

CURRICULUM VITA

Stephen K. Swallow

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Title: Professor

Department of Agricultural and
Resource Economics
University of Connecticut
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EDUCATION

1988	Duke University	Ph.D.	Resource Economics
1986	Duke University	M.S.	Resource Economics
1982	Cornell University	B.S.	Natural Resources and Wildlife Ecology

Ph.D. Dissertation: Economically interdependent stocks and joint optimal allocation of renewable and exhaustible natural resources, with an application to coastal zone development.

EXPERIENCE

January 2011-present Professor of Agricultural and Resource Economics, and Center for Environmental Science and Engineering, University of Connecticut
January 2011-present Adjunct Professor of Resource Economics, University of Rhode Island
July 1999-2010 Professor of Resource Economics, University of Rhode Island
July 1994-June 1999 Associate Professor of Resource Economics, University of Rhode Island
July 1988-June 1994 Assistant Professor of Resource Economics, University of Rhode Island

Research: Economics of environmental resource management, including land conservation and development, interdependent renewable and nonrenewable resources, land use, valuation of environmental resources, public preferences for environmental management, watershed management planning, multiple use forestry, ecosystem management, and the integration of conservation biology and economics of land resources.

Teaching: Valuation of environmental goods and resources, environmental economics. Prior to 2011: Undergraduate course in "Economics of Environmental Resource Management and Policy" (EEC 310); "Environmental Economics and Policy" (EEC 432)/ "Land Resource Economics" (EEC 532); Ph.D. course in "Welfare Economics" (EEC 630, "Applied Resource Analysis"); M.S./Ph.D. course in "Microeconomic Theory" (EEC 528); M.S. seminar "Conservation Biology and Resource Economics"; Undergraduate-Graduate course in "Interdisciplinary Topics in the Coastal Environment"; MS course in environmental economics (EEC 535). Currently emphasizing 528 and 535.

- July-August 1988 USDA Forest Service and Duke University School of Forestry and Environmental Studies, Research Specialist.
Research in economics of multiple-use forestry.
- 1983 - 1988 Duke University School of Forestry and Environmental Studies and Department of Economics, Teaching and Research Assistant in Natural Resource Economics and Microeconomics, and Associate in Research in resource economics.
- 1979 - 1982 Wildlife Research / Management Technician, summers and part-time: Cornell Biological Field Station, Bridgeport, NY; Missouri Department of Conservation, Columbia, MO; New York Cooperative Wildlife Research Unit, Ithaca, NY.

AWARDS AND HONORS

- 2011-12 DeFavero Fellow, College of Agriculture and Natural Resources, University of Connecticut, research support
- 2008-11 Elected to URI Faculty Senate (2008-11); Elected to Faculty Senate Executive Committee (2008-2010); Elected Chairperson of the Senate (2009-2010; 2010-2011).
- 2006 Faculty Dissertation Chair for Dana Marie Bauer:
Honorable Mention, Outstanding Ph.D. Dissertation Award (2005) from American Agricultural Economics Association and Outstanding Dissertation in Social Sciences, 2004-2005 (awarded 2006), University of Rhode Island
- 2004-2007 National Science Foundation, LTER (Long-Term Ecological Research) Planning and Synthesis Grant, Meeting of 100, member subcommittee on Biotic Structure, member Conference Committee, lead contributor for LTER Integrated Research Plan, of The Decadal Plan for LTER.
- 2004-2007 Editor, *American Journal of Agricultural Economics*, American Agricultural Economics Association
- 2003 Distinguished Member Award, Northeastern Agricultural and Resource Economics Association
- 2001-2004 President-Elect, President, Immediate Past President, Northeastern Agricultural and Resource Economics Association
- 2001-03 Editorial Council, *Journal of Environmental Economics and Management*
- 2000 Citation for Outstanding Research, from URI President and Provost
- 1999 Research Scientist of the Year, College of the Environment and Life Sciences, University of Rhode Island

- 1998 Invited Presenter, U.S. EPA Workshops on “Valuing and Managing Ecosystems” (October) and “Decision-Making and Valuation for Environmental Policy” (April).
- 1997-1999 Director, Association of Environmental and Resource Economists
- 1997 Land Conservation Award, Rhode Island Chapter of The Nature Conservancy (cited for research on public values; shared with Town of Richmond Open Space Preservation Commission)
- 1996 Invited Keynote Speaker, Scandinavian Society of Forest Economics
- 1996 Invited Presenter, Northeastern Agricultural and Resource Economics Association
- 1995-1998 Director, Northeastern Agricultural and Resource Economics Association
- 1994 Invited Discussant for “Value Elicitation in Laboratory Markets,” American Agricultural Economics Association Annual
- 1994-1996 Associate Editor, *Journal of Environmental Economics and Management*
- 1993-1994 Young Investigator, National Academy of Science and Russian Academy of Science
- 1992-1993 Editorial Council, *Journal of Environmental Economics and Management*
- 1992 National Research Highlight, USDA Forest Service Report to Congress for "Economics of Ecosystem Management"
- 1991-1993 Associate Editor, *Wildlife Society Bulletin*
- 1987 Environmental Conservation Fellowship, National Wildlife Federation
- 1986 Environmental Conservation Fellowship, National Wildlife Federation
- 1982 P.F. English Award for "Outstanding performance as an undergraduate," The Wildlife Society, Northeast Section
- 1982 Best Paper, Northeast Wildlife Conference, The Wildlife Society, Northeast Section
- 1981 Academic scholarship, Cornell University
- 1978-1982 Cornell National Scholar, Cornell University

PATENT APPLICATIONS

"Revenue Raising Auction Processes for Public Goods," Provisional Patent Application 61/120,573 filed 12/10/08. Sponsored by NSF, grant No DEB0621014

PUBLICATIONS

BOOKS

R.J. Johnston and S.K. Swallow (eds.) 2006. *Economics and Contemporary Land Use Policy*. Resources for the Future, Washington, D.C. 309pp.

CHAPTERS

Opaluch, J. J., S. K. Swallow, T. Weaver, C. W. Wessells, D. Wichelns. 1993. Landfill site evaluation based on public preferences concerning impacts on natural and social resources in Rhode Island. Invited presentation in "Economics of Solid Waste Management in R. C. Ready, A. Pagoulators, and W. M. Park, eds., Southern Regional Information Exchange Group-10 and Southern Rural Development Center and Farm Foundation, Mississippi State, MS (SRIEG-10 no. 30), pp. 53-77 Contribution no. 2672).

Wear, D. N. and S.K. Swallow. 1994. The Economics of Location and Forest Management for Multiple Benefits: A Review, Discussion and Speculation. In D.C. Le Master and R.A. Sedjo, eds., *Modeling Sustainable Forest Ecosystems: Proceedings of a Conference in Washington, D.C. November 18-20, 1992*, American Forests, Washington, D.C., pp. 106-121.

Swallow, S.K. 1997. Modeling Public Preferences for Environmental Management Planning and Decisions. O. Saastamoinen and S. Tikka, eds., *Proceedings of the Biennial Meeting of the Scandinavian Society of Forest Economics. Mekrijärvi, Finland, March 1996*. *Scandinavian Forest Economics*,36:23-41.

Johnston, R.J., and S.K. Swallow. 2006. Introduction: *Economics and Contemporary Land Use Policy*. Pages 1-18 in R.J. Johnston and S.K. Swallow (eds.) *Economics and Contemporary Land Use Policy*. Resources for the Future, Washington, D.C.

Johnston, R.J., S.K. Swallow, D.M. Bauer, and L.D. Philo. 2006. Support for Conservation Policies and Values for Conservation. Pages 23-266 in R.J. Johnston and S.K. Swallow (eds.) *Economics and Contemporary Land Use Policy*. Resources for the Future, Washington, D.C.

Johnston, R.J., S.K. Swallow, D.M. Bauer, E. Uchida, C.M. Anderson. 2012. Connecting Ecosystem Services to Land Use: Implications for Valuation and Policy. In J.M. Duke and JJ Wu (eds.), *The Oxford Handbook of Land Economics*, Oxford University Press, in press.

Smith, Elizabeth C., and Stephen. K. Swallow. 2013. Lindahl Pricing for Public Goods and Experimental Auctions for the Environment. In, Jason Shogren (ed.) *Encyclopedia of Energy, Natural Resource, and Environmental Economics*. Oxford:Elsevier Science, *in press*.

ARTICLES IN REFEREED JOURNALS

Swallow, S. K., R. J. Gutiérrez, and R. A. Howard, Jr. 1986. Snag versus forest characteristics as determinants in primary cavity-site selection by birds. *Journal of Wildlife Management* 50(4):576-583.

Swallow, S. K., R. A. Howard, Jr., and R. J. Gutiérrez. 1988. Snag preferences of woodpeckers foraging in a northeastern hardwood forest. *Wilson Bulletin* 100(2):236-246.

Swallow, S. K., and C. M. Marin. 1988. Long run price inflexibility and efficiency loss for municipal water supply. *Journal of Environmental Economics and Management* 15(2):233-247.

