

Invitation for Comments on “Short List” Candidates for the EPA Science Advisory Board Second Generation Model Advisory Panel

The EPA Science Advisory Board (SAB) Staff Office announced in 69 FR 41474 – 41475, July 9, 2004, that it was forming an advisory panel to review the computable general equilibrium model known as the Second Generation Model (SGM). Background on the project and details on the panel nomination process appear in the above referenced FR notice.

The SAB Staff Office has reviewed over 16 nominations (“widecast”) for the SGM Advisory Panel and has narrowed the list of nominees to a “Short List” of 13 candidates based on the qualifications and interest of the nominees. Brief biosketches of the 13 candidates on the “Short List” are found below. We invite comments from the public on these candidates. Such comments include information, analysis or documentation that the SAB should consider in evaluating the “Short List” candidates. Individuals should send their comments to Dr. Holly Stallworth, Designated Federal Officer for the SAB Second Generation Model Advisory Panel, by September 13, 2004 via e-mail to stallworth.holly@epa.gov.

The SAB Staff Office Director, in consultation with SAB leadership, as appropriate, makes the final decision about who will serve on the panel in the “Panel Selection” phase. In that phase, SAB Staff completes its review of information regarding conflict of interest, possible appearance of impartiality, appropriate balance, and breadth of expertise needed to address the charge. The SAB Staff Office will review all available information on the candidates, including information gathered by the SAB Staff, information provided by the candidates, and any information provided by the public.

Short List Biosketches

SAB Second Generation Model Advisory Panel

Second Generation Model Advisory Panel

Burtraw, Dallas

Resources for the Future

Dr. Burtraw is a Senior Fellow at Resources for the Future. He holds a Ph.D. in Economics and a Master in Public Policy from the University of Michigan. He currently serves on the National Research Council, Committee on Air Quality Management in the United States. Dr. Burtraw's areas of expertise include: air pollution, cost-benefit analysis, electricity restructuring, regulatory design, and public finance. His research interests include the restructuring of the electric utility market, the social costs of environmental pollution, benefit-cost analyses of environmental regulation, and the design of incentive-based environmental policies. His current projects include the study of integrated approaches to pollutant control in the electricity sector and the valuation of natural resource improvements in the Adirondacks. Recently, Dr. Burtraw analyzed the cost-effectiveness of various designs for NOX emission trading in the eastern states and of the design for a carbon emission trading program in the electricity sector. He also investigated the effects on electric utilities of the sulfur dioxide emissions-permit trading program legislated under the 1990 Amendments to the Clean Air Act, and evaluated the benefits of emission reductions resulting from the 1990 Amendments. Current research support includes the New York State Energy Research and Development Authority, the Japanese government Economic and Social Research Institute and the EPA Star Grant program (11/2003).

Dahl, Carol

Colorado School of Mines

Carol Dahl received her Bachelors degree from the University of Wisconsin and her Ph.D. degree from University of Minnesota in Economics. She is currently a Professor of Mineral Economics and Director of the CSM/IFP Joint International Degree Program in Petroleum Economics and Management, in the Division of Economics and Business at the Colorado School of Mines. She has supervised numerous Ph.D. students, published and traveled extensively pursuing her interests in modeling international energy markets. She has particular expertise in energy demand and supply elasticities. She is currently working on a book for Pennwell Press called Energy Economics and International Energy Markets (forthcoming in 2001) and is developing material on international energy markets for a distance learning course.

Goulder, Lawrence

Stanford University

Dr. Lawrence H. Goulder is the Shuzo Nishihara Professor in Environmental and Resource Economics at Stanford University. He is also a Senior Fellow of Stanford's Institute for International Studies and Institute for Economic Policy Research, a Research Associate at the National Bureau of Economic Research, and a University Fellow of Resources for the Future. He is a member of the EPA's Science Advisory Board's Environmental Economics Advisory Committee. Dr. Goulder's research examines the environmental and economic impacts of U.S. and international environmental policies. He has focused on policies to reduce emissions of "greenhouse gases" that contribute to climate change, and on "green tax reform," revamping the tax system to introduce taxes on pollution and reduce taxes on labor effort or investment. His analyses of environmental policies often employ a general equilibrium analytical framework that integrates the economy and the environment and links the activities of government, industry, and households. His work considers both the aggregate benefits and costs of various policies as well as the distribution of policy impacts across industries, income groups, and generations. Some of his work is interdisciplinary, involving collaborations with climatologists and biologists. Dr. Goulder graduated from Harvard College with an A.B. in philosophy in 1973. He obtained a master's degree in musical composition from the Ecole Normale de Musique de Paris in 1975 and earned a Ph.D. in economics from Stanford in 1982 (12/2003).

