

Sean Blacklocke

Water Resources Scientist and Economist

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Education

M.S. Agricultural & Applied Economics

Clemson University
2001

M.S. Environmental Studies

Medical University of South Carolina
1996

B.S. Marine Biology

College of Charleston
1990

Highlights

- Formal academic training and twenty-two years professional experience in applied water resources science, statistics and economics
- Managed multiple studies related to both the United States Clean Water Act and the European Union Water Framework Directive
- Frequent contributions to professional water resources management literature as author and peer reviewer
- Invited guest speaker in fourteen countries throughout the world

Sean Blacklocke provides international consultation on economic, policy and scientific matters related to water resources research and management. His expertise is in leading multi-disciplinary water resources projects and applying microeconomic and econometric analysis to water resources programs and policies. Residing in Dublin, Ireland and Washington, D.C., Sean offers his consulting services to private enterprises, universities, non-profit organizations, and government agencies throughout North America and Europe. Sean draws on twenty-two years of experience in water resources management, having also held positions with CDM (international environmental engineering consultancy), Clemson University's School of the Environment, the South Carolina Department of Health and Environmental Control and the South Carolina Department of Natural Resources.

Work Experience

2008-present. Independent Environmental Consultant

-Project Manager, HYDROFOR Project, University College Dublin (Republic of Ireland). Managing a multi-year, multi-million dollar project to assess the effects of forestry enterprises on Ireland's water resources and to develop alternatives to effectively mitigate those effects. The project is supported by Ireland's Department of Agriculture, Fisheries and Food and the Environmental Protection Agency and is housed jointly in University College Dublin's School of Biology and Environmental Science and its School of Civil, Environmental and Structural Engineering. Project partners include University College Cork, the National University of Ireland - Galway and Ireland's Marine Institute.

-Chairman, International Water Quality Trading Workshop Series, International Water Association. Delivered a series of workshops on water quality trading to delegates of the International Water Association's Annual Diffuse Pollution Specialist Conference. The series began in 2009 in Korea, continued in 2010 in Canada and ended in 2011 in New Zealand. The final product included the submission of a resolution to the European Commission for the formal introduction of water quality trading into Europe's common implementation strategy for implementing the Water Framework Directive.

-Principal Investigator, Political Economy of 'Green Business' in Ireland, Environmental Protection Agency (Republic of Ireland). Drafting a first-of-its-kind report on 'Getting the Incentives Right' in the ongoing development of Ireland's Green Business Initiative, which is led by Ireland's Environmental Protection Agency. The white paper outlines issues critical to the success of such initiatives for small to medium-sized firms and proposes recommendations for programme management tailored to the Irish political economy.

-Subconsultant, Hedonic Pricing Study of Indian River Lagoon, FL Residential Waterfront Properties, Hazen & Sawyer, P.C. Worked as a sub-consultant to economists with the engineering firm Hazen & Sawyer, P.C. to develop a series of econometric models to value waterfront property amenities in the Indian River Lagoon community in Florida. The models were developed via the SAS statistical software package and were incorporated into a larger comprehensive watershed management study.

2003-2008. Project Manager & Senior Economist, Camp Dresser & McKee Inc.

-Lead Economist, Hedonic Pricing Study of Maryland's Residential Coastal Properties, United States Army Corps of Engineers – Baltimore District. Led a team of engineers and economists in developing a series of econometric models to explain and predict the differentials in property values attributable to Maryland's coastal amenities and the impact of erosion on these amenities. The study's models were developed via the SAS statistical software package and presented in part in the ArcMap geographic information software package.

-Project Manager, Further Economic Characterisation of River Basin Districts in Ireland for Water Framework Directive Programmes of Measures Development, Dublin City Council (Republic of Ireland). Piloted Ireland's first ever cost-effectiveness analysis of water pollution control measures and produced Ireland's first draft guidance document on conducting cost-effectiveness analysis of water resources management measures. The work was conducted pursuant to the requirements of the European Union's Water Framework Directive. The pilot cost-effectiveness analysis drew on a comprehensive assessment of European Union and Irish water resources management programmes and regulations.

-Vice Chairman and Trustee, International Conference on Water Framework Directive Implementation, Sponsored by the International Water Association and Engineers Ireland (Republic of Ireland). Co-hosted and coordinated a four-day conference in Dublin, Ireland on implementation of the Water Framework Directive in Europe. The Conference featured 37 guest speakers and nine session chairpersons and was attended by 160 delegates from 16 countries. The event was sponsored by the International Water Association and Engineers Ireland.

