

## LEGISLATIVE COMMISSION ON GLOBAL CLIMATE CHANGE Speaker Biographical Sketches -- 25 April 2006 Meeting

### Technology Options Panel

**Marilyn A. Brown, Ph.D.**, is the Interim Director of the Engineering Science and Technology Division at the Oak Ridge National Laboratory (ORNL). Prior to coming to ORNL, she was a tenured Associate Professor in the Department of Geography at the University of Illinois, Urbana-Champaign. Dr. Brown has a Ph.D. in Geography from The Ohio State University, a Masters Degree in Resource Planning from the University of Massachusetts, and is a Certified Energy Manager. During her 22 years at ORNL, Dr. Brown has researched the impacts of policies and programs aimed at accelerating the development and deployment of sustainable energy technologies. She has led several energy technology and policy scenario studies and is a national leader in the analysis and interpretation of energy futures in the United States. She has authored more than 140 publications and has been an expert witness in hearings before committees of both the U.S. House of Representatives and the U. S. Senate. Dr. Brown serves on the boards of directors of the American Council for an Energy-Efficient Economy and the Alliance to Save Energy, and on the editorial boards of several journals.

**David L. Greene, Ph.D.**, is a Corporate Fellow at the Oak Ridge National Laboratory (ORNL) and has spent 25 years researching transportation energy and policy issues. Dr. Greene received a B.A. from Columbia University in 1971, an M.A. from the University of Oregon in 1973, and a Ph.D. in Geography and Environmental Engineering from The Johns Hopkins University in 1978. He has published more than two hundred professional publications, including three books (*Transportation and Energy*, *Transportation and Global Climate Change*, and *The Full Costs and Benefits of Transportation*), and is the recipient of four “best paper” awards from scientific societies. Dr. Greene has been active in the Transportation Research Board and National Research Council for over 25 years, serving on numerous standing and ad hoc committees dealing with energy and environmental research. In recognition of his service to the National Academy of Science and National Research Council, Dr. Greene has been designated a lifetime National Associate of the National Academies.

**Dennis W. Hazel, Ph.D.**, is an Assistant Professor and Extension Specialist in the Department of Forestry and Environmental Resources in the College of Natural Resources at North Carolina State University (NCSU). His focus areas include forest health, forest productivity, and Christmas tree production. His degrees are in forestry, experimental statistics, and wildlife biology. Prior to coming to Extension in 2003, he held several research positions at NCSU where his research included wildlife habitat and biology, silviculture, forest ecology, and water quality in agricultural and forested settings.

**Edward S. Rubin, Ph.D.**, is the Alumni Professor of Environmental Engineering and Science at Carnegie Mellon University (CMU), with joint appointments in the Department of Engineering & Public Policy, and the Department of Mechanical Engineering. He holds a B.E. in mechanical engineering from the City College of New York, and an M.S. and Ph.D. from Stanford University. Prof. Rubin's teaching and research are in the areas of energy utilization, environmental control, and technology-policy interactions, with a particular focus on issues related to coal utilization. He is the author of over 200 technical papers and reports, plus a textbook on, "Introduction to Engineering and the Environment" (McGraw-Hill). At CMU, Dr. Rubin was the founding director the Environmental Institute and the Center for Energy and Environmental Studies. He serves on technical and advisory committees to the U.S. Department of Energy, the National Academies, and the Intergovernmental Panel on Climate Change, and also as a consultant to public and private organizations with interests in energy and the environment.

### **Economics Panel**

**Joseph E. Aldy, Ph.D.**, is a Fellow at Resources for the Future, a non-profit, non-partisan organization that conducts independent research on environmental, energy, and resource issues. In 2005, he completed his Ph.D. in economics at Harvard University where his research focused on climate change policy, mortality risk valuation, and the benefits of energy subsidies to low-income households. Prior to attending Harvard, Aldy served as Senior Advisor for the Global Environment and Senior Economist for the Environment at the President's Council of Economic Advisers (CEA), where he was responsible for climate change policy and other environmental issues. He served as lead author of the Clinton Administration's July 1998 report "The Kyoto Protocol and the President's Policies to Address Climate Change: Administration Economic Analysis" and the CEA September 1999 report "The Economics of Greenhouse Gas Emissions Abatement in China, A Preliminary Assessment." He wrote articles on energy and environmental issues for the Weekly Economic Briefing of the President and drafted the Chair's testimonies on climate change policy for Congressional hearings. Aldy participated in bi-lateral and multi-lateral conferences and meetings on climate change policy in Argentina, Bolivia, China, France, Germany, Kazakhstan, Korea, Israel, Mexico, and Uzbekistan as well as at COP-4, COP-5, the Organization for Economic Cooperation and Development (OECD), and the International Energy Agency. He received a Master of Environmental Management degree from the Nicholas School of the Environment and a Bachelor of Arts degree from Duke University.

