



**Ensuring Forest Sustainability in the
Development of Wood Biofuels and Bioenergy:
Implications for Federal and State Policies**

Convened by

**H. John Heinz III Center for Science, Economics, and the Environment
Pinchot Institute for Conservation**

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Short Biographies of Attendees

Robert C. Abt: Robert is a Professor of Forest Resource Economics at North Carolina State University and Co-Director of the Southern Forest Resource Assessment Consortium (SOFAC). Robert's research focus is on Bio-economic Forest Resource Modeling and Timber Supply. Robert has: Developed the Sub-Regional Timber Supply (SRTS) modeling framework which was funded by DOE, NASA, USDA Forest Service, and EPA. It has been used by NASA and EPA to evaluate the potential impact of climate change and other environmental stressors of southern forests. The model has also been used by the USDA Forest Service in its recent Southern Forest Resource Assessment and by a consortium of resource dependent firms (SOFAC) for long-term strategic planning. Recent work has focused on the potential impact of bio-energy demand on the sustainability of the resource and traditional wood dependent industries. Robert has a BS in Industrial Management from Georgia Tech, a MS in Forestry from the University of Tennessee and a PhD in Forest Economics from University of California, Berkeley. Robert currently teaches Natural Resource Management and Forest Economics.

Janaki Alavalapati is a Professor of Forest Resource Economics and Policy and Head of the Department of Forestry at Virginia Tech. As a Jefferson Science Fellow 2007-2008, he served as a Senior Advisor for International Energy Affairs at the U.S. Department of State, Washington, DC. Dr. Alavalapati serves as a member of the editorial board of Forest Policy and Economics journal and a Deputy Coordinator of Social and Economic Aspects of Forestry Unit, International Union of Forest Research Organizations (IUFRO). He also served as the chair of Economics, Policy, and Law Working Group of the Society of American Foresters (SAF). His research focuses on exploring market solutions for natural resources, energy, and environmental problems/issues at local, regional, and international level. He is a lead investigator on five bioenergy projects funded by the DOE/USDA, National Council for Science and the Environment, Southern Growth Policies Board, EPA, and American Forest Foundation.

Ron Barmore is the Director of Project Development for Range Fuels, Inc. In this role he leads the company's efforts in the siting, development and permitting of new projects and the sourcing of feedstock materials. In addition to his project development responsibilities, Ron represents the company in a number of organizations and advocacy groups that are focused on the renewable, sustainable and eco-friendly development of the advanced biofuels industry. Ron has spent the majority of his career developing projects in the alternative energy field, primarily in the waste-to-energy industry (municipal solid waste to power). Most recently he spent six years as the senior executive in charge of business development efforts for Barlow Projects, Inc. His career also includes five years with ABB Resource Recovery Systems as a Regional Manager of Business Development and a number of years as an independent consultant. Ron began his career with one of the leaders in the waste to energy industry, Wheelabrator Technologies, Inc., a pioneer in the alternative energy field. Ron graduated from the University of Iowa with a Bachelors of Business Administration and a major in Accounting. Ron lives in the Atlanta, GA area with his wife Kathy.

Mark J. Benson: Mark Benson has been employed in the forest products industry for 34 years. Thirtyone of those years have been with Potlatch Corporation in Idaho, Minnesota and Washington. Mark's career has included positions in forestry operations, logging operations, timberland acquisition, timber procurement, strategic planning, mill management and public affairs. He is currently vice president, public affairs and is located at Potlatch's corporate headquarters in Spokane Washington.

Karen Blanchard is the Associate Director of the Outreach and Information Division of the U.S. EPA's Office of Air Quality Planning and Standards (OAQPS). This is a headquarters office, i.e., part of EPA's Office of Air and Radiation, and it is located in Research Triangle Park, North Carolina. The OAQPS sets national ambient air quality standards and national emission standards for stationary sources of air pollution. The division where Karen works is responsible for an array of voluntary and innovative programs including the residential wood smoke initiative, as well as information technology projects and data systems. Karen has worked for the U.S. EPA for twenty eight years in a variety of different capacities that involve the National Air Toxics Program, pre-construction permitting programs, program integration and now voluntary programs. She has a masters degree in environmental public health administration and an undergraduate degree in microbiology.

