



The Evolution of Ecosystem Based Management: From Theory to Practice



6th MARINE LAW SYMPOSIUM
5th ANNUAL SEA GRANT SCIENCE SYMPOSIUM



October 19 - 20, 2006
Roger Williams University School of Law



The Evolution of Ecosystem Based Management: From Theory to Practice



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WELCOME!

On behalf of Roger Williams University Ralph R. Papitto School of Law, welcome to the 6th Marine Law Symposium, The Evolution of Ecosystem Based Management: From Theory to Practice. This year's symposium has joined with the 5th Annual Sea Grant Science Symposium to broaden the individual focus of these biennial legal symposia to include policy and scientific analysis. Sea Grant Science Symposia provide a forum for researchers, resource managers, and stakeholders to discuss the state of the science in various areas important to Rhode Island coastal communities, ecosystems, fisheries, and beyond.

This year, the symposium builds on ocean policy issues presented at the 2004 Marine Law Symposium, which focused on analysis and implementation of the Ocean Commission and Pew Commission Reports. Both commissions recommended the implementation of ecosystem based management to better manage the nation's marine resources. As our panelists will share, ecosystem based management is not new; elements have been used in the Chesapeake Bay, Great Lakes, and other regions and countries for decades. Now, advances in knowledge, technology, and governance and new partnerships make many of our coastal areas ripe for implementation of this comprehensive approach to marine resource management.

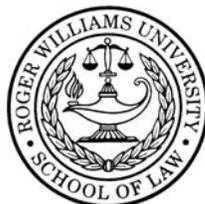
For the next two days, leaders implementing ecosystem based management on large and small scales will present their experiences, highlighting successes, lessons, and next steps. We welcome three keynote speakers who will place ecosystem based management in a larger social context through discussion of ethical considerations, the role of scientific research, and legal and policy considerations. We are fortunate that members of the private and nonprofit sectors will join us to share their perspectives, adding to the base of knowledge for ecosystem based marine resource management regimes.

Many thanks are due to numerous people and entities that assisted in crafting and executing the symposium. Thanks are due to the Rhode Island Sea Grant Program and the University of Rhode Island Department of Marine Affairs which offered planning services and financial support. Also, I want to extend my sincerest thanks to the dedicated and creative Symposium Planning Committee, whose energy and thought created an excellent program, and to Charlotte Ferris and Chelsie Horne of Roger Williams University School of Law, whose tireless work and attention to detail made the event possible.

Thank you for your attendance and participation. We are pleased to have you with us and look forward to working with you as ocean and coastal communities implement ecosystem based management.

Sincerely,

Kristen M. Fletcher
Director, Marine Affairs Institute and Rhode Island Sea Grant Legal Program
Roger Williams University School of Law





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AGENDA

Thursday, October 19, 2006

7:30 a.m.

Registration Opens

Roger Williams University School of Law, 2nd Floor

7:30 – 8:30 a.m.

Continental Breakfast

8:30 – 9:30 a.m.

Welcome

Dean David Logan, Roger Williams University School of Law

Barry Costa-Pierce, Rhode Island Sea Grant

Kristen M. Fletcher, Marine Affairs Institute

Opening Keynote Address: Dorinda G. Dallmeyer

Director, Environmental Ethics Certificate Program

University of Georgia

The Environmental Ethics of Ecosystem Based Management

10:00 a.m. – Noon

Panel I: Approaches to Ecosystem Based Management

Moderator: Kristen M. Fletcher, Marine Affairs Institute

Panel I briefly introduces the principles of ecosystem based management (EBM) and offers detailed perspectives on the essential elements of and tools for the shift toward EBM.

Panelists will address components of EBM implemented in their regions and those issues they have encountered that are lessons for other regions.

Great Lakes Perspective

Anders W. Andren

Director, Wisconsin Sea Grant

Chesapeake Bay Perspective

William C. Dennison

Vice President for Science Applications, University of Maryland Center for Environmental Science

Buzzards Bay Perspective:

Comparison of Strategies for Managing Nitrogen and Stormwater Inputs to Coastal Waters in an Evolving Regulatory Landscape

Joseph E. Costa

Executive Director, Buzzards Bay National Estuary Program

Noon – 1:00 p.m.

Lunch (*Bagged Lunches – Bay View Room*)



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6th MARINE LAW SYMPOSIUM ◆ 5th ANNUAL SEA GRANT SCIENCE SYMPOSIUM ◆ OCTOBER 19 - 20, 2006

Thursday, October 19, 2006 (continued)

1:15 – 3:15 p.m.

Panel II: Essential Elements of Ecosystem Based Management
Moderator: Tracey Morin Dalton, University of Rhode Island

Given the mature examples of ecosystem based management and implementation challenges offered by Panel I, Panel II offers perspectives on the essential elements for implementing EBM given today's technology, political climate, and funding challenges, focusing on the shortcomings of current management approaches and how an ecosystem based approach is timely for specific issues. Panelists will describe the key drivers, tools, and challenges behind the current movement toward EBM.

