

## MICHAEL J. SCOTT

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Expertise: Natural resource and environmental economics; energy economics; regional economics; socioeconomic impact; environmental justice

### EDUCATION

B.A.	Economics, Washington State University	1970
M.A.	Economics, University of Washington	1971
Ph.D.	Economics, University of Washington	1975

### EXPERIENCE

Dr. Scott is a Senior Staff Scientist with Pacific Northwest National Laboratory in Richland, Washington with a Ph.D. in economics and over 35 years of experience in microeconomic and macroeconomic modeling. Dr. Scott's training and experience in natural resource economics, regional economics, public finance, and applied economic analysis has been utilized in a wide variety of projects. He has directed and participated in dozens of benefit-cost studies and evaluations of the national and regional impacts of economic development. He has worked on numerous projects involving practical problems of state and local governments.

#### Natural Resource Economics.

Global Change. Over the last twenty years, Dr. Scott has specialized in studying the effects of global environmental change on natural resources and the economy, particularly impacts on human systems and uncertainty. Highlights include his management of a current project designing Monte Carlo analysis into an integrated assessment model of global change. He managed the Department of Energy's \$1M-plus Resources Analysis Research Project (MINK Study) to estimate the comprehensive regional economic consequences of global warming and CO<sub>2</sub> fertilization, in which he also contributed to the uncertainty analysis of outcomes. This was followed by a more limited effort for the Department of Energy to analyze similar questions in the Pacific Northwest, focused on water supply and utilization of the Columbia River by hydropower, irrigation, and fisheries interests. He was one of the co-authors of the multi-laboratory, DOE study for the Congress to estimate the feasibility and cost to the U.S. economy of achieving major reductions in CO<sub>2</sub> and other greenhouse gas emissions over the next 10 to

20 years, and is following up this activity with analysis of the consequences of climate change for energy consumption and a second report to the Congress comparing policy instruments for limiting greenhouse gas emissions. Dr. Scott has also contributed to the agricultural sections of an international, computable, general-equilibrium economic model to be used by DOE to estimate the effects of economic development and policy on global warming (the SGM). He was a convening lead author for the IPCC 1995 Assessment Climate Change 1995: Impacts, Adaptation, and Mitigation of Climatic Change in the topic area of Human Settlements, a coordinating lead author for human settlements impacts in the IPCC Third Assessment Report Climate Change 2001: Impacts Adaptation and Vulnerability, a contributing author to the IPCC Special Report The Regional Impacts of Climate Change, and a lead author for the North American chapter of the IPCC Fourth Assessment Report. The IPCC won the Nobel Peace Prize in October 2007 “for their efforts to build up and disseminate greater knowledge about man-made climate change, and to lay the foundations for the measures that are needed to counteract such change.” His current research is in the areas of impacts of climate change on energy consumption in buildings and irrigated agriculture, and the impacts of uncertainty and non-CO<sub>2</sub> gases in integrated assessment models.

Other Natural Resources Issues. Dr. Scott's doctoral dissertation concerns the economics of the organization of oil fields. It advances the thesis, tested on Texas data, that state regulations, historically designed to allocate oil production within and among oil fields, can be explained as an effort by the oil industry itself to minimize bargaining costs. He has also analyzed the oil supply costs in foreign oil fields and analyzed oil bid leasing models utilized by the State of Alaska. Dr. Scott is a widely-published author on the practical problems and solutions of evaluating environmental benefits, especially when natural systems' benefits are not well-specified. He has published several journal articles and monographs on the relationships of the economic value of Pacific salmon and their environment, including the potential effects of hydroelectric dams on the Columbia River, global climate change and tributary conditions in the Pacific Northwest, and petroleum transportation on Puget Sound. He has also published on the economic benefits of “non-glamorous” resources, in which he provided estimates of the economic value of undeveloped shrub-steppe habitat, and an analysis of the linkages between unvalued habitat and economically valued functions.

Regional Economics. Dr. Scott developed a number of small-region economic models and conducted numerous regional analyses using a variety of regional models and methods to estimate the local economic and demographic effects of monitored retrievable nuclear waste storage systems in Tennessee; closure of aluminum mills in the Pacific Northwest, coal mines in Appalachia, and nuclear power plants in the Pacific Northwest and the U.S. Southeast; radioisotope production in New Mexico, Tennessee, and Idaho; and expansion or contraction of economic activity in a variety of sectors and locations.

