The Economics of Agricultural Drainage* Report submitted to the Central Valley Regional Water Quality Control Board, Standard Agreement No. 0-132-150-0. June, 1992.

B-20 Hanemann, W. Michael. Comment submitted to the Office of Environmental Affairs, Department of Interior, in response to the Notice of Proposed Rulemaking (58 FR 39328), *Concerning Natural Resource Damage Assessments.* 1993.

B-21 Hanemann, W. Michael; McCann, Richard. "Economic Impacts on the Northern California Hydropower System" in *Integrated Modeling of Drought and Global Warming, Impacts on Selected California Resources.* National Institute for Global Environmental Change, University of California, Davis. pp. 55-68. March, 1993.

B-22 Dumas, Christopher; and Hanemann, W. Michael. "Simulating Impacts on the Sacramento River Fall Run Chinook Salmon Population" in *Integrated Modeling of Drought and Global Warming, Impacts on Selected California Resources.* National Institute for Global Environmental Change, University of California, Davis. pp. 69-95. March, 1993.

B-23 Hanemann, W. Michael. "Economic Impact on Ocean Fishing" in *Integrated Modeling of Drought and Global Warming, Impacts on Selected California Resources.* National Institute for Global Environmental Change, University of California, Davis. pp. 107-112. March, 1993.

B-24 Jones & Stokes Associates. (Chapters 3L and 3N by Hanemann, W. Michael.) "Mono Basin Water Rights of the City of Los Angeles." Environmental Impact Report. California State Water Resources Control Board, Division of Water Rights, Sacramento, California, May, 1993.

B-25 Dumas, Christopher F., and Hanemann, W. Michael. *Economic Benefits of the United States Environmental Protection Agency's Proposed Bay-Delta Standards.* Report for United States

Environmental Protection Agency, Water Management Division, San Francisco, California, November,1993.

B-26 Hanemann, W. Michael. *Expert Report Regarding the American Trader Oil Spill.* December 4, 1994.

B-27 Hanemann, W. Michael. *Review of Triangle Economic Research Report on Economic Loss to Recreational Fishing in the Upper Clark Fork Basin.* State of Montana Natural Resource Damage Program, Helena: Montana, October 1995.

B-28 Hanemann, W. Michael, Gloria Helfand, Gareth Green, and Francois Larrivee. "Economic Valuation of Changes in the Quality of Life. "Department of Agricultural and Resource Economics, Working Paper No. 764, University of California. Berkeley, November, 1995.

B-29 Hanemann, W. Michael. *The Orange County Beach Survey.* September 16, 1996.

B-30 Hanemann, W. Michael. *The 1997 Orange County Boating and Surfing Survey.* June 6, 1997.

B-31 Hanemann, W. Michael. *Final Conclusions Regarding Lost Recreational Damages Resulting from the American Trader Oil Spill.* August 15, 1997.

B-32 Hanemann, W. Michael. Arsenic Rule Benefits Panel of the US EPA Science Advisory Board, *Arsenic Rule Benefits Analysis: An SAB Review.* EPA-SAB-EC-01-008, Washington DC, August 2001.

B-33 Reports submitted by the Southern California Beach Study Research Team (Director: Michael Hanemann) to the Consortium of Funders:

Beach Recruitment Report (August, 2001)
Report on Choice Set Familiarity (August, 2001)
Report on Beach Trips by Wave (September, 2001)
Revised Report on Activities (November, 2001)
Report on Panel Participation and Attrition (December, 2001)
Beach Expenditures Report (January, 2002)
Report on Wave 4 Data Analysis (January 2002)
Report on Wave 4 Valuation (January, 2002)
Data Collection Production Report (January 2002)
Revised Contingent Behavior-Contingent Valuation Report (March, 2002)
Report on Data Collection, Checking, Cleaning, and Archiving for Phase I of the Southern California Beach Project (March, 2002)
Report on Valuation Methodology (May, 2002)

B-34 UST/RCRA BCI Review Panel of the SAB Executive Committee, *Underground Storage Tanks (UST) Cleanup & Resource Conservation & Recovery (RCRA) Subtitle C Program Benefits, Costs and Impacts (BCI) Assessment: An SAB Advisory.* EPA-SAB-EC-ADV-03-001, December 2002.

B-35 Horne, Alexander, John Dracup, Michael Hanemann, Ignacio Rodriguez-Iturbe, Edward Means and James Roth, *A Technical Review of the Spanish National Hydrological Plan (Ebro River*

Out-of-Basin Diversion). Submitted to Fundacion Universidad Politecnica de Cartagena, Spain, January 7, 2003.

B-36 Hanemann, W. Michael, Margaret S. Torn, A Review of the Report *Global Climate Change and California: Potential Implications for Ecosystems, Health and the Economy.* Consultant Report, California Energy Commission, August 2003.

W. Michael Hanemann, *Rebuttal Report.* Submitted on behalf of NRDC in connection with Natural Resources Defense Council, et al., v. Kirk Rodgers, et al., United States District Court Eastern District of California, Sacramento Division, September 23, 2005.

W. Michael Hanemann and Alexander E. Farrell (eds), *Managing Greenhouse Gas Emissions in California.* California Climate Change Center at UC Berkeley, January, 2006. http://calclimate.berkeley.edu

Hanemann, M., L. Dale, S. Vicuna, D. Bickett and C. Dyckman, *The Economic Cost of Climate Change Impact on California Water: A Scenario Analysis.* California Energy Commission PIER Project Report, CEC-500-2006-003, July 2006

Vicuna, S., M. Hanemann, and L. Dale, *Economic Impacts of Delta Levee Failure in California Due to Climate Change: A Scenario Analysis.* California Energy Commission PIER Project Report CEC-500-2006-004, July 2006

Cayan, D., A. L. Luers, M. Hanemann, G. Franco, and B.Croes, *Scenarios of Climate Change in California: An Overview.* California Energy Commission, Sacramento, Report # CEC-500-2005-186-SF, February 2006.

Joyce, B., S. Vicuna, L. Dale, J. Dracup, M. Hanemann, D. Purkey and D. Yates, *Climate Change Impacts on Water for Agriculture in California: A Case Study in the Sacramento Valley* California Energy Commission, Sacramento, Report # CEC-500-2005-194-SF, March 2006.

Sebastian Vicuna, Rebecca Leonardson, John A. Dracup, Michael Hanemann and Larry Dale, *Climate Change Impacts on High-Elevation Hydropower Generation in California's Sierra Nevada: A Case Study in the Upper American River.* California Energy Commission, Sacramento, Report # CEC-500-2005-199-SF, March 2006.

