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Curriculum Vitae

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I. BIOGRAPHICAL SKETCH

Richard C. Bishop is a Senior Consultant with Stratus Consulting, Inc., and Professor Emeritus in the Department of Agricultural and Applied Economics at the University of Wisconsin-Madison. For more than 30 years, he has conducted research on the valuation of nonmarket environmental services, sustainability, and renewable resource management. His many papers have appeared in outlets such as the *Journal of Environmental Economics and Management*, *Land Economics*, the *American Journal of Agricultural Economics*, *Environmental and Resource Economics*, and *Ecological Economics*. Bishop is a Fellow of the American Agricultural Economics Association and completed a two-year term as President of the Association of Environmental and Resource Economists in 1998. He received the Publication of Enduring Quality Award from the Association of Environmental and Resource Economics in 1999 and was elected Fellow of that association in 2006. He served as Chair of the Department of Agricultural and Applied Economics at UW-Madison from 1998 until 2004. He joined the Wisconsin faculty in 1973 after completing a Ph.D. and doing postdoctoral research at the University of California-Berkeley.

II. PERSONAL DATA

Date of Birth: October 25, 1943; Pomona, California

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III. ACADEMIC TRAINING

Ph.D., Agricultural Economics, University of California-Berkeley,
 1971.

M.S., Economics, Colorado State University, 1967.

B.S., Business Administration, Colorado State University, 1965.

IV. PROFESSIONAL EMPLOYMENT

February 2006-present, Senior Consultant, Stratus Consulting, Inc., Boulder, CO and
 Washington, DC.

July 1, 1973-present, Department of Agricultural and Applied Economics, University of
 Wisconsin-Madison (2006-present, Professor Emeritus; 1983-2006, Professor; 1978-1983,
 Associate Professor; 1973-1978, Assistant Professor)

August 1, 1998-2004, Chair, Department of Agricultural and Applied Economics, University
 of Wisconsin—Madison.

January 1, 1971-June 30, 1973, Assistant Research Agricultural Economist, University of
 California-Berkeley (Post-doctoral research).

V. HONORS AND AWARDS

Publication of Enduring Quality Award, 1999, Association of Environmental and Resource
 Economists, for article with Thomas A. Heberlein, "Measuring Values of Extramarket
 Goods: Are Indirect Measures Biased?" *American Journal of Agricultural Economics*, 1979.

Fellow, American Agricultural Economics Association, Elected 2001.

Fellow, Association of Environmental and Resource Economists, Elected 2006.

VI. SELECTED PUBLICATIONS

A. Articles in Refereed Journals

1. Champ, Patricia A., and Richard C. Bishop. "Is Willingness to Pay for Public Goods Sensitive to Elicitation Format?" *Land Economics* 82(2):???-??? May 2006
2. Heberlein, Thomas A., Matthew A. Wilson, Richard C. Bishop, and Nora C. Schaefer. "Rethinking the Scope Test as a Criterion for Validity in Contingent Valuation." *Journal of Environmental Economics and Management*, 50(1):1-22 (July, 2005).
3. Bishop, Richard C. "The Economic Effects of Chronic Wasting Disease (CWD) in Wisconsin." *Human Dimensions of Wildlife* 9(3):181-192 (2004).
4. Bill Provencher and Richard C. Bishop. "Does Accounting for Preference Heterogeneity Improve the Forecasting of a Random Utility Model? A Case Study." *Journal of Environmental Economics and Management* 48(1):793-810 (July 2004).
5. Woodward, Richard T., and Richard C. Bishop. "Sector-Level Decisions in a Sustainability-Constrained Economy." *Land Economics* 79(1):1-14 (February 2003).
6. Provencher, Bill, Kenneth A. Baerenklau, and Richard C. Bishop. "A Finite Mixture Logit Model of Recreational Angling with Serially Correlated Random Error." *American Journal of Agricultural Economics* 84(4):1066-1075 (November 2002).
7. Holt, Matthew T., and Richard C. Bishop. "A Semiflexible Normalized Quadratic Inverse Demand System: An Application to the Price Formation of Fish." *Empirical Economics*, 27:23-47 (2002).
8. Stumborg, Basil E., Kenneth A. Baerenklau, and Richard C. Bishop. "Nonpoint Source Pollution and Present Values: A Contingent Valuation of Lake Mendota." *Review of Agricultural Economics*, 23(1):120-132 (Spring/Summer 2001).
9. Champ, Patricia A., and Richard C. Bishop. "Donation Payment Mechanisms and Contingent Valuation: An Empirical Study of Hypothetical Bias." *Environmental and Resource Economics*, 19:383-402 (2001).
10. Bishop, R.C., and A. Scott. "The Safe Minimum Standard of Conservation and Environmental Economics." *Aestimum* 37: 11-40 (1999).
11. Woodward, Richard T., and Richard C. Bishop. "Optimal Sustainable Management of Multi-Species Fisheries: Lessons from a Predator-Prey Model." *Natural Resource Modeling* 12(3):355-377 (Fall, 1999).