Using Marine Regional Planning Tools to Balance Multiple Objectives in Ecosystem Based Management

Michael W. Beck

Senior Scientist, The Nature Conservancy Global Marine Initiative

Bioregional & Local Range Management

Kevin McAleese

Program Director, Community Based Conservation Network-North America
Sand County Foundation

Ocean Planning in Massachusetts: Working Toward an Ecosystem Based Management Approach

Susan Snow-Cotter

Director, Massachusetts Office of Coastal Zone Management

Kate Killerlain Morrison

Ocean Policy Analyst, Massachusetts Office of Coastal Zone Management

3:15 – 3:30 p.m.

Break

3:30 – 4:30 p.m.

Keynote Address: Ronald C. Baird

Research Professor, University of North Carolina Wilmington

Best Available Science to Support Ecosystem Based Management

6:00 – 6:30 p.m.

Reception

Linden Place, Bristol, RI

Please see page 13 for directions to Linden Place.

6:30 – 9:00 p.m.

New England Seafood Dinner

Linden Place, Bristol, RI



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Friday, October 20, 2006

8:00 – 9:00 a.m. **Continental Breakfast**
Roger Williams University School of Law, 2nd Floor

9:00 – 10:00 a.m. **Keynote Address: Kim Diana Connolly**
Associate Professor of Law, University of South Carolina School of Law
Ecosystem Based Fisheries Management: Not Yet Ready for Regulatory Primetime

10:00 a.m. – Noon **Panel III: Additional Perspectives on Ecosystem Based Management**
Moderator: Dennis W. Nixon, University of Rhode Island

Panel III presents perspectives on EBM and integrated management from various sectors focusing on the detriments and benefits of EBM and the role of the market and private sector.

The Role of Environmental Labeling & Certification in Ecosystem Based Management

Cathy A. Roheim

Professor, University of Rhode Island and Marine Stewardship Council

The Marine Trades Perspective

Michael Keyworth

Vice President and General Manager, Brewer Cove Haven Marina

The Role of Special Area Management Planning

Jennifer McCann

Coastal Management Extension Specialist, Rhode Island Sea Grant

Noon – 1:00 p.m. **Lunch** (*Bagged lunches -- Bay View Room*)

1:15 – 3:30 p.m. **Panel IV: Facilitated Discussion on Next Steps**
Facilitator: Christophe A.G. Tulou, Christophe Tulou Associates

Panel IV pulls together panelists who are galvanizing EBM across the United States for a facilitated discussion on lessons and next steps. Panelists, in concert with symposium participants, will prepare a synthesis of lessons and successes of EBM and determine necessary next steps for our community to implement EBM.

Discussants: Russell A. Moll, California Sea Grant

David Keeley, Gulf of Maine Council

Please visit the symposium website (<http://law.rwu.edu/sites/marineaffairs/symposia/sixthMLS.aspx>) for EBM related documents, links to recent events and select presentations and papers from the symposium.



KEYNOTE SPEAKERS



Dorinda G. Dallmeyer
University of Georgia

Dorinda G. Dallmeyer is the Director of the Environmental Ethics Certificate Program at the University of Georgia. A native of Macon, Georgia, she holds three degrees from the University of Georgia: B.S. and M.S. degrees in Geology and a J.D. Prior to attending law school, for over three years, she conducted research in tropical marine biology and ecology and collaborated on many scientific articles. Her research has taken her to the Great Barrier Reef, U.S. Virgin Islands, and Jamaica, including a week-long saturation dive in the underwater habitat HYDROLAB.

Immediately after graduation from law school in 1984, she joined the staff of the Dean Rusk Center for International Law. Over the course of her 21-year career there, her primary research areas crossed a broad spectrum of international law, with a particular emphasis on the role of negotiation and dispute resolution. Her research has been supported by grants from the MacArthur Foundation, the U.S. Institute of Peace, the Ford Foundation, the Canadian Embassy, the National Science Foundation, and the Hewlett Foundation. Among other titles, Ms. Dallmeyer has edited books on civilian uses of space, globalization and environmental ethics, the negotiation of maritime boundary disputes, and marine environmental ethics. In 2005, she was appointed by the Ocean Studies Board of the National Research Council to a nine-member committee evaluating the impact of fisheries on coastal and ocean ecosystems. Also in 2005, she received the Phillip Reed Memorial Award for Outstanding Writing about the Southern Environment in recognition of her edited anthology “Elemental South.”

Ms. Dallmeyer is a member of the Council on Foreign Relations, past vice-president of the American Society of International Law, and a member of the American Bar Association. At the University of Georgia, she teaches courses in environmental dispute resolution and marine environmental ethics.



