

ERIN O. SILLS

Department of Forestry & Environmental Resources
North Carolina State University
Raleigh, NC 27695-8008
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EDUCATION

Duke University, Department of the Environment
Ph.D., Natural Resource and Environmental Economics, 1998
Fields: Natural Resource Economics, Economic Development Policy, Forest Resources
Dissertation: Ecotourism as an Integrated Conservation and Development Strategy: Econometric Estimation of Demand by International Tourists and Impacts on Indigenous Households in Indonesia

M.A., Natural Resource Economics and Policy, 1996

Princeton University, Woodrow Wilson School of Public and International Affairs
B.A., International Development and Latin American Studies, High Honors, 1990
Fields: International Development, Latin American Studies, Science and Policy
Thesis: Extractive Reserves in the Brazilian Amazon

**PROFESSIONAL
EXPERIENCE**

North Carolina State University, Department of Forestry & Environmental Resources
Associate Professor and Director of International Programs, 2005 –
Instructor 1997 – 1998, and Assistant Professor 1999 – 2005

Inter-American Development Bank, Environment Division
Summer Intern, July -August 1995

U.S.D.A. Forest Service, Guaraqueçaba Ecotourism Assessment Project (Brazil)
Project Coordinator, May 1993 - May 1995

Virginia Polytechnic Institute & State University, Department of Agricultural Economics
Research Associate for Project on Economic Impacts of Migrant Labor Force, January-August 1992

Federal University of Pará, NAEA (Brazil)
Associate Researcher, August 1990- August 1991

UNIVERSITY SERVICE

International Programs

Chair, University Committee on International Programs (2003-04, co-chair in 2002-03)

Chair, Departmental Committee on International Programs & Endowments (2002 – 2005, 2007-)

Departmental coordinator for

Bruce and Barbara Zobel Endowment for International Forestry Studies (supports supplemental fellowships and mini-grants for international travel by graduate students)

Gunnar and Lilian Nicholson Graduate Fellowship (supports faculty exchange with Sweden, doctoral stipends for Swedish students, and summer and semester study abroad exchange programs)

Joint masters degree program with the Peace Corps (Masters International)

International option in masters of natural resources degree program

Department and college scholarship programs for study abroad

Forest Ecosystem Services Exchange Program with Brazilian universities (UFPR, UFMG, UFT)

Forestry Collaboration with Chile (2005 – 2009, supported faculty exchange, study tours, graduate student research, undergraduate internships, and language training)

Advise student chapter of the International Society of Tropical Foresters (including seminar series, field trips to international conferences and organizations, and annual spring symposium)

Supervise student webmaster for international section of department website and international newsletter *Sylvanet*

Promote study abroad and advise student participants

Member, College International Task Force, 2001 - 2002

Faculty Advisor, Triangle Pan-Amazon Discussion Group (2004 – 2007)

Lead tropical forestry study tours

Ghana, focus on local forest benefits, May 12- 28, 2004, 12 participants

Chile, focus on intensive plantation forestry, March 8 – 16, 2003, 17 participants

Costa Rica, focus on environmental service payments, August 6 –17, 2002, 16 participants

Paraguay, focus on agroforestry and wood processing, March 9 – 18, 2001, 19 participants

Mexico, March 10 –17, 2000, 10 participants

Assisted with China 2006; Costa Rica 2005; Puerto Rico 1998; and Belize 1997

Other University Service

Affiliated faculty of the Center for Environmental and Resource Economic Policy (2009 -)

Member of departmental committees on post-tenure review (2006) **and tenure** (2007-2008)

Member of search committees (Department searches for policy in 2000 and wildlife science 2010; University search for vice-provost of international affairs 2000)

Member of College Diversity Task Force (1999 – 2000)

Instruction and Advising

Courses taught

Forest Economics (graduate) taught 11 semesters 1997 - 2009

World Forestry (undergraduate) taught 11 semesters 1998 – 2010 (with graduate sections in 2009-2010)

Agroforestry Special Topics (graduate) coordinated 3 semesters 2000 – 2003

Economics & Ecology of Invasive Forest Pests (graduate), distributed graduate seminar sponsored by National Center for Ecological Analysis & Synthesis, taught 2007

Global Forest Sustainability and Certification (graduate), co-taught one semester in 2005, with students and faculty from SLU in Sweden and NCSU

Conservation and Development, mini-course co-taught with doctoral students, spring 2008

Survey Methods, mini-course, spring 2009

Collaborative Research on REDD+ (graduate), offered jointly with Duke and UNC, 2010

Forest Economics and Linear Programming (undergraduate) taught 2004

Introduction to Natural Resources (undergraduate) taught 1997

Conservation & Sustainable Development (graduate) taught 1998

Resource & Environmental Economics (graduate) teaching assistant 4 semesters 1993 -1996

Independent Studies economics of invasive species (2004), natural resources in developing countries (2004), air quality policy (2002), and natural resources policy (2002)

Guest lectures on international forest policy and environmental economics (in 25+ courses since 1997)

Member of departmental graduate admissions committee (1997 -)

Mentor for undergraduate research projects on environmental voting in NC legislature (2002) and woodland holiday products (2004-2005)

Advise three doctoral (1 co-advised), three masters, and six undergraduate students currently

Committee member for 2 doctoral and 5 masters students currently

Former graduate students (7 PhD, 8 MS, and 7 masters of)

Simone Bauch, PhD 2010, Evaluation of conservation policies in the Brazilian Amazon

Susan MacIntyre, MNR 2009, Extending Government Assistance to a Diverse Audience

Koffi Bassan, MF 2009, Constraints to Technology Adoption in Rural West Africa

Kevin Bigsby, MS 2009, Anthropogenic Drivers of Gypsy Moth Dispersal

Nia Atmadja, PhD 2008, Discount Rate Estimation and Role of Time Preference

Rodrigo Arriagada, PhD 2008, Payments for Ecosystem Services in Costa Rica

Shubhayu Saha, PhD 2008, Spatial Externalities: Evidence on Social Interactions

Tzu-Ming Liu, PhD 2007, Economic Analysis of Bioinvasion in the Pacific Region
 Jill Braly, MS, 2007, Bloodroot supply on the Waynesville watershed in Western NC
 Nevin Dawson, MS 2006, Identifying early adopters of cashew agroforestry in Senegal
 Arthur Green, MS 2005, Natural resource management in Tchabal Mbabo, Cameroon
 Kelly Jones, MS 2005, Technology adoption in West Africa: soybeans in Togo and Benin
 Rodrigo Arriagada, MS 2004, Estimating Profitability and Fertilizer Demand in Costa Rica
 Nia Atmadja, ME 2004, Looking for a win-win: meta-analysis of poverty and deforestation
 Luis Carrasco, MS 2002, Analysis of Environmental Impact Statements in North Carolina
 Kirsten Cassingham, MS 2001, Landowner Participation in NC Natural Heritage Program
 Deepak Chhabra, PhD 2001, Scottish Highland Games: Authenticity & Economic Impact
 Ginger Deason, MNR 1999, Non-Timber Forest Products & Selective Logging in Belize
 Saeko Makino, MNR 2004, Linking Forests to Markets: Chain of Custody Certification
 Kelly Mance, MNR 2004, Outreach to Limited Resource Forest Landowners
 Erin Mirrett, MNR 2000, Agroforestry Practices on Organic Farms in the U.S.
 Niken Sakuntaladewi, PhD 1998, Community Based Forest Management in Indonesia