Swallow, S. K., P. J. Parks and D. N. Wear. 1990. Policy relevant nonconvexities in the production of multiple forest benefits. *Journal of Environmental Economics and Management* 19(3):281-296. (RI AES Contribution no. 2492.)

Swallow, S. K. 1990. Depletion of the environmental basis for renewable resources: The economics of interdependent renewable and nonrenewable resources. *Journal of Environmental Economics and Management* 19(3):264-280. (RI AES contribution no. 2475.)

Swallow, S. K., J. J. Opaluch, and T. Weaver. 1992. Siting noxious facilities: An approach that integrates technical, economic, and political considerations. *Land Economics* 68(3):283-301. (RI AES Contribution no. 2668.)

Opaluch, J. J., S. K. Swallow, T. Weaver, C. W. Wessells, and D. Wichelns. 1993. Evaluating impacts from noxious facilities: Including public preferences in current siting mechanisms. *Journal of Environmental Economics and Management* 24(1):41-59. (RI AES Contribution no. 2638.)

Wichelns, D., J. J. Opaluch, S. K. Swallow, T. F. Weaver, and C. W. Wessells. 1993. A landfill site evaluation model that includes public preferences regarding natural resources and nearby communities. *Waste Management & Research* 11:185-201.

Swallow, S. K., and D. N. Wear. 1993. Spatial interactions in multiple-use forestry and substitution and wealth effects for the single stand. *Journal of Environmental Economics and Management* 25(2):103-120. (RI AES Contribution no. 2713.)

Swallow, S. K., T. Weaver, J. J. Opaluch, and T. S. Michelman. 1994. Heterogeneous preferences and aggregation for environmental policy assessment: A landfill siting case. *American Journal of Agricultural Economics* 76(3):431-443. (RI AES Contribution no. 2795.)

Swallow, S. K. 1994. Intra-season harvest regulation for fish and wildlife recreation: An application to fishery policy. *American Journal of Agricultural Economics* 76(4):924-935. (RI AES Contribution no. 2718.)

Swallow, S. K. 1994. Renewable and nonrenewable resource theory applied to coastal agriculture, forest, wetland, and fishery linkages. *Marine Resource Economics* 9(4):291-310. (RI AES Contribution no. 3024).

Swallow, S.K. 1994. Value elicitation in laboratory markets: Discussion and applicability to contingent valuation. *American Journal of Agricultural Economics* 76(5):1096-1100. (Invited discussion for 1994 Annual Meetings of American Agricultural Economics Association, San Diego, CA, August 10.) (RI AES Contribution no. 3025).

Johnston, R. J., T. F. Weaver, L. A. Smith, and S. K. Swallow. 1995. Contingent valuation focus groups: Insights from ethnographic interview techniques. *Agricultural and Resource Economics Review* 24(1):56-69. (RI AES Contribution no. 3093).

Swallow, S. K. 1996. Resource Capital Theory and Ecosystem Economics: Developing Nonrenewable Habitats with Heterogeneous Quality. *Southern Economic Journal* 63(1):106-123. (RI AES Contribution no. 3173)

Swallow, S.K. 1996. Economic Issues in Ecosystem Management: An Introduction and Overview. *Agricultural and Resource Economics Review* 25(2):83-100. (RI AES Contribution no. 3399) (Invited paper presented to the 1996 Annual Meeting of the Northeastern Agricultural and Resource Economics Association.)

Swallow, S.K., P. Talukdar, and D.N. Wear. 1997. Spatial and Temporal Specialization in Forest Ecosystem Management under Sole Ownership. *American Journal of Agricultural Economics* 79(2):311-326. (RI AES Contribution no. 3351)

Spencer, M.A., S.K. Swallow, and C.J. Miller. 1998. Valuing Water Quality Monitoring: A Contingent Valuation Experiment Involving Hypothetical and Real Payments. *Agricultural and Resource Economics Review* 26(1):28-42. (RI AES Contribution no. 3567)

J. Kline and S.K. Swallow. 1998. The Demand for Local Access to Coastal Recreation in Southern New England. *Coastal Management* 26(3):177-190. (RI AES Contribution no. 3590)

Johnston, R.J., and S.K. Swallow. 1999. Asymmetries in Ordered Strength of Preference Models: Implications of Focus Shift for Discrete Choice Preference Estimation. *Land*

Economics 75(May):295-310. (RI AES Contribution no. 3608)

R.J. Johnston, Stephen K. Swallow, and Thomas F. Weaver. 1999. Estimating Willingness to Pay and Resource Trade-offs with Different Payment Mechanisms: An Evaluation of a Funding Guarantee for Watershed Management. *Journal of Environmental Economics and Management* 38(July):97-120. (RI AES Contribution no. 3688)

Swallow, S.K., and R.A. Sedjo. 2000. Eco-Labeling Consequences in General Equilibrium: A Graphical Assessment. *Land Economics* 76(February):28-36. (RI AES Contribution no. 3732)

Swallow, S.K., J.J. Opaluch, and T.F. Weaver. 2001. Ordered-Response Model for Ordinarily Dichotomous, Discrete Choice Data. *Journal of Environmental Economics and Management* 41(January):70-93. (RI AES Contribution no. 3574)

Sedjo, R.A., and S.K. Swallow. 2002. Voluntary Eco-Labeling and the Price Premium. *Land Economics* 78(2):272-284. (RI AES Contribution no. 3885)

Johnston, R.J., D.M. Bauer, S.K. Swallow. 2002. Spatial Factors and Stated Preference Values for Public Goods: Considerations for Rural Land Use. *Land Economics* 78(4):481-500.

R.J. Johnston, S.K. Swallow, C.W. Allen, and L.A. Smith. 2002. Designing Multidimensional Environmental Programs: Assessing Tradeoffs and Substitution in Watershed Management Plans. *Water Resources Research* 38(7): IV1-13.

Johnston, R.J., S.K. Swallow, D.M. Bauer, C.M. Anderson. 2003. Preferences for Residential Development Attributes and Support for the Policy Process: Implications for Management and Conservation of Rural Landscapes. *Agricultural and Resource Economics Review* 32(1): 65-82.

Johnston, Robert J., Stephen K. Swallow, Timothy J. Tyrrell, and Dana Marie Bauer. 2003. "Rural Amenity Values and Length of Residency," *American Journal of Agricultural Economics* 85(4):1000-1015.

Bauer, Dana Marie, Nicole E. Cyr, Stephen K. Swallow. 2004. Public Preferences for Compensatory Mitigation of Salt Marsh Losses: A Contingent Choice of Alternatives in Rhode Island. *Conservation Biology* 18(2):401-411.

Swallow, Stephen K., and Marisa Mazzotta. 2004. Assessing Public Priorities for Experiment Station Research: Contingent Value and Public Preferences for AES Research in Rhode Island. *American Journal of Agricultural Economics* 86(4):975-989.

Jiang, Yong, Stephen K. Swallow, and Michael P. McGonagle. 2005. Context-Sensitive Benefit Transfer Using Stated Choice Models: Specification and Convergent Validity for Policy. *Environmental and Resource Economics*: (August) 477-499.

- McGonagle, M.P. and S.K. Swallow. 2005. Open Space and Public Access: A Contingent Choice Application to Coastal Preservation. *Land Economics* 81(4):477-495.
- Swallow, S.K., and M.P. McGonagle. 2006. Public Funding of Environmental Amenities: Contingent Choices using New Taxes or Existing Revenues for Coastal Land Conservation. *Land Economics* 82(1):56-67.
- Jiang, Yong, Stephen K. Swallow, and Peter W.C. Paton. 2007. Designing a Spatial-explicit Nature Reserve Network Based on Ecological Functions: An Integer Programming Approach Biological Conservation. *Biological Conservation* 140:236-249. (AES Contr. No. 5127)
- Swallow, Stephen K., Elizabeth C. Smith, Emi Uchida, and Christopher M. Anderson. 2008. Ecosystem Services beyond Valuation, Regulation, and Philanthropy: Integrating Consumer Values into the Economy. *Choices* 23(2):47-52. (AES Contr. No. 5142) <http://www.choicesmagazine.org/magazine/article.php?article=21>
- Das, Chhandita, Christopher Anderson and Stephen Swallow. 2009. Direct Estimation of Distributions of Willingness to Pay for Heterogeneous Populations. *Southern Economic Journal* 75(3):593-610. (RI AES Contr. No. 5145)
- Spencer, M.A., S.K.Swallow, J.F. Shogren, and J.A. List. 2009. Rebate Rules in Threshold Public Good Provision. *Journal of Public Economics* 93(5-6):798-806. (AES Contr. No. 5153)
- Bauer, D.M., P.W.C. Paton, S.K. Swallow. 2009. "Are Wetland Regulations Cost-Effective for Species Protection? A Case Study of Amphibian Metapopulations." *Ecological Applications* 20(3):798-815.
- Bauer, D.M., S.K. Swallow, and P.W.C. Paton. 2010. Cost-Effective Conservation of Wetland Species in Exurban Communities: A Spatial Analysis. *Resource and Energy Economics* 32(2):180-202.
- John B. Braden, Daniel G. Brown, Jeff Dozier, Patricia Gober, Sara M. Hughes, David R. Maidment, Sandra L. Schneider, P. Wesley Schultz, James S. Shortle, Stephen K. Swallow, and Carol M. Werner. 2009. "Social science in a water observing system." *Water Resources Research* 45, W11301, doi:10.1029/2009WR008216

REFEREED IN PROGRESS (selected)

- Bauer, D.M., S.K. Swallow, R.J. Johnston. 2005. Assessing Rural Residents' Willingness to Exchange Town Amenities and Development Services. In revision for second review, *Agricultural and Resource Economics Review*.