Ronald C. Baird
University of North Carolina Wilmington

Ronald C. Baird is a Research Professor at the University of North Carolina Wilmington’s Center for Marine Science. He previously served as Director of the National Sea Grant College Program and Associate Director for Ocean Research of the Office of Oceanic and Atmospheric Research (OAR), the National Oceanic and Atmospheric Administration’s principal line office for research.

Dr. Baird brings a background in science, business, and academic administration to his position at UNCW. He holds a Ph.D. in Biology from Harvard University, an M.A. in Zoology from the University of Texas at Austin, and a B.S. in Zoology from Yale University. He served as Vice President of University Relations and Director of Corporate Relations at Worcester Polytechnic Institute (WPI), the nation’s third oldest engineering college, and was appointed by the Secretary of Commerce to the National Sea Grant Review Panel, serving as its chair from 1992—1994. Dr. Baird was President and a Director of Schuster Corporation, an investment holding company, and also served as Director of Research at Geo-Marine, Inc., an engineering and environmental consulting firm in Dallas, Texas.



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6th MARINE LAW SYMPOSIUM ◆ 5th ANNUAL SEA GRANT SCIENCE SYMPOSIUM ◆ OCTOBER 19 - 20, 2006

Dr. Baird spent nine years as a Professor of Marine Science at the University of South Florida in St. Petersburg. His published works include contributions to the biology of deep-sea fishes, encounter theory, and natural resource management. He is a lifetime member of Sigma Xi and a fellow of the American Institute of Fisheries Research Biologists. In 2000, he received the Presidential Rank Award for helping position the U.S. as a world leader in marine research and the sustainable development of coastal resources.



Kim Diana Connolly
University of South Carolina School of Law

Kim Diana Connolly directs the Environmental Law Clinic at the University of South Carolina School of Law where she teaches Introduction to Environmental Law and Policy, Environmental Advocacy, Legislation, and Interviewing, Counseling and Negotiating. She is also a member of the summer faculty at Vermont Law School where she teaches Wetlands Law and Policy. Her areas of scholarly interest include natural resources and public lands law, as well as law teaching methodology. Professor Connolly's scholarly works have appeared in *The Catholic University Law Review*, *The Washington University Journal of Law and Policy*, *The Vermont Journal of Environmental Law*, *The Southeastern Environmental Law Journal*, *The Law Teacher*, and other publications. She speaks regularly at national and international conferences. Professor Connolly is also an associate faculty member of the University of South Carolina School of the Environment.

Before joining the law faculty in 1999, Professor Connolly worked as an associate at a number of Washington, D.C. law firm environmental law practice groups. She received her J.D. *magna cum laude* in 1993 from Georgetown University Law Center, and is an LL.M. candidate at the George Washington University Law School Environmental Law Program. Professor Connolly conducted her undergraduate work in chemistry at the University of North Carolina at Chapel Hill, where she was a Morehead Scholar. Prior to law school, Professor Connolly was the director of the North Carolina Rural Communities Assistance Project, Inc., and also served as a VISTA volunteer.

PANELISTS



Anders W. Andren
University of Wisconsin, Wisconsin Sea Grant

Anders W. Andren is Director of the University of Wisconsin Aquatic Sciences Center and its Sea Grant Institute and Water Resources Institute which support multidisciplinary research, education, and outreach for the protection and sustainable use of Wisconsin's water resources. He serves as Chair of the Sea Grant Association Program Mission Committee and Chair-elect for the National Institutes of Water Resources. A Professor of Environmental Chemistry and Technology in the Department of Civil and Environmental Engineering at the University of Wisconsin-Madison, Dr. Andren also teaches and conducts research on aquatic chemistry. He received a Ph.D. and M.S. in Chemical Oceanography from Florida State University and a B.S. from Uppsala University.



Michael W. Beck
The Nature Conservancy Global Marine Initiative
University of California Santa Cruz

Michael W. Beck is a Senior Scientist with the Global Marine Initiative of The Nature Conservancy and a Research Associate at the University of California Santa Cruz. His current research for The Nature Conservancy focuses on the areas of marine ecoregional planning and marine policy. In marine ecoregional planning, he works to develop methods for identifying high priority sites for marine conservation and has either led or been a team member on plans for the northern Gulf of Mexico; Cook Inlet, Alaska; Puget Sound and Georgia Straits (Washington and British Columbia); Southern California; Northeast Pacific (Oregon, Washington, British Columbia and Alaska); Southeast Atlantic (North Carolina, South Carolina, Georgia and Florida); and Greater & Lesser Antilles. In marine policy, Dr. Beck focuses on the development of new strategies for marine conservation, such as the leasing and ownership of submerged lands. Dr. Beck holds a Ph.D. in Biological Science from Florida State University and a M.S. and B.A. from the University of Virginia, both in Environmental Sciences.