12. Poe, Gregory L., and Richard C. Bishop. "Valuing the Incremental Benefits of Groundwater Protection when Exposure Levels are Known." *Environmental and Resource Economics* 13:341-367 (1999).
13. Poe, Gregory, Harold van Es, Timothy VandenBerg, and Richard C. Bishop. "Do Participants in Well Water Testing Programs Update Their Exposure and Health Risk Perceptions?" *Journal of Soil and Water Conservation* 53(4):320-325 (Fourth Quarter 1998).
14. Costanza, Robert, Bryan Norton, and Richard C. Bishop. "The Evolution of Preferences: Why 'Sovereign' Preferences May Not Lead to Sustainable Policies and What to Do About It." *Ecological Economics* 24(2&3):193-212 (1998)..
15. Woodward, Richard W., and Richard C. Bishop. "How To Decide When Experts Disagree: Uncertainty-Base Choice Rules in Environmental Economics." *Land Economics* 73(4): 492-507 (1997).
16. Provencher, Bill, and Richard C. Bishop. "An Estimable Dynamic Model of Recreation Behavior with an Application to Great Lakes Angling." *Journal of Environmental Economics and Management* 33:107-127 (1997).
17. Champ, Patricia A., Richard C. Bishop, Thomas C. Brown, and Daniel W. McCollum. "Using Donation Mechanisms to Value Nonuse Benefits from Public Goods." *Journal of Environmental Economics and Management* 33:151-162 (1997).
18. Champ, Patricia A., and Richard C. Bishop. "Evidence on the Accuracy of Expenditures Reported in Recreational Surveys." *Journal of Agricultural and Resource Economics* 21(1):150-159 (1996).
19. Brown, Thomas C., Patricia A. Champ, Richard C. Bishop, and Daniel W. McCollum. "Which Response Format Reveals the Truth About Donations to a Public Good?" *Land Economics* 72(2):152-166 (1996).
20. Harpman, David A., Michael P. Welsh, and Richard C. Bishop. "Nonuse Value: Emerging Policy Analysis Tool." *Rivers* 4(4):280-291 (October 1993; issue appeared in 1995).
21. Woodward, Richard T., and Richard C. Bishop. "Efficiency, Sustainability, and Global Warming." *Ecological Economics* 14:101-111 (1995).
22. Unsworth, Robert E., and Richard C. Bishop. "Assessing Natural Resource Damages Using Environmental Annuities." *Ecological Economics* 11:35-41 (1994).
23. Bishop, Richard C. "Economic Efficiency, Sustainability, and Biodiversity." *Ambio*

- 22(2&3):69-73 (1993).
24. Boyle, Kevin J., Michael P. Welsh, and Richard C. Bishop. "Contingent Valuation of Unexperienced Environmental Conditions." *Journal of Environmental Economics and Management* 25:S-80-S-99 (1993).
 25. Bishop, Richard C., and Michael P. Welsh. "Existence Values in Benefit-Cost Analysis and Damage Assessment." *Land Economics* 68(4):405-417 (1992). (Reprinted in *Forestry and the Environment: Economic Perspectives*. Wiktor L. Adamowicz, William White, and William Phillips, eds. Oxon, UK: C. A. B. International, 1993, pp. 135-154.)
 26. Johnson, Barry L., Scott R. Milliman, Richard C. Bishop, and James F. Kitchell. "Evaluating Fishery Rehabilitation Under Uncertainty: A Bioeconomic Analysis of Quota Management for the Green Bay Yellow Perch Fishery." *North American Journal of Fisheries Management* 12(4):703-720 (1992).
 27. Poe, Gregory L., Richard C. Bishop, and Jeffrey A. Cochrane. "Benefit-Cost Principles for Land Information Systems." *Journal of the Urban and Regional Information System Association* 4(2):20-31 (1992).
 28. Cochrane, Jeffrey A., Richard C. Bishop, and David B. Ives. "Lake Michigan Salmonid Stocking Costs in Wisconsin." *Marine Resource Economics* 7:169-185 (1992).
 29. Milliman, Scott, Barry L. Johnson, Richard C. Bishop, and Kevin J. Boyle. "The Bioeconomics of Resource Rehabilitation: A Commercial-Sport Analysis for a Great Lakes Fishery." *Land Economics* 68(2):191-210 (1992).
 30. Ready, Richard C., and Richard C. Bishop. "Endangered Species and the Safe Minimum Standard." *American Journal of Agricultural Economics*, 72(2):309-312 (1991).
 31. Bishop, Richard C., Scott R. Milliman, Kevin J. Boyle, and Barry L. Johnson. "Economic Evaluation of Fishery Rehabilitation Projects: Theoretical Principles and a Case Study." *Ocean and Shoreline Management*, 13(3&4):253-274 (1990).
 32. Boyle, Kevin J., and Richard C. Bishop. "Welfare Measurement Using Contingent Valuation." *American Journal of Agricultural Economics*, 70(1):20-28 (1988).
 33. Bishop, Richard C. "Option Value: A Reply." *Land Economics* 64(1):88-93 (1988).
 34. Boyle, Kevin J., Michael P. Welsh, and Richard C. Bishop. "Validation of Empirical Measures of Welfare Change: A Comparison of Nonmarket Techniques:

