



MEMORANDUM

August 27, 2012

To: House Subcommittee on Energy and Environment, Committee on Science, Space and Technology
Attention: Clint Woods

From: Linda-Jo Schierow, Specialist in Environmental Policy, 7-7279, lschierow@crs.loc.gov

Subject: EPA Grants to Members of Selected EPA Advisory Committees

This memorandum responds to your request for information about current and past grants from the U.S. Environmental Protection Agency (EPA) to members of the following five federal advisory committees that serve the EPA:

- Advisory Council on Clean Air Compliance Analysis (ACCACA);
- Board of Scientific Counselors (BOSC);
- Clean Air Scientific Advisory Committee (CASAC);
- Science Advisory Board (SAB); and
- Science Advisory Panel (SAP).

The results were obtained by searching the EPA's National Center for Environmental Research (NCER) Project Database. Members of each committee and the amounts and titles of grants that supported their work are listed in **Table 1**, organized by committee. It is important to note that only EPA research grants are included in Table 1. The table excludes state and local government grants (some of which may ultimately be funded by a federal grant to the state or local entity), as well as grants provided by the private sector, although some committee members have received such grants.

Another key clarification is that while we refer to these grants as being "to" particular committee members, in fact they typically are to the academic institution where the member is employed, and only a very small proportion, if any, of the grant is paid in the form of salary to the member. Committee members were identified only if they were listed as Principal Investigators or Co-Investigators, whose role generally is to lend expert advice and to oversee work done by graduate students or post-doctoral fellows. In some cases, grants are for major national research centers that house numerous research projects and potentially involve dozens of students and post-doctoral fellows and several professors. Funding for specific projects supported by these centers is not specified in the NCER database and not reported in Table 1. Similarly, some research grants were for projects that are funded through the public-private Health Effects Institute or university consortia known as Hazardous Substance Research Centers. The latter centers were established under the Comprehensive Emergency Response, Compensation, and Liability Act (CERCLA) section 311(d) and are jointly funded by EPA and the National Institute for

Environmental Health Sciences. NCER does not provide funding information for these projects, and Table 1 does not include such information.

Finally, it is also important to note that grants may be listed more than once if they were received by several committee members. In addition, some grants are provided by multiple agencies, and the multi-agency total for the project may be stated in the database, although only a portion of the funding derives from EPA's budget. For this reason it would be inappropriate to sum the grant amounts to obtain a total EPA funding amount across committee members. Grant amounts are rounded to the nearest \$1,000.

I hope that you find this information useful. Please contact me if you would like additional assistance.

Table I. EPA Grants to Members of Five EPA Advisory Committees

Committee Member	Affiliation	EPA Grants
Advisory Council on Clean Air Compliance Analysis (ACCACA)		
Pope III, C. Arden (Chair)	Brigham Young University (UT)	<p>2011-2013, \$300,000 - The Effect of Air Pollution Control on Life Expectancy in the United States</p> <p>2011-2014, \$299,000 – Associations of Short-Term Pollution Exposures with Childhood Autoimmune Disease</p> <p>2000-2003, \$797,000 – Relationship between PM2.5 Semi-volatile Organic Material, Other PM2.5 Components, and Heart Rate Variability in the Elderly</p> <p>2000-2005 (Funded by the Health Effects Institute) - Daily Changes in Oxygen Saturation and Pulse Rate Associated with Particular Air Pollution and Barometric Pressure</p>
Amar, Praveen	Clean Air Task Force (MA) (Formerly with the Northeast States for Coordinated Air Use Management, NESCAUM)	<p>2011-2014, \$900,000 – Linking Regional Air Emission Changes with Multiple Impact Measures through Direct and Cloud-Related Forcing Estimates</p> <p>2009-2012, \$600,000 – Regional Air Quality Management Aspects of Global Change</p> <p>2009-2012, \$600,000 – Air Pollution, Health and Economic Impacts of Global Change Policy and Future Technologies</p> <p>2003-2006, \$899,900 – Sensitivity and Uncertainty Assessment of Global Climate Change Impacts on Ozone and Particulate Matter</p>
Bell, Michelle	Yale University (CT)	<p>2010-2015 (Funded by the Center for Air Pollution Mixtures: Health Effects across Life Stages) - A National Study to Assess Susceptibility, Vulnerability, and Effect Modification of Air Pollution Health Risks</p> <p>2005-2010, \$7,993,000 – Johns Hopkins Particulate Matter Research Center, including the project “Estimation of the Risks to Human Health of PM and PM Components”</p> <p>2008-2011, \$893,000 – Spatial Temporal Analysis of Health Effects Associated with Sources and Speciation of Fine PM</p> <p>2007-2009, \$230,000 – Incorporating Uncertainty Analysis into Integrated Air Quality Planning</p> <p>1998-2001, \$102,000 (fellowship) – The Impact of Global Climate Change on Urban Air Pollution and Human Health</p>