Joseph E. Costa
Buzzards Bay National Estuary Program

Joseph E. Costa is Executive Director of the Buzzards Bay National Estuary Program, a planning and technical assistance unit of Massachusetts Coastal Zone Management. He has held this position since 1989. Dr. Costa received his B.S. from the University of California at Berkeley, and a Ph.D. from the Boston University Marine Program in Woods Hole. His graduate and postdoctoral research focused on the impacts of coastal development on water quality and coastal habitat, especially those impacts caused by nitrogen inputs, such as loss of eelgrass habitat. Dr. Costa helped establish and design the Buzzards Bay Citizens' Water Quality Monitoring Program and the Massachusetts Alternative Septic System Test Center. He is the author of both lay and technical reports and articles, and has been an author or coauthor on scientific publications.

Dr. Costa's current duties include program development and oversight, review of technical reports, coordination of projects among state, federal, and local regulatory and non-regulatory agencies, and the formulation of state environmental coastal policies. Together with a technically focused program staff, he has helped the Buzzards Bay NEP successfully develop and implement many water quality management strategies and restoration efforts. Dr. Costa's scientific background, understanding of analytical methods, state, and federal environmental laws, and participation on state and federal grant review panels, together with the need to develop management actions based on sound science and multiple watershed goals, have helped his program toward the goals of ecosystem based management.

Tracey Morin Dalton
University of Rhode Island Department of Marine Affairs

Tracey Morin Dalton is an Assistant Professor of Marine Affairs at the University of Rhode Island. She has a B.S. in Chemistry from Boston College and a Ph.D. in Environmental Science from the University of Massachusetts Boston. Her primary areas of research include participatory processes, management of marine protected areas, spatial use patterns, and integrated social and ecological systems.



William C. Dennison
University of Maryland Center for Environmental Science

William C. Dennison is a Professor of Marine Science and Vice President for Science Applications at the University of Maryland Center for Environmental Science (UMCES). Dr. Dennison's primary mission within UMCES is to coordinate the Integration and Application Network. The University of Maryland Center for Environmental Science is one of two research and service institutions in the University System of Maryland.

Dr. Dennison rejoined UMCES in 2002 following a 10-year stint at the University of Queensland in Brisbane, Australia. He originally started at UMCES (then the Center for Environmental and Estuarine Science) in 1987 as a Postdoctorate/Research Assistant Professor based at Horn Point Laboratory. In Australia, he developed an active marine botany group at the University of Queensland with strong links to the Healthy Waterways Campaign for Moreton Bay. Dr. Dennison obtained his B.A. in Biology and Environmental Science from Western Michigan University, M.S. in Biological Oceanography from the University of Alaska, Ph.D. in Biology from the University of Chicago, and held a post-doctoral position as a Coastal Marine Scholar at the State University of New York at Stony Brook.



Kristen M. Fletcher
Roger Williams University School of Law

Kristen M. Fletcher is Director of the Marine Affairs Institute and Rhode Island Sea Grant Legal Program at Roger Williams University School of Law (RWU) where she directs legal research and outreach on marine resource and management issues to state and federal agencies, policy-makers, and coastal user groups across the nation. She researches and publishes on interdisciplinary approaches to marine law and resource issues including the public trust doctrine, submerged lands conservation, and fisheries law. Ms. Fletcher teaches Coastal and Ocean Law,

Fisheries Law, and Natural Resources Law at RWU and in the Department of Marine Affairs at the University of Rhode Island (URI). She also manages the RWU – URI Joint Degree Program. Previously, she served as the first Director of the National Sea Grant Law Center, Director and Staff Attorney at the Mississippi-Alabama Sea Grant Legal Program, and Adjunct Professor of Law at the University of Mississippi Law School. Ms. Fletcher has a B.A. from Auburn University, J.D. from the University of Notre Dame School of Law, and LL.M. in Environmental and Natural Resources Law from Lewis & Clark Law School. She is president-elect of The Coastal Society, served as a 2003 fellow with the Environmental Leadership Program, and is now a senior fellow.



David Keeley
Gulf of Maine Council

David Keeley has worked in Maine for over 25 years in environmental management, policy development, and planning with an emphasis on coastal and estuarine issues. Most recently he served as the Director of the Maine State Planning Office. He also directed Maine's Coastal Management Program for eight years. In 1989, Mr. Keeley assisted in forming the international Gulf of Maine Program and served as an active state representative for 15 years. In 2002, Mr. Keeley received the Environmental Protection Agency's Environmental Merit Award and in

2003, he received NOAA's Coastal Steward of the Year Award for his accomplishments and dedication to ocean and coastal management. In 2004, he departed public service and opened his own consulting firm, The Keeley Group.



Michael Keyworth
Brewer Cove Haven Marina

Michael Keyworth is Vice President and General Manager of Brewer Cove Haven Marina located on Bullocks Cove in Barrington, at the head of Narragansett Bay. The marina is known throughout the world for its work with 12 Meters, J-Boats, and other high-performance racing machines. Mr. Keyworth is Past President and currently serves on the Board of Directors of the Rhode Island Marine Trades Association and is a member of the Save The Bay President's Council. In 1995, Mr. Keyworth was awarded the Alfred L. Hawkes Award, the highest environmental award in Rhode Island. In addition, Mr. Keyworth was appointed Chairman of the East Bay Economic Initiative for seven terms and was appointed by the Governor to the Rhode Island Yachting Committee.

