

CHRISTOPHER STEPHEN GALIK

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Summary of Professional Experience

Christopher Galik serves as a Senior Policy Associate in the Duke University Nicholas Institute for Environmental Policy Solutions. His work focuses on the development of state and federal renewable energy and climate policy, including the practical implications of offsets policy design, the intersection of biofuels and climate policy, and the potential use of domestic biomass resources for bioenergy. Within the Institute, Christopher's primary focus is on biological sequestration, bioenergy, and biofuels policy analysis and applied research activities. Recent research includes the influence of project accounting on forest offset supply, the interaction between traditional land conservation programs and emerging biomass and carbon markets, and intersectoral competition for woody biomass in the Southeastern U.S. Christopher is increasingly leveraging his experience to new issue areas and arenas, such as accounting structures used to monitor emission reductions from avoided deforestation activities and evaluation of landowner incentives for at-risk species management. He has published multiple whitepapers, briefs, and online discussion papers, as well as several peer-reviewed articles in journals such as *Land Economics*, *Forest Ecology and Management*, *Journal of Environmental Management*, *Forest Science*, and others. Prior to joining the Institute, Christopher spent several years in Washington D.C. as a policy analyst, specializing in species conservation and federal forest management policy.

Education

Doctor of Philosophy; Forestry and Environmental Resources. North Carolina State University. 2014.
Chair: Erin O. Sills. Dissertation: *Institutional Design and Decision-Maker Response: An Investigation of Environmental Policy and Research*.
Master Of Environmental Management; Resource Economics and Policy. Nicholas School of the Environment, Duke University. 2002.
Bachelor of Arts; *cum laude*, Biology. Vassar College. 1999.

Professional Experience

2011-Present	Nicholas Institute for Environmental Policy Solutions, Duke Univ., Durham, NC. <i>Senior Policy Associate</i>
2006-2011	Nicholas Institute for Environmental Policy Solutions, Duke Univ., Durham, NC. <i>Research Analyst/Research Coordinator</i>
2003-2006	National Association of Home Builders, Washington, D.C. <i>Environmental Policy Analyst</i>
2002-2003	NC State University/U.S. Department of Agriculture, Raleigh, NC. <i>Research Associate</i>
2001	U.S. Department of State, Washington, D.C. <i>Forest Policy Intern</i>