-Lead Economist, Eastern River Basin District Project, Dublin City Council (Republic of Ireland). Developed methodologies for and oversaw the applications of the economic analyses required under the European Union's Water Framework Directive in Ireland's Eastern River Basin District. Economic analyses required under the Directive include cost-effectiveness analysis, incidence analysis, economic impact assessments, and cost-benefit analysis. The optimization outputs of the cost-effectiveness analysis of water resources management measures were made usable by the District's river basin managers via the project's web-based river basin management system.

-Project Manager, Economic Characterisation of River Basin Districts in the Republic of Ireland, Galway County Council, Carlow County Council, Limerick County Council, and Cork County Council via respective Regional River Basin District Projects (Republic of Ireland). Drafted summary economic characterisations of river basin districts respectively for four of Ireland's River Basin District Projects, the products of which were published as separate chapters in each Project's river basin district characterisation reports. The reports were required under Article 5 of the European Union's Water Framework Directive. Ireland ranked tops in the European Union for compliance with this reporting requirement.

-Project Manager, Economic Analysis of Water Use in Ireland, Department of the Environment, Heritage and Local Government (Republic of Ireland). Designed and managed a study required of the Republic of Ireland under the European Union's Water Framework Directive. The study provided an overview of the economic benefits and costs associated with the utilization of water resources in Ireland. Benefit estimation work included economic impact assessments and water use valuations of major water users, both nationally and for each river basin district in Ireland. Cost estimates included extensive accounting of the costs and costs recovery associated with the provision of water and sewerage services, as well as estimates of externalised environmental costs due to water pollution. The work also included projections of water demand and costs of water services. In addition to and in the context of this initial overview of current and projected water resources costs and benefits, the study provided a framework for incorporating future economic analyses into Ireland's Water Framework Directive planning and decision-making processes.

-Lead Economist, Santa Clara Valley Water District Water Use and Conservation Baseline Study, Santa Clara Valley Water District. Designed and oversaw the implementation of a study to create a water-use and conservation database for the Santa Clara Valley Water District in California. The work included designing a nonresidential survey study, overseeing the training and activities of onsite surveyors, conducting statistical analysis of survey data, authoring interim and final reports of study findings, and making presentations on the study methodologies and results to the District and a myriad of interested stakeholders.

-Economist, Water Demand Forecast for Puerto Rico, Puerto Rico Water and Sewer Authority. Contributed to a study to develop residential and nonresidential water demand models and make water demand forecasts through the year 2030 for each of Puerto Rico's 78 municipalities. Analysis consisted of a review of previous reports of Puerto Rico water demand and supply (in Spanish) and the construction, application, and explanation of econometric water demand models for Puerto Rico's residential and nonresidential sectors.

-Economist, Water Demand Forecast for the Colorado Statewide Water Supply Initiative, Colorado Water Resources Board. Assisted with a project to identify future potential water supply deficits in the State of Colorado's eight water basins. As a part of this project, CDM generated the water demand forecasts that will be used for the demand side of the study. Work included constructing and applying econometric water demand forecast models for a variety of water uses.

-Economist, Water Demand Forecast Methodology for California Water Planning Areas, California Bay Delta Authority. Contributed to a study to develop a uniform methodology for forecasting future water demands in California counties and planning areas. This work included assimilating large sets of water use data from a variety of databases and constructing econometric water demand forecast models.

-Biologist, California Environmental Water Account Environmental Impact Statement / Environmental Impact Report, U.S. Bureau of Reclamation and the California Bay-Delta Authority. Contributed an analysis to estimate the population impacts to a set of Northern and Central California endangered and potentially endangered species that would likely result under various water allocation scenarios. The contribution was to the California Environmental Water Account / Environmental Impact Statement / Action Specific Implementation Plan, a plan that aims to make dry-weather provisions for water-critical environmental needs while mitigating any consequent water supply impacts on cities, farms and businesses.