Kate Killerlain Morrison
Massachusetts Office of Coastal Zone Management

Kate Killerlain Morrison is an Ocean Policy Analyst at the Massachusetts Office of Coastal Zone Management (MCZM). Ms. Morrison has been with MCZM for almost three years and is the lead staff for the Massachusetts Ocean Management Initiative. She represents MCZM on the Stellwagen National Marine Sanctuary Zoning Working Group and the Gulf of Maine Council's Working Group. Ms. Morrison has a Master's degree in Marine Affairs from the University of Washington, where she studied international fisheries trade in West Africa. Prior to joining MCZM, she worked as a staffer in the Washington State Legislature.



Kevin McAleese
Sand County Foundation

Kevin McAleese has been leading conservation programs for Sand County Foundation since January 1995. He currently supports a growing network of landholders across North America who are committed to developing local, voluntary strategies for sustainable resource management on their lands. This includes cross-continental learning initiatives with the foundation's community-based conservation programs in southern and eastern Africa. Mr. McAleese also directs the Foundation's research and stewardship activities at the historic Aldo

Leopold Memorial Reserve.



Jennifer McCann
Rhode Island Sea Grant

Jennifer McCann is a Coastal Manager and Co-leader of the Sustainable Coastal Community Program for Rhode Island Sea Grant and the University of Rhode Island Coastal Resources Center. She earned a Masters of Arts in Marine Affairs from URI, with a concentration in community involvement in coastal zone management. She has worked at URI for 10 years, working with state, regional, and international partners to build technical abilities and develop community capacity. Ms. McCann has over 17 years of professional experience in community

development, institutional capacity building, marine protected area planning and management, watershed management, and fundraising. She began her career in Washington, D.C., at the Center for Marine Conservation (now The Ocean Conservancy), building a strong and diverse educated constituency for the creation and management of the Stellwagen Bank National Marine Sanctuary. Currently, Ms. McCann is leading a team working on the Metro Bay Special Area Management Plan for the communities of northern Narragansett Bay on behalf of the R.I. Coastal Resources Management Council.



Russell A. Moll
California Sea Grant College Program
University of California, San Diego

Russell A. Moll has served in the field of aquatic sciences as a researcher and administrator in a variety of capacities including member of research teams, manager of a large overseas research project, administrator of research programs, and program officer in a federal agency. Since 1974, Dr. Moll has conducted extensive research in the nearshore marine environment, salt marshes, mangrove systems, the Great Lakes, small lakes, and temperate and tropical rivers. In 1985, Dr. Moll began managing the day-to-day operation of the Michigan Sea Grant College Program. Serving as the Assistant Director, he had responsibility for the research portion of the program. In 1989, Dr. Moll was appointed the first Director of the Cooperative Institute for Limnology and Ecosystems Research located at the University of Michigan. In January 1994, Dr. Moll took a two-year leave from the University of Michigan to serve as an Associate Program Director in the Biological Oceanography Program at the National Science Foundation. Upon his return from Washington, D.C., in 1996, Dr. Moll was appointed as Director of the Michigan Sea Grant College Program. In 1998, he assumed duties as Associate Director of the University of Michigan Biological Station in charge of the Center for Great Lakes and Aquatic Studies.

In September of 2000, Dr. Moll moved to the University of California, San Diego where he assumed the position as Director of the California Sea Grant College Program. He received a B.A. from the University of Vermont, M.S. in Marine Science from Long Island University, M.S. in Biostatistics from the University of Michigan and Ph.D. in Marine Ecology from the State University of New York at Stony Brook.



Dennis W. Nixon
University of Rhode Island, College of the Environment and Life Sciences

Dennis W. Nixon is a Professor of Marine Affairs and Associate Dean for Academic Affairs at the College of the Environment and Life Sciences, University of Rhode Island. He received his J.D. from the University of Cincinnati Law School. He researches in the areas of admiralty law, with particular reference to research and fishing vessels, fisheries law and management, coastal zone law, marine pollution law, and marine insurance. Selected publications include "The Legal and Regulatory Environment of Fisheries Licensing in Rhode Island" (*Rhode Island Bar Journal* 2001), "Recent Developments in Oceanographic Research Vessel Law" (*Proceedings: Ocean 2000, Marine Technology Society*), and "The Legacy of the North Cape Spill: A New Legal Environment for the Tug and Barge Industry" (*Ocean & Coastal Law Journal* 1999). Sponsored research includes Regulatory Issues in the Development of Smart Terminals through the URI Transportation Research Center, and Risk Management, Marine Insurance, and Legal Support for the University National Oceanographic Laboratory System through the National Science Foundation.