Dr. Scott has prepared environmental justice sections for environmental impact statements for the K-Basin reactors at the Hanford Site, for four separate sites for Molybdenum-99 production, and for the Watts Bar nuclear power plant site. He has prepared environmental review guidance for the Nuclear Regulatory Commission on socioeconomics and environmental justice (NUREG-1555 and NUREG-1555, Supplement 1). He prepared socioeconomics and

environmental justice sections of environmental impact statements for Department of Energy on management of solid wastes at the Hanford site and for NRC on the Calvert Cliffs, Oconee, Arkansas No.1, Edwin Hatch, and Peach Bottom nuclear power plants and an environmental justice analysis for the NRC at the PFS independent spent fuel storage facility at Skull Valley, Utah and the National Enrichment Facility at Eunice, New Mexico. He prepared socioeconomic impact and environmental justice analyses for the NRC early site permits for nuclear reactors at Grand Gulf and North Anna, and socioeconomic impact, environmental justice, need for power and benefit cost analyses for NRC for combined operating licensing actions for North Anna Unit 3 and South Texas Plant Units 3 and 4.

Applied Economic Analysis. Dr. Scott has conducted several studies to resolve practical program problems of governments at all levels. At Pacific Northwest National Laboratory he has directed the development of an econometric/end-use electric load forecasting model to estimate the demand for electric generating capacity in Alaska and has forecasted the demand for electric power in the European republics of the Former Soviet Union. Before coming to PNNL, he developed a low-cost price index to allocate public school foundation program funds to school districts and devised a method of administratively determining child support payments for divorced couples in accordance with federal guidelines. He helped develop a strategy for allocating minimum water flows among competing users for the State of Washington. He has conducted studies estimating the economic benefit of basic and applied science funded by the Department of Energy, options for supplying local jail services and privatized waste management, and market studies to analyze purchasing patterns of consumers, industry, and government. He prepares periodic reports on the economic diversification and growth in the Tri-Cities area of Washington State. Dr. Scott supports the U.S. Department of Energy in rulemakings for energy efficiency of residential appliances and commercial equipment, conducting life-cycle cost assessment, forecasting of product shipments, assessment of national energy savings, national economic impact, and employment impact.

#### PROFESSIONAL AFFILIATIONS

- American Economic Association
- Western Economic Association
- American Agricultural Economics Association
- American Geophysical Union
- Board of Directors, Pacific Northwest Regional Economic Conference

#### REGULATORY PUBLICATIONS

U.S. Nuclear Regulatory Commission (NRC) [Principal Author, Socioeconomics and Environmental Justice, Need for Power, Benefit-Cost Balance]. 2011. Environmental Impact Statement for Combined Licenses (COLs) for South Texas Project Electric Generating Station Units 3 and 4. Final Report. NUREG-1937. U.S. Nuclear Commission, Washington, D.C.

U.S. Department of Energy [Principal Author, Life Cycle Cost, Shipments, National Energy and National Impact Analysis, Environmental Impacts, Regulatory Impacts]. 2009. *Final Rule Technical Support Document (TSD):Energy Efficiency Standards For Commercial and Industrial Equipment: Refrigerated Bottled Or Canned Beverage Vending Machines*. U.S. Department of Energy Assistant Secretary, Office of Energy Efficiency and Renewable Energy, Building Technologies Program, Appliances and Commercial Equipment Standards Washington, DC 20585. August 9, 2009.  
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U.S. Nuclear Regulatory Commission, Office of Nuclear Reactor Regulation [Principal Author, Socioeconomics and Environmental Justice]. 2003. Generic Environmental Impact Statement for License Renewal of Nuclear Power Plants. Supplement 13: Regarding the H.B. Robinson Steam Electric Plant, Units No. 2. NUREG-1437, Supplement 13. U.S. Nuclear Regulatory Commission, Bethesda, Maryland.

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Julie A. Vano, Michael Scott, Nathalie Voisin, Claudio O. Stöckle, Alan F. Hamlet, Kristian E.B. Mickelson, Marketa McGuire Elsner, and Dennis P. Lettenmaier. 2009. "Climate change impacts on water management and irrigated agriculture in the Yakima River Basin, Washington, USA." in *Washington Climate Impacts Assessment: Evaluating Washington's Future in a Changing Climate*. Jeremy Littell, Marketa McGuire Elsner, Lara Whitely Binder, and Amy Snover (eds). Climate Change Impacts Group, University of Washington, Seattle, 407 pp..

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