1997 -2003. Independent Environmental Consultant

-Principal Investigator, U.S. Environmental Protection Agency Office of Water's Confined Animal Feeding Operations Policy Analysis, Mercatus Center at George Mason University and the Property and Environment Research Center. Completed a comprehensive analysis of the U.S. Environmental Protection Agency's proposed rule to revise effluent limitations and guidelines for confined animal feeding operations. The analysis highlighted the significant net social costs estimated to be associated with the proposed regulations and detailed a non-regulatory alternative that would simultaneously reduce compliance costs by millions of dollars and expedite water quality improvements in agricultural watersheds by several years. The work was published by the Mercatus Center's Regulatory Studies Program, and a non-technical version was published as a book chapter by Rowman and Littlefield Publishers for the Property and Environment Research Center in Montana.

-Principal Investigator, U.S. Environmental Protection Agency Office of Water's Effluent Trading in Watersheds Policy Analysis, the South Carolina Office of Ocean and Coastal Resources Management, the American Farm Bureau Federation, and the Center for Policy and Legal Studies at Clemson University. Conducted a study to estimate the cost-savings and water quality improvements associated with incorporating an effluent trading policy into the South Carolina Pee Dee River total maximum daily load process. Among the findings were potential cost savings of \$1.6 million over the five-year permitting period and a three-percent increase in modeled dissolved oxygen levels at the river's water quality limited stream segment. The final version of the study was published in summarized form as a book chapter by Rowman and Littlefield Publishers.

-Principal Investigator, National Fisheries Observer Program Funding Strategy, National Marine Fisheries Service's Fisheries Statistics and Economics Division.

Prepared an in-house discussion paper on potential alternative funding sources for onboard commercial fisheries management programs (i.e., observer programs) throughout the United States. The analysis revealed a number of viable private-sector funding sources that could supplement or substitute funding for programs currently relying predominantly on general government appropriations.

-Principal Investigator, National Park Service's Yellowstone National Park Snowmobile Ban Policy Analysis, Consortium of snowmobile outfitters in the West Yellowstone Community.

Performed a review of a National Park Service environmental impact statement that recommended a regulatory action alternative to ban snowmobile use in Yellowstone National Park. The review highlighted shortcomings in the Service's cost-benefit and economic impact analyses and ultimately contributed to the Service's reversal of its snowmobile-ban policy and selection of a more environmentally and economically balanced action alternative.

-Principal Investigator, South Carolina Environmental Agencies' Environmental Dispute Resolution Policy Analysis, South Carolina Sea Grant Consortium, South Carolina Sustainable Universities Initiative at the University of South Carolina, and the Strom Thurmond Institute of Government and Public Affairs at Clemson University.

Prepared a series of white papers on the potential for facilitation and mediation to serve as alternatives to South Carolina standard procedures for environmental rule and regulation development, public natural resource allocations, and third-party administrative appeals. South Carolina's environmental agencies have significantly increased their use of mediation and facilitation since the completion and distribution of the papers.

-Editor, Environmental Network Room Web Site, Henry Hazlitt Foundation.

Edited articles related to market-based environmentalism for the Environmental Network Room Web Site, the environmental section of the online publication Free-Market.net.

1997-2001. Assistant to the Director, Clemson University's School of the Environment - Environmental Science & Policy Program.

Assisted with the administration of the University's Environmental Science and Policy degree program and hosted the University's Environmental Policy Forum series.

1992-1997. Policy Analyst, Regulatory Inspector, and Field and Laboratory Technician. South Carolina Department of Health and Environmental Control.

As a policy analyst, researched policies for establishing market-based water pollution permit allocations in South Carolina. As a regulatory inspector, inspected operations of wastewater treatment plants for regulatory compliance; investigated fish kills, storm water runoff pollution problems, and toxic spills; reviewed storm water pollution prevention plans and inspected marinas and construction sites for regulatory compliance. And as a field and laboratory technician, monitored and

analyzed wastewater effluents and river, stream, lake, and estuary water quality and measured, calculated, and reported stream flows.

1991-1992. Contract Fisheries Biologist, National Marine Fisheries Service.

Reviewed logbooks and inspected commercial fishing operations for regulatory compliance; sampled, identified and catalogued north Pacific marine mammals, fin fish, and invertebrates; and calculated and reported fishery statistical data for fish stock impact assessments.

1989-1991. Research Assistant, South Carolina Department of Natural Resources.

Sampled, identified, and catalogued north Atlantic fin fish and invertebrates; calculated fishery statistical data for final reports; charted migrations of radio-tagged fin fish by air and sea; monitored water quality in rivers, streams, estuaries, cultured ponds, and aquariums; monitored juvenile fish-feeding bioassay; and cultured, radio-tagged, and restocked fin fish to wild populations.

