

**Invitation for Public Comment on the List of Candidates
for the Science Advisory Board Environmental Economics Advisory Committee**

June 5, 2013

The U.S. Environmental Protection Agency (EPA) Science Advisory Board (SAB) Staff Office announced in a Federal Register Notice on April 12, 2013 (78 FR 21946 - 21948) that it was inviting nominations of scientific experts from a diverse range of disciplinary areas to be considered for the Administrator's appointment to the Science Advisory Board (SAB) Environmental Economics Advisory Committee (EEAC). Through the SAB, the EEAC provides independent advice to the EPA Administrator on economic methods and analyses related to costs and benefits of EPA's environmental policies, programs and regulations. The SAB Staff Office sought nominations of experts in environmental economics to serve on the EEAC.

The SAB Staff Office received nominations for the attached 17 candidates based on their expertise and willingness to serve. We hereby invite public comments on the attached List of Candidates for consideration by the SAB Staff Office in the formation of this Committee. Comments should be submitted to Dr. Holly Stallworth, Designated Federal Officer, no later than June 26, 2013 at stallworth.holly@epa.gov. E-mail is the preferred mode of receipt. Please be advised that public comments are subject to release under the Freedom of Information Act.

Biosketches of EEAC Nominees

Auffhammer, Maximilian

Associate Professor

University of California, Berkeley

Dr. Maximilian Auffhammer joined the faculty at the University of California in Berkeley in 2003. Professor Auffhammer received his B.S. in Environmental Science from the University of Massachusetts at Amherst in 1996, a M.S. in Environmental and Resource Economics at the same institution in 1998 and a Ph.D. in Economics from the University of California in San Diego in 2003. His research focuses on environmental and resource economics, energy economics and applied econometrics. He is a Research Associate at the National Bureau of Economic Research in the Energy and Environmental Economics group, a Humboldt Foundation Fellow, and a lead author for the Intergovernmental Panel on Climate Change (IPCC). Professor Auffhammer serves on the editorial board of the *Journal of Environmental Economics and Management*. His research has appeared in *American Economic Review*, *The Review of Economics and Statistics*, *Economic Journal*, *Proceedings of the National Academies of Sciences*, *the Journal of Environmental Economics and Management*, *Energy Journal* and other academic journals. Professor Auffhammer is the recipient of the 2007 Cozzarelli Prize awarded by the National Academies of Sciences, the 2009 Campus Distinguished Teaching Award and the 2007 Sarlo Distinguished Mentoring Award.

Boyle, Kevin

Professor and Department Head

Virginia Tech

Dr. Kevin Boyle is Professor and Head of the Department of Agricultural and Applied Economics at Virginia Tech. Prior to this position he was Distinguished Maine Professor and Libra Professor of Environmental Economics at the University of Maine. Dr. Boyle holds a B.S. from the University of Maine and a Ph.D. from the University of Wisconsin. Dr. Boyle has served on the Board of the Association of Environmental and Resource Economists and as President of the Northeastern Agricultural and Resource Economics Association. He has also held editorial positions with the *Journal of Environmental Economics and Management* and *Marine Resource Economics*. Dr. Boyle was recognized by the Carnegie Foundation for the Advancement of Teaching as "U.S. Professor of the Year, Maine" in 2004, and received the "Distinguished Member" award from the Northeastern Agricultural and Resource Economics Association in 2002. Dr. Boyle's research investigates the validity of nonmarket valuation methods, including stated preferences (contingent valuation and attribute-based choices), revealed preferences (random-utility, travel-cost models, averting behavior and hedonic, property-value models), and benefits transfers. His current research on benefit transfers, with colleagues at Virginia tech, is establishing the theoretical basis of benefit transfers and the estimation of bounds for benefit-transfers to address uncertainty. Applications of his current research focus on the interface of environmental quality and human health, health of aquatic ecosystems, and land-use policy.

Bui, Linda

Associate Professor

Brandeis University

Dr. Linda Bui received her Ph.D in Economics from the Massachusetts Institute of Technology (MIT) in 1993 and is currently an Associate Professor of Economics at Brandeis University. She has taught at Boston University, the University of Michigan, MIT, and the Sloan School of Management. Professor Bui has done work in the area of environmental regulation and its effects on firm-level behavior, strategic environmental behavior between autonomous countries in the context of trans-boundary pollution, and the effectiveness of public disclosure as a regulatory instrument for the environment. Dr. Bui's current research focuses on health outcomes and the environment. She currently has funding through Brandeis University's Theodore and Jane Norman grant to study the relationship between poverty, health, and the environment.