- Comment and Extension." *Land Economics* 64(1):94-98 (1988).
35. Bishop, Richard C., Kevin J. Boyle, and Michael P. Welsh. "Toward Total Economic Valuation of Great Lakes Fishery Resources." *Transactions of the American Fisheries Society* 116:339-345 (1987).
 36. Milliman, Scott R., Richard C. Bishop, and Barry L. Johnson. "Estimating Economic Gains from Resource Rehabilitation for a Great Lakes Commercial Fishery in the Presence of Biological Uncertainty." *Canadian Journal of Fisheries and Aquatic Sciences* 44:289-297 (1987).
 37. Boyle, Kevin J., and Richard C. Bishop. "Valuing Wildlife in Benefit Cost Analyses: A Case Study Involving Endangered Species." *Water Resources Research*, 23(5): 943-950 (1987).
 38. Caulkins, Peter P., Richard C. Bishop, and Nicolaas W. Bouwes, Sr. "The Travel Cost Model for Lake Recreation: A Comparison of Two Methods for Incorporating Site Quality and Substitution Effects." *American Journal of Agricultural Economics* 68(2): 291-297 (1986).
 39. Heberlein, T.A., and R.C. Bishop. "Assessing the Validity of Contingent Valuation." *The Science of the Total Environment* 56: 99-107 (1986).
 40. Kealy, Mary Jo, and Richard C. Bishop. "Theoretical and Empirical Specification Issues in Travel Cost Demand Studies." *American Journal of Agricultural Economics* 68(3): 255-268 (August 1986).
 41. Chavas, Jean-Paul, Richard C. Bishop, and Kathleen Segerson. "Ex Ante Welfare Evaluation in Cost-Benefit Analysis." *Journal of Environmental Economics and Management* 13(3): 255-268 (1986).
 42. Boyle, Kevin J., Richard C. Bishop, and Michael P. Welsh. "Starting Point Bias in Contingent Valuation Bidding Games." *Land Economics* 61(2): 188-194 (May 1985).
 43. Samples, Karl C., and Richard C. Bishop. "Estimating the Value of Variations in Anglers' Success Rates: An Application of the Multiple-Site Travel Cost Method." *Journal of Marine Resource Economics* 2(1):55-74 (1985).
 44. Caulkins, Peter P., Richard C. Bishop, and Nicolaas W. Bouwes, Sr. "Omitted Cross-Price Variable Biases in the Linear Travel Cost Model." *Land Economics* 61(2): 182-187 (1985).
 45. Dodds, Daniel, and Richard C. Bishop. "On the Role of Information in Mineral

- Exploration." *Land Economics* 59(4):411-419 (1983).
46. Bishop, Richard C., Thomas A. Heberlein, and Mary Jo Kealy. "Contingent Valuation of Environment Assets: Comparisons with a Simulated Market." *Natural Resources Journal* 23: 619-633 (1983).
 47. Bishop, Richard C. "Option Value: An Exposition and Extension." *Land Economics* 58:1-15 (1982).
 48. Samples, Karl C., and Richard C. Bishop. "An Economic Analysis of Integrated Fisheries Management." *Journal of Great Lakes Research* 8:593-602 (1982).
 49. Stier, Jeffrey C., and Richard C. Bishop. "Crop Depredation by Waterfowl: Is Compensation the Solution?" *Canadian Journal of Agricultural Economics* 29:159-170 (1981).
 50. Bishop, Richard C., and Karl Samples. "Sport and Commercial Fishing Conflicts: A Theoretical Analysis." *Journal of Environmental Economics and Management* 7:220-233 (1980).
 51. Talhelm, Daniel R., and Richard C. Bishop. "Benefits and Costs of Sea Lamprey Control in the Great Lakes." *Canadian Journal of Fisheries and Aquatic Sciences* 37:2169-2174 (1980).
 52. Bishop, Richard C., and Thomas A. Heberlein. "Measuring Values of Extramarket Goods: Are Indirect Measures Biased?" *American Journal of Agricultural Economics* 61(5):926-930 (1979).
 53. Bishop, Richard C. "Endangered Species, Irreversibility, and Uncertainty: A Reply." *American Journal of Agricultural Economics* 61(2):376-379 (1979).
 54. Bishop, Richard C. "Endangered Species and Uncertainty: The Economics of a Safe Minimum Standard." *American Journal of Agricultural Economics* 60(1): 10-18 (February 1978).
 55. Bishop, Richard C., and Daniel L. Vogel. "Power Plant Siting on Wisconsin's Coasts: A Case Study of a Displaceable Use." *Coastal Zone Management Journal* 3: 363-384 (1978).
 56. Bishop, Richard C. "Intertemporal and Intergenerational Pareto Efficiency: A Comment." *Journal of Environmental Economics and Management* 4: 247-251 (1977).
 57. Ciriacy-Wantrup, S.V., and Richard C. Bishop. "Common Property as a Concept in

