Biographies

Center for Sustainable Shale Development

Board of Directors

Armond Cohen
Jared Cohon
Nicholas Deluliis
Paul Goodfellow
George Jugovic
Fred Krupp
Jane Long
Bruce Niemeyer
Paul O’Neill
David Porges
Robert Vagt
Christie Todd Whitman

Strategic Partner Representatives, March 20, 2013

CSSD and EQT – Andrew Place
Chevron – Bruce Niemeyer, Chevron
Citizens for Pennsylvania’s Future – Heather Sage
Clean Air Task Force – Conrad Schneider
Environmental Defense Fund – Mark Brownstein
Group Against Smog and Pollution – Joe Osborne
The Heinz Endowments – Robert Vagt
Pennsylvania Environmental Council – Davitt Woodwell
Shell – Paul Goodfellow

Biographies (alphabetical order)

Mark Brownstein is Associate Vice President & Chief Counsel of the U.S. Climate & Energy Program at Environmental Defense Fund and leads EDF’s natural gas efforts. Additionally, he is an Adjunct Professor of International and Public Affairs at Columbia’s School of International and Public Affairs (SIPA) and a Governance Committee member of The Coalition on the Environment and Jewish Life (COEJL). Mr. Brownstein also specializes in utility-related issues, including transmission development, wholesale and retail electric market design, rate reform, and power plant siting and investment. Mr. Brownstein was one of two EDF staff leads on the United States Climate Action Partnership, a coalition of the nation’s leading corporations and environmental groups championing immediate action on federal legislation to cap and substantially reduce greenhouse gas pollution across the economy. He is co-author of the Carbon Principles, a set of enhanced due diligence principles for investment banks considering the financing of coal fired power plants.

Prior to joining EDF, Mr. Brownstein was Director of Enterprise Strategy for Public Service Enterprise Group (PSEG), where he worked directly with PSEG’s senior leadership in crafting and implementing the
corporation’s business strategy. Over his nearly ten year career with PSEG, Mr. Brownstein served the company in a variety of environmental management roles, including Director of Environmental Strategy and Policy. Mr. Brownstein was active in numerous environmental legislative and regulatory proceedings including efforts to develop federal legislation limiting emissions of sulfur dioxide, nitrogen oxides, mercury, and carbon dioxide from power plants, and the Environmental Council of States’ (ECOS) 37-state Ozone Transport Assessment Group (OTAG) process, which developed specific recommendations to address the persistent problem of ozone transport in the eastern United States. Mr. Brownstein was also an active member of the U.S. EPA’s Clean Air Act Advisory Committee and New Jersey’s Renewable Energy Task Force.

Prior to PSEG, Mark also spent time as an attorney in private environmental practice, a regulator with the New Jersey Department of Environmental Protection, and an aide to former Congressman Robert G. Torricelli (D–NJ).

Armond Cohen (CSSD Board Member) is co-founder and Executive Director of the Clean Air Task Force (CATF), a nonprofit organization dedicated to reducing atmospheric pollution and commercializing innovative clean energy technology. Since 1996, CATF has led the national effort to reduce harmful air emissions from the US energy system, with a recent focus on developing national CO2 performance standards for the nation’s fossil units, and control of air emissions from gas and oil extraction. CATF also works with the natural gas industry to develop and implement best practices to limit emissions.

Mr. Cohen is a member of the Advisory Council of the Electric Power Research Institute, and served on the Policy Subgroup of the recent National Petroleum Council 2011 study, “Prudent Development – Realizing the Potential of North America’s Abundant Natural Gas and Oil Resources.” He is an honors graduate of Harvard Law School and Brown University.

Jared Cohon (CSSD Board Member) has been President of Carnegie Mellon University since 1997. He came to Carnegie Mellon from Yale, where he was Dean of the School of Forestry and Environmental Studies from 1992 to 1997. He started his teaching and research career in 1973 at Johns Hopkins, where he was a faculty member in the Department of Geography and Environmental Engineering for 19 years. He also served as Assistant and Associate Dean of Engineering and Vice Provost for Research at Johns Hopkins. Dr. Cohon earned a B.S. degree in civil engineering from the Massachusetts Institute of Technology in 1973.