Harrison, Glenn

University of Central Florida

Glenn Harrison is Professor of Economics in the Department of Economics, College of Business Administration, University of Central Florida. He was born in Melbourne, Australia, in 1955, completed his undergraduate education (B.Ec.(Hons.) and M.Ec) at Monash University in Melbourne in 1978 and the Ph.D. in Economics at UCLA in 1982. He has held teaching appointments at the University of Western Ontario (Canada), University of Arizona, University of Melbourne, Stockholm School of Economics, University of Stockholm, University of New Mexico, and the University of South Carolina. Professor Harrison's current research interests include experimental economics, law and economics, international trade policy and environmental damage assessment. He has published over 95 articles in academic journals and volumes, including the Journal of Political Economy, American Economic Review, Journal of Law & Economics, Economic Journal, the Rand Journal of Economics, Journal of the American Statistical Association, International Journal of Game Theory, Experimental Economics, Review of Economics & Statistics, American Journal of Public Health, Journal of Development Economics, World Bank Economic Review and Journal of Environmental Economics and Management. He has been an Associate Editor of the Journal of Environmental Economics and Management and the Journal of Regional Science. Professor Harrison has been a consultant for numerous government agencies and private bodies. These include the Reserve Bank of Australia, the California Energy Commission, the Atlantic Richfield Company, the World Bank (research into trade liberalization options for developing countries, as well as the global effects of the Uruguay Round), the Office of the U.S. Trade Representative (research into the global effects of agricultural trade wars, and quantitative assessment of negotiation options), Sandia National Laboratory, the American Petroleum Institute (a critical review of natural resource damage assessment procedures), the National Commission for Employment Policy (evaluating the employment effects of regulatory policy), the Swedish government (examining carbon tax proposals to reduce global warming), the United States Environmental Protection Agency (evaluating carbon tax proposals), and Danish government (evaluating tax and deregulation policies), private counsel representing Attorney-Generals and private parties suing tobacco companies for economic damages, and private counsel representing a class of South Carolina land-owners suing ExxonMobil Corporation for damages from spills from underground storage tanks.

Lewandowski, Jan

USDA Economic Research Service

Jan Lewandowski is the staff economist for USDA's Global Change Program Office (GCPO) where he specializes in evaluating options and alternatives related to terrestrial carbon sinks and land-use change. His duties include representing USDA in interactions with various domestic and international government organizations including the Climate Change Science Program, the Climate Change Technology Program, the U.N. Framework Convention on Climate Change, and the Intergovernmental Panel on Climate Change. Before joining the GCPO, Jan spent 15 years as an economist with USDA's Economic Research Service (ERS). At ERS, he published widely on economic issues of concern to U.S. agriculture related to climate change, wildlife conservation, and invasive species management. Jan has a PhD in resource economics from North Carolina State University, an MS in resource economics from Oregon State University, and a BS in resource economics from the University of Massachusetts at Amherst.

Murray, Brian

RTI International

Dr. Murray, a senior economist and director of the Environmental and Natural Resource Program at RTI, specializes in developing and applying economic models to analyze environmental and natural resource policies, programs, and regulations. He holds a Ph.D in resource economics from Duke University. 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 the area of pollution control policies, he has examined the economic effects of traditional command-based regulatory strategies for pollution control and more market-oriented approaches such as emissions fees. His clientele includes the U.S. Environmental Protection Agency (EPA), U.S. Department of Agriculture (USDA), U.S. Department of Energy (DOE), NASA, the U.S. Food and Drug Administration (FDA), the Intergovernmental Panel on Climate Change, US Global Change Research Program, state of North Carolina, industry groups, and various academic institutions. Dr. Murray has been invited as a co-author of several national and international assessments of forest resources, especially related to climate change. His work has been published in professional journals, including The Review of Economics and Statistics, American Journal of Agricultural Economics, Journal of Environmental Economics and Management, Land Economics, Ecological Economics, Mitigation and Adaptation Strategies for Global Change, Forest Science, and World Resource Review. He is an adjunct faculty member at North Carolina State University, where he lectures on resource and environmental economics and management.