Committee Member	Affiliation	EPA Grants
Boyle, Kevin	Virginia Tech (VA)	2007-2008, \$194,000 – Validation of Benefit-Transfer Functions 2003-2006, \$127,000 – Experimental Tests of Provision Rules in Conjoint Analysis for Environmental Valuation
Brandt, Sylvia	University of Massachusetts (MA)	2002-2006, \$328,000 – Valuing Reduced Asthma Morbidity in Children
Bui, Linda	Brandeis University (MA)	2006-2008, \$235,000 – Evaluating the Impact of Public Disclosure on Polluter Behavior
Fernandez, Ivan J.	University of Maine (ME)	1999-2002, \$894,000 – Effects of N Deposition on Gaseous N Loss from Temperate Forest Ecosystems 1997-2000, \$623,000 – Linking Watershed-Scale Indicators of Changes in Atmospheric Deposition to Regional Response Patterns
Gerking, Shelby	University of Central Florida (FL)	2006-2008, \$465,000 – Improving Methods for Morbidity Valuation and Benefit Transfer 2004-2006, \$245,000 – A Consistent Framework for Valuing Latent Morbidity and Mortality Risks to Adults and Children 2001-2003, \$347,000 – Environmental Risks to Children’s Health : Parents' Risk Beliefs, Protective Behavior, and Willingness to Pay
Hansen, D. Alan	Independent Consultant (CA)	None
Levy, Jonathan	Boston University (MA)	2010-2013, \$750,000 – Effects-Based Cumulative Risk Assessment in a Low-Income Urban Community near a Superfund Site 2003-2006, \$1,018,000 – Cardiovascular Responses to Particulate Exposure 1999-2005 (Funded by the EPA Harvard Center for Ambient Particle Health Effects) - Modeling Relationships Between Mobile Source Particle Emissions and Population Exposures 1999-2005, \$7,747,040 - EPA Harvard Center for Ambient Particle Health Effects: Exposure, Susceptibility, and Mechanisms
Mauzerall, Denise	Princeton University (NJ)	None
Poirot, Richard L.	Vermont Agency of Natural Resources (VT)	None

Committee Member	Affiliation	EPA Grants
Russell, Armistead	Georgia Institute of Technology (GA)	<p>2010-2015, \$8,000,000 - The Southeastern Center for Air Pollution and Epidemiology</p> <p>2009-2012, \$600,000 – Regional Air Quality Management Aspects of Global Change</p> <p>2008-2012, \$900,000 – Improving Particulate Matter Source Apportionment for Health Studies</p> <p>2007-2010, \$500,000 – Development and Assessment of Environmental Indicators</p> <p>2005-2009, \$749,000 – Interaction of Ecosystems, Fires, Air Quality, and Climate Change in the Southeast</p> <p>2004-2007, \$445,000 – Integrated Source/Receptor-Based Methods for Source Apportionment and Area of Influence Analysis</p> <p>2004-2007, \$650,000 – Air Quality Emissions, Growth, and Change</p> <p>2003-2006, \$450,000 – Emissions Inventory and Process Reconciliation Using Molecular Markers and Hybrid/Inverse Photochemical Modeling with Direct Sensitivity Analysis</p> <p>2003-2006, \$899,000 – Sensitivity and Uncertainty Assessment of Global Climate Change Impacts on Ozone and Particulate Matter</p> <p>2002-2004, \$1,239,000 – Multiple Pollutants and Risk of Emergency Department Visits for Cardiorespiratory Outcomes in Atlanta</p> <p>1998-2003, \$3,000,000 - Research Consortium on Ozone and Fine Particle Formation in California and in the Northeastern United States</p> <p>1998-2000, \$3,000,000 – Southern Center for the Integrated Study of Secondary Air Pollutants</p> <p>1997-2000, \$300,000 – Cost-Benefit and Uncertainty Analysis for Ambient Ozone Reductions</p>
Smith, Richard	University of North Carolina (NC)	2006-2008, \$599,000 – Effects of Climate Change on Human Health
Walsh, Michael	Independent Consultant (VA)	None
Board of Scientific Counselors		
von Stackelberg, Katherine (Chair)	Harvard University and E Risk Sciences (MA)	<p>2007-2009, \$349,000 – Integrated Uncertainty Analysis to Support Effective Environmental Decision-Making</p> <p>2003-2006, \$267,000 - Contingent Valuation for Ecological and Noncancer Effects within an Integrated Human Health and Ecological Risk Framework</p>
Carney, Edward W.	The Dow Chemical Company (MI)	None
Cozzens, Susan E.	Georgia Institute of Technology (GA)	None