Selected Publications and Presentations

Earle, R., S. Blacklocke, et al. (2011) “Integrating the Implementation of the European Union Water Framework Directive and Floods Directive in Ireland.” *Water Science and Technology*, Vol. 64, No.10, pp. 2044–2051.

Blacklocke, S. (2011) “Addressing eutrophication without additional land use regulation.” Presentation to the Queenstown Lakes District Council, Queenstown, New Zealand (September).

Blacklocke, S. (2011) “Defining spatial relationships between common forestry operations and surface water quality in Ireland.” Presentation and proceedings for the 15th Annual International Water Association’s Diffuse Pollution Specialist Group Conference, Rotorua, New Zealand (September).

Blacklocke, S. (2011) “Predicting the effects of common forestry operations on water quality in Ireland.” Presentation to the Jönköping County Administrative Board, Jönköping, Sweden (August).

Joyce, J., D. Collentine and S. Blacklocke (2011) “Conducting cost-effectiveness analysis to identify potential buyers and sellers of water pollution control credits to initiate water quality trades.” *Issues and Solutions to Diffuse Pollution*. International Water Association and Organisation for Economic Cooperation and Development, von Bochove, E. et al. (eds.), Chapter 4, pp. 298-307.

Blacklocke, S. and R. Earle (2011) “Emerging economic instruments for addressing diffuse pollution.” *Issues and Solutions to Diffuse Pollution*. International Water Association and Organisation for Economic Cooperation and Development, von Bochove, E. et al. (eds.), Chapter 4, pp. 250-261.

Evans, B., H. Zhang, S. Blacklocke., et al. (2011) "Engineering assessments, monitoring and modelling of effluent and diffuse pollution discharges pursuant to establishing a water quality trading program or policy." Issues and Solutions to Diffuse Pollution. International Water Association and Organisation for Economic Cooperation and Development, von Bochove, E. et al. (eds.), Chapter 4, pp. 285-297.

Blacklocke, S. (2010) "Diffuse versus point source control: River basin phosphorous accounting." Presentation to the Workshop on Phosphorous Management in the Water Cycle, International Water Association World Water Congress and Exhibition, Montréal, Canada (September).

Blacklocke, S. (2010) "Emerging economic instruments for addressing diffuse pollution." Keynote Presentation to the Economics Session delegates of the 14th Annual International Water Association's Diffuse Pollution Specialty Group Conference, Beaupré, Québec, Canada (September).

Blacklocke, S. et al. (2010) "An Assessment of Spatial Statistical Techniques to Inform the Development of Empirical Models for the Prediction of Forestry Practice Impacts on Surface Waters in Ireland." Presentation and proceedings for the 14th Annual International Water Association's Diffuse Pollution Specialist Group Conference, Beaupré, Québec, Canada (September).

Blacklocke, S. (2010) "Water Quality Trading...in Europe?" Presentation for the Water Quality Trading Workshop of the European Water Governance: challenges for Spatial Planning, Law and Economics Conference, Utrecht University, Utrecht, the Netherlands (January).

Blacklocke, S. (2009) "Tapping old knowledge trees and growing new ones: the HYDROFOR Project strategy for developing predictive models of forest and water interactions in Ireland". Presentation and proceedings for the International Water Association's 13th International Specialized Conference on Diffuse Pollution and Sustainable Basin Management, Seoul, South Korea (October).

Blacklocke, S. (2009) "Development of Regression Models to Predict Forestry Impacts on Aquatic Ecology and Effectiveness of Mitigation Measures: The HYDROFOR Strategy." Presentation to the Environmental Sciences Association of Ireland's ENVIRON '09 Annual Conference, Waterford, Ireland (February).

Blacklocke, S. and R. Earle (2008) "Fundamental Characteristics of Successful Water Quality Trading Programs" Presentation and proceedings for the International Water Association's 12th International Specialized Conference on Diffuse Pollution and Sustainable Basin Management, Khon Kaen, Thailand (September).

Earle, R. and S. Blacklocke (2008) "Water Framework Directive in Ireland -- Master Plan for all WFD activities in Ireland leading to River Basin Management Plans." *Desalination*, vol. 226.

Blacklocke, S. (2007) "Dynamic costing of water pollution control measures in an ISO 14001 framework". Presentation and proceedings for the Water Environment Federation's WEFTEC 2007 Conference, San Diego, California, USA (October).