An author, coauthor, or editor of one book and more than 80 professional publications, Dr. Cohon is an authority on environmental and water resource systems analysis, an interdisciplinary field that combines engineering, economics and applied mathematics. He has worked on water resource problems in the United States, South America and Asia and on energy facility siting, including nuclear waste shipping and storage. In addition to his academic experience, he served in 1977 and 1978 as legislative assistant for energy and the environment to the late Honorable Daniel Patrick Moynihan, United States Senator from New York. President Bill Clinton appointed Dr. Cohon to the Nuclear Waste Technical Review Board in 1995 and appointed him as chairman in 1997. His term on the Board ended in 2002. President George W. Bush appointed Dr. Cohon in 2002 to the Homeland Security Advisory Council, and President Barack Obama reappointed him in 2009.

During his presidency, Carnegie Mellon has continued along its trajectory of innovation and growth. Priorities have included: undergraduate education; new interdisciplinary initiatives in information
technology, biotechnology, energy and environment, and the fine arts and humanities; diversity; international initiatives; and the economic development of southwest Pennsylvania.

**Nicholas J. DeIuliis (CSSD Board Member)** is the President of CONSOL Energy. He has over 22 years of experience with the company and in that time has held positions of Chief Operating Officer, Senior Vice President of Strategic Planning, and earlier in his career various engineering positions. He was a Director, President and Chief Executive Officer of CNX Gas Corporation from 2005 to 2009. Mr. DeIuliis is a director at large of the Independent Petroleum Association of America, the U.S. Chamber of Commerce, the Bituminous Coal Operators’ Association, Inc., and the University of Pittsburgh Cancer Institute. Mr. DeIuliis is a registered engineer in the Commonwealth of Pennsylvania, and a member of the Pennsylvania bar. He is also a member of the Industrial & Professional Advisory Council College of Engineering at The Pennsylvania State University, the Catholic Foundation Advisory Board, and the Pittsburgh Penguins Foundation.

**Paul Goodfellow, Vice President, U.S. Unconventionals, Shell, (CSSD Board Member)** joined Shell in Holland in 1991 after receiving a B.Eng. in Mining Engineering and a Ph.D. in Rock Mechanics. He worked in the mining industry in South Africa and Finland prior to joining Shell. He has worked in a variety of Wells related roles throughout the Group. In 2000, Mr. Goodfellow was assigned to Shell Exploration & Production Company (SEPCO) as the Operations Manager for Deepwater Drilling and Completions and in August of 2003 he took up the role of Wells Manager for the Americas Region. He was named Venture Manager for North America Onshore in July 2008, in September 2009 he moved into the role of Vice President Development, Onshore for Upstream Americas responsible for field development planning, capital investment and technical and technology functions. In January 2013 Mr. Goodfellow was appointed to his current role as Vice President US Unconventionals for Upstream Americas. Mr. Goodfellow is a Chartered Engineer and a member of the Institute of Mining and Metallurgy and SPE. He is married with three children.

**George Jugovic (CSSD Board Member)** was named President and CEO of Citizens for Pennsylvania’s Future (PennFuture) in March 2012. He recently returned to PennFuture after serving as the Regional Director of Department of Environmental Protection’s Southwest Regional Office. Mr. Jugovic supervised over 200 staff responsible for administering DEP’s major program areas, including waste, water, air and oil and gas. He previously worked as an attorney at PennFuture, focusing on various energy issues such as implementation of the Alternative Energy Portfolio Standards Act and Pennsylvania’s Energy Conservation Law. Mr. Jugovic also litigated a number of important environmental cases, such as protecting a stream from longwall mining and obtaining funding for installation of a public water supply in Petrolia, PA when a company’s past waste disposal practices contaminated the area’s groundwater supply. He began his legal career with DEP after clerking for the U.S. Court of Appeals for the Ninth Circuit. While with PADEP, he successfully litigated numerous cases before every level of Pennsylvania court, including the Pennsylvania Supreme Court. For six years, he prosecuted criminal cases for the Office of Attorney General’s Environmental Crimes Section – obtaining felony convictions and incarceration of the president of a manufacturing company for unlawfully directing the disposal of hazardous waste. Mr. Jugovic spent several years teaching Wildlife Law and Environmental Criminal Law as an adjunct at Pitt Law School, and serves on the Board of Directors for the Western Pennsylvania Audubon Society.