Carbone, Jared

Associate Professor

University of Calgary

Dr. Jared Carbone is an Associate Professor at the University of Calgary in the Department of Economics and a Nonresident Fellow at Resources for the Future in Washington, DC. He currently serves as an Associate Editor at Environmental and Resource Economics and as a member of the editorial council at the Journal of Environmental Economics and Management. Dr. Carbone's research focuses primarily on evaluating the economy-wide impacts of environmental regulations and the use of applied general equilibrium models to address these problems. He has written about international trade and regulatory responses to global warming, about environmental taxation and fiscal reform, and about how to model the demand for environmental quality and health in economy-wide benefit-cost assessments. Dr. Carbone completed a Ph.D. in Economics at the University of Colorado at Boulder in 2003 where he worked under the mentorship of Thomas F. Rutherford. Subsequently, he was a post-doctoral fellow at the Center for Environmental and Resource Economics Policy at North Carolina State University from 2003 to 2005.

Carson, Richard

Professor

University of California, San Diego

Dr. Richard Carson is a Professor in the Department of Economics at the University of California, San Diego where he previously served as Department Chair. He is a past President of the Association of Environmental and Resource Economists (AERE) and is an elected Fellow of AERE as well as an elected Fellow of the Agricultural and Applied Economics Association. Previously he served as Research Director for International Environmental Policy at the University of California's Institute on Global Conflict and Cooperation, as a Senior Fellow at the San Diego Supercomputer Center, and as Program Chair for the Second World Congress of Environmental and Resource Economists. Dr. Carson received his Ph.D. in resource economics from UC Berkeley in 1985. He has worked on a wide range of environmental economics and econometric issues with a particular emphasis on the valuation of non-marketed and new goods and forecasting pollution. He has served as principal investigator on several major projects including the benefit assessment for the U.S. Clean Water Act and the damage assessment for the Exxon Valdez oil spill. Dr. Carson has also served as a consultant to a number of local, state, federal agencies, foreign governments and international organizations. He has been a member of U.S. National Academy of Sciences committees reviewing oil spill prevention policies and

water resource planning procedures. Dr. Carson is the author of over a hundred published papers and the author or editor of seven books. His books include *The Stated Preference Approach to Environmental Valuation*, *Economic Valuation with Stated Preference Techniques: A Manual and Valuing Oil Spill Prevention: A Case Study of California's Central Coast* and *Both Sides of the Border: Transboundary Environmental Management Issues Facing Mexico and the United States*. With Robert Mitchell, he wrote the award winning book *Using Surveys to Value Public Goods: The Contingent Valuation Method*.

DeShazo, J.R.

Associate Professor for Public Policy

University of California at Los Angeles.

Dr. J.R. DeShazo is the Director of the Luskin Center for Innovation at the University of California at Los Angeles where he is also a Professor and Vice Chair of the Department of Public Policy in the Luskin School of Public Affairs at UCLA. His areas of research expertise include mortality and morbidity risk valuation, survey and sample design, water, air and nano-materials regulation, environmental justice program evaluation, and the design of environmental regulations. He served on the Editorial Council for the *Journal of Environmental Economics and Management* (2003-2007) and was Special Editor for *Environmental and Resource Economics* (2005). Dr. DeShazo has published over 40 articles and has over 800 citations in Google Scholar. He holds a Ph.D. from Harvard University and a M.Sc. in Economics from Oxford University, where he was a Rhodes Scholar.

Fullerton, Don

Gutgsell Professor of Finance and Institute of Government and Public Affairs

University of Illinois at Urbana-Champaign

Dr. Don Fullerton is the Gutgsell Professor of Finance at the University of Illinois. He was Managing Editor for the B.E. Journal of Economic Analysis & Policy (2001-2012), and is Director of the National Bureau of Economic Research (NBER) program on Environmental and Energy Economics (2007-present). He received a BA from Cornell in 1974 and a Ph.D. in Economics from Berkeley in 1978. He taught at Princeton University (1978-84), the University of Virginia (1984-91) and Carnegie Mellon University (1991-94) before joining the University of Texas in 1994. From 1985 to 1987, he served in the U.S. Treasury Department as Deputy Assistant Secretary for Tax Analysis. His early research in public economics focused on computable general equilibrium models of taxation, marginal effective tax rates, the marginal cost of public funds, and the distributional effects of taxes on a lifetime basis. Recent research includes the distributional effects of social security. In environmental economics, he works on household disposal of garbage and recycling, policies for green design, the effects of the Superfund clean-up program, vehicle emission control policies, and other second-best policies where direct environmental taxes are not feasible.