Committee Member	Affiliation	EPA Grants
Dilling, Lisa	University of Colorado (CO)	None
Falk, Henry	Retired	None
Haas, Charles N.	Drexel University (PA)	2005-2010, \$10,000,000 - Center for Advancing Microbial Risk Assessment
Nance, Earthea A.	University of New Orleans (LA)	None
Pataki, Diane E.	University of Utah (UT)	2007-2010, \$300,000 - Creating Sustainability Indicators to Assess the Physical, Social, and Economic Values of Greening Cities
Paustenbach, Dennis J.	ChemRisk, Inc. (CA)	None
Szostak, Rosemarie	Nerac, Inc. (CT)	None
Tharakan, John P.	Howard University (DC)	1989 (Funded by the Great Lakes/Mid Atlantic Hazardous Substance Research Center) - A Contained Simulation of Field Application of Genetically Engineered Microorganisms (Gems) for the Bioremediation of PCB Contaminated Soils
Thomas, Russell S.	The Hamner Institutes for Health Sciences (NC)	None
Zhuikov, Marie E.	Wisconsin Sea Grant Institute (WI)	None

Committee Member	Affiliation	EPA Grants
Clean Air Scientific Advisory Committee (CASAC)		
Samet, Jonathan M. (Chair)	University of Southern California (CA)	<p>2007-2010, \$500,000 - Statistical Models for Estimating the Health Impact of Air Quality Regulations</p> <p>2005-2010, \$7,993,000 - Johns Hopkins Particulate Matter Research Center</p> <p>2003-2006, \$1,034,000 - Chronic and Acute Exposure to Ambient Fine Particulate Matter and Other Air Pollutants: National Cohort Studies of Mortality and Morbidity</p> <p>2000-2003, \$1,377,000 - Implications of Climate Change for Regional Air Pollution, Health Effects and Energy Consumption Behavior</p> <p>2000-2005 (Funded by the Health Effects Institute, a public-private partnership partially funded by EPA) - The National Morbidity, Mortality, and Air Pollution Study: Methods and Methodologic Issues</p> <p>2000-2005 (Funded by the Health Effects Institute, a public-private partnership partially funded by EPA) - The National Morbidity, Mortality, and Air Pollution Study: Morbidity and Mortality from Air Pollution in the United States</p> <p>1996 (Funded by the Health Effects Institute, a public-private partnership partially funded by EPA) - Nitrogen Dioxide and Respiratory Illness in Children</p> <p>1993 (Funded by the Health Effects Institute, a public-private partnership partially funded by EPA) - Noninvasive Methods for Measuring Ventilation in Mobile Subjects</p>
Allen, George A.	Northeast States for Coordinated Air Use Management (MA)	<p>1998-2003, \$3,000,000 - Investigations of Factors Determining the Occurrence of Ozone and Fine Particles in Northeastern USA</p> <p>1996-1999, \$380,000 - Development and Validation of a Novel Technique to Measure Ambient Particle Properties: Bound Water, Mass Density, and Mean Diameter</p> <p>1998-2000, \$527,000 - Time-Relevant Communication of Ozone and Particulate Air Pollution Data: A Pilot Project to Raise Public Awareness and Promote Exposure Reduction</p>