GRANTS

- Living with Deforestation: Analyzing Transformations in Welfare and Land Use on an Old Amazonian Frontier,**
 Co-PIs: Jill Caviglia Harris (Salisbury University) and Dar Roberts (UCSB), funded by NSF, \$560,000, July 2008 – June 2011.
- Forests and Climate: Meta-Analysis of REDD+ Projects.** Funded by CIFOR, \$19,500, June 2009 – December 2010.
- Triangle Working Group on REDD+,** Co-PIs: Brian Murray (Duke University), Pam Jagger (UNC-CH), and Robert Beach (RTI), funded by Research Triangle Institute, \$14,200, December 2009 – September 2010.
- Assessing Willingness to Pay for Sporting Licenses and Non-Game Conservation in NC,** Co-PI: Nils Peterson and Fred Cabbage, funded by NC Wildlife Resources Commission, \$84,466, June 2008 – June 2010.
- Economic Assessment of Ecosystem Services Provided by Cocoa Systems in Central America,** Co-PI: Fred Cabbage, funded by USDA Forest Service, \$25,000, September 2008 – June 2010.
- Graduate Education in Forest Resource Decision Sciences:** Preparing professionals to meet global needs, Co-PIs: Roise, Warren, Bullock, Cabbage, Steelman, Peterson, funded by USDA CSREES, \$172,000, September 2008 – August 2013.
- Strengthening Global Competence of Students & Faculty through Collaboration in Forestry,**
 Co-PIs: Lee Allen, Doug Frederick, and Susan Moore, funded by USDA CSREES ISE, \$100,000, April 2005 – September 2009.
- Assessment of the Economic Feasibility of the Gypsy Moth Slow the Spread Project,** funded by USDA Forest Service, \$50,000, October 2006 – February 2008.
- Economics of sustainable forest management in the Brazilian Amazon,** funded by USDA Forest Service IP, \$28,380, May 2005 – September 2007 (supplemented by grant from the European Union directly to collaborating organization IMAZON in Belém, Brazil).
- Private Provision of Public Goods: Applying Matching Estimators to Evaluate 'Direct Payments' for Tropical Forest Conservation,** funded by NSF for \$36,000 and FONAFIFO (Costa Rican Government) for \$46,800, August 2005 – February 2007.
- Econometric Evaluation of Costa Rica's Payments for Environmental Services: Scaling up Sample Size and Study Area,** Dissertation Enhancement Grant for Rodrigo Arriagada, funded by NSF, February – December 2007.
- Development of the Milk and Beef Processing Sectors: Implications for Land Use by Small Farmers in the Amazon,** Dissertation Enhancement Grant for Shubhayu Saha, funded by NSF, \$10,510, May 2006 – July 2007.
- Long Term Sustainability of Bloodroot Supply on the Qualla Boundary Lands of the Eastern Band of Cherokee Indians,** Co-PIs: Fred Cabbage and Jill Braly, funded by RTCAR, May 2006 - May 2007.
- Mining, Biodiversity, and Forest Livelihoods in Orissa, India,** funded by World Bank through RTI International, \$18,500, December 2005 – July 2006.
- Global Forest Sustainability and Certification Course: International Teaching Collaboration,** Co-PI: Susan Moore, \$2000, funded by NCSU Faculty Center for Teaching and Learning, May – December 2005.
- Poverty Mapping in Sri Lanka,** Funded by the World Bank through RTI International, \$3,000, December 2004 – January 2005.

- Developing Low-Literacy Extension Materials to Target Underserved Audiences**, Co-PI: Kelly Mance, Small and Part-time Farm Funding, \$7,500, April – September 2004.
- Curricular Development in Temperate and Subtropical Sustainable Forest Management and Forest Certification**, Co-PIs: Fred Cabbage and Susan Moore, funded by International Partnership for Forestry Education Development Grant, \$16,500, March – October 2004.
- Criteria and Indicators: Evaluating Data Sources for the US South**, cooperative agreement with USDA Forest Service Southern Research Station, \$12,700, October 2003 – August 2004.
- Evaluating US Forest Policies: New Econometric Tools from “Program Evaluation”**, Co-PI: Subhrendu Pattanayak, cooperative agreement with USDA Forest Service Southern Research Station, \$25,000, August 2003 – August 2004.
- Developing Low-Literacy Extension Materials to Target Underserved Audiences**, Co-PIs: Susan Moore, Bob Bardon, Rick Hamilton, funded by NC Program of Renewable Resources Extension Act, \$10,000, May – September 2003.
- Environmental Assessment of NAFTA’s Impacts in the Forest Sector**, Co-PI: Gary Blank, funded by the USDA Forest Service International Programs Office, \$10,000, February 2002 – March 2003.
- Determining the Potential for International Forestry Education Through Distance Learning**, Co-PI: Bill Dvorak, funded by NC State DELTA (Distance Education and Learning Technology Applications), \$10,000, January - June 2002.
- Indicators of Forest Condition: Measuring Amenities, Aesthetics, and Sustainability**, Co-PI: Subhrendu Pattanayak, cooperative agreement with USDA Forest Service Southern Research Station, \$50,000, August 2001 – February 2004.
- Econometric Methods for Tree Planting Models**, Co-PI: Subhrendu Pattanayak, cooperative agreement with USDA Forest Service Southern Research Station, \$28,000, August 2001 - August 2003.
- Sustaining ecological and economic diversity among limited resource landholders by expanding opportunities for management of productive woodlands**, Co-PI: Sarah Warren, funded by USDA Southern Region Sustainable Agriculture Research and Education Program, \$180,430, May 2001 - May 2004.
- Collaborative Research on Forest Use in India: Building International and Interdisciplinary Linkages**, funded by NC State Internationalization Seed Grant, \$4,000, January 2000 – January 2002.
- Economics of Low-Impact Logging: Cost & Benefits of Certified Timber Production in Belize**, funded by NC State Faculty Research and Professional Development Seed Grant, \$4,990, March 2000 - December 2001.
- Protecting Soil and Water Resources with Agroforestry: Econometric Techniques for Analyzing Soil Conservation Benefits**, Co-PI: Subhrendu Pattanayak, cooperative agreement with USDA Forest Service Southern Research Station, \$20,000, August 1999 - January 2001.