Haab, Timothy

Department Chair and Professor

Ohio State University

Dr. Tim Haab is Department Chair and Professor at Ohio State University in the Department of Agricultural, Environmental and Developmental Economics. His research and teaching focus on environmental economics, experimental economics, and applied econometrics. Recent research has looked at the impacts of social norms on common pool resource management, modeling intertemporal decisions, measuring individual discount rates for environmental projects, the consistent modeling of individual welfare across value elicitation methods, and testing the stability of individual preferences in

the presence of external stimuli. Dr. Haab's recent applied research includes measuring the value of recreational angling in Ohio and Hawaii, measuring the value of oyster reef restoration in the Chesapeake Bay, and measuring consumer preferences for genetically modified foods. He has broad interests in the methodology and econometrics of nonmarket valuation, experimental economics, and applied welfare analysis. Dr. Haab joined the department in 2000 after five years on faculty at East Carolina University.

Johnson, F. Reed

Senior Fellow and Principal Economist

Research Triangle Institute

Dr. F. Reed Johnson is Distinguished Fellow and Principal Economist at Research Triangle Institute (RTI) and is a member of RTI's Scientific Advisory Council. Dr. Johnson received his B.A. degree in economics from Occidental College in Los Angeles and his Ph.D. degree in economics from the State University of New York at Stony Brook. He has served on the economics faculties of Illinois State University, Simon Fraser University, the Stockholm School of Economics, the University of Stockholm, Linköping University, and the U.S. Naval Academy, and the public policy department at the University of North Carolina at Chapel Hill. He has been awarded a Brookings Economic Policy Fellowship and two Fulbright-Hayes scholarships to Sweden. He previously worked as a staff economist in the Office of Policy Analysis, U.S. Department of the Interior, and in the Office of Policy, Planning, and Evaluation, U.S. Environmental Protection Agency and has served on EPA's Science Advisory Board. As a staff member in the U.S. Environmental Protection Agency's environmental economics research program during the 1980s, Dr. Johnson helped pioneer development of basic non-market valuation techniques. These techniques now are widely used for benefit-cost analysis in environmental and health economics. He has designed and analyzed numerous surveys for measuring preferences and willingness to pay for improved environmental quality and health-risk reductions. Dr. Johnson is a recognized leader in applying stated-preference methods to quantify tolerance for serious medical adverse-event risks. Among his nearly 120 peer-reviewed publications in environmental and health economics, he has co-authored about half of all the published studies on this topic in scientific journals. He recently led a major study for the US Food and Drug Administration on incorporating risk-tolerance data in regulatory decision making.

Kanninen, Barbara

Owner

BK Econometrics

Dr. Barbara Kanninen is the owner of BK Econometrics, LLC, a DC-area company that specializes in the design and analysis of stated-choice data for nonmarket valuation, especially for environmental and health applications. Prior to opening her company, Dr. Kanninen was an Assistant Professor at the Hubert H. Humphrey Institute of Public Affairs at the University of Minnesota, a senior economist at the National Oceanic and Atmospheric Administration, and a Gilbert F. White Fellow at Resources for the Future. Dr. Kanninen has a Bachelor's degree in Business Administration from Ohio University, a M.S. in Economics from Texas A & M University, and a Ph.D. in Agricultural and Resource Economics from the University of California at Berkeley. In 2009, she was the co-recipient of the prestigious Publication of Enduring Quality Award from the Agricultural and Applied Economics Association. Her research has been funded by the National Science Foundation and the Environmental Protection Agency. She is the editor of a well-regarded, academic book on the valuation of environmental amenities and the author of a number of peer-reviewed journal articles, published in journals such as *Land Economics*, *Journal of Environmental Economics and Management*, *American Journal of*

Agricultural Economics, Journal of Marketing Research and Transportation Research.

