Manomet Study Team Members

Peter Cardellichio is a forest economist with over 25 years of experience analyzing and forecasting markets for timber and forest products. He was affiliated with RISI for more than 15 years, where he was a partner and member of its Board of Directors. He developed the original models used for RISI's timber price analysis and forecasting, and established an international reputation for his knowledge of statistical methods and empirical work in the forest products industry. At RISI, he directed the work of 10 economists; worked on the development of multi-client studies; and was responsible for forecasting consumption trends, capacity changes, foreign trade shifts, raw material requirements, prices, costs, and investment opportunities. Cardellichio is now working as an independent consultant and recently completed projects on the long-term outlook for U.S. timber prices (including a piece on biomass expansion) and the long-term outlook for markets for high value hardwood species. Cardellichio received his Ph.D. in forest economics from Yale University in 1986 and his bachelor's degree in economics from Harvard College in 1975. For the DOER study on biomass, Cardellichio is managing Task 2 and his primary responsibility is projecting the availability of wood biomass. He will also co-manage Task 5 and participate in the analysis of the impacts of increased biomass harvesting on net carbon balances.

John Gunn is forest ecologist and Senior Program Leader at the Manomet Center for Conservation Sciences. Gunn has a B.S. in wildlife management from the University of Maine and M.F.S from the Yale School of Forestry and Environmental Studies. Gunn completed his Ph.D. in biology from the University of New Brunswick. He has a broad background in sustainable forestry, including a position developing sustainable forest management systems for a large private landowner in Maine and extensive work on Forest Stewardship Council (FSC) family forest and group certification issues throughout North America. Gunn recently worked on developing managed forest carbon offset projects in Maine (family forests) and Minnesota (public lands), and has developed significant expertise in forest carbon offset markets. Gunn is currently leading a comprehensive life cycle assessment of managed and unmanaged forests in Maine.

Brian Kittler serves as a Project Director for the Pinchot Institute, specializing in the Institute's sustainable wood bioenergy, community-forestry, and ecosystem services program areas. His current research examines the role of wood-based bioenergy in greenhouse gas emission reduction strategies, renewable energy production, and improved forest management on both public and private forest lands. He is co-investigator on a project to develop biomass harvesting guidelines for the state of Maryland and is editor of a forthcoming double issue of the *Journal of Sustainable Forestry* focused on the sustainability of wood-based bioenergy. Kittler has previously managed programs for the National Fish and Wildlife Foundation, worked on wilderness management issues in the Mt. Hood National Forest, and served on the technical advisory panel for three inter-state policy reports related to the potential impacts of bioenergy systems on watershed health and water quality in the Chesapeake Bay region. Kittler, a native of Massachusetts, holds a Bachelor of Arts in environmental policy from Colby College, and he is completing a Master's of Science in environmental science and policy from the Johns Hopkins University. Kittler will provide input to Tasks 1 and 3.

Anne Perschel is a leadership and organizational psychologist who is an expert in leadership and change management. She is Founder and President of Germane Consulting (M/WBE). Perschel consults to change leaders and their teams, helping them to apply principles and models for how and why people, groups, and organizations change, and why they don't. She is also a highly skilled facilitator who designs and facilitates group meetings involving those affected by change, in order to engage them in the change process. Perschel is trained in and has used both appreciative inquiry and World Café methods to work with very large groups as they explore and develop unique solutions to complex issues.

A number of environmental organizations have hired Perschel to develop strategy, implement change, and design as well as lead large group meetings. Her work with the Governing Council of the Society of American Foresters resulted in the adoption of a code of ethics for the land for the first time in the

organization's history. She worked with the Environmental Vision and Values Design Team to develop a three-day meeting sponsored by national environmental groups, including The Wilderness Society, Sierra Club, and National Audubon Society. She also designed and led a session at Yale University's conference on The Good in Nature and Humanity. Perschel has a master's degree in organization development from American University and a doctorate in psychology from Antioch University. She will play a key role in designing and implementing the public and stakeholder outreach process in Task 6.