Michael Hanemann, *Declaration* Submitted on behalf of the California Attorney General Office in connection with Central Valley Chrysler-Jeep, Inc., et al., v. Catherine E. Witherspoon, US District Court Eastern District of California – Fresno, May 2, 2006.

Amy Lynd Luers, Daniel R. Cayan, Guido Franco, Michael Hanemann, and Bart Croes, *Our Changing Climate: Assessing the Risks to California,* The California Climate Change Center, July 2006.

Michael Hanemann and Bennett Brooks, *Regarding the Equitable Distribution of Water in Imperial Irrigation District* August 22, 2006.

Michael Hanemann, *Declaration* Submitted on behalf of NRDC in connection with NRDC v. Kempthorne, San Luis & Delta-Mendota Water Authority, et al., US District Court Eastern

District of California - Fresno, August 21, 2007.

Michael Hanemann, *Report* Submitted on behalf of Fitness Australia in connection with Phonographic Performance Company of Australia Ltd In the Australian Copyright Tribunal File No CT1 of 2006, May 29, 2008.

Contributions to Books

C-1 Erlenkotter, Donald, W. Michael Hanemann, Richard E. Howitt, and Henry J. Vaux, Jr. "The Economics of Water Development and Use." In *California Water Planning and Policy: Selected Issues*, edited by Ernest Engelbert. Davis: University of California, Water Resources Center, June, 1979.

C-2 Hanemann, W. Michael. "Quality and Demand Analysis." In *New Directions in Econometric Modeling and Forecasting in U. S. Agriculture*, edited by Gordon C. Rausser. New York: Elsevier/North-Holland, Inc., 1982, pp. 55-98.

C-3 Fisher, Anthony C., and W. Michael Hanemann. "Endangered Species: The Economics of Irreversible Damage." In *Economics of Ecosystem Management*, edited by D. O. Hall, N. Myers, and N. S. Margaris. Dordrecht: Dr. W. Junk Publishers, 1985.

C-4 Fisher, Anthony C., and W. Michael Hanemann. "Option Value and the Extinction of Species." In *Advances in Applied Micro-Economics, Volume 4*, edited by V. Kerry Smith. Greenwich, Connecticut: JAI Press, 1986, pp. 169-190.

C-5 Hanemann, W. Michael. "WTP and WTA as Benefit Measures—How Do They Differ? How Can They Be Measured?" In *Proceedings of a Workshop on Economic Non-Market Evaluation of Losses to Fish, Wildlife and Other Environmental Resources*, edited by Philip A. Meyer and Stephen O. Anderson. Sausalito, California: Bay Institute of San Francisco, May, 1987, pp. 20-42.

C-6 _____. "Economics and the Preservation of Biodiversity." In *Biodiversity*, edited by E. O. Wilson. Washington, D. C.: National Academy Press, 1988.

C-7 _____. "Commentary on 'Valuation of Genetic Resources.'" In *The Preservation and Valuation of Biological Resources*, edited by Gordon H. Orians, Gardner M. Brown Jr., William E. Kunin and Joseph E. Swierzbinski. Seattle, Washington: University of Washington, 1990, pp. 233-239.

C-8 Loomis, John B., Thomas Wegge, W. Michael Hanemann, and Barbara Kanninen. "The Economic Value of Water to Wildlife and Fisheries in the San Joaquin Valley: Results of a Simulated Voter Referendum." In *Transactions of the 55th North American Wildlife and Natural Resources Conference*, Wildlife Management Institute, Washington, D. C., 1990, pp. 259-268.

C-9 _____."Reviewer's Comments" In David Imber, Gay Stevenson and Leanne Wilks, *A Contingent Valuation Survey of the Kakadu Conservation Zone*. Canberra, Australia: Resource Assessment Commission, RAC Research Paper No. 3, February, 1991, pp. 187-192.

C-10 Loomis, John B., W. Michael Hanemann, Barbara Kanninen, and Thomas Wegge. "Willingness to Pay to Protect Wetlands and Reduce Wildlife Contamination from Agricultural Drainage." In

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C-31 Li, Chuan-Zhong, Karl-Gustaf Lofgren and W. Michael Hanemann, "Real versus Hypothetical Willingness to Accept.: the Bishop and Heberlein Model Revisited", in Bengt Kristrom, Partha

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Alexander E. Farrell; W. Michael Hanemann, and David Roland-Holst, "Executive Summary" Alexander E. Farrell, W. Michael Hanemann, Christopher Busch, and Eric Hallstein, "Chapter 1: Introduction" Alan H. Sanstad, W. Michael Hanemann, and Maximilllian Aufhammer, "Chapter 6: End-use Efficiency in a "Post-Carbon" California Economy: Policy Issues and Research Frontier" Maximillian Auffhammer, W. Michael Hanemann, and Sarah Szambelan, "Chapter 8: Transportation" Alexander E. Farrell, W. Michael Hanemann and Christopher Busch, "Chapter 10: Synthesis" in W. Michael Hanemann and Alexander E. Farrell (eds), *Managing Greenhouse Gas Emissions in California.* California Climate Change Center at UC Berkeley, January, 2006. http://calclimate.berkeley.edu

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F-21 _____. "Specification of the individual's demand function: the treatment of time." Department of Agricultural and Resource Economics, Working Paper No. 316, University of California, Berkeley, November, 1984.

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F-42 Cooper, Joseph C., and W. Michael Hanemann. "Referendum Contingent Valuation: How Many Bounds Are Enough?" USDA Economic Research Service, Food and Consumer Economics Division, Working Paper. May, 1995.

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Assessment and Compensation: A Comparison of Approaches." Department of Agricultural and Resource Economics, Working Paper No. 766, University of California, Berkeley. June, 1995.

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F-45 Mohn, C., W. Michael Hanemann, Michael Ward, "Caught in a Corner: Using the Kuhn-Tucker Conditions to Value Montana Sportfishing" June 2000.

F-46 Busch, Christopher B. and W. Michael Hanemann, "Analyzing the Impact of Beach Closures, Intersite Substitution and Intertemporal Substitution via a Model of Attendance at Five Orange County Beaches" Working Paper No. 965, University of California, Berkeley, July, 2001.

F-47 Cavanagh, Sheila M., W. Michael Hanemann, and Robert N. Stavins "Muffled Price Signals: Household Water Demand Under Increasing-Block Prices" Fondazione Eni Enrico Mattei Working Paper 40. February, 2002.

F-48 Schlenker, W., A. Hanemann,., and A.C. Fisher, "The Impact of Global Warming on U.S. Agriculture: An Econometric Analysis," Department of Agricultural and Resource Economics Working Paper 936, University of California, Berkeley, October 9, 2002.