Peer-Reviewed Publications

1. Galik, C.S. (*forthcoming*). Exploring the determinants of emerging bioenergy market participation. *Renewable and Sustainable Energy Reviews*.
2. Galik, C.S., and P. Jagger. 2015. Bundles, duties, and rights: A revised framework for analysis of natural resource property rights regimes. *Land Economics* 91: 76-90.
3. Abt, K.L., R.C. Abt, C.S. Galik, and K.E. Skog. 2014. Effect of policies on pellet production and forests in the U.S. South: a technical document supporting the Forest Service update of the 2010 RPA Assessment. GTR SRS-202, Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 33p.
4. Galik, C.S., B.C. Murray, S. Mitchell, and P. Cottle. 2014. Alternative approaches for addressing non-permanence in carbon projects: an application to afforestation and reforestation under the Clean Development Mechanism. *Mitigation and Adaptation Strategies for Global Change*. doi 10.1007/s11027-014-9573-4.
5. Galik, C.S., B.C. Murray, and D.E. Mercer. 2013. Private forest landowner GHG mitigation in the Southeast: where is the carbon? *Journal of Forestry* 111: 17-25.
6. Olander, L.P., C.S. Galik, and G.A. Kissinger. 2012. Operationalizing REDD+: Scope of Reduced Emissions from Deforestation and Forest Degradation. *Current Opinion in Environmental Sustainability* 4: 661-669.
7. Galik, C.S., D.M. Cooley, and J.S. Baker. 2012. Assessing production and transaction costs of U.S. forest carbon offset projects. *Journal of Environmental Management* 112: 128-136.
8. Galik, C.S., and R.C. Abt. 2012. Forest biomass supply for bioenergy in the southeast: evaluating assessment scale. p255-263 In: McWilliams, W., and F.A. Roesch (eds.). *Monitoring Across Borders: Proceedings of the 2010 Joint Meeting of the Forest Inventory and Analysis (FIA) Symposium and the Southern Mensurationists*. e-GTR SRS-157. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 299p.
9. Abt, K.L., R.C. Abt, and C.S. Galik. 2012. Simulating supply response to bioenergy demands in the Southeastern U.S. *Forest Science* 58: 523-539.
10. Galik, C.S., and D.M. Cooley. 2012. What makes carbon work? A sensitivity analysis of factors affecting forest offset viability. *Forest Science* 58: 540-548.
11. Galik, C.S., and R.C. Abt. 2012. The effect of assessment scale and metric selection on the greenhouse gas benefits of biomass. *Biomass & Bioenergy* 44: 1-7.
12. Olander, L.P., D.M. Cooley, and C.S. Galik. 2012. The potential role for management of U.S. public lands in greenhouse gas mitigation and climate policy. *Environmental Management* 49: 523-533.
13. Cooley, D.M., K. Cousky, C.S. Galik, T. Holmes, and R. Cooke. 2012. Managing dependencies: towards a more complete evaluation of forest offset reversal risk. *Mitigation and Adaptation Strategies for Global Change* 17: 17-24.
14. Foley, T.F., D.deB. Richter, and C.S. Galik. 2009. Extending rotation age for carbon sequestration: a cross-protocol comparison of North American forest offsets. *Forest Ecology and Management* 259: 201-209.
15. Galik, C.S., M.L. Mobley, and D.deB. Richter. 2009. A virtual "field test" of forest management carbon offset protocols: the influence of accounting. *Mitigation and Adaptation Strategies for Global Change* 14: 677-690.
16. Galik, C.S., and R.B. Jackson. 2009. Risks to forest carbon offset projects in a changing climate. *Forest Ecology and Management* 257: 2209-2216.
17. Galik, C.S., R. Abt., and Y. Wu. 2009. Forest biomass supply in the Southeastern United States -- implications for industrial roundwood and bioenergy production. *Journal of Forestry* 107: 69-77.
18. Malmshemer, R.W. (Co-Editor), P. Heffernan (Co-Editor), S. Brink, D. Crandall, F. Deneke, C. Galik, E. Gee, J.A. Helms, N. McClure, M. Mortimer, S. Ruddell, M. Smith, and J. Stewart. 2008. Forest

Management Solutions for Mitigating Climate Change in the United States. *Journal of Forestry* 106:115-173.

Online and Other Papers (Selected)