In his 28 years as head of Environmental Defense Fund, **Fred Krupp (CSSD Board Member)** has been widely recognized as a pioneer in harnessing market forces for environmental ends, starting with the
1990 market-based acid rain reduction plan praised by The Economist as the decade’s “greatest green success story.”

Mr. Krupp also broke new ground by engaging companies to improve environmental performance. EDF’s partnerships with FedEx, McDonald’s, Walmart and others have developed hybrid electric delivery trucks, eliminated millions of pounds of packaging waste and improved energy efficiency. EDF accepts no contributions from its corporate partners.

In 2011, U.S. Energy Secretary Steven Chu appointed Mr. Krupp to the seven-member panel charged with recommending measures to reduce the environmental impact and improve the safety of natural gas production. On the panel, Krupp was a powerful voice for greater oversight and enforcement, strong regulation of air and water pollution, public disclosure of chemicals in fracking fluids and wastewater, and reduction of methane leakage.


Dr. Jane C.S. Long (CSSD Board Member) recently retired from Lawrence Livermore National Laboratory where she was the Principal Associate Director at Large, Fellow in the LLNL Center for Global Strategic Research and the Associate Director for Energy and Environment. She is currently a senior contributing scientist for the Environmental Defense Fund, Visiting Researcher at UC Berkeley, Co-chair of the Task Force on Geoengineering for the Bipartisan Policy Center and chairman of the California Council on Science and Technology’s California’s Energy Future committee. Her current work involves strategies for dealing with climate change including reinvention of the energy system, geoengineering and adaptation. Dr. Long was the Dean of the Mackay School of Mines, University of Nevada, Reno and Department Chair for the Energy Resources Technology and the Environmental Research Departments at Lawrence Berkeley National Lab. She holds a bachelor’s degree in engineering from Brown University and Masters and PhD from U. C. Berkeley. Dr. Long is a fellow of the American Association for the Advancement of Science and was named Alum of the Year in 2012 by the Brown University School of Engineering. Dr. Long is an Associate of the National Academies of Science (NAS) and a Senior Fellow and council member of the California Council on Science and Technology (CCST) and the Breakthrough Institute. She serves on the board of directors for the Clean Air Task Force and the Center for Sustainable Shale Development.

Since February 2011, Bruce Niemeyer (CSSD Board Member) has been the President of Chevron Appalachia and has led the company’s development of natural gas from shale in this region. Prior to assuming this position, he served as the strategy and planning general manager for Chevron North America Exploration and Production (CNAEP). He was responsible for championing CNAEP’s business objectives, managing the composition of its business portfolio, allocating capital and developing a strategic approach for the future.

Mr. Niemeyer previously served as the area manager for the Western Shelf in the Gulf of Mexico strategic business unit. He joined Texaco in April 2000 as the area manager for the Kern River Field. Before that, he held a number of technical and managerial assignments at Atlantic Richfield Co. (ARCO). He also served as the president of ARCO Environmental Remediation, LLC.
Mr. Niemeyer holds a Bachelor of Science degree in petroleum engineering from the Colorado School of Mines and is a registered petroleum engineer in the state of California.

Paul H. O’Neill (CSSD Board Member) is active in the world of think tanks and public policy discussion. He is a director of Qcept Technologies, Inc., Celanese Corp., TRW Automotive Holdings, RAND, The Center for Global Development and The Peterson Institute for International Economics.

Mr. O’Neill has become a national leader in tackling the complex issues of health care quality and has long argued that addressing health care with tax incentives is an inadequate approach.

In December 1997, Mr. O’Neill, together with Karen Wolk Feinstein, President of the Jewish Healthcare Foundation, founded the Pittsburgh Regional Healthcare Initiative (PRHI) to address the problems of regional healthcare.

A PRHI-led collaboration in infection control brought about a 63 percent decline in one type of bloodstream infection across the region—with some hospital units virtually eliminating the infection. Regional collaboration also led to the establishment of one of the nation’s largest and most robust registry of data concerning coronary artery bypass graft surgery. Cardiac teams can now glean significant data from over 10,000 cases, yielding nationally important information every day.