Committee Member	Affiliation	EPA Grants
Diez-Roux, Ana	University of Michigan (MI)	2006-2009, \$576,000 - Heat-related Hospital Admissions Among the Elderly: Community, Socio-economic and Medical Determinants of Vulnerability and Economic Impacts 2003-2014, \$30,000,000 - Prospective Study of Atherosclerosis, Clinical Cardiovascular Disease, and Long-Term Exposure to Ambient Particulate Matter and Other Air Pollutants in a Multi-Ethnic Cohort 2003-2006, \$769,000 - Long-term Exposure to Ambient Particulate Matter and Subclinical Atherosclerosis
Frey, H. Christopher	North Carolina State University (NC)	2010-2013, \$500,000 - Framework for Context-Sensitive Spatially- and Temporally-Resolved Onroad Mobile Source Emission Inventories 2008-2011, \$893,000 - Spatial temporal analysis of health effects associated with sources and speciation of fine PM 2004-2009, \$680,000 - Advanced Modeling System for Forecasting Regional Development, Travel Behavior, and Spatial Pattern of Emissions 1998-1999, \$180,000 - Methods for Assessment of Pollution Prevention Technologies 1998-2001, \$329,000 - Probabilistic Modeling of Variability and Uncertainty in Urban Air Toxics Emissions 1998-2001, \$553,000 - Development and Demonstration of a Methodology for Characterizing and Managing Uncertainties in Emission Inventories
Russell, Armistead	Georgia Institute of Technology (GA)	See above under ACCACA, p. 4.
Suh, Helen	University of Chicago (IL)	2005-2010, \$3,215,000 - Harvard Particle Center 2003-2006, \$934,000 - Chronic Exposure to Particulate Matter and Cardiopulmonary Disease 1999-2005, \$7,747,000 - EPA Harvard Center for Ambient Particle Health Effects
Weathers, Kathleen	Cary Institute of Ecosystem Studies (NY)	None
Science Advisory Board		
Swackhamer, Deborah L. (Chair)	University of Minnesota (MN)	2001-2005, \$6,000,000 - EAGLES - Great Lakes Environmental Indicators Project 1996-1999, \$297,000 - Reducing Uncertainty in Estimating Toxaphene Loading to the Great Lakes
Alexeeff, George	California Environmental Protection Agency (CA)	None

Committee Member	Affiliation	EPA Grants
Allen, David T.	University of Texas (TX)	<p>2005-2008, \$969,000 - Texas Joint Center for Air Quality</p> <p>2005-2007, \$350,000 - Benchmarking Sustainability Engineering Education</p> <p>2004-2007, \$650,000 - Predicting the Relative Impacts of Urban Development Policies and On-Road Vehicle Technologies on Air Quality in the United States: Modeling and Analysis of a Case Study in Austin, Texas</p> <p>2004-2005, \$10,000 - Systems Approach to Recovery and Reuse of Organic Material Flows in Santa Barbara County to Extract Maximum Value and Eliminate Waste</p> <p>2003-2006, \$750,000 - Impacts of Climate Change and Land Cover Change on Biogenic Volatile Organic Compounds (BVOCs) Emissions in Texas</p> <p>2000-2004 (Funded by the Gulf Coast Hazardous Substance Research Center) - Engineering of Nanocrystal Based Catalytic Materials for Hydroprocessing of Halogenated Organics</p> <p>2000-2004 (Funded by the Gulf Coast Hazardous Substance Research Center) - Catalytic Hydroprocessing of Chlorinated Wastes</p> <p>2000-2003, \$325,000 - Development of Life Cycle Inventory Modules for Semiconductor Processing</p> <p>1997-2000 (Funded by the Gulf Coast Hazardous Substance Research Center) - Catalytic Hydroprocessing of Chlorinated Organics</p>
Alvarez, Pedro	Rice University (TX)	<p>2010-2013 - Manufactured Nanomaterials: Bioavailability & Environmental Exposure (nanoBEE)</p> <p>2009-2011, \$400,000 - Interactions of Natural Organic Matter with C60 Fullerene and their Impact on C60 Transport, Bioavailability and Toxicity</p> <p>2008-2011, \$400,000 - Effects of Quantum Dot on Microbial Communities</p> <p>2006-2009, \$400,000 - The Effect of Surface Coatings on the Environmental and Microbial Fate of Nanoiron and Feoxide Nanoparticles</p> <p>2005-2008, \$375,000 - Microbial Impacts of Engineered Nanoparticles</p> <p>2000-2002, \$195,000 - Effect of the Gasoline Oxygenate Ethanol on the Migration and Natural Attenuation of BTEX Compounds in Contaminated Aquifers</p> <p>1995-1998, \$246,000 - Biostimulation of BTX Degradation with Environmentally Benign Aromatic Substrates</p>