Blacklocke, S. (2007) "The Polluter Pays Principle in United States and European Union river basin management: Bootleggers and Baptists?" Poster and proceedings for the Nature Conservancy's and the Queensland Government's 10th International River Symposium and Environmental Flows Conference, Brisbane, Australia (September).

Blacklocke, S. and R. Earle (2007) "The Polluter Pays Principle in United States and European Union river basin management: An analysis of relative conformance". Presentation and proceedings for the International Water Association's 11th International Specialized Conference on Diffuse Pollution and Sustainable Basin Management, Belo Horizonte, Brazil (August).

Earle, R. and S. Blacklocke (2007) "The Water Framework Directive and Institutional Alternatives for Future Water Resources Management in Ireland." Presentation and proceedings for the International Water Association's 11th International Specialized Conference on Diffuse Pollution and Sustainable Basin Management, Belo Horizonte, Brazil (August).

Blacklocke, S. (2007) "The Business Case for Water Framework Directive Economics." Presentation and proceedings for the joint International Water Association / Engineers Ireland International Conference on Water Framework Directive Implementation, Dublin, Ireland (May).

Blacklocke, S. (2006) "Further Economics for Water Framework Directive Compliance in Ireland – Final Report". CDM Report submitted to Dublin City Council and the Department of the Environment, Heritage and Local Government (Ireland) (November).

Blacklocke, S. and R. Earle (2006) "Web-enabled cost-effectiveness analysis of water pollution control measures: Ireland's Eastern River Basin District Project measures selection tool." Presentation and proceedings for the International Water Association's 10th International Specialized Conference on Diffuse Pollution and Sustainable Basin Management, Istanbul, Turkey (September).

Earle, R. and S. Blacklocke (2006) "Water Framework Directive in Ireland -- Master Plan for all WFD activities in Ireland leading to River Basin Management Plans." Presentation and proceedings for the International Water Association's 10th International Specialized Conference on Diffuse Pollution and Sustainable Basin Management, Istanbul, Turkey (September).

Blacklocke, S. (2006) "Adapting to Changes in Water Pollution Control Measures: Ireland's Eastern River Basin District Approach." Presentation for the American Water Resources Association's 2006 Summer Specialty Conference on Adaptive Management of Water Resources, Missoula, Montana, USA (June).

Blacklocke, S., et al. (2006) "Cost-Effective Programmes of Measures: Theory versus Reality." Presentation and proceedings for the Joint Scottish Environmental Protection Agency and Scottish Agricultural College Biennial Agriculture and the Environment: Managing Rural Diffuse Pollution Conference, Edinburgh, Scotland, United Kingdom (April).

Blacklocke, S. (2006) "Shannon River Basin District: Characterisation and Analysis, Summary Report." Report of the Shannon River Basin District Project, Limerick, Republic of Ireland, Chapter 5 - Economic Analysis of Water Use (March).

Blacklocke, S. (2005) "Western River Basin District Management System, Article 5 Characterisation: Summary Report." Report of the Western River Basin District Project, Galway, Republic of Ireland, Chapter 5 – Economics (December).

Blacklocke, S. et al. (2005) "A Future for Our Waters." Report of the South Western River Basin District Project, Cork, Republic of Ireland, Chapter 5 – Economic Analysis of Water Use (December).

Blacklocke, S. and B. Dziegielewski (2005) "The U.S. Environmental Protection Agency's Water Quality Trading Policy: New Opportunities for Environmental Advocacy Groups?" Presentation and proceedings for the Water Environment Federation's WEFTEC 2005 Conference, Washington, DC, USA (November).

Blacklocke, S. (2005) "Eastern River Basin District Project: Final Characterisation." Report of the Eastern River Basin District Project (Ireland), Section 10 – Economic Analysis of Water Use (September).

Earle, R. and S. Blacklocke (2005) "Implementing the EU Water Framework Directive in the Irish Eastern River Basin District: Waterbody Characterisation, Stakeholder Involvement and the Role of Public Consultation" Presentation and proceedings for the International Water Association's Diffuse Pollution Specialist Conference, Johannesburg, South Africa (August).

Blacklocke, S., et al. (2005) "The Next Step: Integrating Economics into Water Framework Directive Programmes of Measures", Presentation and proceedings for the Institution of Civil Engineers' (United Kingdom) River Basin Management: Progress Towards Implementation of the European Union's Water Framework Directive Conference, Budapest, Hungary (May).