Khanna, Madhu

Professor

University of Illinois at Urbana-Champaign

Dr. Madhu Khanna is a Professor in the Department of Agricultural and Consumer Economics at the University of Illinois at Urbana-Champaign. She received her Ph.D. from the University of California at Berkeley. Her research focuses on environmental policy analysis and incentives for adoption of environmentally friendly technologies. She has examined the effectiveness of alternative market based instruments for inducing the adoption of best management practices in agriculture such as precision farming and improved irrigation methods and the targeting of green payment policies for reducing nitrogen run off and sediment from cropland. She has also examined the motivations and effectiveness of voluntary approaches to environmental protection. Her current work is examining the economics and land use implications of biofuel production. Her research is currently funded by the National Science Foundation, U.S. Department of Energy, Energy Biosciences Institute, University of California, Berkeley. Professor Khanna's teaching responsibilities have included undergraduate and graduate courses in international trade and environmental economics. She has received several teaching and research awards and was supervisor of the recipient of an Outstanding Thesis Award in 2002 from the American Association of Agricultural Economics. She was selected as a University of Illinois Scholar for 2004-07 and a Leopold Leadership Fellow of the Woods Institute at Stanford University in 2010. She has served on review panels for the EPA and the U.S. Department of Agriculture and on the Board of Directors of the Association of Environmental and Resource Economists. She current serves as the Chair of the Board of the South Asian Network of Development and Environmental Economics and is an Associate Member of the Standing Panel on Impact Assessment of CGIAR (Consortium of International Agricultural Research). She has served on the editorial boards of several agricultural and environmental economics journals and is currently the Editor of the *American Journal of Agricultural Economics*.

O'Brien, John

CEO

Vista Energy Group

Dr. John O'Brien is President and Chief Executive Officer (CEO) of the Vista Energy Group and Managing Partner at Shale and Sands Oil Recovery. He is also a former Commissioner on the Florida Energy Commission (term ended in December 2008) and is a member of Flagler College's Public Administration faculty. He has also provided subject matter expert services and expert witness services in numerous litigations. He also served as President and CEO of Global Change Associates, Principal at Skipping Stone, Inc.; Founder, President and CEO several energy companies and served as a Full Scientist at the U.S. Department of Energy's Brookhaven National Laboratory in the Department of Nuclear Energy. His areas of expertise include the restructuring and functioning of the electric, natural gas and oil markets and infrastructure in the U.S. and Canada; nuclear energy technology development; solar electric generation development and regulation; energy market planning and analysis; investment banking and analysis in the energy sector; founding and building energy businesses; patent writing, submission and prosecution; clean coal technologies; generation plant siting, permitting and project finance; mergers and acquisitions; mineral rights and royalty issues; and energy management and accounting systems, among others.

Ready, Richard

Professor

The Pennsylvania State University

Dr. Richard Ready is Professor of Agricultural and Environmental Economics at Pennsylvania State University. Dr. Ready received an M.A. and a Ph.D. in Agricultural and Resource Economics from the University of Wisconsin in 1985 and 1988 respectively, and a B.S. in Fishery Science from Cornell University in 1981. Dr. Ready's research focuses on the economic valuation of ecosystem services with particular emphasis on how ecosystem services are affected by land use change, climate change, and invasive species. Dr. Ready's research integrates models of ecological, geophysical, and demographic processes into economic valuation models to evaluate future changes in ecosystem services and their values, and how those values would be affected by policy actions. Recent examples include research to project the impact of land use change and climate change on wetland hydrology and research on the impact of invasive species on outdoor recreation. Dr. Ready has authored or co-authored articles appearing in the *American Journal of Agricultural Economics*, *Journal of Environmental Economics and Management*, *Environmental and Resource Economics*, *Ecological Economics*, and *Water Resources Research*. He has served on editorial boards of *Land Economics* and *American Journal of Agricultural Economics*. Dr. Ready's research has been supported by the U.S. Environmental Protection Agency, the U.S. Department of Agriculture, the U.S. Forest Service, and the U.S. Army Corps of Engineers.