Opaluch, James

University of Rhode Island

Dr Opaluch is a professor of Environmental Economics at the University of Rhode Island. He received a Ph.D. in Economics and Masters Degree in Statistics both from the University of California, Berkeley. Dr. Opaluch has been actively involved in issues related to natural resource and environmental policy for many years. Dr. Opaluch is an internationally recognized expert in natural resource valuation and damage assessment, and has served as an expert witness in over 20 major natural resource damage assessment cases. Other projects include development of the original Type A model for assessing natural resource damages under CERCLA (incorporated in Federal Regulations); evaluation of the potential social costs of the national five-year offshore oil and gas leasing program; comprehensive assessments of proposed national environmental regulations; development of a methodology for landfill siting for the state of Rhode Island, and estimating uses and values of the Peconic Estuary System as part of the National Estuaries Program. Dr Opaluch was recently invited to serve on the United Nations Environmental Program's Working Group of Consultative Experts to provide advice and training to policy professionals throughout the world. Dr. Opaluch has served on a number of national committees, including National Academy of Science panel to assess the OCS Environmental Studies Program, National Academy of Science Panel on PCB Contamination Sites, National Academy of Science committee on wetlands productivity, National Academy of Science committees to assess the adequacy of environmental information on Georges Bank, South Florida, California and Alaska, the U.S. Minerals Management Service Social Science Research Panel, and Governing Board Associate of the American Agricultural Economics Association. Dr Opaluch has served in a variety of professional capacities, including Associate Editor of the American Journal of Agricultural Economics, President of the Northeast Agricultural and Resource Economics Association, Vice President of the Association of Environmental and Resource Economists, Associate Editor of the American Journal of Agricultural Economics, Associate Editor of the Journal of Environmental Economics and Management, Editorial Board of the Agricultural and Resource Economics Review and Director of the Northeast Agricultural and Resource Economics Association. Dr. Opaluch been recipient of various awards, including Research Scientist of the Year at the University of Rhode Island, College of Resource Development, Outstanding Service Award from the Northeast Association of Agricultural and Resource Economics, Outstanding Dissertation Award of the American Agricultural Economics Association and has served as advisor to four Theses that were winners of the American Agricultural Economics Association thesis awards. Dr. Opaluch has received research support from many private corporations and federal agencies, including the National Science Foundation, the U.S. Environmental Protection Agency, the U.S. Department of the Interior, and the National Oceanic and Atmospheric Administration. Dr. Opaluch has authored or co-authored numerous papers in refereed journals, including the Journal of Environmental Economics and Management, the Rand Journal of Economics, American Journal of Agricultural Economics, Land Economics, Applied Economics, Coastal Management, Natural Resource Journal, Marine Resource Economics, and Oil and Chemical Pollution and has written many technical reports and chapters in books. His publications have made important contributions to basic knowledge and to public policy applications on issues of national, international and global significance (12/2003).

Paltsev, Sergey

MIT

Dr. Paltsev is a Research Scientist at Joint Program on the Science and Policy of Global Change at Massachusetts Institute of Technology. He holds a Ph.D. in Economics and M.A. in Economics from the University of Colorado at Boulder, and a Diploma in Radiophysics and Electronics from Belarusian State University. Dr. Paltsev's areas of expertise include: computable general equilibrium modeling, energy economics, environmental economics, economic modeling of climate options, technological change, demographic change, and climate science. His current projects include the study of integrated approaches to assessment of air pollution health effects, modeling technological change in CGE models, and an integrated framework for climate change assessment. Recently, Dr. Paltsev analyzed a decomposition of an economic cost of meeting a carbon constraint, technology and technical change in the EPPA model, disaggregating household transportation, role of Russia in the Kyoto Protocol, economic consequences of demographic change in the former Soviet Union, sectoral and regional contributions to the carbon leakage, creating a global economic-energy dataset GTAP-EG. Current research support includes National Aeronautics and Space Administration (NASA).