Opitz, E., Kiefer, J., Imwiko, A., Blacklocke, S. et al. (2005) Santa Clara Valley Water District Commercial, Institutional and Industrial Water Use and Conservation Baseline Study - Final Report. CDM Report submitted to Santa Clara Valley Water District, California, USA (April).

Earle, R. and S. Blacklocke (2005) "Implementing the Water Framework Directive in the Eastern River Basin District: Executing a Revolutionary Policy with Leading-Edge Applications," Presentation for the Institution of Engineers of Ireland Lecture and Sector Paper Series, Dublin (Water and Environment Section jointly with Local Government Section) and Cavan (North-East Region), Ireland (March).

Blacklocke, S. and A. Hooper (2005) Article 5 - The Characterisation and Analysis of Ireland's River Basin Districts. A report submitted to the European Commission in accordance with Section 7(2 & 3) of the European Communities (Water Policy) Regulations 2003 (SI 722 of 2003 - Republic of Ireland), Chapter 5 - Economic Analysis. CDM report submitted to the Environmental Protection Agency of the Republic of Ireland. Dublin, Ireland (March).

Earle, R. and S. Blacklocke (2005) "Implementation of the Water Framework Directive in Ireland," Presentation to the International Water Association's Making Good Regulation for Environmental Protection Conference, Cardiff, Wales, United Kingdom (February).

Blacklocke, S. and B. Dziegielewski (2005) "The U.S. Environmental Protection Agency's Water Quality Trading Policy: New Opportunities for Environmental Advocacy Groups?" American Water Resources Association – Watershed Update, vol. 3, no. 1. (March).

Blacklocke, S. et al. (2004) Economic Analysis of Water Use in Ireland. CDM report submitted to the Department of the Environment, Heritage and Local Government of the Republic of Ireland. Dublin, Ireland (October).

Davis, W., Christiansen, W., Blacklocke, S., and J. Berlin (2004) Colorado Statewide Water Supply Initiative - Water Demand Forecast. CDM report submitted to the Colorado Statewide Water Supply Initiative of the Colorado Water Conservation Board (August).

Yandle, B. and S. Blacklocke (2003) "Regulating Confined Animal Feeding Operations: Internalization or Cartelization?" Agricultural Policy and the Environment, Roger Meiners and Bruce Yandle, eds, Lanham, Maryland, USA: Rowman and Littlefield Publishers, Chapter 3.

Blacklocke, S. (2003) "Alternative Environmental Dispute Resolution in South Carolina: Emerging Opportunities to Build More Sustainable Communities", *The ICFAI Journal of Environmental Law*, Vol. II No. 2 (April).

Blacklocke, S. (2001) "EPA's CAFO Rule," Public Interest Comment Series, Regulatory Studies Program, Mercatus Center at George Mason University, Arlington, Virginia, USA (July).

Blacklocke, S. (2001) "Alternative Environmental Dispute Resolution in South Carolina: Emerging Opportunities to Build More Sustainable Communities." Mediation Information and Resource Center (April).

Blacklocke, S. (2001) "A Free-Market Alternative to Providing Environmental Answers and Agreements in U.S. Watersheds," Presentation for the Political Economy Research Center – Kinship Conservation Institute, Bozeman, Montana, USA (June).

Blacklocke, S. (2000) "The South Carolina Prime Lands Initiative: Investigating the Public Benefits of Agricultural and Forested Land," Presentation for Clemson University Public Service Activities In-Service Training on Farmland Protection and Retention, Columbia, South Carolina, USA (February).

Blacklocke, S. (2000) "Environmental Policymaking in South Carolina: Thoughts on Consensus, Collaboration, and Competition." The Opinion Page, Strom Thurmond Institute of Government and Public Affairs.

Blacklocke, S. (1999) "Effluent Trading in South Carolina: Pee Dee River Case Study." The Market Meets the Environment: Economic Analysis of Environmental Policy, Bruce Yandle, ed., Lanham, Maryland, USA: Rowman & Littlefield Publishers, Chapter 8.

Blacklocke, S. (1999) "Rationale for the Planned Inclusion of South Carolina's Major Research Universities in Future State Alternative Environmental Dispute Resolution Initiatives." The Opinion Page, Strom Thurmond Institute of Government and Public Affairs.