Cathy A. Roheim
University of Rhode Island
Department of Environmental and Natural Resource Economics

Cathy A. Roheim's research focus is seafood marketing and trade including determining consumer preferences and market demand for sustainable seafood, particularly ecolabeled seafood and the effectiveness of this market-based incentive in promoting sustainable fisheries. Other research foci are international trade in fisheries products, including the influences of international trade policy on the sustainability of international fisheries and aquaculture production, and the impacts of domestic fishery and aquaculture management policies on the sustainability of international markets for particular seafood products. Dr. Roheim serves on the Stakeholders Advisory Council of the Marine Stewardship Council. She was editor of *Marine Resource Economics* from 1995-98 and is President-elect of the International Institute of Fisheries Economics and Trade. She holds a B.S. in Economic Science and M.S. in Applied Economics from Montana State University, and a Ph.D. in Agricultural Economics from the University of California Davis.

Susan Snow-Cotter
Massachusetts Office of Coastal Zone Management

Susan Snow-Cotter has been with Massachusetts Coastal Zone Management for over 11 years and currently serves as agency Director. She is a member of numerous organizations, including the Gulf of Maine Council on the Marine Environment, the Stellwagen National Marine Sanctuary Advisory Council, and also has served on the National Research Council's Committee on National Needs for Coastal Mapping. Ms. Snow-Cotter has a Master's degree in Marine Affairs from the University of Washington and has previously worked in Saipan for six years on coastal issues.



Christophe A.G. Tulou
Christophe Tulou Associates

Christophe A.G. Tulou is a consultant on environmental, natural resource, and ocean policy issues based in Washington, D.C., and is currently serving as director of the H. John Heinz III Center's program on Sustainable Oceans, Coasts and Waterways (SOCW). In that capacity, he is directing the Heinz Center's initiative, *The Nation's Coasts: A Vision and Action Agenda for the Future*. Mr. Tulou also serves on the Heinz Center's SOCW Advisory Committee. He previously served as President of the nonprofit Center for SeaChange, which he established to advance substantial reform of U.S. ocean laws and policies. Mr. Tulou also helped guide the Pew Oceans Commission, as its Executive Director, to the publication of *America's Living Oceans: Charting a Course for Sea Change*, a compilation of policy recommendations to restore and protect living marine resources in U.S. waters. Mr. Tulou served as Cabinet Secretary for Delaware's Department of Natural Resources and Environmental Control, and served over a decade in Congress. He was born in Geneva, Switzerland. He earned his B.S. in Biology at the College of William and Mary, and received two Master's degrees—one in Zoology and the other in Marine Affairs—from the University of Rhode Island. Mr. Tulou also received a law degree from Georgetown University while working on Capitol Hill. He is a member of the Virginia and District of Columbia Bars.



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GENERAL INFORMATION

Badges

All registrants and guests must present the official Marine Law Symposium badge to be admitted to symposium events. A ticket for a complimentary drink at the October 19th dinner is located behind your name badge.

Food & Beverages

Symposium registration includes admission to all symposium programs, continental breakfast, box lunch, and New England Seafood Dinner on Thursday evening. There is a separate fee for guests attending the New England Seafood Dinner.

Continuing Legal Education (CLE) Credit

The Rhode Island MCLE Commission has granted fourteen (14) credits by attending the symposium. Please note rules differ in each jurisdiction. Please see symposium staff at the registration table for a CLE certificate.

Hospitality Room

A hospitality room (Room 244) has been set up for your convenience in making cell phone calls and web access. Please ask at the registration desk for directions to the room.

No Smoking

Roger Williams University has a no-smoking policy in effect within all buildings.

Telephones

There are two public telephones located in the School of Law: one located on the main floor next to the elevators and one on the lower level far side of the cafeteria near the mailboxes.

SPECIAL ACTIVITIES

Saturday, October 21, 2006

Please check at the Registration Desk for further information on this activity.

Guided Kayaking Tour of Bristol Harbor

Bristol, Rhode Island

10:00 a.m. – 1:00 p.m. \$38 per person

Bristol is rich in history and wildlife and a kayak on the water provides a terrific vantage point to see it all. After an on-shore instructional, participants will set off from the north end of Bristol Harbor and travel along the western shore down to Usher's Cove. The kayaking group will cross the harbor and paddle back along the shoreline and see historic Bristol from a unique perspective. The tour will last approximately three hours and all necessary gear will be provided for a safe, comfortable, and fun trip.



DIRECTIONS

From Bristol Harbor Inn to the law school:

Turn right out of the parking lot of the Inn. At the stop sign (immediately after turning right), turn left onto State Street. At the next stop, turn right onto Hope Street (Rt. 114S).