Committee Member	Affiliation	EPA Grants
Arvai, Joseph	University of Calgary (Canada)	1993-2000 (Funded by the Great Plains/Rocky Mountain Hazardous Substance Research Center) - The Role of Metallic Iron in the Biotransformation of Chlorinated Xenobiotics
Benitez-Nelson, Claudia	University of South Carolina (SC)	1999-2001, \$228,000 - Understanding Observed Differences in Time-Preference Rates
		1996-1998, \$102,000 - Phosphorus Cycling in the Gulf of Maine: A Multitracer Approach
Buller, Patricia	University of California at Berkeley (CA)	2009-2014 - \$7,409,000 - Center for Integrative Research on Childhood Leukemia and the Environment (CIRCLE)
Burke, Ingrid	University of Wyoming (WY)	1996-1999, \$1,590,000 - A Regional Assessment of Land Use Effects on Ecosystem Structure and Function in the Central Grasslands
Burke, Thomas	Johns Hopkins University (MD)	2008-2011, \$500,000 - Longitudinal Indicators of Policy Impact on Pollution, Exposure and Health Risk
Daniel, Terry	University of Arizona (AZ)	None
Daston, George	Procter and Gamble (OH)	None
Denson, Costel	Costech Technologies, LLC (DE)	None
Doering III, Otto C.	Purdue University (IN)	1996-1999, \$1,394,000 - Integrated Assessment of Economic Adaptation Strategies for Climate Change Impacts on Midwestern Agriculture
Dourson, Michael	Toxicology Excellence for Risk Assessment (OH)	None
Dzombak, David A.	Carnegie Mellon University (PA)	1998-2001, \$610,000 – Evaluation of Natural Amelioration of Acidic Deep Mine Discharges for Watershed Restoration
		1997-1999, \$499,000 - Bioavailability and Biostabilization of PCBs in Soil
Eighmy, T. Taylor	Texas Tech University (TX)	None
Faustman, Elaine	University of Washington (WA)	2009-2015, \$5,417,000 (Funded jointly with the National Institutes of Health) - Center for Child Environmental Health Risks Research
		2005-2008, \$750,000 - Integrating Innovative Biomarkers of Environmentally Induced Disease for Children in Agricultural Communities
		2003-2008, \$3,652,000 - Center for Child Environmental Health Risks Research
		1998-2003, \$3,545,000 - Center for Child Environmental Health Risks Research
		1996-1999, \$391,000 - Improving Methods for Identifying Noncancer Risks Application of Cell Kinetic Models for Methylmercury Risk Assessment