F-49 W. Michael Hanemann, "The Central Arizona Project", Department of Agricultural and Resource Economics Working Paper No. 937, University of California, Berkeley, October 2002.

F-50 Mohn, Craig, Michael Hanemann, Linwood Pendleton, and David Layton, "Shifting Sands: A Preliminary Exploration of Seasonal Variation in Preferences for Beaches," Department of Agricultural and Resource Economics Working Paper No. 966, University of California, Berkeley, January 2003.

F-51 Schlenker, W., A. Fisher and W.M. Hanemann, "Will U.S. Agriculture Really Benefit from Global Warming? Accounting for Irrigation in the Hedonic Approach," Department of Agricultural and Resource Economics Working Paper No. 941, University of California, Berkeley, October 2003.

F-50 Kuriyama, Koichi, W. Michael Hanemann, and Linwood Pendleton, "Approximation Approaches to Probabilistic Choice Set Models for Large Choice Set Data," Department of Agricultural and Resource Economics Working Paper No. 967, University of California, Berkeley, May 2003.

Hoffmann, Sandra A. and W. Michael Hanemann, "Torts and the Protection of 'Legally Recognized Interests'" April, 2005.

W. Michael Hanemann and Celine Nauges, Heterogeneous Responses to Water Conservation Programs: The Case of Residential Users in Los Angeles. August 2005.

Michael Hanemann and Larry Dale, "Economic Damages from Climate Change: An Assessment of Market Impacts" July 2006.

Presentations

"Contingent Valuation." Lecture course sponsored by the Italian National Research Council taught at the Southern Italy Center of Agricultural Economics, Naples, January 19-23, 1998.

Invited participant, Advanced Training Workshop in Multi-level Modeling of Environmental Economics, London, England, March 18-19, 1998.

"Dispute Resolution in Natural Resources and Environmental Problems: What have We Learned?" Invited paper presented at the Conference on Water and Food Security in the Middle East, Nicosia, Cyprus, April 20-23, 1998.

"Why Environmental Management is Difficult." Invited seminar, Nicholas School of the Environment, Duke University, May 26, 1998.

"Determining the Validity of Attribute Based Stated Choice Methods" (co-authored with Joffrey Swait). Invited paper presented at NOAA Workshop on Application of Stated Preference Methods to Resource Compensation, Washington, DC, June 1-2, 1998.

"Economic Methods for Measuring Environmental Damages from War." Invited paper presented at the First International Conference on Addressing the Environmental Consequences of War, Washington, DC June 10-12, 1998.

"The Impact of Global Warming on Agriculture: Rethinking the Ricardian Approach" (co-author with Anthony Fisher). Paper presented at the First World Congress of Environmental and Resource Economics, Venice, Italy, June 25-27, 1998.

"Nonparametric Modeling of Travel Cost Data" (co-author with David Chapman and Michael Ward). Paper presented at the First World Congress of Environmental and Resource Economics, Venice, Italy, June 25-27, 1998.

Invited panelist, Symposium on The Problems of Valuation in LDC's; Symposium on Preference Valuation and Environmental Valuation; and Symposium on Market-Based Instruments for Environmental Protection. First World Congress of Environmental and Resource Economics, Venice, Italy, June 25-27, 1998.

Invited participant, Panel on Combining Sources of Information about Preferences and Choices to Enhance Understanding of Process and Inform Model Development, Fourth Invitational Choice Symposium, Jouy-en-Josas, France, July 7-10, 1998.

Invited participant, National Bureau of Economic Research, Summer Institute Public Economics Workshop on Public Policy and the Environment, Cambridge MA, August 3-4, 1998.

"Willingness to Pay versus Willingness to Accept: Some Further Results" Invited seminar, Economics Department, University of Southern California, Los Angeles, September 18, 1998.

"Setting Wholesale Prices for Urban and Agricultural Water in mexico" Invited presentation, National Water Commission Workshop on the Pricing of Water, Mexico City, September24-25, 1998.

"Pricing Strategies for Urban Water" Invited Presentation, Workshop on the Pricing of Water and Sewer Services, World Bank, Washington, DC October 12-13, 1998.

"What Have We Learned From CV Since 1989?" Invited presentation, Workshop on Alternatives to Traditional CVM in Environmental Valuation, Vanderbilt University, October 15-16, 1998

"Assessing Natural Resource Damages for Lost Beach Recreation," Invited seminar presentation, Department of Applied Economics and Statistics, University of Nevada, Reno NV, October 20, 1998.

"Contingent Valuation" Invited course of lectures to Italian graduate students in environmental economics, University of Naples, Portici, Naples , Nov 9-13, 1998.

"Lectures on Environmental Economics" Invited course of lectures to Dutch Ph. D Economics Students, Netherlands Networks of Economics, Rotterdam, December 7-11, 1998.

"Torts Law and Property Rights: The Role of Property Rights in Determining Torts Compensation for Environmental and Health Risk," co-authored with Sandra Hoffman, W-133 Annual Meeting,, Tucson AZ, February 24-26, 1999.

"Non-Market Valuation and Natural resources Damages" invited presentation at 20th Annual Public Land Law Conference, "Exploring Natural Resource Damages Under CERCLA and Other Federal Law," University of Montana School of Law, Missoula, MT March 4-5, 1999.

"Using Contingent Valuation for Outcome Measurement in the Non-Profit Center" Invited presentation, Symposium on Contracting, Outcome Measurement and Evaluation Techniques, Institute for the Study of Government and the nonprofit Sector, Indiana University, April 16, 1999.

"The Economics of Urban Water" Invited presentation, 4th Meeting of METRON Project Partners, School of Geography, Oxford University, June 7-8, 1999

"Strengths and Weaknesses of Costing Methods for Impacts of Climate Change" Invited paper presented at IPCC Expert Meeting on Costing Issues, Tokyo, Janpan, June 29-July 1, 1999.

"Nonmarket Valuation Using Revealed Preference" Two invited lectures, US Department of Agriculture, Economic Research Service, Washington, DC July 21-22, 1999.

"Intertemporal Consistency and Environmental Policy" co-authored with Sandra Hoffman, presented at Environmental and Resource Economics Workshop, University of Colorado, Boulder, July 30, 1999.

Invited participant, National Bureau of Economic Research, Summer Institute Public Economics Workshop on Public Policy and the Environment, Cambridge MA, August 2-3, 1999.

Keynote Speaker, Global Water Partnership Seminar on Water Pricing, 9th Stocholm Water Symposium, August 12, 1999.