Follow Hope Street for approximately two miles. Roger Williams University will come into view on your left as you approach the Mt. Hope Bridge—there is a turnaround **before** the light that takes you over the bridge—it is not marked, but allows you to do a U-turn onto Rt. 114N to put the university on your right. Pass the main university entrance on the right and follow signs for Event Parking to the next right turn. Following that right turn, the lot will be on your left. The School of Law is the 3-story brick building south of the lot, past the athletic fields. The symposium will be held in Room 283 of the law school. Take the stairs (or elevators, which are on your left when you enter the building) to the second floor. Go to your right at the top of the stairs. Room 283 is the first room on your left.

From the law school to Bristol Harbor Inn:

Exiting from the University's lower parking lot

If security has directed you to the university's lower parking lot, when you are leaving the campus, turn left onto Route 136S. Approximately 500 yards up the road, bear right onto Route 114S and follow Rt. 114 for approximately two miles.

*At the intersection of Hope and State streets, turn left onto State Street. At the bottom of State Street, turn right onto Thames Street, then take an immediate left into the Thames Street Landing parking lot (you will go through the arch of the building). The Bristol Harbor Inn entrance will be halfway down the parking lot on your right.

Exiting from the University's main entrance

Exiting the main entrance of the law school, you will need to cross the lanes of traffic to the left lane heading onto Rt. 114N—there is a stop sign for crossing traffic. After the stop sign, follow Rt. 114N for approximately two miles. See the * above for the remaining directions.

From the law school to Linden Place:

Follow 114 North from the law school into the center of Bristol, approximately 2 miles. Linden Place is located directly in the center of town on the right hand side of the street, between State Street and Bradford Street. Parking is on the street. Upon entering through the main gate of Linden Place, follow the path and bear to your left. Dinner will be in the brick carriage house.

From Bristol Harbor Inn to Linden Place:

Linden Place is within walking distance of Bristol Harbor Inn. Leaving the inn's parking lot, turn right. At the stop sign, turn left onto State Street. At the next intersection of State and Hope Street, cross Hope Street and turn left. Linden Place, a 2-story white house, is the second building on your right. Dinner will be in the brick carriage house located to the left of the house.



ACKNOWLEDGEMENTS

The Marine Law Symposium would like to acknowledge the generous support of the Roger Williams University School of Law, Rhode Island Sea Grant Program and University of Rhode Island Department of Marine Affairs and to those individuals on the planning committee who lent their time and energy to planning, logistics and generally keeping the boat afloat!

Michael Beck, The Nature Conservancy Global Marine Initiative
Barry Costa-Pierce, Rhode Island Sea Grant Program, University of Rhode Island
Charlotte Ferris, Marine Affairs Institute, Roger Williams University School of Law
Kristen M. Fletcher, Marine Affairs Institute, Roger Williams University School of Law
Chelsie Horne, Office of Alumni, Programs & Events, Roger Williams University School of Law
David Keeley, Gulf of Maine Council
Kate Killerlain Morrison, Massachusetts Office of Coastal Zone Management
Lawrence Juda, University of Rhode Island Department of Marine Affairs
Heather Rhodes, Rhode Island Sea Grant Program, University of Rhode Island
Christophe A.G. Tulou, Christophe Tulou Associates

Special thanks are due to Megan Higgins of the Marine Affairs Institute and Sue Kennedy of Rhode Island Sea Grant for serving as transcribers during the event. We also thank the Environmental Law Society and the Maritime Law Society for their assistance with planning and volunteering during the symposium and especially Nick Battista who organized the volunteers. The society officers and volunteers are listed below.

Environmental Law Society

Nick Battista	President
Lisa LaBelle	Vice President
Alison Bruenjes	Secretary
Tory Randall	Treasurer

Maritime Law Society

Jennifer Mehaffey	President
AJ Evans	Vice President
Neil McLaughlin	Secretary
Tory Randall	Treasurer
Mark Heath	Events Coordinator

Student Volunteers

Yul-Mi Cho	Maureen McCrann
Brian Eisenhower	Jason Ollman
Todd Greenwood	Carolyn Rowe
Denton Hill	Sara Sprague
Jennifer Lemieux	Benjamin Susman

Finally, thanks are due to Monica Allard Cox and Celeste MacPhee of Rhode Island Sea Grant for their assistance in preparation of this Program.



The Evolution of Ecosystem Based Management: From Theory to Practice



6th MARINE LAW SYMPOSIUM ◆ 5th ANNUAL SEA GRANT SCIENCE SYMPOSIUM ◆ OCTOBER 19 - 20, 2006



Help the Marine Law Symposium reduce its ecological impact!