Dennis R. Becker, Ph.D.: Dennis Becker is an Assistant Professor of Environment and Natural Resource Policy at the University of Minnesota in the Department of Forest Resources. Dr. Becker conducts research on the social and economic impacts of forest and related natural resource policy focusing on program development and evaluation in the areas of forest utilization, wildland fire management, community development, and environmental review. Current projects include: 1) assessing strategies and policies for biomass removal on public and tribal lands, 2) characterization of resource availability for bioenergy applications, and 3) assessment of state-level environmental review programs and procedures. He also conducts research on natural resource-based collaborative planning, community forestry, and water-based stakeholder analysis. Dr. Becker serves as a national social and economic auditor for third-party forest certification, provides technical assistance for international forest governance and community development, and conducts policy analysis and review for various congressional, agency, industry and stakeholder inquiries. He teaches courses in natural resource and environmental policy, methods of policy analysis, and natural resource problem solving. He holds a Ph.D. in Natural Resources from the University of Idaho.

Barbara J. Bramble is Senior Program Advisor for International Affairs, and a strong advocate to improve U.S. policy regarding climate change, tropical deforestation and unsustainable

agriculture production and trade. Over two decades at National Wildlife Federation, as the original founder and director of NWF's International Affairs department, she developed innovative coalitions and grass-roots support to: a) reform the World Bank and other multi-lateral development banks; b) promote U.S. leadership to reduce the threat of climate change; c) help establish voluntary certification systems to promote sustainable forest and agriculture products; and d) advocate that international trade agreements promote, rather than frustrate, sustainable development. Ms. Bramble was a key organizer of the 1992 Earth Summit in Rio de Janeiro and the Rio + 5 Conference in 1997. For four years she worked with Mexican NGOs to enhance their advocacy and environmental education skills. In her current role as Senior Advisor, she is helping to develop international sustainability standards to guide the burgeoning biofuels industry, serving on the Steering Board of the Roundtable on Sustainable biofuels; she is also the immediate past chair of the Forest Stewardship Council in the U.S. She serves on the boards of several non-profit organizations in Mexico, Brazil and the U.S. She is an environmental lawyer, and has worked in the Executive Office of the U.S. President, and in private law practice.

Jesse Caputo is a Policy Associate in the Sustainable Biomass and Energy Program at the Environmental and Energy Study Institute in Washington, D.C. EESI is a non-partisan, not-for-profit think tank providing Congress with credible information and innovative policy recommendations relating to climate change, renewable energy, and sustainable community development. The Sustainable Biomass Program seeks to highlight the value of sustainably produced biomass as a renewable, low-carbon substitute for fossil fuels, as well as an means of improving both land management and local economies. Over the last year, Jesse has focused on the role that woody biomass markets could play in providing an available, accessible renewable energy source and in improving the bottom line for multiple-use, multiple-value forest stewardship. Before coming to EESI, Jesse was finishing up his M.S. in Forest Resources at the University of Massachusetts Amherst, where he also acted as the forest manager for the university forests.

David W. Carr, Jr.: Mr. Carr is a native of Albemarle County and heads Southern Environmental Law Center's National Parks and Forests Project. He began his environmental advocacy work at SELC in 1986. He is a 1977 honors graduate of Princeton University in the Program of Science in Human Affairs and received his Juris Doctor in 1983 from the University of Virginia Law School. He was named 1991 Conservationist of the Year by Trout Unlimited and 1992 Clean Air Conservationist of the Year by the Virginia Wildlife Federation. He also received the Excellence in Service award from the National Park Service. He teaches Federal Lands and Natural Resources at the UVA Law School. He completed the VA Natural Resources Leadership Institute program in 2002 and has served on numerous boards and committees over the years. He recently completed a 3 year term on the Board of the VA Urban Forestry Council.

Bob Cleaves is President of Portland, Maine-based Biomass Power Association. Founded in 1999, BPA is the nation's leading voice for biomass to electricity, representing over 2,000 MW of installed capacity. BPA members include sawmills, paper companies, and independent power producers, doing business in over 20 states and contributing nearly \$1 billion to the national economy. BPA maintains an active presence in Washington, and concentrates on federal tax and energy policy to promote the use of woody biomass for electricity use. Bob is a former federal prosecutor before entering private practice, where he represented the pulp and paper industry for many years before leaving the law to focus on renewable energy. For many years, he managed the nation's largest renewable energy credit portfolio. He is on the Board of the New England Clean Energy Council, Maine Audobon, and Greater Portland Landmarks. Previously, he served on the Massachusetts Biomass Working Group, the GIS Working Group, and the PJM GATS

Working Group. His knowledge and experience in both the development process and renewable markets is well known throughout the industry.