PUBLICATIONS

Edited books

- Sills, Erin and K. Abt, eds. 2003. *Forests in a Market Economy*. Kluwer Academic Publishers, Dordrecht. 379 pp.
- Angelsen, A., M. Brockhaus, M. Kanninen, E. Sills, W. Sunderlin, and S. Wertz-Kanounnikoff, eds. 2009. *Realising REDD+: National strategy and policy options*. Center for International Forestry Research, Bogor, Indonesia. 361 pp.

Articles (peer reviewed)

- Arriagada, R., E. Sills, S. Pattanayak, F. Cabbage, and E. Gonzalez. Forthcoming. Rice farming externalities: modeling fertilizer use around Palo Verde National Park in Costa Rica. *Agricultural Economics*.
- Sills, E. and Saha, S. 2010. Subsidies for Rubber: Conserving Rainforests while Sustaining Livelihoods in the Amazon? *Journal of Sustainable Forestry*. 29:1–22, 2010.
- Arriagada, R., E. Sills, S. Pattanayak, and P. Ferraro. 2009. Combining qualitative and quantitative methods to evaluate participation in Costa Rica’s Program of Payments for Environmental Services. *Journal of Sustainable Forestry*. 28: 1-25.
- Holmes, T., J. Aukema, B. Holle, A. Liebhold, and E. Sills. 2009. Economic Impacts of Invasive Species in Forests: Past, Present, and Future. *The Year in Ecology and Conservation Biology, 2009: Ann. N.Y. Acad. Sci.* 1162: 18–38.

- Bauch, S., E. Sills, L. Rodriguez, K. McGinley, and F. Cubbage. 2009. Forest Policy Reform in Brazil. *Journal of Forestry* 107(3): 132-138.
- Caviglia-Harris, Jill L., Sills, Erin O., Jones, Luke, Saha, Shubhayu, Harris, Daniel, McArdle, Suzanne, Roberts, Dar, Pedlowski, Marcos and Powell, Rebecca. 2009. Modeling land use and land cover change in an Amazonian frontier settlement: strategies for addressing population change and panel attrition. *Journal of Land Use Science*, 4: 4, 275 — 307.
- Sills, E. and J. Caviglia-Harris. 2008. Evolution of the Amazonian Frontier: Land Values in Rondônia, Brazil. *Land Use Policy*. 26: 55– 67.
- Jones, K. and E. Sills. 2008. Dissemination of food crops with nutritional benefits: Adoption and disadoption of soybeans in Togo and Benin. *Natural Resources Forum* 32: 39-52.
- Cubbage, F., P. Harou, and E. Sills. 2007. Policy instruments to enhance multi-functional forest management. *Forest Policy and Economics* 9: 833-851.
- Sills, E., S. Pattanayak, P. Ferraro, and K. Alger. 2006. Abordagens analíticas na avaliação de impactos reais de programas de conservação. *Megadiversidade* 2(1-2): 39-49.
- Carrasco, L., G. Blank and E. Sills. 2006. Characterizing Environmental Impact Statements for Road Projects in North Carolina. *Impact Assessment and Project Appraisal* 24(1).
- Pattanayak, S., Dickinson, K., Corey, C., Murray, B., Sills, E., & Kramer, R. 2006. Deforestation, malaria and poverty: a call for transdisciplinary research to support the design of cross-sectoral policies. *Sustainability: Science, Practice, & Policy* 2(2):45–56.
- Caviglia, Jill and E. Sills. 2005. Livelihood Strategies of Traditional and Migrant Populations in the Brazilian Amazon: Diversification and Deforestation. *Agricultural Economics*. 32: 221–237.
- Pattanayak, Subhrendu, E. Sills, and R. Kramer. 2004. Seeing the Forests for the Fuel. *Environment and Development Economics*. 9(2): 155-179.
- Pattanayak, Subhrendu, E. Sills, A. Mehta, and R. Kramer. 2003. Local Uses of Parks: Uncovering Patterns of Household Production from the Forests of Siberut, Indonesia. *Conservation and Society* 1(2): 209-222.
- Pattanayak, SK., D.E. Mercer, E. Sills, and J. C. Yang. 2003. Taking Stock of Agroforestry Adoption Studies. *Agroforestry Systems*. 57: 173-186.
- Chhabra, Deepak, R. Healy, and E. Sills. 2003. Staged Authenticity and Heritage Tourism: Perceptions by Visitors at a Scottish Festival in North Carolina. *Annals of Tourism Research* 30(3): 702-719.
- Chhabra, Deepak, E. Sills, and F.W. Cubbage. 2003. The Significance of Festivals to Rural Economies: Estimating the Economic Impacts of Scottish Highland Games in North Carolina. *Journal of Travel Research*. 41(4): 421-427.
- Snider, Anthony, S. Pattanayak, E. Sills, and J. Schuler. 2003. Policy Innovations for Private Forest Management and Conservation in Costa Rica. *Journal of Forestry* 101(5): 18 – 23.
- Chhabra, Deepak, E. Sills, and P. Rea. 2002. Tourist Expenditures at Heritage Festivals. *Event Management Journal* 7(4): 221-230.
- Cassingham, Kirsten, E. Sills, S. Pattanayak, and C. Mansfield. 2001. North Carolina's Natural Heritage Program: a case for public-private cooperation. *Journal of Forestry* July/August: 16-23.
- Pattanayak, S. K., and E. Sills. 2001. "Do Tropical Forests Provide Natural Insurance? Non-Timber Forest Product Collection in the Brazilian Amazon," *Land Economics* 77(4): 595-612.
- Sills, Erin, and V.Y. Müller. 1996. "Domestic Nature Tourism in Brazil's Protected Areas: Can Brazilian Tourists Save the Brazilian Rainforest?," *Southeastern Council on Latin American Studies Annals*, 27: 68-80.
- Sills, Erin, J. Alwang, and P. Driscoll. 1994. "Migrant Farm Workers on Virginia's Eastern Shore: An Analysis of Economic Impacts," *Journal of Agricultural and Applied Economics*, 26(1): 209-223.