- Whinstanley Newell, L., and S.K. Swallow. 2005. Are Stated Preferences Invariant to the Prospect of Real Money Choice? In revision for second review, *American Journal of Agricultural Economics*.
- Whinstanley Newell, L., and S.K. Swallow. 2002. Developing a Stated Preference Survey Involving Real Money Choice. Working Paper, Department of Environmental and Natural Resource Economics, University of Rhode Island (manuscript in progress).
- Jiang, Yong, and S.K. Swallow. 2009. "Residential Development, Habitat, and 'Takings:' an Impact Fee Framework Coupled with Market-Based Land Conservation Programs to Seek a Balance in Regulating Private Land of Public Ecosystem Value." Unpublished manuscript.
- Jiang, Yong, and S.K. Swallow. 2009. "Providing an Ecologically Sound Community Landscape at the Urban-Rural Fringe." Working paper.
- Bauer, Dana Marie, and S.K. Swallow. 2010. "Cost-Effective Land Development in Exurban Communities with a Spatially-Realistic Ecosystem Constraint." In revision for second review by *Ecological Economics*.
- Haskell, J., Emi Uchida, Hiro Uchida, Stephen Swallow. 2011. Willingness-to-Pay for Ecosystem Services: Do Payment Elicitation Mechanisms Matter? In revision for review by *Environmental and Resource Economics*.
- Newell, L.W., and S.K. Swallow. 2012. Valuing Forested Wetlands and Spatial Attributes within a Landscape Context: Choice Experiments with Real Environmental Goods and Actual Payment. In revision for review by *Ecological Economics*.
- Jiang, Yong, and S.K. Swallow. 2011. Application of Impact Fees Coupled with Conservation Payments in Public Provision of Environmental Goods at the Urban-Rural Fringe: A Conceptual Model with and Empirical Application.
- Kafle, Achyut, S.K. Swallow, E.C. Smith. 2012. Effects of Public Funding on Local Tradeoffs and Willingness to Pay (WTP) in a Choice Experiment: Blackstone River Watershed Management. In revise and resubmit, *Environmental and Resource Economics*.

BOOK REVIEWS

- Swallow, S.K. 1997. "Biodiversity Loss: Economic and Ecological Issues Edited by Charles Perrings, Karl-Göran Mäler, Carl Folke, C.S. Holling, and Bengt-Owe Jansson, Cambridge: Cambridge University Press, 1995, Pp. ix, 332. *Southern Economic Journal*, July.

PAPERS PRESENTED

Swallow, S. K. and R. J. Gutiérrez. 1982. Snag and forest characteristics of roosting and nesting sites preferred by cavity-nesting birds: a multivariate approach. Presented to 1982 annual meeting of the Northeast Section of the Wildlife Society, Cherry Hill, NJ.

Swallow, S. K. 1989. Renewable and exhaustible resource theory applied to North Carolina shrimp and coastal development. Paper presented to 1989 Annual Meeting of American Agricultural Economics Association, Baton Rouge, LA, July 28-Aug. 2; Dept. Resource Economics, Univ. Rhode Island, Staff Paper no. 89-02 (RI AES Contribution no. 2523).

Ganapathy, U. and S. K. Swallow. 1990. Trade-offs between renewable and nonrenewable resources: Oil development and caribou in the Arctic National Wildlife Refuge. Presented to 1990 Annual Meeting of the American Agricultural Economics Association, Vancouver, B.C., Canada, Aug. 4-8; Dept. Resource Economics, Univ. Rhode Island, Staff Paper no. 90-07 (RI AES Contribution no. 2637).

Swallow, S. K. 1990. Intra-season regulation and economic efficiency in recreational fisheries: An application to Pacific salmon. Presented to 1990 Annual Meeting of the American Agricultural Economics Association, Vancouver, B.C., Canada, Aug. 4-8; Dept. Resource Economics, The Univ. Rhode Island, Staff Paper no. 90-06 (RI AES Contribution no. 2584).

Swallow, S. K., D. Wichelns, J. J. Opaluch, and T. Weaver. 1990. A new approach to siting noxious facilities within old political-regulatory paradigms: Some insights from a New England landfill siting process. Presented to 1990 Annual Meeting of the Northeastern Agricultural and Resource Economics Association, June 18-20, Truro, Nova Scotia, Canada. Dept. Resource Economics, Univ. Rhode Island, Staff Paper no. 90-08 (RI AES Contribution no. 2652).

Swallow, S. K., T. Weaver, J. J. Opaluch, D. Wichelns. 1991. Contingent surveys for policy evaluation and differential impacts on socioeconomic groups: A landfill siting case. Presented to 1991 Annual Meeting of the Northeastern Agricultural and Resource Economics Association, June 17-19, Durham, NH (RI AES Contribution no. 2660).

Opaluch, J. J., S. K. Swallow, T. Weaver, C. W. Wessells, D. Wichelns. 1991. Evaluating impacts from noxious facilities: Including public preferences in current siting mechanisms. Presented to 1991 Annual Meeting of European Association of Environmental and Resource Economics, Stockholm, Sweden, June 10-14 (presented by J. J. Opaluch).

Opaluch, J. J., S. K. Swallow, T. Weaver, C. W. Wessells, D. Wichelns. 1991. A contingent survey for landfill siting. Presented to 1991 Annual Meeting of the American Agricultural Economics Association, Manhattan, Kansas, August 4-7 (presented by J. J. Opaluch).

Swallow, S. K. 1992. "Some Economic Perspectives on Biological Diversity: Solid Points that Miss the Point." Panel discussion on "Biodiversity Research: Is there a Role for New York State?," The New York Natural History Conference II, April 29-May 1, Albany. New York State Museum Circular 54.

Swallow, S. K. and D. N. Wear. 1992. Spatial interactions between forest stands managed for multiple uses: A simple extension of the Hartman model. Presented to 1992 Annual Meeting of the American Agricultural Economics Association, Baltimore, MD, August 9-12 (RI AES Contribution no. 2755).

Opaluch, J. J., S. K. Swallow, T. Weaver, C. W. Wessells, D. Wichelns. 1993. Landfill site evaluation based on public preferences concerning impacts on natural and social resources in Rhode Island. Invited presentation in "Economics of Solid Waste Management in the 90s: Proceedings of a Regional Workshop" (April 18, 1991, Lexington, KY), R. C. Ready, A. Pagoulators, and W. M. Park, eds., Southern Regional Information Exchange Group-10 and Southern Rural Development Center and Farm Foundation, Mississippi State, MS (SRIEG-10 no. 30), pp. 53-77 (Presented by S. K. Swallow) (RI AES Contribution no. 2672).

Johnston, R. J., T. F. Weaver, L. A. Smith, and S. K. Swallow. 1993. Using Ethnographic Methodology in Focus Groups to Improve Contingent Valuation: An Introduction to Theory and Application. Presented to Annual Meeting of the Northeastern Agricultural and Resource Economics Association, Mystic, CT, June 19-21 (RI AES Contribution no. 2926).

Talukdar, P., S. K. Swallow, and D. N. Wear. 1993. Interdependent Forest Stands with Locationally Unique Inputs to Ecosystem Outputs: A Two Stand Forest under One Management. Presented to the 1993 Annual Meeting of the Northeastern Agricultural and Resource Economics Association, Mystic, CT, June 19-21 (RI AES Contribution no. 2867).

Swallow, S. K., T. F. Weaver and J. J. Opaluch. 1993. Ordered-Response Model for Ordinarily Dichotomous Referendum, Contingent Valuation Data. Presented to the 1993 Annual Meeting of the American Agricultural Economics Association, Orlando, FL, August 1-4 (RI AES Contribution no. 2847).

Swallow, S.K., T. F. Weaver, L. A. Smith, and R. J. Johnston. 1994. Economic Tradeoffs: An Example from Watershed Management. Presented to Society of Soil Scientists of Southern New England Conference on Riparian Buffer Zones, Sturbridge, MA, November 21-22.