Greg Comatas: Manager - Strategic Sourcing, International Paper. In fourteen years with International Paper, Greg has acquired broad geographic exposure and has gained insight into a variety of businesses. He has completed forest operations and fiber supply assignments in New Hampshire, New York, Louisiana, and South Carolina. As well as an assignment auditing where Greg performed operational and financial reviews of forest operations, paper mills, wood products plants, and distribution businesses throughout the US and Canada. In his current role, Greg supports Global Sourcing – Energy in the acquisition of energy commodities and he advises on issues related to the emerging renewable energy sector.

Mike DeBonis is the Southwest Region Director of the Forest Guild. Mike's work at the Guild is focused on the development and implementation of community-based forestry projects in the Southwest, providing technical assistance to rural communities engaged in forest restoration, and support of the Guild's regional and national education, forest policy, and membership initiatives. Mike also serves as co-chair of the Biomass Working Group of the Rural Voices for Conservation Coalition. Prior to working for the Guild, Mike was employed by the Maine Forest Service as the state's urban and community forestry coordinator. Mike has also spent time as an environmental consultant in CT, a park ranger in VT, and a Peace Corps Volunteer in Jamaica. Mike holds a Master's degree in Forestry from Yale University.

Dr. Frederick J. Deneke: Fred is a graduate of Colorado State University with a BS degree in Forestry Science in 1967. Fred also has a MS degree in Horticulture in 1969, and a Ph.D. in Horticulture in 1972 from Kansas State University in Manhattan, KS. Prior to his retirement, Fred worked as an Assistant Director for the Cooperative Forestry Staff of the USDA Forest Service in Washington, D.C. His responsibilities included serving as S&PF national lead for woody biomass utilization. In this role, Fred was part of a Forest Service Woody Biomass Team, an Interagency Team involving the FS, DOI, and DOE. Fred also served as the principal FS person working with the DOE/USDA Biomass Research and Development grant program. Fred currently is involved in consulting on matters involving woody biomass and biomass energy with the "25 x '25" Renewable Energy Workgroup. Fred also serves as forestry programs coordinator for the National Association of Conservation Districts where he oversees a Woody Biomass Cooperative Agreement involving NACD, the USDA Forest Service, and DOI's Bureau of Land Management. The purpose of this Cooperative Agreement is to provide education for and expand the involvement of local Soil and Water Conservation Districts, and Rural Community Development organizations in locally based woody biomass utilization projects, including bioenergy.

Jake Donnay serves as NASF's Director of Forest Policy where he develops and implements strategies that advance the interests of state forestry agencies in the national legislative and policy arenas. Jake was previously a Research Associate at the Pinchot Institute for Conservation, where he focused on forest certification, the role of emerging markets for wood-based bioenergy, and other issues related to the national forest system. Prior to the Pinchot Institute, Donnay spent three years at the University of Minnesota as both a graduate student and staff member in the Department of Forest Resources where he studied family forest lands issues and helped develop and implement a master logger certification program in the state. He earned a Master of Science in Natural Resource Policy and Economics in 2005, and a Bachelor of Science in Forest Resources in 2001, both from the University of Minnesota.

Bob Emory is Weyerhaeuser Company's Environmental Affairs Manager for its Southern Timberlands business. The Southern Timberlands business manages over 4 million acres of

Weyerhaeuser forest land and procures logs and fiber for building products and cellulose fiber facilities across the South. In addition to legal compliance, regulatory affairs and meeting Weyerhaeuser's forest stewardship commitments, Bob is responsible for the business's Sustainable Forestry Initiative Standard (SFI) and ISO 14001 third-party certifications. During his 36 years with Weyerhaeuser he has had assignments in land management, raw materials procurement, logging and land acquisition. He has a BS in Forestry from Va Tech. Bob serves as Chairman of North Carolina's Coastal Resources Commission and serves on the Board of the NC Coastal Land Trust.

Jianbang Gan: Dr. Gan is a Professor in Forest Economics and Management and Associate Department Head for Undergraduate Programs in the Department of Ecosystem Science and Management, Texas A&M University. His current research centers on the economics of bioenergy and natural and human disturbances including climate change, wildfire, pest infestation, and invasion of alien species as related to forest resource management/conservation. He is also keen in issues related to forest product trade, global forest conservation, and socially or economically disadvantaged forestland owners. Additionally he has some research experience in sustainable forest management in Africa and Asia. Before joining Texas A&M, he taught forestry and agricultural economics and served as Coordinator of the Forest Resources Program at Tuskegee University. He received both M.S. and Ph.D. degrees in Forestry (Economics) from Iowa State University.