In the spirit of the symposium's theme of the Evolution of Ecosystem Based Management, events sponsored by the Marine Affairs Institute are going green! This year, we have taken several measures to reduce our ecological impact. They include:

1. Printing the symposium brochure on wood-free paper with soy-based inks.
2. Relying on electronic sharing of documents and information rather than printed materials during symposium planning and development.
3. Ensuring placement of recycle containers in symposium event rooms for participant use.
4. Conserving energy and reducing traffic by providing shuttle services for conference attendees staying at the conference hotel.
5. Providing reusable cups and water bubblers for attendees' use during the conference in lieu of plastic bottled water.
6. Encouraging car-pooling for speaker arrival and departure to Rhode Island and participant travel to the event.
7. Increasing the use of post-consumer recycled paper in all conference materials.
8. Purchasing and serving locally grown agricultural products, organic when possible, reducing the energy used to ship products.
9. Purchasing and serving sustainably caught regional seafood, reducing energy for shipping and reducing bycatch of marine species.
10. Reducing waste by encouraging reuse of symposium lunch bags and nametags.

The symposium marks a commitment by Roger Williams University School of Law to host green events and to reduce the law school community's ecological impact. If you have additional suggestions we should consider for greening the conference or our School of Law, please contact Kristen Fletcher at kfletcher@rwu.edu.



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In partnership with Rhode Island Sea Grant and the University of Rhode Island Department of Marine Affairs, the Marine Affairs Institute provides analysis of legal issues affecting oceans and coasts, oversees research of law students in ocean, coastal and maritime law, and provides outreach to practitioners and policy-makers. Located on Narragansett Bay, the Institute is uniquely suited to address matters such as coastal and marine pollution, shipping and maritime issues, and coastal zone management. Institute research is relevant on a national and international level as other regions and countries struggle to use and preserve the marine resources.

The Institute works closely with the Maritime Law Society, a student organization comprised of students with interests in admiralty, maritime, and marine law and the Environmental Law Society, an organization of students interested in environmental and natural resources law. The Institute assists the societies in establishing an annual speaker series, which brings experts to the School of Law to share their perspectives on current legal issues and working in the legal field.

Roger Williams University School of Law offers students numerous elective course offerings in pollution and environmental regulation, coastal zone law, fisheries, traditional admiralty law and practice, related international law courses, and a specialized Marine Law Summer Program. The School of Law, in conjunction with URI's Department of Marine Affairs, offers a joint degree program for students interested in extensive study of legal issues relating to the marine environment. The joint degree program allows students to complete the Juris Doctor and Master of Marine Affairs degrees by combining course work at the two institutions to reduce the overall time necessary for the two degrees. The program provides a wide variety of courses in law and policies regarding the environment and natural resources, coastal zone, maritime and admiralty issues, and international topics.

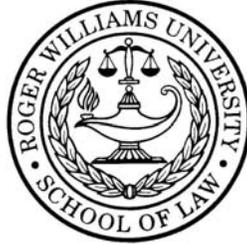
Building on an existing partnership with the Rhode Island Sea Grant College Program, in 2004 the School of Law created the Rhode Island Sea Grant Legal Program, which sponsors professional and student legal research and analysis regarding marine resources. The Legal Program provides an excellent opportunity for law students to receive training in the identification and resolution of marine resource management and conservation issues. These efforts build on the traditional research of the Marine Affairs Institute and represent one of only four Sea Grant law and policy efforts in the nation. Visit the Institute at <http://law.rwu.edu/marineaffairs>.



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Roger Williams University Ralph R. Papitto School of Law Bristol, Rhode Island

Roger Williams University Ralph R. Papitto School of Law, the only American Bar Association-accredited law school in Rhode Island, provides a broad-based legal education to over 600 students, drawn from over 40 states and 300 colleges and universities. Founded in 1992, the School of Law is a young, dynamic institution that has made its mark in the professional and educational legal communities in an unprecedented short period of time. The School of Law earned full accreditation approval from the American Bar Association by February 1997, the earliest possible time under the association's rules and procedures, and became a member of the Association of American Law Schools in 2006.

Although a young law school, its academic profile is rising sharply. Since 2000, applications have jumped 125 percent as the school has added new faculty with national reputations. Law school professors have appeared on television, radio, and print media as expert commentators on a range of subjects including the Martha Stewart criminal case, Vioxx civil litigation, sentencing guidelines, and the status of Guantanamo detainees. The school is located on the waterfront campus of Roger Williams University in Bristol, R.I.

The Marine Affairs Institute, the Feinstein Institute for Legal Service, three exciting live-client clinics, and summer programs in London and Lisbon provide students unique opportunities to learn outside of the confines of the traditional classroom setting. Visit the School of Law at <http://law.rwu.edu>.



The Rhode Island Sea Grant College Program is a federal-state-university partnership, based at the University of Rhode Island, which designs and supports research, outreach, and education programs that foster coastal and marine stewardship. Rhode Island Sea Grant is one of over 30 programs that make up the National Sea Grant College Program, a part of the National Oceanic and Atmospheric Administration. Rhode Island Sea Grant works with federal, state, and local partners to achieve its goals.

Rhode Island Sea Grant addresses challenges of human-dominated ecosystems through efforts in two core thematic areas: Sustainable Coastal Communities and Ecosystems and Sustainable Fisheries. Visit Rhode Island Sea Grant at <http://seagrant.gso.uri.edu/>.