In review and revision

- Celentano, D., E. Sills, A. Veríssimo, and M. Sales. In revision. Human Development and Deforestation in the Brazilian Amazon.
- Weber, J., E. Sills, S. Bauch, and S. Pattanayak. In review. Do ICDPs work? An empirical evaluation of forest-based microenterprises in the Brazilian Amazon.

Sills, E. and J. Caviglia-Harris. In review. "Green" Agriculture in the Amazon Evaluating Sustainability Programs with Matching Methods.

Holmes, T.P., F.W. Cabbage, and E.O. Sills. In revision. Sustainable timber management and the economic-ecologic resilience of tropical production forests: an overview.

In preparation (all manuscripts with former graduate students)

Arriagada, R., E. Sills, P. Ferraro, and S. Pattanayak. In preparation. Impact Evaluation of the Costa Rican Program of Payments For Environmental Services at the Parcel Level.

Atmadja, N., E. Sills, and S. Pattanayak, In preparation. Discounting future health outcomes: empirical evidence on the discount rate as determinant of health behavior in India.

Bauch, S., S. Pattanayak, and E. Sills. In preparation. The road less traveled: Does forest conservation reduce malaria in the Brazilian Amazon?

Bigsby, K., P. Tobin, and E. Sills. In preparation. Anthropogenic Drivers of Gypsy Moth Dispersal.

Caviglia-Harris, J, S. Hall, K. Mullan, C. MacIntyre, S. Bauch, D. Harris, E. Sills, J. Dawson, B. Klitch, D. Roberts, M. Toomey, H. S. Cha. In preparation. Improving Household Surveys with Technology: Lessons on the Use of Touchscreen Laptops for Computer Aided Personal Interviewing.

Dawson, N. and E. Sills. In preparation. Counting Down to Change: Adoption of Cashew Agroforestry in Senegal.

Saha, S., E. Sills, and J. Caviglia-Harris. In preparation. Intensification or Extensification? The Impacts of Improved Rural Markets on Cattle Production and Land Use.

Pattanayak, S., L. Carrasco, E. Sills, J. Yang, C. van den Berg, C. Agarwal, and H. Gunatilake. In preparation. Geography and Urban Water Supply: Evidence from Southwest Sri Lanka.

Book chapters (all peer reviewed)

Sills, E., R. Arriagada, P. Ferraro, S. Pattanayak, L. Carrasco, E. Ortiz, S. Cordero, K. Caldwell, and K. Andam. Forthcoming. Impact of the PSA Program on Land Use. S. Pagiola (ed.) *Ecomarkets: Costa Rica's Experience with Payments for Environmental Services* (World Bank).

Sills, E., F. Parmgarten, P. Shanley, and J. de Beer. In preparation. Evolving perspectives on non-timber forest products, invited chapter for S. Shackleton (ed.) *Non-timber Forest Products in the Global Context*.

Kramer, R., E. Sills, and S. Pattanayak. 2009. Gauging Support for Local Development Projects. Chapter 7 in K.N. Ninan (ed.) *Conserving and Valuing Ecosystem Services and Biodiversity*, 123-149 (Earthscan).

Sills, E., E. Madeira, W. Sunderlin, and S. Wertz-Kanounnikoff. 2009. The Evolving Landscape of REDD+ Projects. P. 265-280 in Angelsen et al., eds., *Realising REDD+: National strategy and policy options*. Center for International Forestry Research.

Jagger, P., S. Atmadja, S. Pattanayak, E. Sills, and W. Sunderlin. 2009. Learning while doing: Evaluating impacts of REDD+ projects. P. 281-291 in Angelsen et al., eds., *Realising REDD+: National strategy and policy options*. Center for International Forestry Research.

Cassingham, Kirsten, E. Sills, S. Pattanayak, and C. Mansfield. 2002. Spatial Assessment of a Voluntary Forest Conservation Programme in North Carolina P. 129 – 141 in L. Teeter, B. Cashore, D. Zhang, eds., *Forest Policy for Private Forestry: Global and Regional Challenges*, CABI Publishing.

Englin, Jeff, T.P. Holmes, and E.O. Sills. 2003. Forest Recreation Demand Modeling using Count Data P. 341 – 360 in E. Sills and K. Abt, eds., *Forests in a Market Economy*, Kluwer AP.

Sills, Erin and S. Pattanayak. 2006. Economics of Tropical Deforestation in S. Spray and K. McGlothlin, eds. *Tropical Deforestation*, Rowman & Littlefield Publishers, Inc.

Sills, Erin and K. Abt. 2003. Introduction P. 1-8 in E. Sills and K. Abt, eds., *Forests in a Market Economy*, Kluwer Academic Publishers.

Sills, Erin, S. Lele, T. Holmes, and S. Pattanayak. 2003. Role of Nontimber Forest Products in the Rural Household Economy P. 259 - 281 in E. Sills and K. Abt, eds., *Forests in a Market Economy*, Kluwer Academic Publishers.