- Swallow, S.K., T.F. Weaver, L.A. Smith, and R.J. Johnston. 1995. Designing Environmental Programs: Policy Relevant Payment Vehicles, In-kind Tradeoffs, Substitute Values, and Watershed Management Planning. Presented to the 1995 Annual Meeting of the American Association of Agricultural Economists and Summer Meeting of the Association of Environmental and Resource Economists, August 6-9, Indianapolis, IN. (RI AES Contribution no. 3198)
- Opaluch, J.J. and S.K. Swallow. 1996. Methods for Interpreting Strength of Preference indicators. Presented to INFORMS Annual Meeting, for National Science Foundation and U.S. Environmental Protection Agency (May).
- Sedjo, R. A., S.K. Swallow, and A. Goetzl. 1997. Forest Products Trade and Certification: An Economic Assessment. Presented to Workshop on "Forest Certification and Sustainability Indicators: Economic Perspectives," The Lodge at Kananaskis, Kananaskis Village, Alberta, Canada, February 20-22. Voluntary paper prepared for the World Forestry Congress, Antalya Turkey 13-22 October, 1997. (drafted October 17, 1996.)
- Swallow, S.K. and R. A. Sedjo. 1997. Some Simple Analytics of Eco-Labeling of Wood Products: Are the Market and Ecosystem Implications Clear? Presented to the Annual Meetings of the Northeastern Agricultural and Resource Economics Association, Sturbridge, MA, June 22-24.
- Swallow, S.K., M.A. Spencer, C.J. Miller, P. Paton, R. Deegen, J. Shogren. 1998. Stated Preference Valuation Using Real Money for Real Forested Wetlands. In *Proceedings: 1998 Decision-Making and Valuation for Environmental Policy Workshop, 2-3 April, 1998, Washington, D.C.* Sponsored by NSF/EPA Partnership for Environmental Research.
- Sedjo, Roger A. and S.K. Swallow. 1998. Some Analytics and Implications of Eco-Labeling. Presented to the First World Congress of Environmental and Resource Economists, June 25-27, Venice, Italy.
- Swallow, S.K. 1998. The Value of Open Space Preservation, or the Economic Loss from Open Space Development, in Richmond, Rhode Island. Presented to *The Seventh International Symposium on Society and Resource Management*, May 27-31, Columbia, MO.
- Swallow, S.K. and M. McGonagle. 1998. Preferences and Willingness to Pay of Barbados' Residents for Alternative Sewage System Designs to Protect Water Quality on Barbados' West Coast. Presented to *The Seventh International Symposium on Society and Resource Management*, May 27-31, Columbia, MO.
- Swallow, S.K. 1998. Public Preferences for Open Space Preservation. Presented to Rhode Island's Critical Lands Workshop, Sponsored by URI Cooperative Extension, July 17, URI Alton Jones Conference Center, West Greenwich, Rhode Island.

- Poirier, N. and S. Swallow. 1998. Contingent Valuation of Salt Marsh Mitigation. Presented to the Annual Meeting of The Wildlife Society, Buffalo, NY, September.
- Swallow, S.K. 1998. Methods and Applications for Ecosystem Valuation: A Collage. Presented to NSF/EPA Workshop in "Valuing and Managing Ecosystem Resources: Economic Research Supported by NSF/EPA," October 29, Washington, D.C.
- Swallow, S.K. 1999. Economic Value of Habitat Conservation through Open Space Preservation in Richmond, Rhode Island. Abstract in Proceedings: Challenges & Opportunities Facing Rhode Island's Biodiversity: The Science Behind the Issues. Fifth Annual conference of the Rhode Island Natural History Survey, Community College of Rhode Island, Lincoln, RI, March 12.
- Barbier, E.B., and S.K. Swallow. 1999. Valuation of Coastal and Marine Systems. Background paper for the planning workshop on fisheries, organized by the Woods Hole Oceanographic Institute and the Beijer International Institute of Ecological Economics, 21-23 June, Woods Hole, Massachusetts.
- Swallow, S.K. 1999. Critical Land Conservation with Development: Using Contingent Choice to Establish Impact Fees for Open Space. Presented to the Annual Meeting of the Northeast Agricultural and Resource Economics Association, Morgantown, West Virginia, June 27-29. Abstract in *Agricultural and Resource Economics Review* 28(2):235, October 1999.
- Swallow, S.K. and M.J. Mazzotta. 1999. Toward Assessing the Non-Market Benefits of Experiment Station Research: A Case Study of Public Preferences for AES Research in Rhode Island. For presentation to the 1999 Annual Meeting of the American Agricultural Economics Association, Nashville, Tennessee, August 8-11. Abstract in *American Journal of Agricultural Economics* 81(5):1283, December 1999.
- Swallow, S.K. and M.J. Mazzotta. 1999. Contingent Valuation of College Programs: An Application to URI's College of the Environment and Life Sciences. Presented to USDA, Economic Research Service workshop, "Enhancing the USDA-1890 Partnership: Building an Analytic Framework for Assessing Outcomes and Benefits," September, 1-2, Washington, D.C.
- Swallow, S.K. and M.J. Mazzotta. 1999. Does the Rhode Island Public Value the Rhode Island Agricultural Experiment Station Research Program?" Seminar presented to URI Department of Environmental and Natural Resource Economics and College of the Environment and Life Sciences, Ballentine Hall, October 15.
- Johnston, R.J., D.M. Bauer, and S.K. Swallow. 2000. The Influence of Spatial Land Use Patterns on Rural Amenity Values and Willingness to Pay for Growth Management: Evidence from a Contingent Choice Survey." Presented to the Annual Meeting of the American Agricultural Economics Association, Tampa, FL, July 30-August 2.

- Swallow, S.K., M.A. Spencer, and L. Whinstanley. 2000. Progress Toward Comparing Stated Preference and Real Money Contingent Values. Discussion paper prepared for the U.S. EPA Workshop on *Stated Preference: What do we know? Where do we go?*, Washington, D.C., October 12-13, 24pp. (draft 10 October 2000).
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- Swallow, S.K. 2001. "Views on 'Investing in Rhode Island's Future' through RI Agricultural Experiment Station and Cooperative Extension" and "On the Public's/Resident's Valuation of the Rhode Island Agricultural Experiment Station Research Efforts." Testimony the Rhode Island State Legislature, House Finance Committee (April 25) and Senate Finance Committee (April 26).
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- Johnston, R.J., D.M. Bauer, and S.K. Swallow. 2001. Spatial Features and Stated Preference Values for Land Use Attributes: Implications for Policy and Survey Design, Invited seminar at the University of Guelph, Ontario, Canada.
- Whinstanley Newell, L., and S.K. Swallow. 2002. "Are Stated Preferences Invariant to the Prospect of Real-Money Choice?" Presented to the 2002 Annual Meeting of the Northeastern Agricultural and Resource Economics Association, June 11-12, Harrisburg/Camp Hill, PA.
- Swallow, S.K., and M.P. McGonagle. 2002. "Public Funding of Environmental Amenities: New Taxes or Existing Revenues for Coastal Land Conservation." Presented to the 2002 Annual Meeting of the Northeastern Agricultural and Resource Economics Association, June 11-12, Harrisburg/Camp Hill, PA.
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- Swallow, S.K., L. Philo. 2002. “Considerations in Funding Land Conservation and Establishing Environmental Impact Fees for Conservation with Development.” Presented to U.S. Environmental Protection Agency, Office of Research and Development, Environmental Research Seminar, November 14, Boston, MA.
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- Yong Jiang, Michael McGonagle, and Stephen Swallow. 2004. An Empirical Assessment of Convergent Validity of Benefit Transfer in Contingent Choice: Introductory Application with New Criteria. Paper presented to the Annual Meeting of the American Agricultural Economics Association, August 1-4, Denver, Colorado.
- Bauer, Dana Marie, Yong Jiang, Stephen K. Swallow, Peter Paton, Dennis Skidds. 2004. Applying Economic and Ecological Principles to Identify Conservation Reserves for Vernal Pools with Residential Development. Presented to the U.S.EPA Workshop on Valuation of Ecological Benefits, October 26-27, Washington, D.C.

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Anderson, C.M., E. Uchida, S.K. Swallow. A Field Experiment Comparing Mechanisms for the Provision of Nesting Bird Habitat on Active Farm Hayfields.

Institute of Social and Economic Research, University of Alaska-Anchorage, November 16, 2007.

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Swallow, S.K., 2009. Habitat Markets Presentation. (Market Approaches for Ecosystem Services: Example of Grassland Nesting Birds on Hayfields.) In *Environmental Markets: New Approaches for Natural Resource Management*, Webinar presented by C-FARE (Council on Food, Agricultural and Resource Economics) for USDA/NRCS, March 23. ftp://ftp-fc.sc.egov.usda.gov/Economics/EnvMarkets/Full_Agenda_Webinar_Feb_23_09.pdf (pages 11 and 12) and ftp://ftp-fc.sc.egov.usda.gov/Economics/EnvMarkets/Swallow-_NRCS_Webinar_Feb_23_2009-animated2.pdf

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Zhi Li, Stephen Swallow and Christopher Anderson. Uniform Price Auction Mechanisms for the Provision of Public Goods. Presentation to the North American Annual Meeting of the Economic Science Association, November 13, 2009, Tucson, AZ.