Believing that the pace of healthcare improvement nationally has to be substantially increased, in 2005 Mr. O’Neill became non-executive Chairman of Value Capture, LLC, and the Value Capture Policy Institute, where he provides counsel and support to health care executives and policymakers who share his conviction that the value of health care operations can be increased by 50% or more through the pursuit of perfect safety and clinical outcomes. Value Capture believes American healthcare needs examples of entire healthcare institutions that are demonstrating this level of excellence across their operations – not in limited project focus areas – to learn from.

In 2006, Mr. O’Neill said that the Congress should pass a law requiring all Americans who make more than $30,000 a year to purchase catastrophic health care coverage for themselves and their families. The government would then use general revenue funds to purchase health insurance coverage for lower-income people. A second part of his initiative would create a commission to examine flaws in the health care pricing and reimbursement systems. The plan would require the government to set national performance goals for health care institutions.

In 2007, Mr. O’Neill said that America should define health care as a right and consider a "pool" to cover health care costs. He proposes assembling 50 experts in process analysis and sending them to five of the nation’s best hospitals to identify how to improve processes and then spread those practices to all providers.

He was appointed the 72nd Secretary of the Treasury Department on January 20, 2001 by President George W. Bush.

Months after Mr. O’Neill was appointed, the country faced 9/11, which in turn precipitated a sudden downturn in U.S. economic growth that closely tied to the economic uncertainty worldwide. Secretary Mr. O’Neill helped restore confidence by vowing to eliminate the funding source of terrorist attacks and was instrumental in setting up a special task force within the Department whose purpose was to combat
terrorist financing. This initiative ultimately led to the creation of the Office of Terrorism and Financial Intelligence.

Secretary O’Neill was also an outspoken critic on the complexity of our nation’s tax code. He believed the code was inhibiting personal as well as corporate growth in America and became one of the administration’s leading advocates for change.

Due to major policy differences with the President, O’Neill resigned in December 2002.


Mr. O’Neill began his public service as a computer systems analyst with the U.S. Veterans Administration from 1961 to 1966. His mastery of federal budget details and process stems from his tenure at the US Office of Management and Budget (OMB) where he joined in 1967, and was deputy director from 1974 to 1977.

Mr. O’Neill was vice president of International Paper Company from 1977 to 1985 and was president from 1985 to 1987.

From 1987 to 1999, Mr. O’Neill was chairman and CEO of aluminum giant Alcoa, and retired as its chairman in 2000. During his reign, the company’s revenues increased from $1.5 billion to $23 billion over thirteen years and had more than 140,000 employees spread across 36 nations. It is here that O’Neill developed a reputation as an independent-minded business leader who put an emphasis on worker safety and employee health plans.

As a testament to Mr. O’Neill’s work ethic and dedication to Public Service, he has been awarded many honorary doctorates over the years from various universities and served on a wide variety of committees including the American Red Cross, Peterson Institute for International Economics, and National Leadership Commission on Health Care. His unique experience transforming an old economy firm into a new economy success has been chronicled as a study by the Harvard Business School, and studied in business schools across the nation.

Mr. O’Neill received a bachelor’s degree in Economics from Fresno State College, and a master’s degree in Public Administration from Indiana University. He was born in St. Louis, Missouri, on December 4, 1935. His hometown and current residence is Pittsburgh. He and his wife Nancy have four children and 12 grandchildren.

Joe Osborne is the Legal Director of the Group Against Smog and Pollution (GASP), a Pittsburgh-based environmental nonprofit dedicated to improving air quality in southwestern Pennsylvania. Much of Mr. Osborne’s work relates to permitting and regulation of air emissions associated with shale gas activity. He received his J.D. from the Boston University School of Law.

Andrew Place, Interim CSSD Executive Director and Corporate Director, Energy & Environmental Policy, EQT Corporation (CSSD Board Member). Prior to joining EQT in 2011 Andrew Place served for eighteen months in Pennsylvania’s Department of Environmental Protection as Deputy Secretary, Office of Energy & Technology Deployment, and previously as Research Fellow in Carnegie Mellon University’s Department of Engineering and Public Policy. His work at Carnegie Mellon was focused on technical, economic and policy issues related to energy and the environment.
Mr. Place holds a B.S. in Economics from the University of Pittsburgh and an M.S. in Public Policy and Management from the H. John Heinz III College at Carnegie Mellon. He is married with two children.