CONFERENCES

Proceedings

- Atmadja, S. and E. Sills. 2008. Discount Rates of Limited Resource Woodland Owners in North Carolina and Virginia, *Proceedings of the Southern Forest Economics Workshop*, J. Siry, ed., Athens, GA.
- Beach, R., E. Sills, T. Liu, and S. Pattanayak. 2008. The Influence of Forest Management on Vulnerability to Severe Weather. *Encyclopedia of Forest Environmental Threats*. John Pye and Yasmeen Sands, eds. <http://www.forestencyclopedia.net/Encyclopedia/Threats>
- Dawson, N.S. and E.O. Sills. 2008. Counting Down to Change: Identifying Early Adopters and Effective Extension Multipliers of Cashew Agroforestry in Senegal. In: *Evolving challenges and changing expectations for forestry extension and technology transfer: Meeting the needs of people and forests around the globe* (IUFRO). Ontario Forest Research Institute, Sault Ste. Marie. Forest Research Information Paper 172. pp 11-13.
- Atmadja, Nia and E. Sills. 2005. Looking for a win-win situation: a meta-analysis of poverty and Deforestation, *Proceedings of the Southern Forest Economics Workshop*, S.J. Chang, ed., Baton Rouge, LA.
- Mance, K., E. Sills, and S. Warren. 2004. Outreach to Limited Resource Forest Landowners: Extension Innovation for Low Literacy Audiences. *Human Dimensions of Family, Farm, and Community Forestry*. D. Baumgartner, ed., Pullman, WA.
- Sills, Erin, E. Romero, and W. Sabido. 2002. Certified Timber Production in Belize, *Proceedings of the 2002 Southern Forest Economics Workshop*. G. Amacher and J. Sullivan, eds. Blacksburg, VA.
- Warren, Sarah, R. Williamson, and E. Sills. 2002. Minority Landholders and Working Forests in the South, *Proceedings of the Society of American Foresters Convention*. Winston-Salem, NC.
- Sills, Erin, 2002. The International Experience: Natural Resource Education Overseas, *Proceedings of the University Education in Natural Resources Conference*. Raleigh, NC.
- Murthy, Aruna, E. Sills, and F.W. Cabbage. 2001. Market and Nonmarket Values of Forests in North Carolina, *Proceedings of the Southern Forest Economics Workshop*. D. Zhang and S. Mehmood, eds. Atlanta, GA.
- Pattanayak, Subhrendu, A. Mehta, E. Sills, and R.A. Kramer. 2001. Local Uses of Parks: Economic Contributions of Forest Products, *Proceedings of the Southern Forest Economics Workshop*. D. Zhang and S. Mehmood, eds. Atlanta, GA.
- Pattanayak, Subhrendu, D.E. Mercer, E. Sills, and K. Cassingham. 2001. Adopting Agroforestry, *Proceedings of the Southern Forest Economics Workshop*. D. Zhang and S. Mehmood, eds. Atlanta, GA.
- Caviglia, Jill L. and E. Sills. 2000. Forest Management Practices by Indigenous and Migratory Populations: Diversification and Deforestation (abstract) *Journal of Agricultural and Resource Economics*, 25(2): 725.
- Espinoza, Jeannette, S.K. Pattanayak, and E. Sills. 2000. Weak Complementarity and Ecosystem Benefits Estimation: Soil Conservation in Flores, Indonesia, *Proceedings of the 2000 Southern Forest Economics Workshop*. M. Pelkki, ed. University of Arkansas, Monticello.
- Sills, Erin , 2000. Developing a Non-Timber Resource in the Brazilian Amazon: Determinants of Household Participation, *Proceedings of the 2000 Southern Forest Economics Workshop*. M. Pelkki, ed. University of Arkansas, Monticello.
- Sills, Erin , 1998. Options for Estimating and Influencing Local Collection of Forest Products, *Proceedings of the 1998 Southern Forest Economics Workshop*. R. Abt and K. Lee, eds. USDA Forest Service, Research Triangle Park.
- Cabbage, Frederick W., J.M. Andriquetto-Filho, E.O. Sills, M.Motta, and M.V.Y. Müller. 1996. Protection of the Atlantic Coastal Forests in the Northern Littoral Region of the State of Paraná: Legal and Administrative Frameworks P. 24 – 41 in F. Schmithüsen, ed., *Contributions of the IUFRO Working Group on Forest Law and Environmental Legislation*.

Panels organized

- Causal effects of conservation investments: Applications of matching methods in Latin America. International Section of the *American Agricultural Economics Association Meetings*, Orlando FL, July 2008.
- Minority Landholders and Working Forests in the South. *Society of American Foresters Convention*, Winston-Salem, NC, October 2002.
- The International Experience: Natural Resource Education Overseas. *University Education in Natural Resources Conference*, Raleigh, NC, March 2002.
- Fate of the Forest: Birdwatchers, Blowguns, or Beef? *Southeastern Council on Latin American Studies Annual Meeting*, Chapel Hill, NC, March 1995.

Selected presentations (last 10 years)

- Capalow, S., P. Jagger, K. Lawlor, and E. Sills. "Evaluating Land Use and Livelihood Outcomes Associated with Early Forest Carbon Projects: Lessons for Learning about REDD+" presented by Capalow at *ISTF Conference on Tropical Forests under a Changing Climate*. Yale University, CT, February.
- Caviglia-Harris, J. and E. Sills. 2009. "Payments for Ecosystem Services in Tropical Forests: Competing Land Use Values within Thin Markets" presented by Caviglia-Harris at *NAREA Annual Meeting*, Burlington, VT, June.
- Celentano, D., E. Sills, A. Verissimo, and M. Sales. 2009. "Deforestation and Human Development: Evidence of Boom-Bust Development in the Brazilian Amazon" presented by Celentano at *ALEAR Congress*, Costa Rica, March.
- Sills, E., S. Bauch, J. Weber, and S. Pattanayak. 2008. "Forest-based Micro-Enterprise in the Brazilian Amazon: Assessing the Welfare Impacts of Integrated Conservation and Development" presented at the *European Association of Environmental and Resource Economists*, Gothenburg, Sweden, June.
- Sills, E., S. Bauch, J. Weber, and S. Pattanayak. 2008. "Increasing returns to community forestry: Estimating the impacts of micro-enterprise development in the Brazilian Amazon" presented at the *American Agricultural Economics Association Meetings*, Orlando FL, July.
- Caviglia-Harris, J. and E. Sills. 2008. "Promoting sustainable agriculture in the Amazon: How effective are voluntary farmer associations sponsored by NGOs?" presented by Caviglia-Harris at the *American Agricultural Economics Association Meetings*, Orlando FL, July.
- Sills, E. 2008. "Balancing Costs and Benefits of Slowing the Spread of Gypsy Moths" presented at the *USDA Interagency Research Forum on Invasive Species*, Annapolis, MD January.
- Sills, E., S. Pattanayak, S. Saha, K. Sanglisuwana, J. Yang, and A. Singha 2007. "Mine over matter? Health, wealth, and forests in a mining area of Orissa" presented at *International Conference on Comparative Development*, Delhi, India December.
- Pattanayak, Subhrendu, E. Sills, and J. Caviglia-Harris. 2007. "From Forests to Pasture: Evidence on the Co-Evolution of Deforestation and Development from a Spatial Panel Survey of Farm Households in Rondônia, Brazil" presented by Pattanayak at the *Annual Meeting of the American Agricultural Economics Association*, Portland OR July.
- Sills, E., S. Pattanayak, P. Ferraro, R. Arriagada, E. Ortiz, and S. Cordero. 2007. "Testing Pigou: Private Provision of Public Goods" presented at the *AERE Workshop on Valuation and Incentives for Ecosystem Services*, Mystic CT, June.
- Sills, E. J. Caviglia-Harris, S. Pattanayak, D. Harris, S. Saha, L. Jones, S. McArdle, and M. Pedlowski. 2007. "Deforestation and Development on an old Amazonian Frontier: Spatial and Temporal Patterns in Land Use and Welfare" presented at the *Annual Meeting of the Association of American Geographers*, San Francisco, CA, April.
- Bauch, S., E. Sills, and S. Sieber. 2007. "Atravessadores: ligando a economia neoclássica e a nova economia institucional" presented by Bauch at *Congresso da Sociedade Brasileira de Economia, Administração e Sociologia Rural*, Londrina, Brazil, July.
- Atmadja, S., E. Sills, S. Pattanayak, S. Patil, and J. Yang. 2007. "Discounting Future Health Outcomes: Time Preferences in Rural India" presented by Atmadja at the *Pacific Conference for Development Economics*, Davis CA, March.
- Sills, E., K. Jones, S. Pattanayak, K. Alger, J. Alvarez, K. Cassingham, J. Krishnaswamy, and N. Phillips. 2006. "Watershed protection by forests: Vital ecosystem service or smoke and mirrors?" presented at *Tercer Congreso Chileno de Ciencias Forestales*, Concepción, Chile, November.
- Sills, E., R. Arriagada, S. Pattanayak, P. Ferraro, L. Carrasco, E. Ortiz, S. Cordero, and K. Andam. 2006. "Program Evaluation of Costa Rica's Pago de Servicios Ambientales (PSA): Impacts on Forest Cover" presented at *Ecosystem Services in the Neotropics: State of the Art and Future Challenges*, Valdivia, Chile, November.
- Sills, E. 2006. "Payments for Environmental Services in Costa Rica" presented as part of the symposium "How do we know it's working? State of the art program evaluation for conservation science and policy" at the *Society for Conservation Biology Annual Meeting*, San Jose, CA, June.
- Jones, K., S. Pattanayak and E. Sills. 2005. "Democracy and Dictatorship: Comparing household innovation across the border of Benin and Togo" presented by Jones at *Northeastern Universities Development Conference*, Providence RI, September.
- Sills, E. 2005. "Cross-walking the Montreal Process Criteria & Indicators with Southern Data Sets" presented at the *Southern Roundtable on Sustainable Forests*, Asheville, NC, September.
- Shanley, Patricia and E. Sills. 2005. "Market Myths and Forest Livelihoods" presented at *Working Forests in the Tropics*, Gainesville, FL, February (also presented at World Bank, March).