Natural Resources Policy." *Natural Resources Journal* 15: 713-728 (1975).
 (Reprinted in Indonesia: Firial Marahudin dan Ian R. Smith. *Ekonomi Perikanan: Dari Teori Ekonomi ke Pengelolaan Perikanan*. Jakarta: Penerbit PT Gramedia, 1986, pp. 43-60; Reprinted in Bruce Larson, ed. *Property Rights and Environmental Problems*, International Library of Environmental Economics and Policy, , 2003; Reprinted in David Campbell and Robert Lee. *Environmental Law and Economics*, The International Library of Essays in Environmental Law, Hampshire, England: Ashgate Publishing Limited, Forthcoming.)

58. Bishop, Richard C. "Limitation of Entry in the United States Fishing Industry: A Reply." *Land Economics*, 51(2): 182-185 (1975).
59. Bishop, Richard C. "Limitation of Entry in the United States Fishing Industry: An Economic Appraisal of a Proposed Policy." *Land Economics*, 49(4):381-390 (1973).

B. Books and Chapters in Books

1. Lazo, Jeffrey K., P. David Allen, Richard C. Bishop, Douglas Beltman, and Robert D. Rowe. "Determining Economic Tradeoffs among Ecological Services: Planning for Ecological Restoration in the Lower Fox River and Green Bay." *Economics of Ecological Risk Assessment: Applications to Watershed Management*. Randall J. F. Bruins and Matthew T. Heberling, eds. Boca Raton, London, New York, and Washington, D.C.: CRC Press, 2005, pp. 371-399.
2. Bishop, Richard C. "Where to From Here." *A Primer on Nonmarket Valuation*. Patricia A. Champ, Kevin J. Boyle, and Thomas C. Brown, eds. Boston, Dordrecht, London: Kluwer Academic Publishers, 2003, pp. 537-566.
3. Bishop, Richard C., and Michael P. Welsh. "Contingent Valuation: Incorporating Nonmarket Values." *Better Environmental Decisions: Strategies for Governments, Businesses, and Communities*. Ken Sexton, Alfred A. Marcus, K. William Easter, and Timothy D. Burkhardt, eds. Washington, D.C.: Island Press, 1999, pp. 177-194.
4. Bishop, Richard C. "On Assessing the Validity of Market and Non-Market Economic Values." *The Living Forest: Non-Market Benefits of Forestry*. London: The Stationary Office, 1999. (Keynote Address, International Symposium on the Non-Market Benefits of Forestry, Edinburgh, June 24-28, 1996).
5. Bishop, Richard C., and Donato Romano, eds. *Environmental Resource Valuation: Applications of the Contingent Valuation Method in Italy*. Boston, Dordrecht, London: Kluwer Academic Publishers, 1998.
6. Bishop, Richard C., Patricia A. Champ, Thomas C. Brown and Daniel W.

- McCollum. "Measuring Nonuse Values: Theory and Empirical Applications." *Determining the Value of Non-Marketed Goods: Economics, Psychology, and Policy Relevant Aspects of the Contingent Valuation Method*. Raymond J. Kopp, Werner W. Pommerehne, and Norbert Schwarz, eds. Dordrecht, The Netherlands: Kluwer Academic Publishers, 1997, pp. 59-81.
7. Lu, Alan Yun, Richard C. Bishop, and Michael P. Welsh. "Measuring the Benefits of Air Quality Improvement in Taipei: A Comparison of Contingent Valuation Elicitation Techniques." *The Economics of Pollution Control in the Asia Pacific*. Robert Mendelsohn and Dagee Shaw, eds. Cheltenham, UK: Edward Elgar, 1996.
 8. Mullarkey, Daniel J., and Richard C. Bishop. "Toward Assessing the Validity of Contingent Valuation of Wetlands." *Sustaining Coastal Resources: Economics and the Natural Sciences*. Charles S. Colgan, ed., Portland, ME: Edmund S. Muskie Institute of Public Affairs, University of Southern Maine, 1995, pp. 57-85.
 9. Bishop, Richard C., and Richard T. Woodward. "Valuation of Environmental Amenities under Certainty." *Handbook of Environmental Economics*. Daniel W. Bromley, ed., Oxford: Blackwell Publishers, 1995, pp. 543-567.
 10. Bishop, Richard C., Patricia A. Champ, and Daniel J. Mullarkey. "Contingent Valuation." *Handbook of Environmental Economics*. Daniel W. Bromley, ed., Oxford: Blackwell Publishers, 1995, pp. 629-654.
 11. Bishop, Richard C., and Thomas A. Heberlein. "The Contingent Valuation Method." *Natural Resource Damages: Law and Economics*. Kevin Ward and John Duffield, eds. New York: John Wiley and Sons, Inc., 1992, pp. 281-309.
 12. Bishop, Richard C., and David E. Ervin. "Natural Resources and the Environment." *New Directions in Data and Information Systems for Rural Areas*. Rueben C. Buse and James Driscoll, eds. Ames, IA: Iowa State University Press, 1992, pp. 402-418.
 13. Bishop, Richard C., and Thomas A. Heberlein. "The Contingent Valuation Method." *Economic Valuation of Natural Resources: Issues, Theory, And Applications*, Rebecca L. Johnson and Gary V. Johnson, eds. Boulder, CO: Westview Press, 1990, pp. 81-104.
 14. Gregory, Robin, and Richard C. Bishop. "Willingness to Pay or Compensation Demanded: Issues in Applied Resource Valuation." *Amenity Resource Valuation: Integrating Economics with Other Disciplines*. George L. Peterson, B.L. Driver, and Robin Gregory, eds. State College, PA: Venture Publishing, 1988, pp. 135-141.