Pizer, William

Resources for the Future

Dr. Pizer's research seeks to quantify how various features of environmental policy and economic context, including uncertainty, individual and regional variation, technological change, irreversibility, spillovers, voluntary participation, and flexibility, influence a policy's efficacy. He applies much of this work to the question of how to design and implement policies to reduce the threat of climate change caused by manmade emissions of greenhouse gases. Recently, his work has considered the influence of uncertainty on discounting, the advantages of price versus quantity regulation for pollutants that accumulate in the environment, and consequences of environmental regulation on firm performance. Currently, Dr. Pizer is working on projects that look at the regional variation in household energy use, firm variation in pollution control costs, the effectiveness of voluntary programs, the role of technology programs in pollution control efforts, and consequences of banking and borrowing in pollution permit markets. Since August 2002, Dr. Pizer has worked part-time as a Senior Economist at the National Commission on Energy Policy. During 2001-2002, he served as a Senior Economist at the President's Council of Economic Advisers where he worked on environment and climate change issues. He was a Visiting Scholar at Stanford University's Center for Environmental Science and Policy during 2000-2001, and taught at Johns Hopkins University during 1997-1999.

Polasky, Stephen

University of Minnesota

Dr. Stephen Polasky holds the Fesler-Lampert Chair in Ecological/ Environmental Economics at the University of Minnesota. He is a faculty member of the Department of Applied Economics and of the Department of Ecology, Evolution and Behavior and the interdisciplinary Conservation Biology Program. He received his Ph.D. in economics from the University of Michigan in 1986. Prior to coming to Minnesota he held faculty positions in the Department of Agricultural and Resource Economics at Oregon State University and the Department of Economics at Boston College. He was the senior staff economist for environment and resources for the President's Council of Economic Advisers 1998-1999. He served as associate editor and co-editor for the Journal of Environmental Economics and Management from 1996 to 2002. He is currently serving as a member of the Committee on Valuing the Protection of Ecological Systems and Services of U.S. EPA's Science Advisory Board, as a member of the Environmental Economics Advisory Committee of U.S. EPA's Science Advisory Board, as a member on a National Research Council Committee on Assessing and Valuing Services of Aquatic and Related Terrestrial Ecosystems, and as Co-Chair for Core Project 3: Developing the Science of Conservation and Sustainable Use of Biodiversity for DIVERSITAS. His research interests include biodiversity conservation and endangered species policy, integrating ecological and economic analysis, game theoretic analysis of natural resource use, common property resources, and environmental regulation. Since 2000 he has received grant support from NSF for two biocomplexity grants (Greater Serengeti: humans in a biologically diverse ecosystem; Flow, fish, fishing: disparate scales of process make nearshore fishery management a difficult task), the USDA Forest Service for three cooperative agreements (Predicting ecological and social impacts of riparian landuse in a north central lakescape; Open space and property values: an urban economics model with application to the Twin Cities Region; Developing a collaborative modeling approach to assess biological and economic effects of land use decisions and pollution mitigation), a cooperative agreement with the Minnesota Department of Natural Resources (Landowner contact and incentives for Topeka shiner conservation) and support from two research grants with US EPA (Land management with biological and economic objectives; Developing methods and tools for watershed restoration design, implementation, and assessment in the Willamette Basin, Oregon) (11/2003).

Richels, Richard

Electric Power Research Institute

Dr. Richard Richels directs global climate change research at the Electric Power Research Institute (EPRI) in Palo Alto, California. In previous assignments, he directed EPRI's energy analysis, environmental risk, and utility planning research activities. He has served on a number of national and international advisory panels, including committees of the Department of Energy, the Environmental Protection Agency, and the National Research Council. He has served as an expert witness at the Department of Energy's hearings on the National Energy Strategy and testified at Congressional hearings on priorities in global climate change research. In addition, Dr. Richels has served as a lead author for the Intergovernmental Panel on Climate Change's (IPCC) Second and Third Scientific Assessments and served on the Synthesis Team for the U.S. National Assessment of Climate Change Impacts on the United States. He currently serves on the Scientific Steering Committee for the US Carbon Cycle Program and the Advisory Committee for Princeton University Carbon Mitigation Initiative. Dr. Richels is a co-author of Buying Greenhouse Insurance - the Economic Costs of CO2 Emission Limits (with Alan Manne). He has written a number of papers on operations research, energy and environmental policy, and energy research and development. He has served as Editor of the Energy, Environment and National Resources area of the Operations Research Journal. He has also served on the Board of Editors of The Energy Journal and the Journal of Applied Stochastic Models and Data Analysis. His current research interests are related to the issues of induced technical change, assessing the costs and benefits of climate change management proposals, identifying the potential impacts of climate change and how they may vary with the choice of mitigation and adaptation initiatives, and the valuation of market and non-market impacts. Dr. Richels received a B.S. degree in Physics from the College of William and Mary in 1968. He was awarded an M.S. degree in 1973 and a Ph.D. degree in 1976 from Harvard University's Division of Applied Sciences where he concentrated in Decision Sciences. While at Harvard, he was a member of the Energy and Environmental Policy Center.