David L. Porges, EQT President and CEO, (CSSD Board Member) became senior vice president and chief financial officer of EQT in 1998 and was promoted to executive vice president in 2000. He was elected to the Board of Directors of EQT in May 2001. In January 2005, Mr. Porges was named vice chairman and executive vice president, Finance & Administration. In 2007, he was promoted to president and COO.

Mr. Porges joined EQT from Bankers Trust Corporation, where he held various positions since 1987. Most recently, he led Bankers Trust's energy advisory efforts as managing director for the firm's BT Wolfensohn Mergers & Acquisitions unit. Prior to joining Bankers Trust, Mr. Porges spent seven years with Exxon Corporation in various managerial positions, first with the Asian headquarters in Houston and later with its Esso Australia unit in Sydney and Melbourne.

A Chicago native, Mr. Porges holds a master's in business administration from the Stanford Graduate School of Business and a bachelor's degree in industrial engineering and operations research from Northwestern University. He is the President/Chairman of the board of City Theatre.

Heather Sage, Vice President, Citizens for Pennsylvania’s Future (PennFuture). Citizen support for environmental protection is central to Citizens for Pennsylvania’s Future’s mission. Heather Sage heads up programs that engage PennFuture members, the larger environmental/conservation community, and interested Pennsylvania citizens in environmental protection and restoration activities. These programs provide organizing and media assistance to local environmental organizations, networking and coordination services for statewide environmental groups, and information about current environmental issues to PennFuture members and the general public.

Ms. Sage joined PennFuture in March 2003, with a background in development and fundraising, grant writing, communications, events planning and education. She served as both the outreach coordinator for Western Pennsylvania and the director of outreach at PennFuture. A cum laude graduate of Miami University in Ohio, Sage holds a Bachelor’s degree in Zoology, and a Master of Environmental Science degree with a concentration in communications and biological conservation. She has lectured at Miami University; served as director of communications at Greenacres Foundation in Cincinnati (an environmental education center and sustainable farm); and was development director at Earth Share of Ohio, creating new opportunities for individual charitable giving to environmental organizations through workplace campaigns.

Ms. Sage has also served as a board director for Earth Share at the national level, a member of the executive committee of the Center for Coalfield Justice (formerly Tri-State Citizens Mining Network), and as a board director for the Young Preservationists Association. She currently serves as co-chair of the Allegheny County Public Participation Panel of the Southwestern Pennsylvania Commission (the region’s metropolitan planning organization), a member of the Allegheny County Air Quality Task Force, a member of the City of Pittsburgh’s Marketing-Based Revenue Opportunities Task Force, and is a member of the Three Rivers Community Foundation grant committee.

Conrad Schneider, Advocacy Director at Clean Air Task Force, has more than 15 years’ experience fighting air pollution and climate change. Mr. Schneider directs CATF’s advocacy efforts, writes, and speaks on air pollution and climate change issues, and testifies before Congress and state legislatures.
and in federal and state administrative hearings. His advocacy work focuses on reducing pollution from power plants and diesel vehicles.

Prior to his work with CATF, he served as regional coordinator for the Northeast power plant campaign and as Air and Energy Project Coordinator with the Natural Resources Council of Maine. While at NRCM, Mr. Schneider played a key role in the campaign to enact EPA’s 1997 revised health standards for smog and soot, and wrote Maine’s original ozone transport petition. He served as law clerk to Judge Robert H. Hall of the U.S. District Court for the Northern District of Georgia (Atlanta Division) and as a trial attorney at the U.S. Department of Justice. He holds a J.D. from the University of Virginia and a B.A. from the University of North Carolina at Chapel Hill. Conrad currently serves on the board of directors of the Center for Clean Air Policy in Washington, D.C. and teaches Environmental Law and Policy at Bowdoin College.

**Robert Vagt (CSSD Board Member)** joined The Heinz Endowments in January 2008. In both his professional career and volunteer experiences, Mr. Vagt has been involved in those areas that have been central to the Endowments’ mission.

His professional responsibilities have exposed him to the challenges of mental health, housing, education and the environment, with special focus on the needs of underserved and underrepresented portions of the population. Most recently, while he was president of Davidson College from 1997 to 2007, the North Carolina institution became the first liberal arts college in the country to eliminate loans as a part of financial aid to needy students. The change enabled these students to rely primarily on grants, thus removing the barrier to college attendance presented by debt.