15. Bishop, Richard C., and Thomas A. Heberlein. "The Contingent Valuation Method." *Valuing the Environment*. Geoff Kerr and Basil M. H. Sharp, eds. Christchurch, New Zealand: University of Canterbury Centre for Resource Management, 1987, pp. 99-115.
16. Bishop, Richard C. "Economic Values of Wildlife." *Valuing Wildlife: Economic and Social Perspectives*. Daniel J. Decker and Gary R. Goff, eds. Boulder, CO. Westview Press, 1987, pp. 24-33.
17. Anderson, Glen D., and Richard C. Bishop. "The Valuation Problem." *Natural Resource Economics: Policy Problems and Contemporary Analysis*. Daniel W. Bromley, ed. Boston: Kluwer-Nijhoff Publishing Co., 1986, pp. 89-137.
18. Bishop, Richard C. "Resource Valuation Under Uncertainty: Theoretical Principles for Empirical Research." *Advances in Applied Microeconomics*. V. Kerry Smith, ed. Greenwich, Connecticut: JAI Press, 1986, pp. 133-152.
19. Bishop, Richard C., and Thomas A. Heberlein. "Does Contingent Valuation Work?" *Valuing Environmental Goods*. Ronald G. Cummings, David S. Brookshire, and William D. Schulze, eds., Totowa, New Jersey: Rowman and Allanheld, Publishers, 1986, pp. 123-147.
20. Ciriacy-Wantrup, S.V. *Natural Resource Economics: Selected Papers*. Richard C. Bishop and Stephen O. Anderson, eds. Boulder, Colorado: Westview Press, 1985.
21. Bishop, Richard C. "Economic Consideration Relating to Wildlife Management on Private Lands." *Wildlife Management on Private Lands*, Robert T. Dumke, George C. Burger, and James R. March, eds. La Crosse, Wisconsin: La Crosse Printing for the Wisconsin Chapter of the Wildlife Society, 1982, pp. 73-87.
22. Bishop, Richard C. "Valuation of Extramarket Goods: Potential Applications of the Travel Cost and Hypothetical Methods in Asia and the Pacific Basin." *Economic Valuation of Natural Resource and Environmental Aspects of Development*, Maynard M. Hufschmidt, and Eric L. Hyman, eds. Dublin, Ireland: Tycooly International, 1982, pp. 89-96.
23. Bishop, Richard C., Daniel W. Bromley, and Steve Langdon. "On Implementing Multi-Objective Management of Commercial Fisheries: A Strategy for Policy Relevant Research." *Economic Analysis for Fisheries Management Plans*. Lee G. Anderson, ed. Ann Arbor, Michigan: Ann Arbor Science Publishers, 1981.
24. Bromley, Daniel W., and Richard C. Bishop. "From Economic Theory to Fisheries Policy: Conceptual Problems and Management Prescriptions." *Economic Impacts of Extended Fisheries Jurisdiction*. Lee G. Anderson, ed. Ann Arbor, Michigan: Ann

Arbor Science Publishers, 1979, pp. 281-302. (Reprinted in Indonesia: Ferial Marahudin dan Ian R. Smith. *Ekonomi Perikanan: Dari Teori Ekonomi ke Pengelolaan Perikanan*. Jakarta: Penerbit PT Gramedia, 1986, pp. 221-244.)