"Valuing the Environment: A Review of the State of the Art in Contingent Valuation" Invited Robinson Seminar, Department of Agricultural, Resource and Managerial Econics, Cornell University, October 4, 1999.

Invited participant, Working Group on Fresh Water and Environmental Change - The Ecological Consequences of Altered Hydrological Regimes, National Center for Ecological Analysis, Santa Barbara, Oct 18-21, 1999.

"Water Resources and Non-Market Valuation in the USA: The Pervasive Influence of the Public Trust Doctrine" Invited paper presented at the Chartered Institution of Water and Environmental Management conference on Valuing the Environment: Beyond 2000, Royal United Services Institute, London, 23 November 1999.

"One-and-One-Half Bound Dichotomous Choice Contingent Valuation" (co-authored with Joseph Cooper and Giovanni Signorello) Invited paper presented at the Conference on the Theory and Application of Environmental Valuation, Kobe University, Japan, January 22-23, 2000.

Invited participant, California Senate Annual Fiscal Retreat, February 4, 2000.

"The Impact of Quality Variation on Southern California Beach recreation" co-authored with Michael Ward, John Winkler, Linwood Pendleton and David Layton, presented at W133 Annual Research Meeting, Sheraton Kauai Resort, Hawaii, February 28, 2000.

"Closed vs Open Ended Approaches to CV: Explaining Why results are Different" co-authored with Jon Krosnick and Timothy Beatty, presented at W133 Annual Research Meeting, Sheraton Kauai Resort, Hawaii, February 29, 2000.

Invited participant, Workshop on Implementing the Kyoto Prrotocol, Institute on Global Conflict and Cooperation, UC San Diego, April 28-29, 2000.

"Closed vs Open Ended Approaches to CV: Explaining Why results are Different" co-authored with Jon Krosnick and Timothy Beatty, presented at Fifth Occasional Workshop on Environmental and Resource Economics, UC Santa Barbara, May 5-6, 2000.

"Caught in a Corner: Using the Kuhn-Tucker Condition to Value Montana Sportfishing" co-authored with Craig Mohn and Michael Ward, presented at the EAERE Annual Meeting, Rethymnon, Crete June 29-July 2, 2000.

Invited commentator, Pew Center Workshop on the Environmental Impacts of Climate Change, Washington DC, July 18-19, 2000.

"Tort Law and Non-Monetary Loss: Insurance versus Property Rights Enforcement and Compensation for Environmental Damage" (co-authored with Sandra Hoffman) presented at the Annual Meeting of the American Agricultural Economics Association, Tampa, FL, July 30 – August 2, 2000.

Invited participant, National Bureau of Economic Research, Summer Institute Public Economics Workshop on Public Policy and the Environment, Cambridge MA, August 7-8, 2000

"Disaggregate Choice Analysis: Stretching the Neo-Classical Paradigm" Invited paper presented at the Conference on Measuring Welfare and Well-Being in Honor of Professor B. M. S. van Praag, Department of Economics, University of Amsterdam, Holland, August 25-26, 2000.

"What Have We Learned Since the NOAA Panel on CV?" Invited presentation, EPA Workshop on Stated Preference: What Do We Know ? Where Do We Go? Washington, DC October 12-13, 2000.

"Using Contingent Valuation for Valuing Environmental Improvements" Presented at the Annual Meeting of the Association of APPAM, Seattle, November 4, 2000.

"Pricing as a Tool for Demand Management: The Experience in the US" invited presentation, International Workshop on Water for the City, National Technical Univesrity, Athens, Greece, November 28, 2000.

"The Economic Value of Beach Recreation in Southern California" Invited paper presnted at Conference on Orange County's Coastal crisis, Cal State Fullerton, January 16, 2001.

"Economic Value of Improving Coastal Water Quality" Invited Presentation, Second Annual Ballnoa Wetlands Symposiumn, Loyola Marymount University, Los Angeles, CA May 18, 2001.

Co-organizer, Workshop on Context Dependence and Aggregation in Disaggregate Choice Analysis, UC Berkeley Invitational Choice Symposium, Asilomar Conference Center, June 105, 2001

"Lectures on Non-market Valuation" Invited course of lectures, 12th Jerusalem Summer School in Economic Theory, Program on Environmental & Resource Economics, Hebrew University, Jerusalem, June 13-21, 2001.

"Uncertainty, Learning and the Irreversibility Effect" seminar paper presented at Department of Agricultural and Resource Economics, Hebrew University, Rehovot, June 22, 2001.

"The impact of global warming on U.S. agriculture: an econometric analysis" (co-authored With Wolfram Schlenker and Tony Fisher), presented at 11th Annual EAERE Conference, Southampton, England, June 28-30, 2001.

"The Revealed Preference Approach to Nonmarket Valuation" Invited lecture series, EAERE Summer School on Nonmarket Valuation, Venice, Italy, July 2 – 7, 2001.

Invited participant, "Round Table on Water in Mexico," organized by the Institute of the Americas, Mexico City, July 12-13, 2001.

Invited participant, National Bureau of Economic Research, Summer Institute Public Economics Workshop on Public Policy and the Environment, Cambridge MA, July 30-31, 2001

Invited commentator, Camp Resources IX, Wilmington NC, August 16-17, 2001.

"Some Lessons from Water Markets in California: Informal Markets, Incomplete Property Rights and Third-Party Effects" invited paper presented at Conference on Linking Industry, Local and Regional , National and International Emission Trading Schemes, Fondazione Eni Enrico Mattei, Venice Italy, December 3-4, 2001.

"Muffled Price Signals: Household Water Demand Under Increasing-block Prices" (coauthored with Sheila M. Olmstead and Robert N. Stavins) presented at ASSA Meetings, Atlanta, Jan 5, 2002.

"The Costs and Benefits of Adaptive Management" Invited presentation, Conference on Ocean Law and Fisheries Management/Science/Economics, Boalt School of Law, UC Berkeley, April 6, 2002.

"The irreversibility effect: necessary and sufficient conditions" (co-authored with Urvashi Narain and Anthony Fisher), presented at Conference on Risk and Uncertainty in Environmental and Resource Economics, Wageningen, Holland, June, 5-7 2002; also presented at the Second World Congress of Environmental and Resource Economists, Monterey CA, June 27, 2002.

Invited lecturer, Workshop on Water Pricing and Sanitation, Department of Urban Studies and Planning, Massachusetts Institute of Technology, June 12-14, 2002

"Correcting Bias From a Partial Increase in Precision in Cost Construction in Travel Cost Modeling" (co-authored with Craig Mohn, Linwood H Pendleton and David Layton) presented at the Second World Congress of Environmental and Resource Economists, Monterey CA, June 24, 2002.