Robert Fledderman: Manager, Emerging Issues, MWV Corporate Safety, Health and Environment Dept. Responsible for coordinating climate change issues at MWV including monitoring and reporting greenhouse gas emissions to the Chicago Climate Exchange (CCX) and the Carbon Disclosure Project (CDP). Represented MWV on government sponsored climate change planning groups in South Carolina and Virginia. Currently serve on CCX's Forestry and Offsets Committees, AF&PA's Climate Change and Biomass Task Forces and act as MWV's liaison with the Duke Nicholas School's Climate Change Policy Partnership. Also participate in the Forest Climate Working Group and the Forest Carbon Standards Committee (ANSI/AF&PA). Previously, thirty years with MWV's Forestry Division in South Carolina including land management, forest inventory and fiber supply assessment. Robert represented MWV on several industry level environmental issue committees at the South Carolina Forest Association, South Carolina Forestry Commission and the America Forest and Paper Association.

David Garman is currently a principal in the consulting firm Decker Garman Sullivan and Associates, LLC, with a client base that includes Fortune 500 companies, national laboratories, universities and "greentech" startups. Prior to launching his firm, Garman was the Under Secretary of the U.S. Department of Energy. Prior to that, he was the Assistant Secretary for Energy Efficiency and Renewable Energy. Both of these positions were Presidential appointments, and Garman was twice confirmed unanimously by the United States Senate. At the Department of Energy, Garman led several multi-billion dollar enterprises, shaped national energy policy at the highest levels, and played a leading role in the development and implementation of major Presidential initiatives. Garman also testified before Congress an unprecedented forty seven times, and represented the United States Government at key international meetings and negotiations. Prior to his service in the Executive Branch, Mr. Garman served two United States Senators and two Senate Committees over the course of two decades, including the Committee on Energy and Natural Resources and the Senate Select Committee on Intelligence. While in the Senate, Garman also served the Senate leadership as their observer to the United Nations Framework Convention on Climate Change from 1995-2001. Highly regarded by Democrats and Republicans alike, Mr. Garman is a widely acknowledged expert in legislative affairs, energy technology, energy policy and climate change. His awards include two Gold Awards from the Secretary of Energy—the Department of Energy's highest

award. He has also been awarded Charles H. Percy Award for Public Service from the Alliance to Save Energy; the 2005 Energy Efficiency Award from the United States Energy Association; the Champion of Renewable Energy Award from the American Jewish Congress, and awards from the Electric Drive Transportation Association, the National Hydrogen Association, and others. Garman has been extensively featured and quoted on national and international television, radio, and print media. He currently serves on several boards and advisory boards, including the Electric Power Research Institute Advisory Council and the States Energy Council. He holds a Bachelor of Arts in Public Policy from Duke University, and a Master of Science in Environmental Sciences from the Johns Hopkins University. Garman resides in McLean, Virginia with his wife Kira Finkler and three children.

Lark Hayes is a senior attorney with the Southern Environmental Law Center (SELC) in Chapel Hill, NC where she has worked since 1987. In recent years, she has focused on policy and legislation related to privately held forestlands. Her interests include non-regulatory approaches to forestland conservation, including incentives for private forest landowners in the Farm Bill. Lark currently serves as the Coordinator of America's Longleaf, a regional collaborative of state and federal agencies and NGOs aiming to restore key components of the once extensive longleaf ecosystem.

Joe Hoagland, Ph.D.: Vice President, Energy Efficiency/Demand Response Tennessee Valley Authority. Joe Hoagland was named Vice President of TVA's newly-created Energy Efficiency/Demand Response organization in October 2007. He is charged with reducing energy demand in TVA's seven-state region and is responsible for the development, implementation, and delivery of TVA's energy-efficiency and demand-response programs and products. Dr. Hoagland had previously served as Senior Advisor to the Chief Executive Officer, responsible for analyzing information and advising the CEO on complex operational issues across TVA. He has been with TVA for 15 years and has worked across various organizations. He was Manager of Special Projects for TVA's River Systems Operations and Environment organization. He also managed TVA's Research & Development programs for advanced generation and environment to develop and evaluate new production technologies, distributed generation, energy storage, and environmental remediation technologies. Dr. Hoagland has served on a number of Boards and industry committees including, EPRI, the Electricity Storage Association, the Department of Energy, and the Electric Utility Cost Group. He has a Bachelor of Science degree in Chemistry from Southern Utah University, and a master's degree and Ph.D. in Physical Chemistry from Washington State University.