- Stephen Swallow, Christopher Anderson and Kristen Dame. Developing Ecosystem Services Businesses as New Revenues for Farms in Communities Facing Exurban Development. USDA/AFRI Project Directors' Meeting, October 19, 2009, Washington, DC.
- Anderson, C., S. Swallow and E. Uchida. A Field Experiment Comparing Mechanisms for the Provision of Nesting Bird Habitat on Active Farm Hayfields. Public Economics: Theoretical and Experimental Approaches. Lyon, France, June 23, 2009.
- E. Uchida, S. Swallow and C. Anderson. Establishing a Market for Ecosystem Services from Agricultural Land: Stated Preferences Over Elicitation Mechanisms. Annual Meeting of the American Agricultural Economics Association, Portland, OR, July 28-30, 2007.
- Anderson, C., S. Swallow and E. Uchida. A Field Experiment Comparing Mechanisms for the Provision of Nesting Bird Habitat on Active Farm Hayfields. Southern Economic Association Annual Meeting, New Orleans, LA, November 19, 2007.
- Anderson, C., S. Swallow and E. Uchida. A Field Experiment Comparing Mechanisms for the Provision of Nesting Bird Habitat on Active Farm Hayfields. Special session on ecosystem services at Soil and Water Conservation Society/Society for Rangelands Management Joint Meeting. Lexington, KY, January 15, 2008.
- Anderson, C., S. Swallow and E. Uchida. A Field Experiment Comparing Mechanisms for the Provision of Nesting Bird Habitat on Active Farm Hayfields. Economic Science Association North American Annual Meeting. Pasadena, CA, June 28, 2008.
- Zhi Li, Stephen Swallow, and Chris Anderson. 2010. Comparison of Three Rebate Rules for Provision of Public Goods with Provision Point: Experiments Motivated by Ecosystem Service Markets. Presented to Northeastern Agricultural and Resource Economics Association Meetings, Atlantic City, New Jersey, June 13-15. (Abstract expected in Agricultural and Resource Economics Review, October, 2010)
- Zhi Li, Stephen Swallow, and Chris Anderson. 2010. Comparison of Three Rebate Rules for Provision of Public Goods with Provision Point: Experiments Motivated by Ecosystem Service Markets. Presented to Fourth World Congress of Environmental and Resource Economists, Montreal, Canada, June 28 to July 2, 2010. (paper link: <http://www.webmeets.com/WCERE/2010/Prog/>, Session: Environmental Valuation: Methodology III, Wednesday 30 June 2010, 2:00:00 PM - 3:45:00 PM)
- Zhi Li, Stephen Swallow, and Chris Anderson. (2010), Uniform Price Auction Mechanisms for the Provision of Public Goods. Seminar presented to Department of Environmental and Natural Resource Economics, University of Rhode Island, Kingston, Rhode Island, October 8.
- Bullock, Elizabeth, Stephen Swallow, Christopher Anderson. 2009. "Production of a brochure to garner farmer participation in the Bobolink Project". Poster presented to the URI Coastal Fellows Program.

- Greenfield, Josh, Stephen Swallow, Christopher Anderson. 2009. "Marketing ecosystem services using the bobolink as an example." Poster presented to the URI Coastal Fellows Program, December.
- Gaudio, Rachel, Stephen Swallow, Christopher Anderson. 2009. "A survey of customer attitudes at Rhode Island farmers markets and their effect on marketing ecosystem services." Poster presented to the URI Coastal Fellows Program, December.
- Smith, Elizabeth C., and Swallow, Stephen K. 2010. Selling Ecosystem Services as Public Goods to Consumer-Beneficiaries: An Auction Experiment on Restoration of Sea Grass and Bird Habitat in Virginia Coastal Reserve. Presented to the 65th Soil and Water Conservation Society International Annual Conference (Ecosystem Services: Applications for Conservation Science, Policy, and Practice), July 17-20, St. Louis, MO.
- Smith, Elizabeth C. and Stephen Swallow. 2010. Generating Revenues from WTP for Ecosystem Restoration: An Auction Experiment on Public Goods. Presented to the Annual Meeting of the Agricultural and Applied Economics Association, July 25-27, Denver, CO
- Swallow, Stephen. 2010. Public value and consumer markets for ecosystem services. Presented to Workshop on Scale, location, and spatial interactions in the economic analysis of multi-functional natural resources: Lessons for forestry. Laboratoire d'Economie Forestière, 16-17 September, Nancy, France.
- Swallow, Stephen. K. 2010. Experimental markets for connecting ecosystem services to consumers' values and decision support. Presented to ACES: A Community on Ecosystem Services, December 6-9, 2010, Gila River Indian Community, Arizona.
- Swallow, S.K. 2011. Integrating Social Sciences with Long-Term Ecological Research: Perspectives in Economics from VCR and LTER Decadal Plan. Invited presentation to the All Scientists Meeting, Luquillo Long Term Ecological Research Site, Puerto Rico, January 4-5.
- Bauer, D.M., P.W.C. Paton, and S.K. Swallow. 2011. Are wetland buffers cost-effective for species protection? Invited presentation at the Wetland Buffers Symposium: Theory, Science, Policy and Implementation. Baraboo, WI, February 16-17.
- Swallow, S.K., with C.M. Anderson, E. Uchida, and E.C. Smith. 2011. Experimental Markets for Ecosystem Services: Can Society Incorporate Public Goods into the Business Economy? Presented to the 5th Connecticut Conference Natural Resources, March 7, University of Connecticut, Storrs, CT.
- Swallow, Stephen. 2011 "Experimental Economics and an Experimental Market or Auction for Funding Public goods: Applications to Ecosystem Services and Restoration." Presented to Environmental Seminar Series 2011, Pennsylvania State University, State College, PA, April 13.

Smith, Elizabeth C., and Stephen K. Swallow. 2011. A Comparison of field and Lab Experiments in a Lindahl-Inspired Auction for Public Goods: Application to Ecosystem Restoration. Presented to Association of Environmental and Resource Economists' Summer Conference, Seattle Renaissance Hotel, June 8-10.

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NON REFEREED ARTICLES

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Swallow, S. K., P. J. Parks and D. N. Wear. 1990. Policy relevant nonconvexities in multiple-use forestry. Dept. Resource Economics, Univ. Rhode Island, Staff Paper no. 89-07 (RI AES Contribution no. 2526). (Also: Southeastern Center for Forest Economics Research, Research Triangle Park, NC. SCFER Working Paper no. 62, 31p.).

Provencher, B. and S. K. Swallow. 1993. Taking stock of the timber harvest decision of private forest owners: Some new considerations. Dept. Agricultural Economics, Univ. Wisconsin-Madison, Staff Paper Series no. 344.

Swallow, S. K. 1999. Watersheds: Aesthetic Values are Economic Values. *Maritimes* vol. 41, no. 3, Fall, pp. 8-9.

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Swallow, S. K. 1982. Valuation of an appreciative wildlife program: Missouri's Eagle Days. Report to Missouri Dept. of Conservation, 30pp.

Swallow, S. K. 1987. Objective allocation of interdependent renewable and exhaustible resources: the case of estuarine and coastal development. Final report to National Oceanic and Atmospheric Administration, contract NA86AA-D-CZ015, 74pp.

Wessells, C. W., J. J. Opaluch, S. K. Swallow, T. F. Weaver, and D. Wichelns. 1990. A Landfill Site Evaluation Model that Addresses Public Preferences Regarding Impacts on Natural Resources and Local Communities, a final report to the Rhode Island Solid Waste Management Corporation. Dept. Resource Economics, Univ. Rhode Island.

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Swallow, S.K., John Gates, Steven F. Edwards, and Kevin Blake. 1994. Preferences of Non-Commercial Fishermen for Harvest Regulations for Bluefin Tuna: Progress Report to National Marine Fisheries Service for December 1994. Submitted to NOAA/NMFS for URI/NOAA Cooperative Marine Education and Research Program project number 94-09.

Smith, Lynn A., Stephen K. Swallow, Thomas F. Weaver, and Robert J. Johnston. 1995. Using Public Preferences to Identify Options for Watershed Management: Economic Assessment using a Contingent Choice Survey. Submitted to U.S. Geological Survey for U.S.G.S. award number 14-08-0001-G2088, 70pp. + 11 Appendices.

Swallow, S.K. 1995. An Assessment of the Potential Recreation Value of Sand Nourishment to Create a 3000 to 6000 Foot, Recreational Beach along Plymouth Long Beach, Plymouth, Massachusetts. Swallow Environmental Economics, Wyoming, RI, November 1.

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Swallow, S.K. and Michael McGonagle. 1996. Residents' Preferences for Design of Barbados' West Coast Sewerage Project. Submitted to Stanley International Group Inc., St. James, Barbados, W.I. and Edmonton, Alberta, Canada by Swallow Environmental Economics, Wyoming, RI. November 9. 45pp. + 3 App.

Alexander, Martin E., Nathan C. Benson, Timothy J. Brown, Norman L. Christensen, Jr., Hanna J. Cortner, Philip N. Omi, R. Gordon Schmidt, Ayn Shilisky, Stephen K. Swallow. 2007. U.S. Forest Service R&D Wildland Fire External Peer Review, June 18-21. Report to the Chief, U.S. Forest Service, 22pp.