"Fishery Management Under Multiple Uncertainty" (co-authored with Gautam Sethi, Christopher Costello and Anthony Fisher" presented at the Second World Congress of Environmental and Resource Economists, Monterey CA, June 25, 2002.

"An Econometric Analysis Of Climate Change Impacts On U.S. Agriculture" (co-authored with Wolfram Schlenker and Anthony Fisher) presented at the Second World Congress of Environmental and Resource Economists, Monterey CA, June 26, 2002.

"The Economic Value of Beach Use" Invited presentation, meeting of the National Academy of Sciences Ocean Studies Board, Corvallis, OR, July 11, 2002.

Invited commentator, Environmental and Resource Economics Workshop, Department of Economics, University of Colorado, Boulder, July 15-16, 2002

"The Impact of Global Warming on US Agriculture: An Econometric Analysis" (co-authored with Wolfram Schlenker and Anthony Fisher). Presented at National Bureau of Economic Research, Summer Institute Public Economics Workshop on Public Policy and the Environment, Cambridge MA, July 29-30, 2002. Presented at National Bureau of Economic Research, Summer Institute Public Economics Workshop on Public Policy and the Environment, Cambridge MA, August 7-8, 2000. Presented as invited keynote speech, Annual Meeting of Chilean Economics Association, Punta de Tralca, Chile September 26, 2002. Presented as invited paper at Conference on Empirical Economics Models of Pricing Valuation and Resource Allocation, Economics Research Center, University of Chicago, October 4-5, 2002. Presented at seminar at Andrew Young School of Policy Studies, Georgia State University, October 18, 2002. Presented at seminar at the Department of Economics, Western Michigan University, December 3, 2002. Presented at Environmental Economics Seminar, Department of Economics, Harvard University, December 11, 2002. Presented as invited paper at the American Meteorological Society Annual Meeting, Session on Impacts of Water Variability, Long Beach, CA, February 11, 2003. Presented at seminar at the Department of Economics, University of Central Florida, February 26, 2003.

"Some Alternative Approaches to Environmental Policy" Invited lecture presented at "Executive Environmental Program: Strategic Management of Environmental Management", Mexico City, July 29 – August 2, 2002.

Invited Participant, Asko Conference on Asko Conference, Beijer Institute, August 31 – September 2, 2002.

"The Economic Approach to Groundwater Management and Sustainability" Invited presentation, Annual Meeting and Conference, Groundwater Resources Association, Newport Beach, September 18, 2002.

"Uncertainty, Learning and the Irreversibility Effect" Invited lecture, Department of Economics, University of Concepcion, Chile, September 25, 2002.

"The Economic Value of Beach Recreation in Southern California" (co-authored with Linwood Pendleton). Paper presented at 2002 Conference on California and the World Ocean, Santa Barbara, October 29, 2002.

"Ten Years Later: Contingent Valuation After the NOA Panel Report" Invited lecture, Resources for the Future, Washington, DC November 20, 2002.

"The Economics of Asthma" (co-authored with Sylvia Brandt) presented at the Annual Meeting of the Southern Economics Association, New Orleans, November 24, 2002.

"Contingent Valuation: Mapping Disaggregated Preferences" Invited Werner-Sichel Lecture, University of Western Michigan, Kalamazoo, December 4, 2002.

"Market Benefits/Impacts of Climate Change" Invited paper presented at OECD Workshop on the Benefits of Climate Policy: Improving Information for Policy Makers, Paris December 12-13, 2002.

"Natural Resources Damages: An Economic Perspective" presented at the University of Vigo, Spain, January 16, 2003.

Invited Panelist, Conference on Valuing Health Outcomes: An Assessment of Approaches, Resources for the Future,, Inc, Washington DC February 13-14, 2003.

Invited discussant, Conference on Global Climate Change and California, California Energey Commission, Sacramento, February 20021,2003.

"Economic Value of Beach Recreation in Southern California" presentation at Coastal Economics Workshop, University of Southern California, Los Angeles, February 24, 2003.

"Urban Water Demand Management and Planning" Invited presentation, Conference on Economic Incentives and the Sustainability of Florida's water Supply, University of Central Florida, February 27, 2003.

Invited discussant, Workshop on Equilibrium Modeling Approaches at the Boundaries of Industrial Organization, Public Economics, and Environmental Economics. Department of Economics, Stanford University, February 28 - March 1, 2003.

"Corner Solution Models of recreation Demand (co-authored with Craig Mohn) presented at Conference on New Frontiers in Natural Resource and Environmental Economics, University of Washington, Seattle, April 5 2003.

"Muffled Price Signals: Household Water Demand Under Increasing-block Prices" (coauthored with Sheila M. Olmstead and Robert N. Stavins) presented at NBER Environmental Economics Working Group Meeting, Cambridge, MA April 12, 2003.

"An Economic Assessment of the Ebro River project in Spain" Invited presentation, Conference on "Innovations in Water and Environmental Planning in Mediterranean-Climate Systems: Experiences in California and Southern Europe", Intitute of Urban & Regional Development, UC Berkeley, April 18, 2002.

Lectures on Nonmarket Valuation, OSINERG (Energy Regulatory Agency), Lima, Peru, May 15-16, 2003.

Invited participant, Water Policy Workshop on Integrated Ground and Surface Water Management, The Nature Conservancy, San Francisco, May 20, 2003.

Invited participant, Workshop on Environmental Performance and the Effectiveness of Government Regulation, UC Berkeley, Center for the Study of Law and Society, June 2, 2003.

"Economic Aspects of Tariff Regulation for Water Supply and Sanitation" Invited presentation, Conference on Tariff Regulation in the Water and Sanitary Sector of Chile: Recent Experience and Challenges, Department of Economics, University of Concepcion, Chile, June 20, 2003.

"Shifting Sands: A preliminary Exploration of Seasonal Variation in Preferences for Beaches" (co-authored with Craig Mohn, Linwood Pendleton and David Layton). Paper presented at 12 th AERE Annual Conference, Bilbao, Spain, June 28, 2003.

Panelist, Round Table Conference on "Oil Spill Impacts on Fisheries and Fishery Communities: The Case of the *Prestige* Oil Spill." 12 th AERE Annual Conference, Bilbao, Spain, June 29, 2003.

Panelist, "Symposium on Climate Change and Agriculture" American Association of Agricultural Economics Annual Meeting, Montreal, July 28, 2003.

"Revealed and Stated Preference Approaches to Valuing Children's Environmental Health" Invited paper presented at OECD Workshop on the Valuation of Environmental Health Risks for Children, Paris, September 11-12, 2003.