Reilly, John

Senior Lecturer and Co-Director

Massachusetts Institute of Technology

Dr. John Reilly is the Co-Director of the Joint Program on the Science and Policy of Global Change and Senior Lecturer in the Sloan School at the Massachusetts Institute of Technology (MIT). Much of his 20-year research career has focused on the economics of climate change, including modeling of energy use and carbon emissions and on the economic impacts of climate change on agriculture as well as consideration of agriculture and forestry sinks. He has published numerous articles, books, and reports on the economics of climate change and on other issues related to natural resources, technology, and energy use and supply. He was a principal author for the agricultural impacts chapter of the Intergovernmental Panel on Climate Change (IPCC) Second Assessment Report, co-chaired the agricultural sector assessment of the U.S. National Assessment on Climate Variability and Change, and has served on many U.S. federal government and international committees. Prior to joining MIT in 1998, he spent 12 years with the Economic Research Service of USDA, most recently as the Acting Director and Deputy Director for Research of the Resource Economics Division. He has been a scientist with Battelle's Pacific Northwest National Laboratory and with the Institute for Energy Analysis, Oak Ridge Associated Universities. He received his Ph.D. in Economics from the University of Pennsylvania in 1983 and holds a B.S. in Economics and Political Science from the University of Wisconsin.

Swallow, Stephen

Professor

University of Connecticut

Dr. Stephen K. Swallow is Professor of Environmental Economics in the Department of Agricultural and Resource Economics and Center for Environmental Sciences and Engineering at University of Connecticut. He received a B.S. (1982) from Cornell University in Natural Resources and Applied Ecology, and a M.S. (1986) and Ph.D. (1988) from Duke University in Resource Economics. His research has involved the economics of ecosystem management including forest management models

and integration of renewable and nonrenewable resource theories, methods and applications of valuation, particularly stated preferences applied to conservation of farm, forest, open space, watershed management, or rural community development, integration of metapopulation ecology with rural development including wetlands, development of incentive mechanisms for conservation, experimental economics for provision of public goods, and development of field markets for ecosystem services. He has received funding from the U.S. Department of Agriculture, National Science Foundation (NSF) and the Environmental Protection Agency, and served in several committed for the NSF Long Term Ecological Research Network's Decadal Plan and U.S. Forest Service Fire Science Review Panel. He has published in the *American Journal of Agricultural Economics (AJAE)*, *Journal of Environmental Economics and Management (JEEM)*, *Land Economics*, *Journal of Public Economics*, *Southern Economic Journal*, *Conservation Biology*, *Ecological Applications*, and others, and he recently received a U.S. patent for auction processes for public goods. He served as an Associate Editor of JEEM, Editor of AJAE, and has been a Director of Association of Environmental and Resource Economists and Northeastern Association of Agricultural and Resource Economists, serving the latter also as President and Distinguished Member.

Vossler, Christian

Associate Professor

University of Tennessee

Dr. Christian Vossler is an Associate Professor of Economics, Director of the Experimental Economics Laboratory, and Research Fellow of the Howard H. Baker Jr. Center for Public Policy at the University of Tennessee, Knoxville. Professor Vossler received a B.S. in Environmental and Resource Sciences from the University of Nevada (1997), an M.S. in Agricultural & Resource Economics from Oregon State University (1999), and a Ph.D. in Applied Economics from Cornell University (2003). Professor Vossler is an applied microeconomist and econometrician whose research primarily focuses on environmental and public economics issues. Much of his research has centered on non-market valuation methods used to estimate the benefits of environmental and other public goods, with special attention to issues of mechanism design and the external validity of survey-based valuation methods. Other research areas include the development and testing of pollution control instruments and mechanisms to motivate regulatory compliance, and the interaction between social preferences and public goods provision. Dr. Vossler's research has been supported by EPA, Internal Revenue Service and the U.S. Air Force. He currently serves on the Editorial Council of the *Journal of Environmental Economics and Management* and is an Associate Editor of *Environmental & Resource Economics*.

Williams,Roberton

Associate Professor

University of Maryland

Dr. Roberton C. Williams III is an Associate Professor in the Department of Agricultural and Resource Economics at the University of Maryland, College Park, Senior Fellow and Director of Academic Programs at Resources for the Future, and a Research Associate of the National Bureau of Economic Research. Before moving to Maryland, he was an Associate Professor of Economics at the University of Texas at Austin, and he has previously held visiting research positions at the Brookings Institution and Stanford University. He has served as a Co-Editor of the *Journal of Public Economics* and the *Journal of Environmental Economics and Management*. He holds a Ph.D. from Stanford University and an A.B. from Harvard College, both in Economics. Dr. Williams' research focuses primarily on taxation and environmental regulation, covering broad theoretical questions such as how to measure the effects of taxes and regulations on economic efficiency as well as specific policy issues such as gasoline taxation

and climate change policy.