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Swallow, S.K. 1992. "Some unofficial comments from an Associate Editor of the Wildlife Society Bulletin." Human Dimensions in Wildlife Newsletter 11(4):3-4.

- Swallow, S.K. 1994. "Observations from Northwestern Russia: Opportunities in Natural Resource Management, Nonmarket Valuation, and Environmental Economics. AERE Newsletter 14(1, May):18-22.
- Swallow, S.K. 1998. "URI Research Project Seeks to Set Public Value of Forest Stewardship." *The Forest Conservationist* 8(1, Winter):4. (Published by Rhode Island Forest conservator's Organization, Inc.)
- Swallow, S.K. 2001. "2002 NAREA Annual Meetings." *Northeastern Agricultural and Resource Economics Association Newsletter*, Fall 2001, page 2-3.
- Swallow, S.K. 2002. "2002 NAREA Annual Meetings." *Northeastern Agricultural and Resource Economics Association Newsletter*, Spring 2002, page 2.

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- Swallow, S. K. and R. J. Gutiérrez. 1982. Snag and forest characteristics of roosting and nesting sites preferred by cavity-nesting birds: a multivariate approach. Transactions of the Northeast Section of The Wildlife Society 39:94.
- Swallow, S. K. 1989. Renewable and exhaustible resource theory applied to North Carolina shrimp and coastal development. American Journal of Agricultural Economics 71(5):1339 (RI AES Contribution no. 2523).
- Ganapathy, U. and S. K. Swallow. 1990. Trade-offs between renewable and nonrenewable resources: Oil development and caribou in the Arctic National Wildlife Refuge. American Journal of Agricultural Economics 72(5):1360 (RI AES Contribution no. 2637).
- Swallow, S. K. 1990. Intra-season regulation and economic efficiency in recreational fisheries: An application to Pacific salmon. American Journal of Agricultural Economics 72(5):1360 (RI AES Contribution no. 2584).
- Swallow, S. K., D. Wichelns, J. J. Opaluch, and T. Weaver. 1990. A new approach to siting noxious facilities within old political-regulatory paradigms: Some insights from a New England landfill siting process. Northeastern Journal of Agricultural and Resource Economics 19(2):147-148 (RI AES Contribution no. 2652).
- Swallow, S. K., T. Weaver, J. J. Opaluch, D. Wichelns. 1991. Contingent surveys for policy evaluation and differential impacts on socioeconomic groups: A landfill siting case. Northeastern Journal of Agricultural and Resource Economics, 20(2):219 (RI AES Contribution no. 2660).
- Swallow, S. K. and D. N. Wear. 1992. Spatial interactions between forest stands managed for multiple uses: A simple extension of the Hartman model. American Journal of Agricultural Economics 74(5):1294 (RI AES Contribution no. 2755).

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Talukdar, P., S. K. Swallow, and D. N. Wear. 1993. Interdependent Forest Stands with Locationally Unique Inputs to Ecosystem Outputs: A Two Stand Forest under One Management. *Agricultural and Resource Economics Review* 22(2):226 (RI AES Contribution no. 2867).

Swallow, S. K., T. F. Weaver and J. J. Opaluch. 1993. Ordered-Response Model for Ordinarily Dichotomous Referendum, Contingent Valuation Data. *American Journal of Agricultural Economics* 75(5):1308 (RI AES Contribution no. 2847).

Swallow, S.K., T. F. Weaver, L. A. Smith, and R. J. Johnson. 1994. Economic Tradeoffs: An Example from Watershed Management. In Peter L.M. Veneman, ed., *Proceedings Riparian Buffer Zones Conference*, Society of Soil Scientists of Southern New England, Sturbridge, MA, November 21-22, pp. 23-25.

Swallow, S.K. and R. A. Sedjo. 1997. Some Simple Analytics of Eco-Labeling of Wood Products: Are the Market and Ecosystem Implications Clear? *Agricultural and Resource Economics Review* 25(2).

Opaluch, J.J. and S.K. Swallow. 1997. Developing Conjoint Stated Preference Methods for Valuation of Environmental Resources within their Ecological Context. *Proceedings: 1997 Workshop on Valuation and Environmental Policy, 7-8 April 1997, Arlington, VA*, sponsored by NSF/EPA Partnership for Environmental Research, National Science Foundation and U.S. Environmental Protection Agency, pp. 17-18.

Swallow, S.K., M.A. Spencer, C.J. Miller, P. Paton, R. Deegen, J. Shogren. 1998. Stated Preference Valuation Using Real Money for Real Forested Wetlands. Pages 13-14 in *Proceedings of the 1998 Decision-Making and Valuation for Environmental Policy Workshop*, April 2-3, Washington, D.C.

Sedjo, Roger A. and S.K. Swallow. 1998. Some Analytics and Implications of Eco-Labeling. Presented to the First World Congress of Environmental and Resource Economists, June 25-27, Venice, Italy. In *World Congress of Environmental and Resource Economists, Book of Abstracts*, p. 422.

Swallow, S.K. 1999. Critical Land Conservation with Development: Using Contingent Choice to Establish Impact Fees for Open Space. Abstract in *Agricultural and Resource Economics Review* 28(2):235, October 1999.

Swallow, S.K. and M.J. Mazzotta. 1999. Toward Assessing the Non-Market Benefits of Experiment Station Research: A Case Study of Public Preferences for AES Research in Rhode Island. Abstract in *American Journal of Agricultural Economics* 81(5):1283, December 1999.

Johnston, R., S. Swallow, C. Allen, and L. Smith. 2001. Designing Multidimensional Environmental Programs: Assessing Tradeoffs and Substitution in Watershed Management Plans. *Agricultural and Resource Economics Review* 30(2):222-23.

Swallow, Stephen K., E. Uchida, and C.M. Anderson. 2008. Creating a private market for ecosystem services: Results from selling hayfield services for grassland birds to ex-urban residents in Jamestown, Rhode Island. *ACES: A Conference on Ecosystem Services, 2008: Using Science for Decision Making in Dynamic Systems, Book of Abstracts*. December 8-11, Naples, Florida, p. 160.

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FUNDED GRANTS AND RESEARCH ACTIVITY

- 1984 Duke University Research Council Grant: Water Supply Capacity Expansion Decisions, \$3,000 (with C. M. Marin).
- 1986 Environmental Conservation Fellowship/Grant, National Wildlife Federation (\$3,000).
- 1986 National Oceanic and Atmospheric Administration Grant: "Economic Analysis of Estuarine Development and Preservation," \$7,200 (plus DU Match \$9,800).
- 1987 Environmental Conservation Fellowship/Grant, National Wildlife Federation (\$7,500).
- 1987 Duke University Research Council Grant: "Economics of the Joint Management of Coastal Zone Development and Commercial Fisheries," \$5,000 (with P. J. Parks).
- 1989 USDA Forest Service, Cooperative Agreement: "Stand Level Specialization in Multi-Stand, Multiple-Use Forests," \$9,500 (plus URI Match \$3,870).
- 1989-90 Rhode Island Sea Grant College Program Grant: "Recreational Fish Harvests: The Link Between Economic Benefits, Efficient Resource Allocation, and Policy Options," \$63,500 (plus URI match \$64,452) (with J. M. Gates).
- 1989-92 Rhode Island Agricultural Experiment Station: "Allocation of Recreational Fish Harvests within the Season: A Case Study of a Natural Resource Use Conflict."

- 1989 Rhode Island Solid Waste Management Corporation Grant: "Evaluation of Economic and Social Impacts Associated with the Siting of a Waste Processing or Disposal Facility," \$90,000 (Co-P.I. with D. Wichelns, J. Opaluch, T. Weaver).
- 1991-94 U.S. Geological Survey Grant: "Identifying Options to Address Public Preferences for Watershed Management to Enhance Water Quality," \$136,891 (P.I.; with co-P.I. T. Weaver).
- 1991 URI Council for Research Grant: "Economic Potential of Atlantic Salmon Restoration in New England Using Aquaculture Technology," \$6,490.
- 1992-93 USDA Forest Service, Cooperative Agreement: "Stand-Level Interactions and Production Functions for Multiple Uses on Public or Private Forests," \$20,000.
- 1993-95 Rhode Island Sea Grant College Program Grant: "Public Access and Public Support for Coastal Resource Management: Transferable Assessment of Public Preferences," \$86,146 (P.I. with T. Weaver).
- 1993-94 USDA Forest Service, Cooperative Agreement: "Ecological Heterogeneity, Public and Private Ownership, and the Economics of Forest Ecosystem Management," \$22,932.
- 1993-94 URI Council for Research Grant: "A Feasibility Demonstration of an Economic Approach to Sustainable Ecosystem Management," \$4500.
- 1993-94 National Academy of Sciences, Young Investigator Program Grant on "Ecological Concerns in the Development of the Arctic and Far Northern Regions" (Travel expenses in Russia and North America).
- 1994-96 USDA Cooperative State Research Service National Research Initiative Competitive Grants Program Grant: "Economics of Forest Ecosystem Management when Independent Landowners Manage the Ecosystem," \$60,000 (with D.N. Wear and P. Talukdar).
- 1994-95 NOAA, National Marine Fisheries Service, URI/NOAA Cooperative Marine Education and Research Program, "Preferences and Values of Non-Commercial Fishermen for Harvest Regulations and Size Classes of Bluefin Tuna," \$15,804 (with S. Edwards and J. Gates).
- 1995-1997 National Science Foundation and U.S. Environmental Protection Agency Grant: "Developing Conjoint Stated Preference methods for Valuation of Environmental Resources within their Ecological Context," \$126,000 (with J.J. Opaluch).
- 1996-1998 University of Rhode Island Partnership Grant: "University of Rhode Island Partnership for the Coastal Environment," internal grant for \$350,000 (Steering Committee Member).

