MARY CATHERINE WATZIN
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(a) Professional Preparation

University of South Carolina	Columbia, SC	B.S. in Marine Science, 1978
University of North Carolina at Chapel Hill	Chapel Hill, NC	Ph.D. in Marine Sciences, 1984

(b) Appointments

2012 to present – **Professor**, Department of Forestry and Environmental Resources, College of Natural Resources, North Carolina State University, Raleigh, NC 27695

2012 (October) to 2019 (August) – **Dean**, College of Natural Resources, North Carolina State University, Raleigh, NC 27695

2012 (October) to present – **Professor Emeritus**, Rubenstein School of Environment and Natural Resources, University of Vermont, Burlington, VT 05405

2009-2012 – **Dean**, Rubenstein School of Environment and Natural Resources, University of Vermont, Burlington, VT 05405

2009-2012 – **Director**, Lake Champlain Sea Grant, University of Vermont, Burlington, VT 05405

2008-2009 – **Associate Dean for Graduate Education and School Planning**, Rubenstein School of Environment and Natural Resources, University of Vermont, Burlington, VT 05405

2005-2012 – **Professor**, University of Vermont, Rubenstein School of Environment and Natural Resources, Burlington, VT 05405

1998-2011 – **Director**, Rubenstein Ecosystem Science Laboratory, University of Vermont, Burlington, VT 05401

1995-1998 – **Graduate Program Coordinator**, School of Natural Resources, University of Vermont, Burlington VT 05405

1994-2005 – **Associate Professor**, University of Vermont, School of Natural Resources, Burlington, VT 05405

1990-1994 – **Assistant Unit Leader**, Vermont Cooperative Fish and Wildlife Research Unit, U.S. Fish and Wildlife Service **and Research Associate Professor**, University of Vermont, School of Natural Resources, Burlington, VT 05405

1985-1990 – **Ecologist**, National Wetlands Research Center, U.S. Fish and Wildlife Service, Slidell, LA 70458

(c) Publications (of 117)

Keeton, W.S., E.M. Copeland, S.M. Sullivan, and **M.C. Watzin**. 2017. Riparian forest structure and stream geomorphic condition: implications for flood resilience. Canadian Journal of Forestry 47: 476-487.

Pearce, A.R. D.M. Rizzo, **M. C. Watzin**, and G.K. Druschel. 2013. Unraveling associations between cyanobacteria blooms and in-lake environmental conditions in Missisquoi Bay, Lake Champlain, USA, using a modified self-organizing map. Environmental Science and Technology 47:14267-14274.

Smith, L., **M.C. Watzin**, and G.K. Druschel. 2011. Relating Sediment Nutrient Mobility to Seasonal and Diel Redox Fluctuations at the Sediment-Water Interface in a Eutrophic Freshwater Lake. Limnology and Oceanography 56(6): 2251-2264.

Ghebremichael, L.T. and **M.C. Watzin**. 2011. Identifying and Controlling Critical Sources of Farm Phosphorus Imbalances for Vermont Dairy Farms. Agricultural Systems 104: 551-561.

Ghebremichael, L. and **M.C. Watzin**. 2010. Determination of critical source areas for phosphorus loss in the Lake Champlain Basin, Vermont. Transactions of the ASABE 53(5): 1595-1604.

Rogalus, M.A. and **M.C. Watzin**. 2008. Evaluation of sampling and screening techniques for tiered monitoring of toxic cyanobacteria in lakes. Harmful Algae 7: 504-514.

Clark, J.S., D.M. Rizzo, **M.C. Watzin**, and W.C. Hession. 2008. Spatial distribution and geomorphic condition of fish habitat in streams: an analysis using hydraulic modelling and geostatistics. River Research and Applications 24: 885–899.

Watzin, M.C. 2007. The Promise of Adaptive Management. Pages 147-158 in: Managing Agricultural Landscapes for Environmental Quality: Strengthening the Science Base, M. Schnepf and C. Cox, eds. Soil and Water Conservation Society Press, Ankeny, IA.

Smyth, R.L., **M.C. Watzin**, and R.E. Manning. 2007. Defining acceptable levels for ecosystem indicators: integrating ecological understanding and social values. Environmental Management. 39:301-315.

Watzin, M.C. 2006. The Role of Law, Science and the Public Process: Practical Lessons from Lake Champlain (USA and Canada) and Lake Ohrid (Macedonia and Albania). Global Business & Development Law Journal 19:241-258 (invited)

(d) Synergistic Activities

- Education – Part of team that developed interdisciplinary six-course undergraduate core curriculum in UVM's Rubenstein School; taught integrative upper-level courses for >15 years.
- Diversity and STEM – Earned extramural funding to build programs to recruit and mentor undergraduate and graduate students in STEM disciplines from underrepresented groups.
- Collaborative Research and Problem-Solving – From 1992-2009, Chair of the Technical Advisory Committee to transboundary Lake Champlain Steering Committee (USA and Canada). Provided technical review, research priority setting, and guidance to federal, state and provincial managers. Served on Steering Committee 1992-2012.
- Stakeholder Engagement and Science-based Policy Development – Led the special "Investigative Docket" convened by the VT Water Resources Board, bringing diverse group to consensus on "A Scientifically Based Assessment and Adaptive Management Approach to Stormwater Management," codified by Vermont Legislature in May 2004.
- Leadership in Interdisciplinary Strategic Planning – As Dean, catalyzed the development and implementation of interdisciplinary strategic plans at two institutions, resulting in new undergraduate and graduate programs, significant growth in collaborative research focused on grand challenges, and an enhanced network of partners.