Climate Change Education: Engaging Family Private Forest Owners
on Issues Related to Climate Change

Workshop Steering Committee Roster and Biosketches

James Finley (Chair), The Pennsylvania State University, University Park, PA
Arun Agrawal, University of Michigan, Ann Arbor, MI
Shorna Allred, Cornell University, Ithica, NY
Charles Canham, Cary Institute of Ecosystems, Millbrook, NY
Joe E. Heimlich, The Ohio State University, Columbus, OH
Steven Koehn, Maryland Department of Natural Resources, Parkton, MD
Maureen H. McDonough, Michigan State University, East Lansing, MI
Mary Tyrrell, Yale University, New Haven, CT

Chair
JAMES FINLEY is Ibberson professor of forest resources at The Pennsylvania State University. Dr. Finley served as associate director of the School of Forest Resources, in the College of Agricultural Sciences and was the extension coordinator from 1997 to 2012. He has directed and led partnerships for developing and delivering educational programs with the forest industry, the Pennsylvania Bureau of Forestry, the U.S. Forest Service, and various agencies and nonprofit groups. Dr. Finley's research focuses on human dimensions of natural resources, such as community-based forestry, landowner relations, and forest management and regeneration. Dr. Finley co-chaired the Roundtable on Sustainable Forests for several years, a collection on public and private organizations participating in an open and inclusive process committed to the goal of sustainable forest management. Dr. Finley has solid grounding in the human dimensions of natural resources management. He has received significant funding from the State Forester of Pennsylvania for many years and thus, knows the service forestry community. Dr. Finley is leader of the Forest Stewardship Program -- a multifaceted extension program directed toward private forest landowners to help them learn how to improve and maintain the ecological health of their land. In 2006, Dr. Finley co-founded and still co-directs the Human Dimensions of Natural Resources and the Environment intercollegiate graduate degree program. Dr. Finley holds a B.S. in forest science, an M.S. in forest resources, and a Ph.D. in extension education, all from The Pennsylvania State University.

Members
ARUN AGRAWAL is a professor at the School of Natural Resources and Environment at the University of Michigan. His research and teaching emphasize the politics of international development, institutional change, and environmental conservation. Dr. Agrawal has written critically on indigenous knowledge, community-based conservation, common property, population and resources, and environmental identities. Dr. Agrawal's recent interests include adaptation to climate change, urban adaptation, reducing emissions from deforestation and forest degradation, and the decentralization of environmental governance. Dr. Agrawal coordinates the International Forestry Resources and Institutions network, and is currently carrying out research in central and east Africa and South Asia. Also, Dr. Agrawal is a current member of the National Research Council's Board on Environmental Change and Society (BECS). Dr. Agrawal is the author of *Greener Pastures and Environmentality*, and his recent work has appeared in *Science,*

PNAS, Conservation Biology, World Development, and Development and Change, among other journals. Dr. Agrawal holds a B.A. in history from Delhi University, an M.B.A. in development administration and public policy from the Indian Institute of Management, and an M.A. and Ph.D. in political science from Duke University.

SHORNA ALLRED is associate professor of natural resources in the Department of Natural Resources and associate director of the Human Dimensions Research Unit (HDRU) at Cornell University. The HDRU strives to expand the understanding of academicians, students, natural resources agency staff, non-governmental organizations, and policy makers about the human dimensions of natural resource management and policy by studying human attitudes, values, and behaviors associated with natural resource management and applying theory and empirical findings to real-world, contemporary problems. The goal of Dr. Allred's research program is to develop a fundamental understanding of human behavior for the purposes of improving resource conservation and management. Dr. Allred's research aims at understanding human social, political, and psychological processes in order to enhance our ability to conserve and manage our natural resources and encourage an open and informed exchange of ideas. Dr. Allred received her B.A. and M.S. from Pennsylvania State University, and a Ph.D. from Oregon State University.

CHARLES CANHAM is a forest ecologist at the Cary Institute of Ecosystems. Dr. Canham's research includes development and application of SORTIE, a spatially-explicit model of forest dynamics; neighborhood dynamics of forest ecosystems; effects of vertebrate consumers on forest dynamics; effects of hurricanes on temperate and tropical forest dynamics; watershed-scale analyses of variation in lake chemistry; likelihood estimation methods and modeling. Dr. Canham has authored and co-authored publications on ecology and evolutionary biology including *Models in Ecosystem Science*, *Neighborhood Models of the Effects Of The Invasive Acer Platanoides on Tree Seedling Dynamics: Linking Impacts on Communities and Ecosystems* and *Neighborhood Analyses of Canopy Tree Competition Along Environmental Gradients in New England Forests.* Dr. Canham received his B.S. in botany from Montana State University, an M.S. in botany from the University of Wisconsin, and a Ph.D. in ecology and evolutionary biology from Cornell University.