"The Analysis of Individual Choice Behavior" Public lecture, Swedish University of Agricultural Science, Uppsala, Sweden, October 3, 2003.

"Valuing Reduced Asthma Morbidity in Children" (co-authored with Sylvia Brandt) presented US EPA Workshop on Valuing Environmental Health Risks to Children, Washington DC October 20-21, 2003.

"Nor Any Drop to Drink: Climate Change and the Future of Irrigated Agriculture" (co-authored with Wolfram Schlenker and Anthony Fisher) presented at the Allied Social Science Meetings, San Diego, CA, January 4, 2004.

"Uncertainties in the Economic Costs of Climate Change" Aspen Global Change Institute Workshop on Climate Scenarios and Projections: the Known, the Unknown, and the Unknowable Applied to California, Aspen CO, March 12-14, 2004.

"The Use of Economic Valuation in Establishing Compensation Under the Proposed Environmental Liability Directive" (co-authored with David Chapman) Applied Environmental Economics Conference, London, England March 26, 2004.

"The Economic Costs of Action versus Inaction" Invited presentation at Columbia University 250th Anniversary Symposium on "Earth's Future: Taming the Climate" Columbia University, April 22 – 23, 2004

"The Impact of Climate Change on California Agriculture" (with Wolfram Schlenker). Invited paper presented at USDA-ERS and Farm Foundation Workshop, "Agricultural Risks in a Water-Short World: Producer Adaptation and Policy Directions" Washington DC, May 24-25, 2004.

Co-Organizer, Workshop on "Group Decisions: Analyzing Decision Strategies and Structure in Households and Firms" Sixth Invitational Choice Symposium, Estes Park, Colorado, June 4- 8, 2004.

"Valuing Water" Invited paper presented at Workshop on "Water Crisis: Myth or Reality" Santander Spain June 14-16, 2004.

Panelist, "How Can We Pay for the CALFED Plan" Water Education Foundation, Water Law and Policy Briefing, San Diego, July 16, 2004.

Discussant, session on Institutions and Natural Resources in the American West, Annual Meeting of the Economic History Association, San Jose CA, September 12, 2004.

"Water Resources and Climate Change in California" Invited presentation. IURD Colloquium Series on California at 50 Million, UC Berkeley November 30, 2004.

"Climate Change and California's Water Supply" Invited presentation at Session "Up a Creek Without

Snow: Climate Change and Water Supply" Association of California Water Agencies Annual Meeting, Palm Springs, December 2, 2004.

"Environmental Valuation: Contingent Valuation and Choice Modeling" Invited lectures for course on The Economics of Natural Resources and the Environment, International Center for Advanced Mediterranean Agronomic Studies, Zaragoza, Spain, February 1-2, 2005.

"Improving Economic Tools for the Analysis of Climate Change" Invited presentation at Symposium for Stephen Schneider's 60th Birthday, Stanford University, February 10-12, 2005.

"Economic Impact of Climate Change on the California Water System" Invited presentation, Annual Conference of California Municipal Utilities Association, San Diego CA, March 3, 2005.

"In Defense of the Economic Valuation of the Natural Environment" Invited paper, Perspectives on Environmental Values Conference, University of North Carolina, Chapel Hill, March 4-5, 2005.

"Energy Efficiency and Climate Change" Invited presentation, Workshop on Energy and Sustainable Growth in California, Berkeley City Club, April 22, 2005.

"Climate Change in California" Public lecture sponsored by California Interfaith Power and Light Group, Westminster Presbyterian Church, Sacramento CA, April 22, 2005.

"The Evolution of Water Marketing in California: Property Rights versus Economics as Drivers of Market Development" Presented at Western Economics Association, Annual Meeting, San Francisco, April 5, 2005.

"Optimal Growing Conditions for California: A Micro Level Analysis of the Impacts of Climate change" (co-authored with Wolfram Schlenker and Anthony Fisher). Presented at Western Economics Association, Annual Meeting, San Francisco, April 7, 2005.

"Analyzing Heterogeneity in Discrete Choice: A Latent Segmentation Approach" (co-authored with James Hilger) Presented at Western Economics Association, Annual Meeting, San Francisco, April 8, 2005.

"Heterogeneity in Discrete Choice: A Latent Segmentation Approach" (co-author with James Hilger). Paper presented at the American Agricultural Economics Association Annual Meeting, Providence RI, July 25, 2005.

"Determinants of Agricultural Output: Degree Days, Yields and Implications for Climate Change" (co-author with Wolfram Schlenker and Anthony Fisher). Paper presented the American Agricultural Economics Association Annual Meeting, Providence RI, July 26, 2005.

"Climate Change: What We Know" Invited presentation, Informational Hearing, California State Assembly Select Committee on Air and Water Quality, Santa Monica CA, August 11, 2005.

"Economic Impacts of Climate Change" Invited presentation, Plenary Session, International Energy Conversion Engineering Conference, San Francisco, CA, August 15, 2005.

"Climate Change in California" invited lecture, San Francisco Planning and Urban research Association, San Francisco CA, August 18, 2005

"Progress on the Preliminary Science Report to the Governor" California Energy Commission Second Annual Climate Change Research Conference, September 16, 2005.

"The Economic Issues Raised by Climate Change in California" Keynote speech, University of Colorado Environmental and Resource Economics Workshop, Vail CO, September 23, 2005.

"Climate Change and Environmental Policy in California" Invited presentation, First Annual California Environmental Law Conference, UC Berkeley Law School, February 16, 2006.

"Climate Change Impacts on Hydropower: A high Elevation Case Study in the Upper American River" (co-authored with Sebastian Vicuna, Larry Dale, Rebecca Leonardson and John Dracup) Invited paper presented at California Climate Change and Hydropower Conference, UC Davis, February 16, 2006.

Invited panelist, Workshop on Climate Change and the Water Industry organized by Thames Water, San Francisco, February 23, 2006.

Invited participant, Workshop on New Prospects for Climate Change Regulation, Harvard Law School, Cambridge MA, March 10, 2006.

Invited presentation on economic research on climate policy in California to Sir Nicholas Stern and the staff of the Stern Review on the Climate Change, London England, March 27.

"Sustainability and Climate Change: The Problem of Water" Invited public lecture sponsored by the Royal Economic Society of Gran Canaria, Gran Canaria, Spain March 29, 2006.

"Agriculture & Urban Water Use versus the Environment – and Climate Change" Invited presentation, University and Industry Consortium, Spring Meeting, Oakland CA, May 4, 2006.

"Climate Change and California's Economy" (co-author with Alex Farrell) Public Briefing, California research Bureau, Sacramento CA, April 7, 2006.