Robert Perschel has worked with private landowners, forestry consultants, timber industry owners, and government agencies on diverse aspects of sustainable forest management for over 30 years. He is a nationally recognized expert and speaker on long-term forest management practices, forest biomass utilization, and forest-based carbon cap and trade (including most recently, the 2008 national Land Trust Alliance meeting and the 2009 Society of American Foresters Northeast regional meeting). He was lead author of the 2007 report: *Climate Change, Carbon, and the Forests of the Northeast,* which has been referenced by diverse private organizations and government agencies, including the State of Vermont and the Manomet and State of Maine-led process to recommend additional forestry protocols for the Regional Greenhouse Gas Initiative. Perschel's forest biomass policy expertise includes most recently, *An Assessment of Biomass Guidelines* (January 2009), which he co-wrote with Dr. Alexander Evans. Currently, he is the Forest Guild's Northeast Region Director and is co-developing biomass harvesting standards for Northeast forest types. He has a master's degree in forestry from the Yale School of Forestry and Environmental Studies, and he is a founding member of Forest Guild and a member of the Society of American Foresters. Perschel is the lead team member for Task 3 and portions of Task 1, and he will provide technical input in regard to forest management issues for Task 4. Based on his strong track record and proven ability to lead groups with divergent interests to realize a collaborative vision, he will also lead Task 6.

Chris Recchia has been the Executive Director at Biomass Energy Resource Center (BERC) since May of 2007. He has more than 20 years of experience as an environmental leader in the development of state and federal environmental policy and the implementation of programs managing air, land, and water resources. Recchia came to BERC after his four-year tenure as Executive Director of the Ozone Transport Commission in Washington, D.C., where he directed a commission of 12 mid-Atlantic and northeastern states and the District of Columbia in coordinating air pollution reduction programs and policy. Prior to that, he served as, Director of Environmental Programs at the Connecticut Resources Recovery Authority, followed by Commissioner of the Vermont Department of Environmental Conservation. Recchia holds a B.S. from the University of Vermont, an M.S. in environmental law from Vermont Law School, and an M.S. in natural resource policy and management from the Yale School of Forestry and Environmental Studies. Recchia will lead BERC's efforts on Tasks 1, 2, and 5.

David Saah is a consultant working with the Manomet Center for Conservation Sciences on forest modeling simulations. Saah is broadly trained as an environmental scientist with an expertise in a number of areas including: landscape ecology, ecosystem ecology, hydrology, geomorphology, ecosystem modeling, natural hazard modeling, remote sensing, geographic information systems (GIS), and geospatial analysis. He has used these skills to conduct research primarily at the landscape level in a variety of systems. Saah has participated in research projects throughout the United States and internationally. His academic research uses integrated geospatial science for multi-scale mapping, monitoring, and modeling of environmental spatial heterogeneity, particularly in riparian, savanna, and forest ecosystems. These efforts include quantification of change in landscape pattern, investigating the linkages between pattern and processes, and understanding the pattern-process dynamic within different environmental management regimes. To complement this, Saah's consulting research interest and experience include: developing holistic decision support systems for resource management, assessing natural hazards, and quantifying ecosystem service valuation. In addition, all of his research addresses access, availability, and accuracy of geospatial and environmental datasets, and scale in natural resource and environmental research. Most recently, Saah has been conducting assessments of forest carbon credit eligibility using the Forest Vegetation Simulator (FVS) for private and public forest lands.

Thomas Walker is a natural resource economist with almost 30 years of experience conducting environmental policy and economics projects for public, private, and non-profit clients. He brings strong project management expertise to the Manomet team, having recently directed the establishment of a new $4 billion ecological restoration program for the United Nations in Geneva. Prior to that, he served as Managing Director at Industrial Economics, Inc., a 100-person consulting firm in Cambridge, Massachusetts, where he worked for 24 years. Walker's recent forest economics and policy experience includes economic analysis for the Open Space Institute of Plum Creek Timber's Moosehead Lake land development proposals, analysis of liquidation harvesting practices for Alec Giffen at the Maine Forest Service, and an economic analysis of the value of FSC certification to Candlewood Timber, a private producer of certified hardwood lumber from natural forests in Argentina. Walker currently serves as Technical Coordinator for the Massachusetts Department of Conservation and Recreation's Forest Futures Technical Steering Committee. He has been assisting the Open Space Institute on a study projecting forest conservation opportunities with timber investment management organizations. He also currently serves on the Manomet Center Board of Councilors. Walker received his B.A. in economics and political science from Yale College and his M.F.S in resource economics from the Yale School of Forestry and Environmental Studies. For this effort, Mr. Walker will serve as overall Project Manager, coordinating the activities of the expert team, and he will provide significant technical input to Tasks 1, 2, and 5.