25. Bishop, Richard C., Gary V. Johnson, and Karl Samples. "Wisconsin's Limited Entry Experience." *Limited Entry as a Fishery Management Tool*. R. Bruce Rettig and Jay C. Ginter, eds. Seattle and London: University of Washington Press, 1978.
26. Bishop, Richard C. "Uncertainty and the Evaluation of Environmental Impacts: A Case Study." *Environmental Impact Assessment: Guidelines and Commentary*, Thomas G. Dickert and Katherine R. Domeny, eds. University Extension Press, University of California, Berkeley, 1973, pp. 107-120.

C. Proceedings Issues (1995-present)

1. Cordes, Sam, John Allen, Richard C. Bishop, Gary D. Lynne, Lindon J. Robison, Vernon D. Ryan, and Ron Shaffer. "Social Capital, Attachment Value, and Rural Development: A Conceptual Framework and Application of Contingent Valuation." *American Journal of Agricultural Economics* 85(5):1201-1207, December, 2003. (Principal Paper presented at annual meetings of the American Agricultural Economics Association, Montreal, July 27-30, 2003.
2. Rollins, Kimberly S., and Richard C. Bishop. "Canada Goose Damage Abatement and Farmer Compensation at Wisconsin's Horicon Marsh." *Biology and Management of Canada Geese*, Proceedings of the International Canada Goose Symposium, D. H. Rusch, M. D. Samuel, D. D. Humburg, and B. D. Sullivan, eds., 1998.
3. Bishop, Richard C., and Daniel W. McCollum. "Assessing the Content Validity of Contingent Valuation Studies." *Benefits and Costs Transfer in Natural Resource Planning*, Western Regional Research Publication, W-133, Interim Report 8, October, 1995. Compiled by Douglas Larson, Department of Agricultural Economics, University of California, Davis, CA 95616, pp. 325-358.
4. Champ, Patricia A., Richard C. Bishop, Thomas C. Brown, and Daniel W. McCollum. "A Comparison of Contingent Values and Actual Willingness to Pay Using a Donation Provision Mechanism with Possible Implications for Calibration." *Benefits and Costs Transfer in Natural Resource Planning*, Western Regional Research Publication, W-133, Interim Report 8, October, 1995. Compiled by Douglas Larson, Department of Agricultural Economics, University of California, Davis, CA 95616, pp. 387-410.

D. Bulletins and Staff Papers

1. Bishop, Richard C. "The Economic Effects of Chronic Wasting Disease (CWD) in Wisconsin." Department of Agricultural and Applied Economics, University of Wisconsin, Staff Paper 463, November 2003.
2. Bishop, Richard C., and Matthew T. Holt. "Estimating Post-Harvest Benefits from Increases in Commercial Fish Catches with Implications for Remediation of Impingement and Entrainment Losses at Power Plants." Department of Agricultural and Applied Economics, University of Wisconsin, Staff Paper 458. February 2003.
3. Bishop, Richard C. "The Economic Effects in 2002 of Chronic Wasting Disease (CWD) in Wisconsin." Department of Agricultural and Applied Economics, University of Wisconsin, Staff Paper 450. July 2002.
4. Bishop, Richard C., Bradley P. Bauer, and Steven C. Deller. "Winnebago System Water Quality Valuation Study." Center for Community Economic Development, University of Wisconsin-Extension/Madison, Staff Paper 96.2 (1996).
5. Bishop, Richard C., and Richard T. Woodward. "Efficiency and Sustainability in Imperfect Market Systems." Oregon State University, Graduate Faculty of Economics, Lectures in Economics #6, March 1994.
6. Poe, Gregory L., and Richard C. Bishop. "Prior Information, General Information, and Specific Information in the Contingent Valuation of Environmental Risks: The Case of Nitrates in Groundwater." Cornell University, Department of Agricultural Economics, Staff Paper SP 93-11, July, 1993.
7. Rollins, Kimberly, and Richard C. Bishop. "Net Social Costs of Preserving Biological Diversity." University of Guelph, Department of Agricultural Economics and Business, Working Paper WP92/02, April 1992.
8. Poe, Gregory L., and Richard C. Bishop. "Measuring the Benefits of Groundwater Protection from Agricultural Contamination: Results from a Two Stage Contingent Valuation Study." University of Wisconsin, Department of Agricultural Economics, Staff Paper 341, May 1992.
9. Gould, Brian W., and Richard C. Bishop. *Costs of Fisheries Rehabilitation in Green Bay and the Bay of Quinte*, Great Lakes Fishery Commission, Ann Arbor, MI, Completion Report, April, 1989.
10. Bishop, Richard C., Thomas A. Heberlein, Daniel W. McCollum, and Michael P. Welsh. "A Validation Experiment for Valuation Techniques." Working Paper, Center for Resource Policy Studies and Programs, College of Agricultural and Life Sciences, University of Wisconsin-Madison, 1988.