- 1996-1997 USDA Cooperative State Research, Education, and Extension Service Higher Education Challenge Grant: “Melding Undergraduate Experiential Learning with Extension,” \$80,000 (investigator; P.I.s: A.J. Gold, M. Rice, R.A. Casagrande).
- 1996-1998 National Science Foundation and U.S. Environmental Protection Agency Grant: “Stated Preference Valuation Using Real Money for Real Forested Wetlands,” \$165,081 (with P. Paton).
- 1996-2001 USDA Cooperative State Research Service National Research Initiative Competitive Grants Program Grant: “Public Values for Rural, Forest Ecosystems: Toward Valid Economic Measures of Amenity Values,” \$245,000 (with P. Paton, P. August, J. Shogren).
- 1998-2001 USDA Cooperative State Research Service, Fund for Rural America Grant: “Decision Information and Support Structures to Sustain Farm, Forest and Open Space in Rural Communities of Southern New England,” \$400,000 (with R.J. Johnston, P. Paton)
- 2001-2002 National Science Foundation and U.S. Environmental Protection Agency Grant: “Designing Incentives that Strengthen Local Capacity for Land Development with Open Space and Healthy Ecosystems: Environmental Impact Fees,” \$103,821.
- 2002-2004 NSF/EPA STAR Grant, “Economics of Conserving Ecosystem Integrity with Residential Development around Vernal Pools,” \$200,000 (with P. Paton)
- 2002-2004 USDA/CSREES/National Research Initiative Competitive Grants Program, “Ecosystem-Economics of Rural Landscapes and Land Use Change,” \$160,000 (with P. Paton)
- 2003-2005 USDA/CSREES/National Research Initiative Competitive Grants Program, “Do Amenity Values from Farm and Forest Increase with Decreasing Scarcity? Identifying Public Preference Surprises for Policy Assessment,” \$150,000 (with R. Johnston, C. Foster).
- 2005-2008 USDA/CSREES/National Research Initiative Competitive Grants Program, “Validating Best Forest Management Practices Around Vernal Pools: Amphibian Metapopulations, Harvester Adoption Costs and Public Values,” \$615,000 (with C. Anderson, K. Schnier, P. Paton, K. McGarigal, J. Opaluch).
- 2005-2008 USDA/CCC “Developing a Market for Nesting Bird Habitat on Active Farm Hayfields.” \$595,639 federal + ~\$110,000 outside match (with C. Anderson, R. Pace, P. Gengler)
- 2007-2010 NOAA/NMFS – Sea Grant Marine Resource Economics Graduate Fellowship: Ecosystem Services - How decision-making changes with incentives, with Elizabeth C. Smith, \$77,000.

- 2007-2009 National Science Foundation, Long-Term Ecological Research (Virginia Coastal Reserve site) Part C: Social Science Supplements: 2007 - *Economics Experiments and Coastal Ecosystem Services* (\$19,998); 2008 - *Low-Income Communities and Preferred Choices for Ecosystem Restoration in the Virginia Coastal Reserve* (\$20,000); 2009 - *Individualized (Lindahl) Pricing for Public Goods: Testing a Framework for Experimental Auctions for Ecosystem Services in LTERs* (\$20,000); 2010 - *Testing Auction Mechanisms for Ecosystem Services: Enhancing Field Experiments for LTER/VCR with Potential for Multi-Site Research* (\$19,998).
- 2008-2010 URI Agricultural Experiment Station, CELS CARES project: “Hayfields and Grassland Birds: Extending Farm Marketing for a New Ecosystem Service Economy.” 108,350.
- 2009-2011 USDA/CSREES/National Research Initiative Competitive Grants Program, “Developing Ecosystem Services Businesses as new Revenues for Farms in Communities Facing Exurban Development.” \$500,000 (with C. Anderson, K. Dame).
- 2009 USDA/NRCS through Northeast Collaborative Ecosystem Studies Unit - Integrating Economic Principles into NRCS Rapid Watershed Assessment for Farm and Forest Owners and Public Value \$76,000 (with Emi Uchida, Peter August)
- 2010-2013 USDA National Institute for Food and Agriculture, with University of California-Berkeley, “Ecosystem Auctions for Decision Support (EADS) Project.” Subcontract for \$125,000 within \$500,000, with co-P.I. Katherine Suding on “Sustainable solutions to cross thresholds and build ecological resilience: Orange County Invasive Management (OCIM) Project.”
- 2010-2013 EPA STAR Grant and USDA National Institute for Food and Agriculture joint program on Enhancing Ecosystem Services from Agricultural Lands: Management, Quantification, and Developing Decision Support Tools Grant: “Managing multiple ecosystem services from agricultural and forest landscape in rural-fringe in southern New England,” \$499,944 (with E. Uchida, J.J. Opaluch, A.J. Gold, Y.Q. Wang) (funded, awaiting final paperwork).
- 2011-2014 USDA National Institute for Food and Agriculture, Agriculture and Food Research Initiative: Making Markets for Ecosystem Services of Farms on the Rural Fringe: Vermont Grasslands for Hay and Nesting Songbirds,” \$450,499 (with C.M. Anderson, A. Strong, L. Chase)
- 2011-2016 University of Connecticut Agricultural Research Station, Hatch Grant, “Markets for and Values of Ecosystem Services: Experiments and Evaluations of Opportunities for New Farm and Rural Revenues in a Green Economy” \$60,000 (approx.)

2011-2013 USDA National Institute for Food and Agriculture, Agriculture and Food Research Initiative: Feasibility of a Local Wood Products Network for Rural Lands in Urbanizing Regions: A Pilot Study in Southern New England. \$149,980 (T. Worthley, PD; J.C. Volin; S. Swallow, J. Berning)

2012-2018 NSF Long Term Ecological Research network, Virginia Coastal Reserve: "LTER: Drivers, dynamics and consequences of non-linear change in coastal barrier systems," 11/1/2012 - 10/31/2018, \$5,880,000. Lead P.I. Karen McGlathery, University of Virginia; subcontract to University of Connecticut, P.I. Stephen Swallow, \$150,000. (Pending)

UNIVERSITY, COMMUNITY, AND PROFESSIONAL SERVICE

UNIVERSITY OF RHODE ISLAND

College of Resource Development Computer Committee, 1992-1994.

Department of Resource Economics Graduate Admissions Committee, 1990-1997.

Department of Resource Economics Undergraduate Curriculum Committee, 1990-present.

Advisor, Undergraduate majors in Environmental Economics and Management, 1996-present, and Liason to Department of Natural Resources Sciences for this joint major.

Graduate School, elected to Graduate Council, 1996-1999.

Scholarship Committee 1997-99 (Chair 1998)

Minority Fellowships Committee 1999

Procedures Committee 1999

Advisory Committee, RI Agricultural Experiment Station, 1996

URI Partnership for the Coastal Environment, Steering Committee Member, 1996-present.

Senior Fellow, Coastal Institute, University of Rhode Island, 2000-present

College of the Environment and Life Sciences ad hoc committee creating the Master's of Environmental Science and Management as a terminal professional degree, 2001-2002, chair of faculty committee for the MESM economics and policy concentration, 2002-present.

Member, Assistant Professor Search Committee, ENRE, 1997, 1999

Chair, Assistant Professor Search Committee, ENRE, 2002

Chair, Research Assistant Professor Search Committee, ENRE, 2005-06

Member, Performance Based Budgeting and Planning committee, ad hoc, for URI Joint Strategic Planning Committee, Spring 2008
Senator, URI Faculty Senate, representing College of the Environment and Life Sciences, May 2008-April 2011 (resigned December 2010)
URI Faculty Senate Executive Committee, URI, May 2008-December-2010.
Chairperson of URI Faculty Senate, elected May 2009, re-elected May 2010 (resigned December 2010 to move to University of Connecticut)

UNIVERSITY OF CONNECTICUT

Provost's Environment Committee, January 2011-present

STATE AND LOCAL COMMUNITY

Member, St. Augustine's Self-Study Committee to choose church Rector and URI Episcopal Chaplain, 1989-90.

External Reviewer, Narragansett Bay Project., 1991.

Contact, Governors Advisor on public education, 1991 (provided relevant research reports discovered at a regional professional conference).

Advisory Board, Rhode Island Natural History Survey, Consortium of State Biological Surveys, 1993-present.

Advisor to Richmond Open Space Preservation Committee, Richmond, RI, 1995-1996.