Jay Jensen: Executive Director, Western Forestry Leadership Coalition. For nearly a decade Jay Jensen has been involved in influencing and tracking natural resource legislative and policy issues, especially on forestry and bioenergy. His work at the national level and on a west-wide basis has given him invaluable insights into the needs and challenges facing natural resource agencies and the management of our forested lands. In April 2005, Jay became the Executive Director for the Western Forestry Leadership Coalition (WFLC), a Denver-based federal-state governmental partnership of western forest agency directors. One of the key missions of the WFLC is to coordinate various government and interest groups along key policy issues to create agreement and action. This work has put him in front of numerous organizations and agencies, sharing the values and benefits of the USDA State & Private Forestry programs in particular. Before he became the Executive Director of the WFLC, Jay served as the Senior Forestry Advisor for the Western Governors' Association, covering forest health, wildfire and biomass energy issues for the bipartisan WGA. And prior to his move back west in 2001, Jay served as the lead forestry advisor for the House Committee on Agriculture for the U.S. House of Representatives in Washington, DC and also worked for the National Association of State Foresters as their Lead Policy Analyst. Jay has been a member of the Society of American

Foresters since 1998. He grew up in southern California and holds a Bachelors degree in biology and geography from University of California at Los Angeles. He is currently completing a Masters degree in forestry at Colorado State University.

Brian Kittler: As a Research Fellow for the Pinchot Institute for Conservation, Brian is working within the Institute's sustainable wood bioenergy, stewardship contracting, community-based forestry, and ecosystem services program areas. Brian previously worked for the National Fish and Wildlife Foundation and the Chesapeake Bay Program, during which time he researched bioenergy systems and their impacts on watershed health and water quality. He has served on the technical advisory panel for two Chesapeake Bay Commission policy reports related to the potential ecological tradeoffs associated with bioenergy. He holds a Bachelor of Arts in Environmental Policy from Colby College and is completing a Masters of Science in Environmental Management from Johns Hopkins University.

Ben Larson works on renewable energy policy with the Union of Concerned Scientists, specializing in biomass outreach and policy. Larson received a BS in Environmental Studies from Oberlin College and was awarded Highest Honors for his work on the ecological history of the northern Plains. For ten years, Larson was a truck farmer in northern Minnesota, growing and direct marketing a wide variety of fresh produce. Prior to working at UCS, Larson worked with Dakota Resource Council, where he organized farmers and ranchers around renewable energy and climate change policy.

Brenna Lattimore is currently a researcher with the University of Toronto's Faculty of Forestry. For the past two years her work on sustainable forest bioenergy systems has been focused around two main areas of investigation: a) analyzing the environmental risks associated with forest fuel production systems and b) evaluating the potential role of criteria and indicators and forest certification schemes in helping to ensure sustainable forest fuel production. Brenna has collaborated on a number of projects and publications with the International Energy Agency's Bioenergy Task 31 and has spoken at various international workshops on sustainable forest bioenergy and certification; she is currently working on a joint IEA/FAO publication that assesses these topics from a global perspective. Her contribution on environmental sustainability to "The Future of Wood Bioenergy in the United States: Defining Sustainability, Status, Trends and Outlooks for Regional Development" was prepared together with Dean Tat Smith of the University of Toronto Faculty of Forestry, Brian Titus of the Canadian Forest Service, and Inge Stupak of Forest & Landscape Denmark. Brenna holds a Masters in Forest Conservation from U of T and a joint undergraduate degree in Global Development Studies and Environmental Studies from Queen's University.

Will McDow is Southeast Regional Director of Environmental Defense Fund's Center for Conservation Incentives. Will received a Master of Forestry and Master of Environmental Management from Duke University's Nicholas School of the Environment. Will focuses on improving management of the Southeast's privately owned forestlands through conservation incentive programs and market mechanisms, with an emphasis on Farm Bill programs, property tax, carbon markets and biomass utilization. He engages with local landowners in targeted landscapes with special emphasis on longleaf pine and bottomland hardwood systems. Will serves on the North Carolina Forestry Technical Advisory Committee which is responsible for developing best management practices. He also sits on the North Carolina Forestry Council which advises the State Forester in the direction and activities of the Division of Forest Resources.