"Climate Change Impacts and Adaptation Policy: A California Case Study" Invited lecture, Executive Environmental Program: Strategic Management of Environmental Policy, Saltillo, Mexico, June 1, 2006.

"The Intertemporal Substitution of Recreation Demand: A Dynamic Kuhn-Tucker Model With a Corner Solution" (co-author Koichi Kuriyama) Paper presented at the Third World Congress of Environmental and Resource Economists, Kyoto Japan, July 4, 2006.

The Kuhn-Tucker Corner Solution Model with Non-Additive Separable Preferences: An Application to Recreation Demand" (co-author with Koichi Kuriyama) Paper presented at the Third World Congress of Environmental and Resource Economists, Kyoto Japan, July 5, 2006.

"Utility Consistent Frameworks to Model Corner Solutions With Large Demand Systems" (co-author with Felipe Vasquez) Paper presented at the Third World Congress of Environmental and Resource Economists, Kyoto Japan, July 5, 2006.

"Finite Mixture Model of Beach Recreation in Southern California" (co-author with James Hilger) Paper presented at the Third World Congress of Environmental and Resource Economists, Kyoto Japan, July 5, 2006.

"Aggregation Bias in Welfare Calculations with Discrete Choice Models: The Fallacy of the Representative Individual" (co-author with Craig Mohn and Linwood Pendleton) Paper presented at the Third World Congress of Environmental and Resource Economists, Kyoto Japan, July 5, 2006.

"Climate Change as a Natural Catastrophe" Invited presentation, session on Economics of Catastrophe, Third World Congress of Environmental and Resource Economists, Kyoto Japan, July 5, 2006.

Michael Hanemann and Felipe Vasquez, "Sequence Effects (and a Scope Effect) Revisited" Paper presented at the Third World Congress of Environmental and Resource Economists, Kyoto, Japan, July 5, 2006.

"The Economic Costs and Benefits of Investments in Municipal Water and Sanitation Infrastructure: A Global Perspective" (co-author with Dale Whittington) Paper presented at the Third World Congress of Environmental and Resource Economists, Kyoto Japan, July 6, 2006.

"Heterogeneous Responses to Water Conservation Programs: The Case of Residential Users in Los Angeles" (co-author with Celine Nauges) Paper presented at the Third World Congress of Environmental and Resource Economists, Kyoto Japan, July 6, 2006.

"Implications of Climate Change for Farmland Value: Preliminary estimates for California" (co-author with Anthony Fisher and Wolfram Schlenker) Paper presented at the Third World Congress of Environmental and Resource Economists, Kyoto Japan, July 6, 2006.

"Economic Damages from Climate Change: An Assessment of Market Impacts" (co-author with Larry dale) Invited paper presented at Global Forum on the Economic Benefits of Climate Change Policies, OECD Paris, July 6-7, 2006.

"Economic Impact of Reducing Greenhouse Gas Emissions in California" Invited Lecture, Public Policy Institute of California, San Francisco CA, July 10, 2006.

"Translating Risks into Social and Economic Impacts" Invited presentation, Workshop on California Levee Risk, Now and in the Future: Identifying Research and Tool Development Needs, Sacramento CA, September 28-29, 2006.

"California's New Greenhouse Gas Law" Invited lecture, Graduate School of International Policy Studies, Monterey Institute of International Studies, Monterey CA , November 2, 2006.

"Climate Change Policy in California" Public Lecture, Dublin, Ireland November 9, 2006.

"Climate Change and California Water" Invited lecture, School of Geography, Planning and Environmental Policy, University College Dublin, November 10, 2006.

"Nonmarket Valuation and Guidelines in the United States, Invited lecture, Conference of European Forest Externalities Research Group, Catania, Italy, November 17, 2006.

"Integrating Economic and Environmental Aspects of Water Management" Invited paper presented at Conference on Water Management: Technology, Economics and the Environment, Madrid, January 19-20, 2007.

"Contingent Valuation and Choice Modeling" Invited lectures for course on The Economics of Natural

Resources and the Environment, International Center for Advanced Mediterranean Agronomic Studies, Zaragoza, Spain, January 22-23, 2007.

"Climate Change: Economics and Policy" Plenary speech, Annual meeting of Spanish Association for Energy Economics, Oviedo Spain, January 25, 2007.

"Innovative Climate Change Mitigation Policy: the Case of California" Invited presentation Wegener Center conference of The Future Climatic Window: Local Impacts of Climate Change, Leibnitz Austria, January 26, 2007.

"Global Climate Change and California" Invited presentation, Assembly Committee on Water, Parks & Wildlife, Sacramento CA, February 20, 2007.

"Why We Should Care About Climate Change" Invited presentation, International Conference on Cap and Trade as a Tool for Climate Change Policy: Design and Implementation, UC Berkeley, February 22-23, 2007.

Discussant, RFF Conference on the Frontiers of Environmental Economics, Washington DC February 27, 2007.

"Adaptation and Climate Change in California" Invited presentation, Frankel Symposium: Coping with Global Warming, UCLA Law School, March 2, 2007.

"Climate Change and Energy Policy – the View from California" Invited presentation, Alberta-California Energy Conference, UC Berkeley, March 9, 2007.

"Why CO2 Is Different Than SO2: The California Model for GHG Regulation" Invited presentation, UC Berkeley Energy Symposium, UC Berkeley, March 21, 2007.

"Why Good Beach Water Quality Matters – And Is Difficult to Attain' Invited paper presented at IGCC Conference on Beach Water Quality and Tourism in Southeast Asia, Penang, Malaysia, March 27-29, 2007.

"Climate Change Policy Design in California" Invited presentation, Conference on the Future of Environmental Policy in Mexico: Growing Green, Mexico City, April 26, 2007.

"The Concept of Value in Economics" Invited lecture, Conference of European Forest Externalities Research Group, Barcelona, Spain, May 15, 2007.

"The California Climate Change Initiative" Invited presentation, Austrian Paper Industry Annual Forum, Graz, Austria, May 22, 2007.

"The Economics of Climate Change" Invited lecture, Wegener Center for Climate and Global Change, University of Graz, May 22, 2007.

"California's Approach to Managing Greenhouse Gasses" Invited presentation. Conference on Transatlantic Cooperation for Clean Air: Common Goals, Different Strategies, US Embassy, Vienna, Austria, May 24, 2007.

"The Problem of Water" Invited lecture, 37th St. Gallen Symposium, St. Gallen, Switzerland, June 1,

2007.

"A Different Architecture for Climate Change Policy" Public lecture, Portland State University, Portland OR June 8, 2007.