1. Galik, C.S., and J.T. Bowman. 2014. Empirical Insight into Section 10 Permitting under the Endangered Species Act. Nicholas Institute for Environmental Policy Solutions, Duke University, Durham, NC.
2. Murray, B.C., C.S. Galik, and T. Vegh. 2014. Biogas in the United States: An Assessment of Market Potential in a Carbon-Constrained Future. Nicholas Institute for Environmental Policy Solutions, Duke University, Durham, NC.
3. Galik, C.S., and R.C. Abt. 2013. An Initial Assessment of the Economics, Carbon Scores, and Market Impacts of Selected Woody Feedstock Biomass Systems. Nicholas Institute for Environmental Policy Solutions, Duke University, Durham, NC.
4. Murray, B.C., C.S. Galik, Galik, S. Mitchell, and P. Cottle. 2012. Alternative Approaches to Addressing the Risk of Non-Permanence in Afforestation and Reforestation Projects under the Clean Development Mechanism. Report prepared for the BioCarbon Fund at the World Bank's Carbon Finance Unit by the Nicholas Institute for Environmental Policy Solutions, Duke University, Durham, NC.
5. Galik, C.S. 2012. Biogenic Carbon Accounting: Key Considerations to a Revised Framework. Discussion Draft. Nicholas Institute for Environmental Policy Solutions, Duke University, Durham, NC.
6. Galik, C.S., and R.C. Abt. 2011. An Interactive Assessment of Biomass Demand and Availability in the Southeast United States. Nicholas Institute for Environmental Policy Solutions, Duke University, Durham, NC.
7. Schneck, J.D., B.C. Murray, C.S. Galik, and W.A. Jenkins. 2011. Demand for REDD Carbon Credits: A Primer on Buyers, Markets, and Factors Impacting Prices. Nicholas Institute for Environmental Policy Solutions, Duke University, Durham, NC.
8. Abt, R.C., C.S. Galik, and J.D. Henderson. 2010. The Near-Term Market and Greenhouse Gas Implications of Forest Biomass Utilization in the Southeastern United States. Climate Change Policy Partnership, Duke University, Durham, NC.
9. Olander, L.P., D.M. Cooley, and C.S. Galik. 2010. The Potential Role for Management of Public Lands in Greenhouse Gas Mitigation and Climate Policy. Nicholas Institute for Environmental Policy Solutions, Duke University, Durham, NC.
10. Galik, C.S., J.L. Grinnell, and D.M. Cooley. 2010. The Role of Public Lands in a Low-Carbon Economy. Climate Change Policy Partnership, Duke University, Durham, NC.
11. Galik, C.S., W. Hodgson, C. Raborn, and P. Bean. 2009. Integrating Biofuels into Comprehensive Climate Policy – an Overview of Biofuels Policy Options. Climate Change Policy Partnership, Duke University, Durham, NC.
12. Galik, C.S., J.S. Baker, and J.L. Grinnell. 2009. Transaction Costs and Forest Management Carbon Offset Potential. Climate Change Policy Partnership, Duke University, Durham, NC.
13. Baker, J.S., and C.S. Galik. 2009. Policy Options for the Conservation Reserve Program in a Carbon-Constrained Economy. Climate Change Policy Partnership, Duke University, Durham, NC.
14. Galik, C.S., D.deB. Richter, M.L. Mobley, L.P. Olander, and B.C. Murray. 2008. A Critical Comparison and Simulated "Field Test" of Forest Management Carbon Offset Protocols. Climate Change Policy Partnership, Duke University, Durham, NC.

Posters and Presentations (Selected)

1. Galik, C.S., and P. Jagger. Bundles, Duties, and Rights: A Revised Framework for Analysis of Natural Resource Property Rights Regimes. Workshop on the Ostrom Workshop - WOW5. June 21, 2014. Bloomington, Indiana.
2. Galik, C.S. Integrated Assessment of Wood Bioenergy in the Southeast. Duke University Energy Initiative Workshop. May 7, 2013. Durham, NC.
3. Galik, C.S. Food and Fuel (just part of the picture). Triangle Institute for Security Studies. November 19, 2012. Raleigh, NC.
4. Galik, C.S. Biomass Potential in South Carolina. SCWF Sustainable Biomass Forum. August 7, 2012. Columbia, SC.
5. Galik, C.S., B.C. Murray, and D.E. Mercer. Private Forest Landowner GHG Mitigation in the Southeast: Where is the Carbon? 2012 Southern Forest Economics Workshop (SOFEW) Annual Meeting. March 20, 2012. Charlotte, NC.
6. Galik, C.S., and R.C. Abt. An empirical assessment of woody biomass greenhouse gas accounting perspectives. Society of American Foresters National Convention. November 5, 2011. Honolulu, HI.
7. Galik, C.S., and R.C. Abt. Effects of Using Woody Biomass for Bioelectricity in the Southeastern U.S.: considerations and applications. Forest and Agriculture Modeling Forum, Workshop #6: Forestry, Agriculture & Climate Change: Modeling to Support Policy Analyses. September 29, 2011. Shepherdstown, WV.
8. Galik, C.S. SRTS Research and National Bioenergy Modeling. Southern Forest Resource Assessment Consortium (SOFAC) Annual Meeting. August 9, 2011. Raleigh, NC.
9. Galik, C.S. Low-Carbon Opportunities on Public Lands. U.S. Society for Ecological Economics Conference. June 28, 2011. East Lansing, MI.
10. Galik, C.S., and R.C. Abt. Biomass in the Southeast: Contexts and Complexities. 8th Annual Sustainable Energy Conference. April 26, 2011. Raleigh, NC.
11. Galik, C.S., and D.M. Cooley. What Makes Carbon Work? A Sensitivity Analysis of Factors Affecting Forest Offset Viability. 16th Biennial Southern Silvicultural Research Conference. February 16, 2011. Charleston, SC.
12. D.M. Cooley, C.S. Galik, T.P. Holmes, C. Kousky, and R.M. Cooke. Managing Dependencies: Toward a More Complete Evaluation of Forest Offset Reversal Risk. 16th Biennial Southern Silvicultural Research Conference. February 16, 2011. Charleston, SC.
13. Abt, R.C., and C.S. Galik. Near-Term Market and Greenhouse Gas Implications of Forest Biomass Utilization in the Southeast. USDA/ERS Bioelectricity and GHG Workshop. November 15, 2010. Washington, D.C.
14. Galik, C.S., and R.C. Abt. Examining the Viability of Biomass Co-Firing and Repowering as a Renewable Energy Opportunity in the Southeast. Southeast Biomass Conference and Tradeshow. November 3, 2010. Atlanta, GA.
15. Galik, C.S., and R.C. Abt. Forest Biomass Supply for Bioenergy in the Southeast: Evaluating Assessment Scale. U.S. Forest Service Forest Inventory and Analysis Program (FIA) 2010 Symposium. October 5, 2010. Knoxville, TN.
16. Galik, C.S., R.C. Abt, and J.D. Henderson. National Bioenergy Policy – SRTS Model Applications. Southern Forest Resource Assessment Consortium (SOFAC) Annual Meeting. August 16, 2010. Raleigh, NC.
17. Abt, R.C., and C.S. Galik. Near-Term Market and Greenhouse Gas Implications of Forest Biomass Utilization in the Southeast, Manomet Center for Conservation Biomass Modeling Forum. July 29, 2010. Boston, MA.
18. Galik, C.S. Effective Science-Based Policy: balancing land conservation, biofuels, and climate mitigation objectives. Webinar to Scientists and Engineers for America (SEA) Biofuels Research Committee. February 16, 2010.