- Pattanayak, Subhrendu, E. Sills, and D. Whittington. 2004. "Cost-recovery for Water Supply: Understanding how time preferences affect financing options in Kathmandu, Nepal" presented at the *Northeastern Universities Development Conference*, Montreal, October.
- Sills, Erin, S. Atmadja, S. Warren, and R. Estevez, 2004. "Sustaining Diversity: Limited-resource Forest Landowners in the Southern United States" presented at the IUFRO Conference on *Human Dimensions Family and Farm Forestry*, Pullman, WA, March.
- Sills, Erin and S. Saha. 2004. "Rubber subsidies for extractive reserves: Sign of Failure or Success?" presented at the *ISTF Conference People and Parks*, New Haven, CT, March.
- Sills, Erin and S. Pattanayak, 2003. "Markets, modernization, and the Mentawai: Explaining Differences in Forest Dependence," presented at the *Northeastern Universities Development Conference*, New Haven, CT, October.
- Arin, Tijen and E. Sills, 2002. "Financing conservation and development with tourism: Park entrance fees in the Republic of Georgia" presented at the *World Congress of Environmental and Resource Economists*, Monterey, CA, July.
- Sills, Erin, S. Pattanayak, T. Holmes, and S. Lele, 2002. "Collecting Clues from Limited Data: non-timber forest product collection in labor and land limited situations" presented at the *Southern Forest Economics Workshop*, Virginia Beach, VA, March.
- Sills, Erin, S. Pattanayak, C. Mansfield, and K. Cassingham, 2002. "What Drives Voluntary Preservation?" presented at the *World Congress of Environmental and Resource Economists*, Monterey, CA, July.
- Sills, Erin, K. Potter, K. Jones, and D. Wear, 2002. "Assessing Forest Sustainability with Questions and Criteria" presented at the *Society of American Foresters Convention*, Winston-Salem, NC, October.
- Sills, Erin, E. Romero, and W. Sabido, 2002. "Financing Conservation with Certified Timber: the Experience of Programme for Belize" presented at *Working Forests in the Tropics*, Gainesville, FL, March.

Oral presentations by current and former graduate students based on dissertation/ thesis research (last 2 years)

- Anderson, C.J., Peterson, M. N., Cobb, D., Sills, E., and Bondell, H. 2010. Assessing willingness of North Carolina hunters and anglers to increase license fees. Annual Meeting of the North Carolina Chapter of The Wildlife Society, Eastern 4-H Conference Center, Columbia, North Carolina, February 10-11.
- Arriagada, R., E. Sills, S. Pattanayak, and P. Ferraro. 2009. Payments for environmental services and their impact on forest transition in Costa Rica. *Diversitas 2nd Open Science Conference*, Cape Town, South Africa.
- Arriagada, R. Sills, E. and S. Pattanayak. 2009. Payments for environmental services and their impact on forest transition in Costa Rica. Presented at the IV Congress of the Latin American and Caribbean Association of Environmental and Natural Resource Economists. Universidad Nacional, Heredia, Costa Rica.
- Arriagada, R. Sills, E. and S. Pattanayak. 2009. Payments for environmental services and their impact on forest transition in Costa Rica. Presented at the Pacific Conference for Development Economics. San Francisco State University, San Francisco, CA, USA.
- Arriagada, R. Sills, E. Pattanayak, S. and P. Ferraro. 2008. Private landowners, public payments, and forest cover in Costa Rica: evaluating the impact of payments for ecosystem services. Presented at the 16th Annual Conference of the European Association of Environmental and Resource Economists. Gothenburg University, Gothenburg, Sweden.
- Atmadja, S., E. Sills, S. Pattanayak, J. Yang, and S. Patil. 2009. Discount rate estimates in rural India: What difference do they make? *EAERE*, Amsterdam, June.
- Bauch, S.C., Sills, E.O., Pattanayak, S.K. 2010. Microenterprises after the funding ends: Two Steps Forward and One Step Back. *ASSA annual meeting*, Atlanta, USA.
- Bauch, S.C., Pattanayak, S.K., Alger, K., Sills, E.O. 2009. Development, Deforestation, and Disease: Policy Implications for Malaria. *Diversitas 2nd Open Science Conference*, Cape Town, South Africa.
- Bauch, S.C., Sills, E.O., Pattanayak, S.K. 2009. Community-based Conservation Projects: Do networks affect slash and burn? *Camp Resources 2009*. Asheville, USA.
- Bauch, S.C., Pattanayak, S.K., Sills, E.O. 2009. Development, Deforestation, and Disease: Policy Implications for Malaria. *EAERE 17th Annual Conference*, Amsterdam, Netherlands.
- Bauch, S.C., Pattanayak, S.K., Alger, K., Sills, E.O. 2008. Development, deforestation, and disease: What does malaria have to do with roads and parks? Oral presentation at the International EcoHealth Forum 2008, Cancun, Mexico.
- Dawson, N. and E. Sills. 2008. Counting Down To Change: Identifying Early Adopters and Effective Extension Multipliers of Cashew Agroforestry in Senegal, Evolving Challenges and Changing Expectations for Forestry Extension and Technology Transfer: Meeting needs of people and forests around the globe, Mattawa and Ottawa, Ontario, Canada, September.