Member, Richmond Open Space Preservation Committee, Richmond, RI, 1997

Steering Committee Member, Rhode Island Rural Lands Coalition, 1997-1999

Commissioner, Rhode Island Agricultural Land Preservation Commission, Oct. 1997 to Jan. 1998.

Member (trustee) 1998-2004 (Chair 1998-1999), Richmond Rural Preservation Land Trust, a municipal land trust

Member, Farm, Forest and Open Space Land Valuation Subcommittee, Rhode Island State Conservation Committee, 2001-2010

PROFESSIONAL SOCIETY MEMBERSHIPS AND OFFICES HELD

Memberships

Association of Environmental and Resource Economists, 1988-present
Agricultural and Applied Economics Association (formerly American Agricultural Economics Association), 1987-present
American Economics Association, 1987-present
European Association of Environmental and Resource Economists, 1991-present
Human Dimensions of Wildlife Study Group, 1992-1995
International Society for Ecological Economics, 1997-2008
Northeastern Agricultural and Resource Economics Association, 1990-present
Rhode Island Natural History Survey, 1994-2010
Society for Conservation Biology, 1993-2010
Soil and Water Conservation Society, 2009-2010
Southern Economic Association, 1998-2010
Western Association of Agricultural Economists, 1990-present
The Wildlife Society, 1980-2007

Service to Professional Associations or Agencies

1991 - Selected papers reviewer, American Agricultural Economics Association
1991-1992 - Selected Papers Committee, Northeastern Agricultural and Resource Economics Association
1991-1993 - Associate Editor, Wildlife Society Bulletin, The Wildlife Society
1992 - Coordinator for Selected Papers on Natural Resources, American Agricultural Economics Association
1992 - Moderator of Selected Papers Session, American Agricultural Economics Association Annual Meeting
1992-1993 - Editorial Council, Journal of Environmental Economics and Management, Association of Resource and Environmental Economists
1993 - Chair, Selected Papers Committee, Northeastern Agricultural and Resource Economics Association
1993 - Discussant of "Reliability and Validity of CV Methods," Association of Environmental and Resource Economists, summer meetings
1994-1996 - Associate Editor, Journal of Environmental Economics and Management, Association of Resource and Environmental Economists
1994 - Discussant of "Competition from Aquacultural Sector: An Optimal Control Model for the Efficiency of Fishery," Association of Environmental and Resource Economists, summer meetings
1994 - Invited discussant for Principal Papers Session on "Value Elicitation in Laboratory Markets," American Agricultural Economics Association, annual meeting
1995 - Discussant of "Alternative Policies and Willingness to Pay for Public Goods," Association of Environmental and Resource Economists, winter meetings in conjunction with American Economic Association.

- 1996 - Invited keynote speaker, Biennial Meeting of the Scandinavian Forest Economics Society, Mekrijärvi, Finland.
- 1996 - Invited presenter, Annual Meeting of the Northeastern Association of Agricultural and Resource Economists, Atlantic City, NJ.
- 1997-99 Member, Committee on Awards Revisions, Northeast Agricultural and Resource Economics Association
- 2001-02 Editorial Council, *Journal of Environmental Economics and Management*
- 2001-2004 President-Elect, President, Immediate Past President, Northeastern Agricultural and Resource Economics Association
- 2002 Land Use Policy Workshop Committee (NAREA) with funding by Northeast Regional Center for Rural Development
- 2003 Planning committee, Linkages between Agriculture and Conservation Policy Workshop, Northeastern Agricultural and Resource Economics Association
- 2003 Invited participant, "What the Public Values about Farm and Ranch Land," Workshop presented by the Farm Foundation, U.S.D.A. ERS, U.S.D.A. NRCS and U.S.D.A. CSREES, November 12-14
- 2004-06 National Science Foundation, LTER (Long-Term Ecological Research) Network Research and Synthesis Planning Grant: Meeting of 100, Nov. 2004; Subcommittee on Biotic Structure, Feb. and June 2005; Conference Committee, Aug. 2005 -present.
- 2005 National Science Foundation, Site Review Team, Coweeta LTER (Long-Term Ecological Research) Site, June 2005.
- 2007 U.S. Forest Service R&D Wildland Fire External Peer Review panel, June 18-21, Bend, Oregon.
- 2007 Coalition for National Science Funding, Congressional Visits Day, representative from Council for Food, Agricultural and Resource Economics, September.
- 2008 National Science Foundation, LTER Network – Representative to Science Council as social scientist representing both the Virginia Coastal Reserve (VCR) and Sevilleta (SEV, New Mexico)
- 2008 Interdisciplinary panel on Fire Science, representing Council for Food, Agricultural and Resource Economics, June: "Fire Briefing: An Economists' Summary," presentation to U.S. House of Representatives and U.S. Senate staff.
- 2008 National Science Foundation, LTER Network – Representative for Virginia Coastal Reserve to Working Group Meeting on Design Challenges and Solutions for Establishing a Network of Socio-Ecological Research Sites, San Juan, Puerto Rico December 16 - 18, 2008
- 2009-2012 National Ecosystem Services Partnership, with U.S. EPA, U.S.D.A, and numerous other federal agencies, dozens of national and international NGOs, foundations, major corporations. Co-Chair of Working Group 2 on "Partnership Activity Needs Assessment and Scoping" (with Jessica Fox of Electric Power Research Institute), member of Working Group 1 on "Design of Partnership Function and Structure," Member of Steering Committee.
- 2011-2012 Association of Environmental and Resource Economists, Program Committee for Inaugural Summer Conference
- 2011 Agricultural and Applied Economics Association, Selected Papers Committee (non-market valuation section)

Reviewer

Addison-Wesley Publisher, book reviews, 1998
Agricultural and Resource Economics Review (formerly *Northeastern Journal of Agricultural and Resource Economics*), 1991-1992, 1994-2003
American Journal of Agricultural Economics, 1991-1998, 2000-2003
Ambio: A Journal of the Human Environment, 2001
Applied Mathematics and Computation, 1996
Canadian Journal of Agricultural Economics, 2000
Canadian Journal of Forest Research, 1996, 2002
Contemporary Economic Policy, 2001
Ecological Economics, 2011
Economic Inquiry, 2001
Environment and Development Economics, 2000-2001
Environmental and Resource Economics, 2004-05, 2012
European Review of Agricultural Economics, 1996
Forest Science, 1994-1996, 2000-2002
Frontiers of Ecology and the Environment, 2012
Human Dimensions of Fish and Wildlife Management, 1994
International Journal of Wildland Fire, 1999
International Economic Review, 1994
International Review of Economics and Finance, 1998
Journal of Agricultural and Applied Economics, 2003
Journal of Agricultural and Resource Economics, 1996-1997
Journal of Economic Dynamics and Control, 2000
Journal of Environmental Management, 2001-02
Journal of Environmental Economics and Management, 1987-1993, 1997-2002, 2009
Journal of Policy Analysis and Management, 2011
Land Economics, 1992-1994, 1996-2003
Marine Resource Economics, 1988-1989
Maryland Agricultural Experiment Station, 2001
Massachusetts Agricultural Experiment Station, 2002
MBG Press, Missouri Botanical Gardens, 1998
National Academy of Sciences proposals, 1993; Office of Internat'l Affairs, 2000
National Science Foundation, Panel I, Decision-Making and Valuation for Environmental Policy, EPA-NSF Partnership, April 15-16, 1999;
Integrated Research Challenges in Environmental Biology Special Competition, proposal review April, 2002'
Water Sustainability and Climate Review Panel, Division of Chemical, Bioengineering, Environmental and Transport Systems, March 2012
National Science Foundation proposal reviewer 2008
National Sea Grant College Program research proposals, 1990-1991
North American Journal of Fisheries Management, 1995
Oxford Economic Papers, 1996
Regional Science and Urban Economics, 2003
Resource and Energy Economics (formerly *Resources and Energy*), 1992

Resources for the Future, book evaluation, 2001

Silva Fennica, 1997

Social Sciences and Humanities Research Council of Canada, proposals, 1998-1999

Southern Economic Journal 2009

Tenure or promotion, external reviewer, Clark University (2001, 2005), Clemson University (2005), Bowdoin College (2006), Duke University (2006), Rutgers University (1996), University of Georgia (1997), University of Massachusetts – Amherst (1998, 2005), Michigan State University (2008, 2011), University of Minnesota (2008), Minnesota State University-Mankato (2008), Simon Fraser University (2002), Pennsylvania State University (2003, 2005), University of Alberta (2004, 2005), University of Illinois (2004), Ohio State University (2004), Oregon State University (2005)

Transactions of the American Fisheries Society, 1990

USDA National Research Initiative Grant proposals, 1996-1997, 2000-2001

USDA/CSREES Small Business Innovation Research proposals, 2003

University of British Columbia Hampton Research Fund, proposals, 1998, 2002

University of Hawaii, Sea Grant proposal review, 2002

Water, Air, and Soil Pollution, 1995

Water Resources Research, 1987

Water Resources Center, University of Delaware, research proposals, 1991

The Wildlife Society Bulletin, 1988-1994, 1998-1999