**Karl Hausker, Ph.D.**, is a co-founder of the Center for Climate Strategies ([www.climatestrategies.us](http://www.climatestrategies.us)) where he provides overall management and leads work related to transportation and land use. He is also a Principal at the Global Environment and Technology Foundation ([www.getf.org](http://www.getf.org)) and has co-chaired the Mayors' Asia Pacific Environmental Summit since its inception in 1999 ([www.environmentalsummit.com](http://www.environmentalsummit.com)). From 2000 to 2003, he was a Managing Consultant with the PA Consulting Group ([www.paconsulting.com](http://www.paconsulting.com)) where his projects included strategic advice to corporations on

climate change and capacity-building projects related to climate change for United States Agency for Economic Development (USAID). During 1999, he was a Senior Visiting Fellow at the Tata Energy Research Institute (TERI) in New Delhi where his project included capacity-building related to the Clean Development Mechanism. From 1995 to 1998, he directed environmental projects at the Center for Strategic and International Studies (CSIS) in Washington D.C. He directed the Enterprise for the Environment (a consensus-building project on U.S. domestic environmental policy chaired by Bill Ruckelshaus), Climate Change Roundtables, and Sustainable Development Roundtables. He remains an Adjunct Fellow at TERI and CSIS.

From 1993 to 1995, Dr. Hausker served as the Deputy Assistant Administrator in the Office of Policy, Planning and Evaluation, U.S. Environmental Protection Agency where he led the Agency's climate programs. From 1987 through 1992, Dr. Hausker was the Chief Economist for the U.S. Senate Committee on Energy and Natural Resources, helping staff committee hearings on climate change. Prior to joining the Committee, Dr. Hausker was an Associate at Putnam, Hayes and Bartlett, an economic and management consulting firm, where he specialized in electric utility regulatory issues. He has also worked for the U.S. Department of Energy and the California Public Utilities Commission. Dr. Hausker received a B.A. in Economics from Cornell University, and an M.P.P and Ph.D. in Public Policy from the University of California at Berkeley.

**Brian C. Murray Ph.D.**, joined the Nicholas Institute for Environmental Policy Solutions at Duke University in March 2006 as Director for Economic Analysis. Before that, he was Director of the Center for Regulatory Economics and Policy Research at RTI International. He specializes in developing and applying economic models to analyze environmental and natural resource policies, programs, and regulations. He is a widely recognized expert in the integration of economic and biophysical models to assess greenhouse gas mitigation strategies in agriculture, land use change, and forestry. In pollution control, he has examined the economic effects of traditional command-based regulatory strategies and more market-oriented approaches such as emissions fees. Dr. Murray's work has been published extensively in professional journals, edited book volumes, and commissioned reports. He has been invited as a co-author of several national and international assessments of forest resources, especially related to climate change. He received his Ph.D in resource economics from Duke in 1992.

**Margo Thorning, Ph.D.**, is senior vice president and chief economist with the American Council for Capital Formation (ACCF) and director of research for its public policy think tank. Dr. Thorning also serves as the managing director of the International Council for Capital Formation (ICCF) ([www.iccfglobal.org](http://www.iccfglobal.org)), a new think tank incorporated in Brussels. The ICCF is an affiliate of the ACCF.

Dr. Thorning is an internationally recognized expert on tax, environmental, and competitiveness issues. She writes and lectures on tax and economic policy, is frequently quoted in publications such as the *Financial Times*, *Suddeutsche Zeitung*, *New York Times*,

and *Wall Street Journal*, and has appeared internationally on public affairs news programs. In North America, Dr. Thorning has testified as an expert witness on capital formation and environmental issues before various U.S. congressional committees, including the Senate Environment and Public Works Committee, the Senate Energy and Natural Resources Committee, the Joint Economic Committee, the Senate Governmental Affairs Committee, the House Ways and Means Committee, the House Commerce Committee, and the House Committee on Government Reform.

Dr. Thorning is coeditor of numerous books on tax and environmental policy, including “The Kyoto Commitments: Can Nations Meet Them With the Help of Technology?” and “The U.S. Savings Challenge: Policy Options for Productivity and Growth.” (See [www.accf.org](http://www.accf.org) for complete list of publications). Previously, Dr. Thorning served at the U.S. Department of Energy, the U.S. Department of Commerce, and the Federal Trade Commission. Dr. Thorning received a B.A. from Texas Christian University, an M.A. in economics from the University of Texas, and a Ph.D. in economics from the University of Georgia.

**John C. Whitehead, Ph.D.**, is an Associate Professor in the Department of Economics at Appalachian State University. He received his PhD in economics from the University of Kentucky in 1990. He previously held faculty appointments at East Carolina University and the University of North Carolina at Wilmington. His research has been funded by the National Marine Fisheries Service, the National Oceanic and Atmospheric Administration, the U.S. Environmental Protection Agency, and other government agencies. He currently serves on the Editorial Council of the *Journal of Environmental Economics and Management*, the Scientific and Statistical Committee of the South Atlantic Fisheries Management Council and is president of the Socioeconomics Section of the American Fisheries Society. Previously, he served on the Board of Directors of the Association of Environmental and Resource Economists.