JOE E. HEIMLICH is a professor in extension at The Ohio State University (OSU) in the community development unit, an extension specialist at OSU's Center of Science and Industry (COSI), and a professor in the OSU School of Environment and Natural Resources and the Environmental Science Graduate Program. Dr. Heimlich also is a senior research associate with the Lifelong Learning Group at COSI. Dr. Heimlich has worked in the arena of informal/free-choice environmental learning for over 30 years. For more than 20 years, he has studied how people learn in and about the environment, and from the other perspective, the efficacy of the programs, experiences, and experiences in informal learning environments against desired outcomes. He is a member of the National Research Council's Roundtable on Climate Change Education. Dr. Heimlich is a past president of the North American Association for Environmental Education (NAAEE) and is active nationally and internationally as an evaluator of Environmental Education and conservation education programs. Dr. Heimlich has received multiple awards for his extension work, as well as the NAAEE Outstanding Contributions to Research in Environmental Education. Dr. Heimlich received a B.A. in communication arts,

theatre and dance from Capital University, an M.A. in policy education, and a Ph.D. in adult education and learning theory from The Ohio State University.

STEVEN W. KOEHN (KANE) is the state forester and director of the Maryland DNR Forest Service where he is responsible for statewide delivery of all technical and financial forestry assistance on both public and private lands. Mr. Koehn led a coalition of Maryland forestry stakeholders to secure the passage of the Forest Preservation Act of 2013 and the Sustainable Forestry Act of 2009 which received national recognition from the National Woodland Owners Association. Mr. Koehn also provided leadership and support for three governors' commissions/task forces on forestry with Governors Bob Ehrlich, Parris Glendenning, and Martin O'Malley. Mr. Koehn served as the president of the National Association of State Foresters from 2009-2010 and he currently serves on the board of directors for the American Forest Foundation and the Sustainable Forestry Initiative, Inc. Mr. Koehn served as an instructor at Johns Hopkins University in forest ecology, forest management, forest stand delineation, and forest conservation. On behalf of the National Association of State Foresters, Mr. Koehn gave congressional testimony regarding the Healthy Forests Initiative in 2003. Mr. Koehn received a B.S. in forest science from The Pennsylvania State University, and he holds Certificates from Yale University and Harvard University in foresters becoming executives and state and local government.

MAUREEN H. MCDONOUGH is a professor and extension specialist in the Department of Forestry at Michigan State University, with adjunct appointments in the Department of Sociology and the Michigan State Museum. Her research and extension interests include community-driven forestry and increasing the diversity of voices in natural resource decision making. She has worked on community forestry projects in Thailand, Vietnam, the Dominican Republic, Taiwan, Jamaica, and China as well as in urban and rural communities in the U.S. including Detroit and Gogebic County, Michigan. Dr. McDonough has also worked extensively on social indicators of sustainable forestry, including projects linking communities to the Montreal Process and projects assisting communities in developing their own local level criteria and indicators. Dr. McDonough is currently leading the effort to develop metrics for the new Montreal Process indicator on importance of forests to people. In the area of increasing the diversity of voices in natural resources decision making, Dr. McDonough has developed a model for the U.S. Forest Service to use in reaching out to underrepresented groups, evaluated the role of community collaboration in stewardship contracting for the U.S. Forest Service and the Bureau of Land Management; and identified barriers to increased public participation in the Michigan Department of Natural Resources. Dr. McDonough holds a B.S. in biology from Baldwin Wallace College, an M.S.F. in wildlife ecology from the University of Florida, and a Ph.D. in forest resources from the University of Washington.

MARY TYRRELL is the executive director of the Global Institute of Sustainable Forestry at the Yale School of Forestry & Environmental Studies. Ms. Tyrrell's work focuses on U.S. private lands and land ownership, land use change, forest fragmentation, and forest health, with a particular emphasis on review and synthesis of scientific research, and making scientific information available to forest managers and conservationists. Ms. Tyrrell is an editor of the book *Managing Forest Carbon in a Changing Climate*, published by Springer, and was the project manager for the U.S. Forest Service's *Highlands Regional Study: Connecticut and*

Pennsylvania Updates – Forest & Agricultural Resources Analysis and Growth and Impact Analysis. Ms. Tyrrell leads the Sustaining Family Forests Initiative (SFFI), a national coalition aimed at improving the effectiveness of outreach, services, and programs for family forest owners. SFFI has developed national landowner typologies based on survey data along with a set of communication and outreach planning tools, *Tools for Engaging Landowners Effectively* (engaginglandowners.org), and has been conducting training workshops for natural resource professionals on landowner outreach using social marketing methods. Ms. Tyrrell currently serves on the board of the Hamden Land Conservation Trust, the advisory board of the New England Forestry Foundation, and the Scientific and Technical Advisory Committee of the Commonwealth of Massachusetts' Department of Conservation and Recreation, Division of Water Supply Protection. Ms. Tyrrell received a B.A. in mathematics from the University of New Hampshire, an M.B.A from Boston University, and a M.F.S. from Yale University.