11. Bishop, Richard C., Kevin J. Boyle, Michael P. Welsh, Robert M. Baumgartner, and Pamela R. Rathbun, 1987. *Glen Canyon Dam Releases and Downstream Recreation: An Analysis of User Preferences and Economic Values*, Report prepared for Glen Canyon Environmental Studies, U.S. Bureau of Reclamation, by HBRB, 4513 Vernon Blvd., Madison, WI.
12. Cleland, Charles E., and Richard C. Bishop. "An Assessment of the Economic Conditions of the Bay Mills Indian Community, Sault Ste. Marie Tribe of Chippewa Indians, and a Cost-Return Analysis of Treaty Commercial Fishermen - 1981." Boulder, Colorado: Native American Rights Fund, 1984.
13. Boyle, Kevin J., and Richard C. Bishop. "Economic Benefits Associated with Boating and Canoeing on the Lower Wisconsin River." *Economic Issues*. No. 84, February 1984.
14. Langner, Linda, and Richard C. Bishop. "Endangered Species: What are the Issues." *Economic Issues*. No. 66, March 1982.
15. Samples, Karl C., and Richard C. Bishop. *The Lake Michigan Angler: A Wisconsin Profile*. University of Wisconsin Sea Grant Institute, WIS-SG-423, June 1981.
16. Talhelm, Daniel R., Richard C. Bishop, and others. *Current Estimate of Great Lakes Fishery Values: 1979 Status Report*. Great Lakes Fishery Commission, Ann Arbor, Michigan, mimeo. rep. 79-1, December 1979.
17. Johnson, Gary V., and Richard Bishop. "Wisconsin's Commercial Fisheries: Present and Future." *Economic Issues*. No. 29, January 1979.
18. Bishop, Richard C., et al. *Wisconsin's Lake Michigan and Green Bay Commercial Fisheries: A Statistical Overview*. University of Wisconsin, Sea Grant College Program, Advisory Report #419, September 1978.
19. Stier, Jeffrey C., and Richard C. Bishop. "Canada Goose Management and Agriculture in the Horicon Area." *Economic Issues*. No. 21, May, 1978.
20. Robertson, Marc D., and Richard C. Bishop. *Off-Road Recreation Vehicles in the Upper Great Lakes States: User Characteristics and Economic Impacts*. University of Wisconsin, Agricultural Experiment Station Research Bulletin R2730, 1975.

E. Book Reviews

1. Stavins, Robert N., ed. *Economics of the Environment*, fourth edition. Reviewed in *Environment* 42(9): 40 (November 2000).

2. Jakobsson, Kristin M., and Adrew K. Dragun. *Contingent Valuation and Endangered Species*. Reviewed in the *American Journal of Agricultural Economics* 79(1):279-280 (1997).
 3. Myrick Freeman, III. *The Measurement of Environmental and Resource Values*. Reviewed in *Land Economics* 72:274-275 (1996).
 4. John A. Dixon and Paul B. Sherman. *Economics of Protected Areas: A New Look at Benefits and Costs*. Reviewed in *International Environmental Affairs* 4:140-142 (1992).
 5. Robert Cameron Mitchell and Richard T. Carson. *Using Surveys to Value Public Goods: The Contingent Valuation Method*. Reviewed in the *American Journal of Agricultural Economics* 72:249-250 (1990).
 6. J.A. Butlin, ed. *Economics of Environmental and Natural Resources Policy*. Reviewed in the *Natural Resources Journal* 22:501-502 (1982).
 7. Charles W. Howe. *Natural Resource Economics: Issues, Analysis, and Policy*. Reviewed in *Land Economics* 56:385-387 (1980).
 8. Colin Clark. *Mathematical Bioeconomics: The Optimal Management of Renewable Resources*. Reviewed in the *Transactions of the American Fisheries Society* 106:500-501 (1977).
 9. John V. Krutilla and Anthony C. Fisher. *The Economics of Natural Environments: Studies in the Valuation of Commodity and Amenity Resources*. Reviewed in *Land Economics* 52:567-572 (1977).
- F. Papers and Other Contributions at Professional Meetings (1995-present).
1. Boyle, Kevin, Richard Bishop, Daniel Hellerstein, Michael Welsh, Mary Ahearn, Andrew Laughland, and John Charbonneau. "Tests of Scope in Contingent Valuation Studies: Are the Numbers for the Birds?" Association of Environmental and Resource Economics (ASSA), Boston, MA, January 7, 2000.
 2. Bishop, Richard C., and Gregory L. Poe. "A CV Study on Protection of Groundwater From Nitrate Pollution." Invited paper, Fifth Joint Conference on Agriculture, Food, and the Environment. University of Padua, June 17-18, 1996.
 3. Holt, Matthew T., and Richard C. Bishop. "Price Formation of Fish in the U.S. Great Lakes: An Inverse Demand Systems Approach." Paper presented at Annual Meetings of the American Agricultural Economics Association, Indianapolis, IN, August 1995. Abstract, *American Journal of Agricultural Economics* 77:1376

(1995).