Committee Member	Affiliation	EPA Grants
Giesy, John P.	University of Saskatchewan (Canada)	2004-2007, \$750,000 - Chemical Induced Changes in Gene Expression Patterns Along the HPG-axis at Different Organizational Levels Using a Small Animal Model (Japanese medaka) 1996-1998, \$305,000 - Development of a Bioassay for AhR-mediated Toxicity to Rainbow Trout
Griffiths, Jeffrey K.	Tufts University (MA)	None
Hammit, James K.	Harvard University (MA)	2010-2013, \$750,000 - Effects-Based Cumulative Risk Assessment in a Low-Income Urban Community near a Superfund Site 2005-2007, \$333,000 - Valuing Morbidity Using Willingness to Pay and Health Utility Measures 2003-2006, \$267,000 - Contingent Valuation for Ecological and Noncancer Effects within an Integrated Human Health and Ecological Risk Framework 2003-2005, \$272,000 - Value of Reducing Children's Mortality Risk: Effects of Latency and Disease Type 1999-2005, \$7,747,000 - Ambient Particle Health Effects: Exposure, Susceptibility, and Mechanisms (EPA Harvard Center for Ambient Particle Health Effects) 1996-1999, \$378,000 - Valuation of Risks to Human Health: Insensitivity to Magnitude?
Harper, Barbara L.	Confederated Tribes of the Umatilla Indian Reservation (WA)	2003-2006, \$450,000 - Lifestyles and Cultural Practices of Tribal Populations And Risks from Toxic Substances in the Environment
Jones, Kimberly L.	Howard University (DC)	Years unspecified (Funded by the Great Lakes/Mid Atlantic Hazardous Substance Research Center) - Membranes for the Separation, Recovery, and Reuse of Surfactant/Contaminant Solutions
Kahn, Bernd	Georgia Institute of Technology (GA)	None
Kane, Agnes	Brown University (RI)	2008-2011, \$400,000 - Bioavailability, Environmental Transformation, and Detoxification of Core/Shell Nanomaterials 2004-2007, \$335,000 - Physical and Chemical Determinants of Nanofiber/Nanotube Toxicity
Khanna, Madhu	University of Illinois at Urbana-Champaign (IL)	2003-2006, \$252,000 - Oregon Business Decisions for Environmental Performance 2003-2006, \$287,000 - Pollution Prevention: The Role of Environmental Management and Information 1999-2001, \$242,000 - Business-led Environmental Management: Economic Incentives and Environmental Implications
Kim, Nancy K.	Health Research, Inc. (NY)	None
Lue-Hing, Cecil	Cecil Lue-Hing & Assoc. Inc. (IL)	None

Committee Member	Affiliation	EPA Grants
Meyer, Judith L.	University of Georgia (WA)	2000-2003, \$894,000 - The Impact of Lawn Care Practices on Aquatic Ecosystems in Suburban Watersheds 1995-1998, \$500,000 - Influences of Watershed Land Use on Stream Ecosystem Structure and Function
Mihelcic, James R.	University of South Florida (FL)	2004-2005, \$10,000 - P3 Design Project for an Interdisciplinary Team of Graduate Students: Development of Appropriate, Sustainable Construction Materials 1997-1999 (Funded by the National Center for Clean Industrial and Treatment Technologies) - Development of Environmental Indices for Green Chemical Production and Use
Moe, Christine	Emory University (GA)	2009-2012, \$599,000 - Measures of Distribution System Water Quality and Their Relation to Health Outcomes in Atlanta 2004-2007, \$590,000 - Examining Epidemiologic and Environmental Factors Associated with Microbial Risks from Drinking Water 2004-2007, \$1,223,000 - Drinking Water Quality and Emergency Visits for Gastroenteritis in Atlanta 2002-2005, \$1,821,000 - A Prospective Epidemiological Study of Gastrointestinal Health Effects Associated with Consumption of Conventionally Treated Groundwater 1998-2001, \$588,000 - Studies of the Infectivity of Norwalk and Norwalk-like Viruses
Moo-Young, Horace	California State University (CA)	None
Murphy, Eileen	Rutgers University (NJ)	None
Opaluch, James	University of Rhode Island (RI)	1998-2001, \$325,000 - Environmental Policy and Endogenous Technical Change: A Theoretical & Empirical Analysis 1995-1997, \$126,000 - Developing Conjoint Stated Preference Methods for Valuation of Environmental Resources Within Their Ecological Context
Patten, Duncan	Montana State University (MT)	2005-2007, \$293,000 - Land Use Land Cover Change Governing Watershed Nitrogen Threshold And Stream Water Quality 1999-2002, \$868,000 - Developing Effective Ecological Indicators for Watershed Analysis