"Policy Options for Reducing GHG Emissions" Invited presentation, Conference on "The Changing Climate Issue: Reporting Ahead of the Curve" Portland OR, June 9, 2007.

Lecture Course on Non-Market Valuation, University of Valencia Summer School on Business and Economics, Valencia, Spain July 2-6, 2007.

"The Administration and Regulation of Water Supply" Invited presentation, Mexican Institute of Water Technology, International Seminar on the Administration and Regulation of Water Supply and Sanitation, Mexico City, July 26, 2007.

"How Green Tech Will Help the Economy" Testimony presented at Informational hearing of US Senate Committee on Environment and Public Works, Santa Clara CA, August 14, 2007.

"Climate Change Policy: A Different Architecture" Invited lecture, University of the Basque Country Economics Summer School on Climate Change and Sustainable Development, San Sebastian, Spain, September 4, 2007.

"The Challenge of Climate Change for Economics" Invited presentation, International Group of Funding Agencies for Global Change Research, annual meeting, Vienna, Austria, October 31, 2007.

Invited mentor and discussant, Environmental and Resource Economics Early-Career Researcher Workshop, Bathurst Australia, November 12-13, 2007.

"The Economics of Climate Change" Public Lecture, Australian Department of the Environment and Water Resources, Canberra , Australia, November 14, 2007.

"Nonmarket Valuation: The Challenge of Dealing with Preferences" Invited lecture, Conference in Honor of Mordecai Schechter, Department of Economics, Haiffa University, Israel, November 30, 2007.

"The Economics of Climate Change Reconsidered" Public Lecture, Department of Economics, University of Las Palma, Gran Canaria, Spain, December 3, 2007.

Panel member, Sessions on Good Practice Guidelines for Non-market Valuation, organized by European Forest Externalities Research Group, La Palma Island, Spain, December 4-5, 2007.

"Upstream versus Downstream Regulation" Invited presentation, Workshop on Cap and Trade Design Issues, Stanford University, January 15, 2008.

"Carbon Tax versus Cap and Trade" Invited presentation, California Air Resources Board staff, Sacramento CA February 1, 2008.

"Climate Change Policy in California, the US, and the EU" Invited paper presented at Workshop on California-EU Regulatory Cooperation, UC Berkeley, February 22, 2008.

"Environmental Taxes" Invited presentation, New America Foundation Conference on Tax Reform for

California's New Economy, Sacramento CA, February 27, 2008.

"What Climate Change Means to California" Invited presentation, Conference on "Beyond Kyoto: Addressing the Legal Mechanisms to Mitigate Climate Change" UC Davis Law School, February 29, 2008.

"Climate Change in the North" Invited presentation, Conference on The Consequences of Climate Change in the Canadian North, UC Berkeley, March 7, 2008.

Invited discussant of Stavins, Jaffe & Schatzki "Too Good to be True", POWER Conference, UC Berkeley, March 21, 2008.

"Economics of Climate Change: Why the Hurry" Invited keynote speech, Ninth Annual Swiss Forum of Climate, Bern, April 1, 2008.

"The Economics of Adaptation" Invited paper, OECD Expert Workshop on Economic Aspects of Adaptation to Climate Change, Paris, April 7-8, 2008.

"Water and Sanitation Challenge Paper (co-author with Dale Whittington, Claudia Sadoff and Marc Jeuland" Second Copenhagen Consensus, Copenhagen, May 26-30, 2008.

"Environmental Justice and Greenhouse Gas Emission Regulation in California" Invited presentation, California Air Resources Board staff, Sacramento CA, June 11, 2008.

"Addressing the Climate Challenge Through Innovation: The Perspective from Economics" Research Conference: Innovation in Climate and Energy, sponsored by the Copenhagen Climate Council, Copenhagen, June 19, 2008.

"Impact of Changes in Household Energy and Water Rates, Rate Structures," (co-author with Larry Dale) Paper presented at 21st Annual Conference, Center for Research in Regulated Industries, Monterey CA, June 20, 2008.

"The Economics of Climate Change Revisited" Paper presented at Annual Meeting of the European Association of Environmental and Resource Economists, Gothenburg, Sweden, June 27, 2008. Invited lecture, Economy and Environment Program for Southeast Asia 30th Biannual Workshop, Bali, Indonesia, November 19-20, 2008.

"Climate Change Policy" Invited Plenary Address, Annual Meeting of the European Association of Environmental and Resource Economists, Gothenburg, Sweden, June 28, 2008.

"Water Resources Management in the United States" Invited lecture, Goldman School of Public Policy Executive Education Program on Water Resources Management for senior executives of China's Ministry of Water Resources, UC Berkeley, CA July 23, 2008.

"Water Resources Management in California: The Legacy of Dysfunctional Institutions" Invited paper presented at Symposium on Water Economics and Financing, Zaragoza Spain, July 28, 2008.

"How, and When, Does Emission Trading Work?" Invited paper, 3rd Atlantic Workshop on Energy and Environmental Economics, A Toxa, Spain, July 4, 2008.

"Adaptation in Action: New Climate Change and Water Policy in California" Public lecture, hosted by the Economic Society of Australia (NSW), Sydney Australia, August 11, 2008.

"California's Greenhouse Gas Legislation - A Different Paradigm" Invited seminar, Law School, Australian National University, Canberra, Australia, August 12, 2008.

"A New Architecture for Domestic Climate Change Policy: Trading, Tax or Technologies?" Public lecture, Monash University, Melbourne Australia, August 15, 2008. Public lecture, Institute of Policy Studies, School of Government, Victoria University, Wellington New Zealand, August 21, 2008.

"Climate Change Overview: Policy" Invited presentation, 4th Australia & New Zealand Climate Change and Business Conference, Auckland, New Zealand, August 18, 2008.

"Climate Change Adaptation: What Should California Do?" Keynote speech, Fifth Annual California Climate Change Research Conference, Sacramento, September 10, 2008.

"Climate Change and Water Law" Invited paper, Plenary Session: There Will Be Water–Or Will There? American Bar Association, Section of Environment, Energy and Natural Resources, 16th Fall Meeting, Phoenix, AZ September 18, 2008.

"Groundwater NRDA in the Modern Age: Economics" (co-author with David Chapman) Invited presentation, 22nd Annual Conference on Soils, Sediment and Water, Amherst MA, October 22, 2008.

"Managing Risk and Uncertainty from an Economic Standpoint" Invited presentation, California Climate Change and Water Adaptation Summit, Long Beach CA, November 13-14, 2008.

"Workshop on Natural Resources Damage Assessment" Short course co-taught with Wictor Adamowicz, Asian Justices Forum on the Environment, Bali, Indonesia, November 22-23, 2008.