VII. COURSES TAUGHT

- A. Undergraduate Level
 - 1. Natural Resource Economics
 - 2. Environmental Economics
- B. Graduate Level
 - 1. Environmental Economics
 - 2. Valuation of Environmental Resources.

VIII. PH.D. THESES SUPERVISED

- A. Jeffrey C. Stier, *The Economics of a Dual Externality: Agriculture and Canada Geese in Wisconsin*, 1978.
- B. Karl C. Samples, *An Economic Analysis of Integrated Fisheries Management: The Case of the Lake Michigan Alewife/Salmonid Fisheries*, 1980.
- C. Daniel Dodds, *The Economics of Exploration for Extractive Resources*, 1980.
- D. Gary V. Johnson, *The Firm, the Fishery, and Public Decisions: An Analysis of Wisconsin's Lake Michigan Chub Fishery*, 1981. (Henry C. Taylor Memorial Award, 1981)
- E. Peter P. Caulkins, *An Empirical Study of the Recreational Benefits Generated by a Water Quality Improvement*, 1982. (Henry C. Taylor Memorial Award, 1982; Outstanding Ph.D. Dissertation Award, American Agricultural Economics Association, 1983).
- F. Mary Jo Kealy, *Travel Cost Estimation of Recreational Demand: Theoretical, Empirical and Policy Issues*, 1982.
- G. Linda Langner, *Endangered Species Conservation in the Upper Midwest: An Economic Perspective*, 1984.
- H. Glenn G. Stevenson, *The Swiss Grazing Commons: A Study in Common Property Management*, 1984.

- I. Scott R. Milliman, *The Economics of Resource Rehabilitation: An Empirical Application of Capital Theory to Fishery Management*, 1985. (Honorable mention, National Sea Grant College Outstanding Ph.D. Thesis Competition, 1986).
- J. Kevin J. Boyle, *Essays on the Valuation of Nonmarket Resources: Conceptual Issues and Empirical Case Studies*, 1985.
- K. Michael P. Welsh, *Exploring the Accuracy of the Contingent Valuation Method: Comparisons with Simulated Markets*, 1986. (Department Outstanding Dissertation Award Winner, 1986).
- L. Daniel W. McCollum, *The Travel-Cost Method: Time, Specification, and Validity*, 1986.
- M. Richard C. Ready, *Benefit-Cost Analysis Under Temporal Uncertainty*, 1988. (Department Outstanding Dissertation Award, 1988; Outstanding Ph.D. Dissertation Award, American Agricultural Economics Association, 1989).
- N. William F. Rankin, Jr., *Reconciling Willingness to Pay/Willingness to Accept Disparities*, 1990.
- O. Kimberly S. Rollins, *Agriculture and Wildlife: From Principal-Agent Theory to a Wisconsin Economic Policy*, 1990. (Department Outstanding Dissertation Award, 1990; Outstanding Ph.D. Dissertation Award, American Agricultural Economics Association, 1991).
- P. Gregory L. Poe, *Information, Risk Perceptions, and Contingent Values: The Case of Nitrates in Groundwater*, 1993.
- Q. Audrey J. Lyke, *Discrete Choice Models to Value Changes in Environmental Quality: A Great Lakes Case Study*, 1993.
- R. Patricia A. Champ, *Nonmarket Valuation of Natural Resource Amenities: A Validity Test of the Contingent Valuation Method*, 1994.
- S. Daniel J. Mullarkey, *Contingent Valuation of Wetlands: Testing Sensitivity to Scope*, 1997.
- T. Richard T. Woodward, *Sustainability, Efficiency, and Economic Analysis: A Macroeconomic Framework with Microeconomic Implications*, 1997.
- U. Antony Scott, *Treating the Future Fairly: Complications of Uncertainty for Sustainability*, 2003.

- V. Rebecca Moore, *Essays on Nonmarket Valuation: Innovations in Theory and Methods*, 2006.

IX. MEMBERSHIPS

American Agricultural Economics Association

Association of Environmental and Resource Economists

American Association of University Professors

International Society for Ecological Economics

X. RECENT SERVICE ACTIVITIES

1. Governor's Task Force on Waste Recovery and Disposal, State of Wisconsin, 2005-2006.
2. Association of Environmental and Resource Economists, President-elect, 1996; President, 1997-99.
3. Editorial Board, *Land Economics*.
4. Referee for articles submitted to *Land Economics*, *Science*, *Journal of Leisure Research*, *American Journal of Agricultural Economics*, *Coastal Zone Management Journal*, *Journal of Great Lakes Research*, *Journal of Environmental Economics and Management*, *Canadian Journal of Agricultural Economics*, *Journal of Agricultural and Resource Economics*, *Review of Regional Studies*, *North American Journal of Fisheries Management*, *American Economic Review*, *Water Resources Research*, *Society and Natural Resources*, *Marine Resource Economics*, *Contemporary Policy Issues*, *the Australian Journal of Agricultural Economics*, and others.