Blacklocke, S. (1999) "Coastal Permitting Authority in South Carolina," Clemson University Environmental Science and Policy Program, South Carolina Environmental Policy Briefs (September).

Blacklocke, S. (1999) "Alternative Environmental Dispute Resolution in South Carolina," Clemson University Environmental Science and Policy Program, South Carolina Environmental Policy Briefs (August).

Blacklocke, S. (1999) "South Carolina's Major Research Universities and Alternative Environmental Dispute Resolution Initiatives," Presentation to the Advisory Committee of the South Carolina Environmental Conflict Management Project, Columbia, South Carolina, USA (August).

Blacklocke, S. (1999) "Environmental Justice in South Carolina," Clemson University Environmental Science and Policy Program, South Carolina Environmental Policy Briefs (July).

Blacklocke, S. (1999) "Regulatory Takings in South Carolina," Clemson University Environmental Science and Policy Program, South Carolina Environmental Policy Briefs (July).

Blacklocke, S. (1999) "Environmental Regulatory Reform in South Carolina," Clemson University Environmental Science and Policy Program, South Carolina Environmental Policy Briefs (July).

Blacklocke, S. (1999) "Land-Use Planning and the Emergence of Public-Private Markets for Open Space in South Carolina," Presentation to the Land-Use Task Force Workshop of the South Carolina Forestry Association, Columbia, South Carolina, USA (May).

Blacklocke, S. (1999) "Comprehensive Land Use Planning in South Carolina: Addressing New Challenges in Allocating Resources." *The Opinion Page*, Strom Thurmond Institute of Government and Public Affairs.

Blacklocke, S. (1999) "An Inquiry into the Rationale for New Animal Agriculture Regulations in South Carolina," Presentation to the Annual South Carolina Water and Environment Symposium, University of South Carolina, Columbia, South Carolina, USA (April).

Blacklocke, S. (1999) "Considerations in Addressing Urban Sprawl in South Carolina." *The Opinion Page*, Strom Thurmond Institute of Government and Public Affairs.

Blacklocke, S. (1999) "Regulating Animal Agriculture in America: Who Benefits?" Presentation to the Annual Conference of the American Farm Bureau Federation, Albuquerque, New Mexico, USA (January).

Blacklocke, S. (1998) "The 1998 Clean Water Initiative: Regulating Every Acre of Occupied Land in America?" *The Opinion Page*, Strom Thurmond Institute of Government and Public Affairs.

Blacklocke, S. (1998) "Opportunities for Wetland Valuation and Construction Projects in South Carolina," Presentation for Seminar Series of the Clemson University Institute for Wildlife and Environmental Toxicology, Clemson University, Clemson, South Carolina, USA (September).

Blacklocke, S. (1998) "Settling Conservation-Development Disputes in South Carolina: A Paradox in the Value of Positive Personal Relationships," *The Resolution Report: Newsletter of the South Carolina Council for Conflict Resolution* (Fall/Winter): 12.

Blacklocke, S. (1998) "Mediating Environmental Disputes in South Carolina," Presentation to the Annual Conference of the South Carolina Council for Conflict Resolution, Folly Beach, South Carolina, USA (October).

Blacklocke, S. (1998) "Now Is a Good Time for Consensus-Building in South Carolina Public Policymaking," *The Opinion Page*, Strom Thurmond Institute of Government and Public Affairs.

Blacklocke, S. (1998) "Reallocating Resources to Improve Water Quality and Promote Economic Development in South Carolina," Presentation to the Annual Conference of the South Carolina Water Pollution Control Association, Myrtle Beach, South Carolina, USA (April).

Blacklocke, S., (1998) "Land-Use Planning in South Carolina: Conserving Rights, Resources, and Revenues," *Insight: Work of the Strom Thurmond Institute* 2(4): 2-6.

Blacklocke, S. (1998) "Farm and Forestland Protection Legislation in South Carolina," *Insight: Work of the Strom Thurmond Institute*: 2-12.

Blacklocke, S. (1997) "Reallocating Resources to Improve Water Quality and Promote Economic Development in Watersheds," Hearings of the State of Kansas' Governor's Commission on Surface Water Quality, Wichita, Kansas, USA (November).

Blacklocke, S. (1997) "Effluent Trading in South Carolina: Pee Dee River Case Study," Presentation to the Annual Pretreatment Technology Conference of the South Carolina Water Pollution Control Association, Hilton Head Island, South Carolina, USA (September).