- Estevez, R., D. Hazel, E. Sills, R. Bardon, and A. Oltmans. 2008. A Cost-Benefit Analysis of the North Carolina Southern Pine Beetle Prevention Program. Association of Natural Resource Extension Professionals 6th Biennial Conference, Madison, WI, May.
- Estevez, R., D. Hazel, E. Sills, R. Bardon, and A. Oltmans. 2008. A Cost-Benefit Analysis of the North Carolina Southern Pine Beetle Prevention Program. 15th Biennial Southern Silvicultural Research Conference, Hot Springs, AK, November.
- Rodriguez, S. L., M. N. Peterson, F. Cabbage and E. Sills. 2009. Exploring Landowner Conceptions of Stewardship, Social Responsibilities and Property Rights. 10th Biennial Conference on Communication and Environment, University of Southern Maine, Portland, Maine.
- Rodriguez, S. L., M. N. Peterson, F. Cabbage and E. Sills. 2009. Assessing the Feasibility of Implementing Conservation Incentive Programs with Private Landowners in North Carolina. The Wildlife Society, 16th Annual Conference Monterey, California.
- Saha, S., E. Sills, S. Pattanayak, and J. Caviglia-Harris, 2008. "Impacts of Social Capital on Natural Capital: Estimating Land Use Choices in the Amazon Frontier" presented by Saha at the AERE sessions of the *Allied Social Science Associations Meeting*, New Orleans, LA January.
- Saha, S., E. Sills, S. Pattanayak, and J. Caviglia-Harris, 2008. Impact of Social Capital on Natural Capital: Farmer Associations, Social Interaction and Land Use Choices in the Amazon Frontier. Midwest International Economic Development Conference, University of Wisconsin, Madison, May.
- Shellabarger, R.M., M.N. Peterson, S.T. Warren, E.O. Sills. 2009. Linking the production and consumption of border enforcement with symbolic acts of conservation and humanitarianism. The 10th Biennial Conference on Communication and Environment. Portland, ME. 27-30 June.

Selected posters (last 10 years)

- Lin, L., E. Sills, S. Pattanayak, S. Atmadja, and J. Streck. 2010. "Sub-national Geography of REDD+ Projects." *ISTF Conference*. Yale University, CT, February.
- Anderson, C. J., M. N. Peterson, E. Sills, D. Cobb, and H. Bondell. 2009. "Assessing willingness of North Carolina hunters and anglers to increase license fees." *16th Annual Conference of the Wildlife Society*, Monterey, California.
- Bigsby, K. P. Tobin, and E. Sills. 2008. "Anthropogenic Influences on Gypsy Moth Dispersal" *Annual Gypsy Moth Review*, Tacoma, WA November.
- Ambrose, M. S. Bauch, K. Bigsby, Y. Wu, E. Sills, and P. Tobin. 2008. "Estimating the Cost of Gypsy Moth Sex in the City" *USDA Interagency Research Forum on Invasive Species*, Annapolis, MD January.
- Atmadja, S. and E. Sills 2008. Meta-Analysis of Deforestation & Poverty: What is the Consensus? *European Association of Environmental and Resource Economists*, Gothenburg, Sweden, June.
- Bauch, S.C., Barroso, M., Sills, E.O. 2008. "Harnessing Rural Radio Networks for Working Forests." *Working Forests in the Tropics*, Gainesville, FL, March.
- Saha, S., E. Sills, J. Caviglia-Harris, and S. Pattanayak. 2008. Can milk markets reduce deforestation? *American Agricultural Economics Association Meetings*, Orlando FL, July.
- Shellabarger, R.M., S.T. Warren, E.O. Sills, M.N. Peterson. 2008. Crossing borders: wildlife conservation and human rights responses to undocumented migration in the Arizona borderlands. *The 15th Annual Meeting of the Wildlife Society*. Miami, FL, 8-12 November.
- Warren, S., E. Sills, and S. Moore. 2007. "New Forestry Outreach Approaches for Limited-Resource, Underserved, and Beginning Landowners." *Outreach Scholarship Conference: Access through Engagement*. Madison, WI, October.
- Sills, E. 2003. "Fair Compensation for Forest Conservation: Subsidizing Rubber in Acre, Brazil." *XII World Forestry Congress*. Quebec City, Canada, September.
- Cassingham, K., E. Sills, S.K. Pattanayak, and C. Mansfield. 2002. "Spatial Assessment of a Voluntary Conservation Program in North Carolina." *Society of American Foresters Convention*. Winston-Salem, NC, October.

OUTREACH PUBLICATIONS

- "Policy Impacts on Deforestation: Lessons from Past Experiences to Inform New Initiatives" Nicholas Institute Policy Brief #09-04, June 2009, with A. Pfaff, G. Amacher, M. Coren, K. Lawlor, and C. Streck.