Steven Jay Mueller: For the past 28 years, Mr. Mueller has been actively involved in the commercialization of leading-edge renewable & sustainable energy technologies including solar

thermal, solar electric, cogeneration, district heating & cooling, biomass power generation and biomass (wood pellet) commercial property heating/cooling. Mr. Mueller is presently the President of International WoodFuels, a company based in Portland, Maine, that provides a diverse range of thermal energy space heating services incorporating the use of ultra-low emission wood pellets. Prior to founding WoodFuels in 2007, Mr. Mueller was the President of DG Energy, a biomass power generator, district energy owner/operator and industrial gas cogeneration business headquartered in San Diego, California.

Charlie Niebling is General Manager for Procurement and Sales with New England Wood Pellet LLC, the largest manufacturer of wood pellet fuel in the northeastern US. Prior to taking this position in January, 2006, Mr. Niebling was vice president for policy and land management with the Society for the Protection of New Hampshire Forests. Prior to assuming this position in 1997, Mr. Niebling was a consultant for two years in the firm Innovative Natural Resource Solutions, specializing in natural resource policy, research, advocacy and public relations for corporate, government and non-profit clients. From 1987 to 1995, Mr. Niebling served as executive director of the New Hampshire Timberland Owners Association. From 1984 to 1987 he worked as a research biologist with the U.S. Forest Service, Pacific Southwest Forest & Range Experiment Station in Berkeley, CA. Mr. Niebling holds forestry degrees from the University of Vermont (BS) and the Pennsylvania State University (MS). Mr. Niebling is a licensed professional forester and a 1996 graduate of Leadership New Hampshire.

Jay O’Laughlin is Professor of Forest Resources and since 1989 the full-time Director of the Policy Analysis Group (PAG) in the University of Idaho’s College of Natural Resources. The Idaho Legislature created the PAG to provide objective analysis of natural resource issues important to Idaho citizens (see <http://www.cnrhome.uidaho.edu/pag>). Before moving to Idaho he taught forest policy and economics at Texas A&M University. He earned MS and PhD degrees from the University of Minnesota and a BSBA in finance from the University of Denver, and served as a US Army artillery officer in Vietnam. He is a Fellow of the Society of American Foresters and a member of the Society of Policy Scientists. He represents Idaho on the Western Governors’ Association Forest Health Advisory Committee, chairs the Forestry Task Force for the Idaho Strategic Energy Alliance, and also serves on its Carbon Issues Task Force.

Marcia Patton-Mallory, PhD: Bioenergy and Climate Change Specialist, Western Forestry Leadership Coalition. As a loaned executive from the US Forest Service, Marcia works closely with the Western Forestry Leadership Coalition to help accomplish their strategic goals related to biomass utilization, bioenergy, and climate change. She is a member of the Forest Service’s Climate Change Strategy team working on mitigation. Previously, Marcia coordinated the woody biomass efforts of the USDA Forest Service across programs and provided executive liaison and coordination between the USDA Forest Service and other Federal Agencies, State organizations and private interests. She has twenty-five years of Forest Service experience as: Station Director of the Rocky Mountain Research Station, Fort Collins, CO; Staff Specialist in Forest Products and Harvesting Research, Washington, DC; and Research Engineer, Forest Products Laboratory, Madison, WI. Marcia has received a Bachelor of Science, Wood Science and Technology from the College of Forestry and Natural Resources at Colorado State University in Fort Collins, CO. and a Master of Sciences and PhD in Civil Engineering, Structural Engineering and Solid Mechanics at Colorado State University in Fort Collins, CO. She also has a Professional Engineer License received from the State of Wisconsin. Marcia’s current and recent biomass efforts include: Western Governor’s Biomass Task Force for Clean and Diversified Energy for the West; Western Forestry Leadership Coalition - Hazardous Fuels and Forest Health efforts; USDA Energy Policy Council; Interagency Woody Biomass Utilization Group and leadership in developing the U.S. Forest Service Woody Biomass Utilization Strategy. Marcia has published over 25 manuscripts related to engineered wood

products and non-destructive evaluation of wood. Marcia led the Forest Service effort resulting in the code of scientific ethics, and developed the Strategic Framework for the Rocky Mountain Research Station, a \$40 million enterprise covering 14 States in the Interior West. Honors include: Colorado State University Distinguished Alumnus and USDA Emerging Leaders.