Committee Member	Affiliation	EPA Grants
Polasky, Stephen	University of Minnesota (MN)	<p>1998-2001, \$810,000 - Developing Methods and Tools for Watershed Restoration: Design, Implementation, and Assessment in the Willamette Basin, Oregon</p> <p>1998-2000, \$131,000 - Land and Management with Biological and Economic Objectives</p> <p>1997-1999, \$1,229,000 - Modeling Effects of Alternative Landscape Design and Management on Water Quality and Biodiversity in Midwest Agricultural Watersheds</p> <p>1996-1998, \$271,000 - Decision-Making under Uncertainty in the Conservation of Biological Diversity</p>
Pope, III, C. Arden	Brigham Young University (UT)	See above under ACCACA
Roberts, Stephen M.	University of Florida (FL)	None
Rodewald, Amanda	The Ohio State University (OH)	None
Samet, Jonathan M.	University of Southern California (CA)	See above under CASAC
Sanders, James	Skidaway Institute of Oceanography (GA)	None
Schnoor, Jerald	University of Iowa (IA)	<p>1997-2000 (Funded by the Great Plains/Rocky Mountain Hazardous Substance Research Center) - Uptake of BTEX Compounds by Hybrid Poplar Trees in Hazardous Waste Remediation</p> <p>1993-1998 (Funded by the Great Plains/Rocky Mountain Hazardous Substance Research Center) - Fate and Transport of Heavy Metals and Radionuclides in Soil: The Impacts of Vegetation</p> <p>1993-2000 (Funded by the Great Plains/Rocky Mountain Hazardous Substance Research Center) - The Role of Metallic Iron in the Biotransformation of Chlorinated Xenobiotics</p> <p>1992-1994 (Funded by the Great Plains/Rocky Mountain Hazardous Substance Research Center) - Innovative Treatment and Bank Stabilization of Metals-Contaminated Soils and Tailings along Whitewood Creek, South Dakota</p> <p>1992-1996 (Funded by the Great Plains/Rocky Mountain Hazardous Substance Research Center) - Metals Soil Pollution and Vegetative Remediation</p> <p>1991-1994 (Funded by the Great Plains/Rocky Mountain Hazardous Substance Research Center) - Modeling the use of Plants in Remediation of Soil and Groundwater Contaminated by Hazardous Organic Substances</p>

Committee Member	Affiliation	EPA Grants
		1990-1993 (Funded by the Great Plains/Rocky Mountain Hazardous Substance Research Center) - Deep-Rooted Poplar Trees as an Innovative Treatment Technology for Pesticide and Toxic Organics Removal from Soil and Groundwater
		1989-1992 (Funded by the Great Plains/Rocky Mountain Hazardous Substance Research Center) - Modeling Dissolved Oxygen, Nitrate and Pesticide Contamination in the Subsurface Environment
Solomon, Gina	Natural Resources Defense Council (CA)	None
Stram, Daniel O.	University of Southern California (CA)	2005-2010, \$8,000,000 - Southern California Particle Center
		1999-2005, \$8,716,000 - Southern California Particle Center and Supersite
Thorne, Peter	University of Iowa (IA)	2004-2007, \$335,000 - Impacts of Manufactured Nanomaterials on Human Health and the Environment - A Focus on Nanoparticulate Aerosol and Atmospherically Processed Nanoparticulate Aerosol
		1995-1998, \$635,000 - Indoor Air Quality in Large Office Buildings in the Midwest
Tolbert, Paige	Emory University (GA)	2010-2015, \$8,000,000 - The Southeastern Center for Air Pollution and Epidemiology: Multiscale Measurements and Modeling of Mixtures
		2009-2012, \$599,000 - Measures of Distribution System Water Quality and Their Relation to Health Outcomes in Atlanta
		2008-2012, \$900,000 - Improving Particulate Matter Source Apportionment for Health Studies: A Trained Receptor Modeling Approach with Sensitivity, Uncertainty and Spatial Analyses
		2007-2010, \$500,000 - Development and Assessment of Environmental Indicators: Application to Mobile Source Impacts on Emissions, Air Quality and Health Outcomes
		2004-2007, \$1,223,000 - Drinking Water Quality and Emergency Visits for Gastroenteritis in Atlanta
		2002-2004, \$1,239,000 - Multiple Pollutants and Risk of Emergency Department Visits for Cardiorespiratory Outcomes in Atlanta
		1996-1999, \$360,000 - The Michigan PBB Cohort 20 Years: Endocrine Disruption?
Vena, John	University of Georgia (GA)	2002-2004, \$325,000 - Material Selection in Green Design and Environmental Cost Analysis
Watts, Robert	Tulane University (MD)	None
Zoeller, R. Thomas	University of Massachusetts (MA)	2004-2008, \$739,000 - Low-Dose Effects of Thyroid Toxicants on Neurodevelopment