- “Climate Change and Tropical Deforestation,” included in 2009 compilation of Expert Opinion from UNC System, http://www.nctomorrow.org/content.php/reports_documents/faculty_climate_change_reports.htm
- “Report from ISTF Chapter on Forest Carbon Symposium,” ISTF News, Vol. 29 (4), December 2008, p.7.
- “Forest livelihoods and iron ore mines in Orissa, India” *Sylvanet* V. 19(1) Spring 2006, with J. Miller, S. Saha, and S. Pattanayak.
- “NCSU’s First Graduate Focuses on Agriculture” Masters International Coordinators Newsletter, Issue 3, Fall 2005: 4.
- “Survey Results from NC State University” *PineTips: Newsletter of the Eastern NC Christmas Tree Growers Association*, April 2004, with R. Estevez.
- “Reflections on West Africa” *Sylvanet* V 17(1) Spring 2004, p.17, with S. Pattanayak.
- Tree Tips (non-technical forestry outreach materials): “Getting Started with your Woods,” “Goods from your Woods,” “Getting Help from a Consulting Forester,” “Making Money from Hunting Leases,” “Making a Profit from Pinestraw,” and “Keeping the Family in Family Forest” with S. Warren and others. Published by NC Extension forestry, 2003. Available from <http://www.ncsu.edu/woodlands/forestry.html>
- WoodsWise (non-technical forestry outreach material): “Guide to Consulting Foresters” and “Guide to Selling Timber” with K. Mance, R. Hamilton, S. Moore, R. Bardon, and S. Warren. Published by NC Extension Forestry, 2003. Available from <http://www.ncsu.edu/woodlands/forestry.html>
- “Financing Conservation with Certified Timber: Lessons from Belize” *Sylvanet* V 15(1) Spring 2002, pp.7-9.
- "Survey Examines Organic Farmers' Views of Trees on Farms" *The Temperate Agroforester* V 10 N 4 October 2002, p. 8, with E. Mirrett.
- “What explains legislative voting on the environment?” *The Carolina Conservationist* Summer 2002, p. 5, with C. Ingle.
- "Agroforestry in Paraguay," *Sylvanet* 14(1) 2001: 7-10.
- "Governo da Floresta in Acre, Brazil" *Sylvanet* 13(3) 2000: 3-5.
- "World View: Learning Firsthand about World Forestry," *NC State Bulletin*, Mar 24, 2000: 2.

REVIEWS

Grant proposals for the South Asian Network for Development and Environmental Economics, Sustainable Forest Management Network (Canada), the Council for Development Research (Denmark), the International Foundation for Science (Sweden), the National Science Foundation, USDA National Research Initiative, and the World Bank Development Marketplace; Internal Reviewer for NCSU Proposals to USDA ISE RFP, 2007

Journal articles for *Agroforestry Systems*, *American Journal of Agricultural Economics*, *Ecosystems*, *Ecological Economics*, *Environment and Development Economics*, *Environment Development and Sustainability*, *Environmental Management*, *Forest Economics*, *Forest Science*, *Forest Ecology and Management*, *Forest Policy and Economics*, *Journal of Forest Economics*, *Journal of Leisure Research*, *Natural Resources Forum*, *Policy Sciences*, *Resource and Energy Economics*, and *World Development*.

Book chapters for *Forest Policy for Private Forestry: Global and Regional Challenges* (CABI), *The Economics of Forest Disturbances: Wildfires, Storms, and Invasive Species* (Dordrecht)

INVITED LECTURES

- Co-evolution of deforestation and development: evidence from spatial panel data on the Amazon frontier, Development Economics Seminar Series, University of Wisconsin, March 2008.
- Trazendo benefícios por meio da comercialização dos PFNMs para as comunidades e a cidade, Café Não-Madeireiro, CIFOR, Belém, Brazil, February 2007.
- Bosques, Ambiente, Economía y Sociedad, Public Symposium hosted by Universidad de Concepción, Concepción, Chile, November 2006.
- Impact of the PSA Program on Land Use, World Bank Workshop on EcoMarkets Program, San Jose, Costa Rica, September 2006.
- Impacts of Iron Ore Mining on Livelihoods: Evidence from Orissa, Indian Statistical Institute, Delhi, India, August 2006.
- Evolução da Fronteira: Valor da Terra em Ouro Preto do Oeste, Rondônia, IMAZON, Belém, Brazil, June 2006.

Evolution of an Amazon Forest Frontier: Determinants of Land Value in Rondônia, Brazil, Department of Geography Colloquia on Human-Environment Interactions, University of North Carolina, March 2006.

A Dinâmica da Agropecuária e do Bem-Estar Familiar em Rondônia, Associação dos Produtores Alternativos, Ouro Preto do Oeste, Brazil, July 2005.

Culture, commerce, and conservation in forest fringe communities, Department of Environmental Sciences, University of California, Riverside, October 2004.

Panelist for Seminar on State of the World's Natural Resources, Food and Agriculture, NC State University, October 2002.

Tropical Deforestation: Causes, Consequences, Responses, ENCORE Continuing Education Program, NC State University, April 2002.

Tropical Deforestation, Athens Drive High School and Enloe High School, NC, September and October, 2001.

Ecotourism and Development in Brazil, Duke University Conference "Can Community Development Protect Biodiversity in the Tropics?" NC, March 2001.

Economics of Forest Resources: An Assessment of Non-Timber Benefits in the Tropics, Institute of Life Sciences, Utkal University, India, November 2000.

Deforestation and Global Warming, Peace Lunch Forum, NC State Honors Program, 1999.

Domestic Nature Tourism in Guaraqueçaba, Universidade Livre do Meio Ambiente, PR, Brazil, 1995.

PROFESSIONAL SERVICE

CIFOR (Center for International Forestry Research) Associate Researcher, Scientific Liaison Officer for USAID, and External Advisor for the Poverty Environment Network, Member of Core Research Team designing the Global Comparative Study of REDD+

IMAZON (Instituto do Homem e Meio Ambiente da Amazônia), Associate Researcher, coordinated market research on non-timber forest products, coordinated and co-taught short course on "Forest Economics: Practical Methods for Policy Analysis," to 20 students from 13 different environmental agencies, non-profit organizations, and research institutions in the Brazilian Amazon, June 19-23, 2006.

Southern Roundtable on Sustainable Forests, Steering Committee Member 2003 – 2005

International Society of Tropical Foresters, Country Vice President 2005 - 2006

Research Triangle Institute, consultant (projects including economics of invasive species and weather damages to managed forest)

Nicholas Institute (Duke University), consultant for white paper reviewing lessons for REDD from previous deforestation policy

MEMBERSHIPS

Association of Environmental and Resource Economists

American Agricultural Economics Association

International Society of Tropical Foresters

Phi Beta Kappa Society (1990 -)

Sigma Iota Rho (International, 2002 -)

Sigma Xi (Science, 2002 -)

Xi Sigma Pi (Forestry, 1999 -)

SKILLS & TRAINING

Fluent in Portuguese, good Spanish skills

Familiar with SAS, Limdep, MS Access, Excel, and IMPLAN

Campus Writing and Speaking Program Faculty Seminar (2001)

Group Certification for Forestry Professionals and Assessor Training (2004)

VOLUNTEER ACTIVITIES

Association of Women Faculty, NC State University, Co-Chair 2001 - 2002

Sierra Club Inner City Outings, Raleigh, 2003 – 2005

SWOOP Sister of Strength Award Nominee, 2005