19. Galik, C.S. Cellulosic Fuels: related drivers and obstacles, land use change and feedstock competition. 4th Annual Cellulosic Biofuels Summit. November 18, 2009. Washington, D.C.
20. Galik, C.S. Economic Effects of Carbon Offsets on the Forest Industry. Forest and Climate Change Workshop. November 10, 2009. Sewanee, TN.

Honors and Awards (Selected)

Xi Sigma Pi (2014)

Alumni Graduation Speaker, Duke University Nicholas School of the Environment (2011)

Presidential Citation, Society of American Foresters (2009)

Student Graduation Speaker, Duke University Nicholas School of the Environment (2002)

Masters Project Symposium Award, Duke University Nicholas School of the Environment (2002)

Extra Mile Commendation, U.S. Department of State (2001)

Vassar College Graduate Study Fellowship Award (2000-2002)

General and Departmental Honors (Biology), Vassar College (1999)

Working Groups and Affiliations

Member, American Association for the Advancement of Science

Member, Society of American Foresters

Member, Association for Public Policy Analysis and Management

Member, 25x'25 Adaptation Working Group (2011-2013)

Member, Duke University Nicholas School of the Environment Alumni Council. (2009-2012)

Observer, Forest Carbon Standards Committee. (2008-2010)

Member, 25x'25 Carbon Working Group. (2008-2010)

Member, Society of American Foresters Task Force on Climate Change. (2007-2008)

Keystone Center Working Group on Endangered Species Act (ESA) Habitat Issues. (2005-2006)

Professional Service

Journal Review: *Nature Climate Change; Environmental Research Letters; Biomass and Bioenergy; Global Change Biology Bioenergy; Environmental Science and Policy; Environmental Science and Technology; Energy Policy; Journal of Natural Resource Policy Research; Forest Policy and Economics; Mitigation and Adaptation Strategies for Global Change; Canadian Journal of Forest Research; Journal of Forestry; Forests; Plant and Soil; Environment, Development, and Sustainability; Botanica Helvetica*

Research Proposal Review: Binational Agricultural Research and Development Fund; North Carolina Biofuels Center

Courses Taught: ENV 590.75 Applied Environmental Policy Entrepreneurship. Nicholas School of the Environment, Duke University.