Christopher Recchia: Chris Recchia, Biomass Energy Resource Center's executive director since May of 2007, 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 a four-year tenure as executive director of the Ozone Transport Commission in Washington, DC, where he directed a commission of 12 mid-Atlantic and northeastern states and the District of Columbia, coordinating air pollution reduction programs and policy. Prior to that, he served as Commissioner of the Vermont Department of Environmental Conservation. Recchia holds a bachelor's degree from the University of Vermont, a master's in Environmental Law from Vermont Law School, and a master's in Natural Resource Policy and Management from Yale University School of Forestry and Environmental Studies.

V. Alaric Sample: Al Sample has served as President of the Pinchot Institute for Conservation in Washington, DC since 1995. He is a Fellow of the Society of American Foresters, and a Research Affiliate on the faculty at the Yale School of Forestry and Environmental Studies. He is author of numerous research papers, articles and books on topics in national and international forest policy. His most recent book is Forest Conservation Policy, with Antony Cheng, published in 2004. Sample earned his doctorate in resource policy and economics from Yale University (1989). He also holds an MBA and a Master of Forestry from Yale, and a Bachelor of Science in forest resource management from the University of Montana. His professional experience spans public, private, and non-profit organizations, including the U.S. Forest Service, Champion International, The Wilderness Society, and the Prince of Thurn und Taxis in Bavaria, Germany. He specialized in resource economics and forest policy as a Senior Fellow at the Conservation Foundation in Washington, DC, and later as Vice President for Research at the American Forestry Association. Sample has served on numerous national task forces and commissions, including the President's Commission on Environmental Quality task force on biodiversity on private lands, and the National Commission on Science for Sustainable Forestry. Other professional activities include serving as Chair of the National Capital Society of American Foresters, and President of the board of directors for the Yale School of Forestry & Environmental Studies alumni association.

Jerry Schwartz is the Senior Director of Energy and Environmental Policy at the American Forest & Paper Association (AF&PA). Since 1994, Jerry has been responsible for water quality policy and regulatory issues for the manufacturing sector of the industry. For the last four years, he has also taken on other policy issues, including Energy, Green Building, and comparisons of international regulatory approaches. Before joining AF&PA, he owned a litigation support consulting firm, traveled around the world for a year with his wife, and worked in the Environmental Enforcement Section of the Department of Justice and EPA, primarily working on hazardous waste enforcement issues.

Ken Skog is Project leader for the Economics and Statistics Research Unit at US Forest Service Forest Products Laboratory, Madison, WI. Economics research of the unit includes forest sector modeling and providing 50 year projections for the Forest Service RPA Assessment. Statistical research of the unit provides statistical methods to enhance the integrity and efficiency of FPL research – including specialized experimental designs and computer intensive methods to

simulate complex product, property and process relationships. Current personal research objectives include: 1) Estimating potential wood biomass supply from forests to make cellulosic biofuels for a USDA/ DOE national biorefinery siting model, 2) Evaluating alternate regimes of forest management and products use to enhance carbon storage and offsets to aid forest managers in mitigating CO₂ emissions, 3) Providing socioeconomic indicators of forest sustainability for the Montreal Process, and 4) Evaluating the status and trends in markets for fuelwood, bioenergy and biofuels. Recent work on harvested wood product carbon includes: Co-author of the 2006 IPCC Guidelines for countries to estimate HWP carbon for sinks and emissions reports; Author of the DOE 1605b guidelines for forest land owners to use in reporting of HWP carbon storage. Ken has a Masters degree in Forestry and a Phd in Forest Economics from Michigan State University.

Marie-Louise Smith: US Forest Service, Office of the Chief, Legislative Affairs. Marie-Louise ('ML') has been with the Forest Service for 19 years. She holds a BS in Natural Resources from the University of Michigan, a MS in Forestry from the University of Wisconsin, and a PhD in Forest Ecology from the University of New Hampshire. Prior to joining the Legislative Affairs staff in May 2007, ML served for 17 years as a research scientist with the USFS Northern Research Station. Her research focused on dynamics of growth and carbon cycling in forest ecosystems. On the Legislative Affairs staff ML has primary responsibility for coordinating legislative issues concerning energy policy, including bioenergy and renewable biomass.