Rose, Adam

Pennsylvania State University

Adam Rose is Professor in the Department of Geography at The Pennsylvania State University, where he previously served as Professor and Head of the Department of Energy, Environmental, and Mineral Economics. Before joining Penn State, he served as Professor and Chairman of the Department of Mineral Resource Economics at West Virginia University, Assistant Professor in the Department of Economics at the University of California-Riverside, and Senior Council Economist for the New York State Council of Economic Advisers. He holds a B.A. degree in economics from the University of Utah, and M.A. and Ph.D. degrees in Economics from Cornell University. Dr. Rose's major areas of research are energy and environmental economics, regional science, human dimensions of natural and man-made hazards, and applied general equilibrium analysis. Recent sponsors of his research include the National Science Foundation, U.S. Environmental of Protection Agency, Department of Energy, Department of Interior, Pennsylvania Department of Environmental Protection, Center for Clean Air Policy, and Center for Energy and Economic Development. Dr. Rose is the author or co-author of several books and over 50 refereed articles in major academic journals. He serves on the editorial boards of the Journal of Regional Science, Resource and Energy Economics, Pacific and Asian Journal of Energy, Energy Policy, and Resource Policy. He has served on expert panels of the National Academy of Sciences, National Science Foundation, U.S. Department of Interior, and Earthquake Engineering Research Institute. He also has served as the American Economic Association Representative to the American Association for the Advancement of Science. Dr. Rose is also the recipient of a Woodrow Wilson Fellowship and the American Planning Association's Outstanding Program Planning Honor Award.

Shortle, James

Pennsylvania State University

James S. Shortle is University Distinguished Professor of Agricultural and Environmental Economics in the Department of Agricultural Economics and Rural Sociology, Penn State University. He received his Ph.D. in Economics from Iowa State University in 1981, and a Bachelor of University Studies from the University of New Mexico in 1975. Dr. Shortle's current research focuses on the design of economic incentives for nonpoint pollution control, the value of environmental and economic information in environmental decision making, and the economics of adaptation to climate change. He makes extensive use of coupled models of the economy and environment in his research. He has served on various panels including the National Technical Advisory Committee of the National Initiative for Global Environmental Change, as a topic expert (Water Resources) for the United Nations Intergovernmental Panel on Climate Change, and most recently the NRC Committee on Water Quality in the Pittsburgh Region. He was a Co-PI on the EPA funded Mid-Atlantic Regional Assessment of Climate Change and Variability conducted as part of the USGCRP National Assessment of Climate Change, and is currently a Co-PI on the EPA funded Mid- And Upper Atlantic Assessment of Climate Change. His research on the value of economic and environmental information in environmental decision making is supported by the EPA STAR program. His research on the design of economic incentives for nonpoint pollution control has been supported by EPA, USDA, and PA-DEP.

Sue Wing, Ian

Boston University

Dr. Ian Sue Wing is an Assistant Professor in the Geography Department at Boston University (BU), and a research affiliate of the Center for Energy & Environmental Studies at BU and the Joint Program on the Science & Policy of Global Change at the Massachusetts Institute of Technology (MIT). He holds a Ph.D. in Technology, Management & Policy from MIT and a M.Sc. in economics from Oxford University. Dr. Sue Wing conducts research and teaching on the economic analysis of energy and environmental policy, with an emphasis on climate change and computational general equilibrium (CGE) analysis of economies' adjustment to macroeconomic shocks. His current research includes investigation of the sources of long-run change in the energy intensity of the U.S. economy, the theoretical and empirical performance of absolute versus intensity-based emission limits under economic and environmental uncertainties, the implications of trade-mediated international productivity spillovers for global carbon emissions and leakage, and the performance of different methods of representing endogenous technological change in CGE models for climate change policy analysis. He is currently supported by a grant from the Department of Energy's Office of Science (8/2004).