Committee Member	Affiliation	EPA Grants
Scientific Advisory Panel		
Daniel Schlenk (Chair)	University of California at Riverside (CA)	1998-2001, \$898,000 - Effects of Interacting Stressors in Agricultural Ecosystems: Mesocosm and Field Evaluation of Multi-level Indicators of Wetland Responses 1997-2000, \$263,000 - Mechanism of Salinity-Induced Toxicity of Aldicarb in Euryhaline Fish
Marion F. Ehrich	Virginia-Maryland Regional College of Veterinary Medicine (VA)	1996-1999, \$358,000 – Refining an Alternative to the EPA’s Hen Test for OPs
Klaine, Stephen	Clemson University (SC)	2010-2013, \$2,000,000 - Consortium for Manufactured Nanomaterial Bioavailability & Environmental Exposure 2012-2013 - Manufactured Nanomaterials: Bioavailability & Environmental Exposure (nanoBEE) 2008-2011, \$400,000 - Influence of Water Quality on the Bioavailability and Food Chain Transport of Carbon Nanoparticles
LeBlanc, Gerald	North Carolina State University (NC)	2005-2008, \$585,000 - Systems Approach to Assessing Cumulative Exposure to Endocrine Disrupting Chemicals 2003-2006, \$392,000 - Mechanistic Approach to Screening Chemicals and Mixtures for Endocrine Activity Using an Invertebrate Model 2001-2006, \$465,000 - Mechanistic Evaluation of the Toxicity of Chemical Mixtures 1997-2000, \$406,000 - Metabolic Androgenization of Invertebrates by Endocrine-Disrupting Chemicals
McManaman, James	University of Colorado (CO)	None
Pope, Carey	Oklahoma State University (OK)	1998-2000, \$438,000 - Age and Interactive Toxicity of Organophosphorus Insecticides
Sandy, Martha S.	California Environmental Protection Agency (CA)	None

Source: Membership lists are from EPA websites at: “Members of the Advisory Council on Clean Air Compliance Analysis,”

<http://yosemite.epa.gov/sab/sabpeople.nsf/WebExternalCommitteeRosters?OpenView&committee=COUNCIL&secondname=Advisory%20Council%20on%20Clean%20Air%20Compliance%20Analysis%20>; “Board of Scientific Counselors, Executive Committee,” <http://www.epa.gov/osp/bosc/exec-comm.htm>; “Members of the Clean Air Scientific Advisory Committee,” <http://yosemite.epa.gov/sab/sabpeople.nsf/WebExternalCommitteeRosters?OpenView&committee=CASAC&secondname=Clean%20Air%20Scientific%20Advisory%20Committee>; “Members of the Science Advisory Board,” (<http://yosemite.epa.gov/sab/sabpeople.nsf/WebExternalCommitteeRosters?OpenView&committee=BOARD&secondname=Science%20Advisory%20Board>); and “Scientific Advisory Panel, Members,” <http://www.epa.gov/scipoly/sap/members.htm>. Grants are from the EPA National Center for Environmental Research (NCER) Project Database at (http://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/search.welcome).

Notes: Grants are for projects identified for which the person in question is either a principal investigator or a co-investigator. Grants generally are assigned to the academic institution where the member is employed, and only a very small proportion, if any, of the grant is paid in the form of salary to the member. In some cases, grants are for major

national research centers that house numerous research projects and potentially involve dozens of students and post-doctoral fellows and several professors at several institutions. Grant amounts are rounded to the nearest \$1,000. Project funding amounts also may be listed more than once, because more than one committee member may receive funding from the same grant. In addition, some grants are provided by multiple agencies, and the multi-agency total for the project may be stated in the database, although only a portion of the funding derives from EPA's budget. For this reason it would be inappropriate to sum the grant amounts to obtain a total EPA funding amount across committee members.