Fred Souba, Jr. is currently Vice President of Wood Supply and Sustainability for NewPage Corporation. He is responsible for the wood requirements for the 5 pulp mills in Wisconsin, Michigan and Minnesota; and wood sustainability efforts and wood procurement best practices for all NewPage mills. He has a B.S. degree in Forest Management and Administration from the University of Minnesota and began his career with Nekoosa Papers in Wisconsin and since then has held a variety of positions that included forest management operations, wood procurement, manufacturing operations, and administration. He was appointed as chair of the Wisconsin Council of Forestry by Governor Jim Doyle in 2003.

Ann Perisi Swanson has been a well known conservation leader for more than 20 years. She serves as Executive Director of the Chesapeake Bay Commission, a tri-state legislative advisory authority composed of legislators, cabinet secretaries and citizens from Maryland, Virginia and Pennsylvania. The Commission is a signatory to the Chesapeake Bay agreements and coordinates Bay restoration activities among the state legislatures and the U.S. Congress. Ann was chair of the drafting Committee and principal author of Chesapeake 2000 and is charged with ensuring interstate cooperation on the Chesapeake Bay Blue Crab and identifying Congressional opportunities to enhance Bay restoration. Most recently, she coordinated the Federal Farm Bill efforts for the region. Ann has been recognized as the University of Vermont Outstanding Alumni of the Year in 1989, received the Chesapeake Executive Council Salute to Excellence Award in 1992 and again in 1999, the Chesapeake Bay Foundation's 2001 Conservationist of the Year, the Sierra Club's Award for Outstanding Achievement in 2004, Yale University's "The Women in Charge" Seminar Series and the University of Vermont Alumni Achievement Award in 2007. Most recently, Ann was recognized for her work by three Resolutions adopted concurrently by the General Assemblies of Maryland, Virginia and Pennsylvania. Ann has science degrees from both the University of Vermont (UVM) and Yale University. She is Chair the Board of Advisors for the UVM School of Natural Resources. During Ann's leadership, the School has been awarded both a \$7.8 million gift to create the Gund Institute for Ecological Economics and a \$15 million naming gift for the School. She is a co-founder of the Chester River Association and of the Bay Funder's network of more than 100 philanthropic organizations in the Bay basin. She has illustrated several published books on

natural history, and is a master gardener, artist, naturalist and kayaker. She is married and has two boys, ages 13 and 15.

David P. Tenny is the president and CEO of the National Alliance of Forest Owners (NAFO). Tenny came to NAFO from the American Forest and Paper Association (AF&PA), where he served as vice president for forestry and wood products from March 2007 to May 2008. Prior to his service at AF&PA, Tenny served for six years as deputy undersecretary for natural resources at the United States Department of Agriculture. Tenny came to USDA from the Committee on Agriculture in the U.S. House of Representatives, where he served as Counsel and Policy Advisor on natural resources and related issues from January 1997 to January 2001. He served as Counsel for U.S. Representative Wally Herger of California from January 1995 to January 1997. A native of Boise, Idaho, Tenny earned a bachelor's degree in American studies from Brigham Young University in Provo, Utah, and a law degree from George Washington University in Washington, D.C. He is married with three children.

Doug Williams is President of The Williams Group, Inc, consulting in natural resources policy. He provides forest policy and staffing support to the National Association of Conservation Districts which serves nearly 3,000 soil and water conservation districts across the country. He also serves as a policy and legislative affairs specialist to the Association of Consulting Foresters whose members help landowners manage over 35 million acres of private forests. After 35-years of federal service, Doug left his position as National Forester for the USDA-Natural Resources Conservation Service (NRCS) in the spring of 2006, where he was responsible for drafting the agencies forest management policy and leading the development and transfer of agroforestry technologies. His federal service included 22-years with the Forest Service before joining the legislative staff of NRCS. Since 1993, Doug has been involved in the Washington, DC policy and legislative arena and worked on the 1994 USDA reorganization, the 1996 and 2002, Farm Bills, the Health Forests Restoration Act of 2003, and most recently provided a private sector perspective during the formulation of the 2008 Farm Bill. Doug just completed a three-years serving on the Society of American Foresters Committee on Forest Policy. A 1971 graduate of West Virginia University in forest management, Doug's recent national recognition for advocacy of forest management includes the Association of Consulting Foresters' 2005 Public Service Award and the National Association of State Foresters' 2006 Achievement Award for Partnerships.