During his career, Mr. Vagt has been warden of a North Carolina prison; director of clinical programs in an Alabama mental health center; assistant director of the budget for the state of New York; and executive director of several public benefit corporations in New York, including the Municipal Assistance Corp., which was created to save New York City from bankruptcy in the 1970s. In addition, he has extensive experience in the business world, having been an executive in the oil and gas industry for more than 10 years.

As a volunteer, Mr. Vagt’s efforts have been directed primarily at children and youth. He has served as chairman of the Children’s Defense Fund and as a parish associate responsible for youth programs at churches in New York and Texas.

Mr. Vagt earned a Bachelor of Arts in psychology from Davidson College and a Master of Divinity magna cum laude from Duke University.

**Christine Todd Whitman (CSSD Board Member)** is the President of The Whitman Strategy Group (WSG), a consulting firm that specializes in energy and environmental issues. WSG offers a comprehensive set of solutions to problems facing businesses, organizations, and governments; they have been at the forefront of helping leading companies find innovative solutions to environmental challenges.

Governor Whitman served in the cabinet of President George W. Bush as Administrator of the Environmental Protection Agency from January of 2001 until June of 2003. She was the 50th Governor of the State of New Jersey, serving as its first woman governor from 1994 until 2001.
As Governor, Christie Whitman earned praise from both Republicans and Democrats for her commitment to preserve a record amount of New Jersey land as permanent green space. She was also recognized by the Natural Resources Defense Council as having instituted the most comprehensive beach monitoring system in the nation. As EPA Administrator, she promoted common-sense environmental improvements such as watershed-based water protection policies. She championed regulations requiring non-road diesel engines to reduce sulfur emissions by more than 95 percent. Under her tenure, the Agency established the first federal program to promote redevelopment and reuse of “brownfields”, that is, previously contaminated industrial sites.


Governor Whitman serves on a number of non-profit organizations including the Board of Trustees’ Executive Committee of the Eisenhower Fellowships and the Board of Directors of the Council on Foreign Relations. She co-chairs Clean and Safe Energy (CASE) with Dr. Patrick Moore and is a member of the board of directors of the American Security Project and Americans Elect. She is Co-Chair of the Aspen Health Stewardship Project, and a member of the advisory board of Reform New Jersey Now. She was also the Co-Chair for the Council on Foreign Relations’ Task Force, More Than Humanitarianism: A Strategic U.S. Approach Toward Africa.

Governor Whitman also serves on the Board of Directors of S.C. Johnson and Son, Inc., Texas Instruments Inc., and United Technologies Corporation. She holds an Advanced Professional Director Certification from the American College of Corporate Directors, and she serves as an advisor to the Aspen Rodel Fellowship program. She is a member of the Advisory Board of the Corporate Eco Forum, and she serves as a visiting lecturer at colleges around the country through the Woodrow Wilson Visiting Fellows program. She serves on the O’Connor Judicial Selection Advisory Committee at the Institute for the Advancement of the American Legal System, on the Board of Advisors for the USC Schwarzenegger Institute on State and Global Policy, and she is a board member for the 2014 NY/NJ Super Bowl Host Committee.

Prior to becoming Governor, she was the President of the New Jersey Board of Public Utilities and served on the Somerset County board of Chosen Freeholders.

Governor Whitman holds a BA from Wheaton College in Norton, MA, and is married to John R. Whitman. They have two children and six grandchildren.

Davitt Woodwell is Executive Vice President of the Pennsylvania Environmental Council (“PEC”), a leading force in land and water conservation across the Commonwealth. In this position, he is responsible for the Council’s operations in Western Pennsylvania, as well as projects across the state. Working with PEC since 1991, Mr. Woodwell took a leave of absence during 2000 and 2001 to serve as Executive Director of the Riverlife Task Force that developed a master plan for Pittsburgh’s waterfronts and proposed the creation of the new “Three Rivers Park.” Mr. Woodwell’s current work focuses on issues including shale gas development, green infrastructure for stormwater control, and trail and riverfront development.
A graduate of the University of Pittsburgh School of Law, Mr. Woodwell is currently a member of the boards of the Audubon Society of Western Pennsylvania, Friends of the Riverfront, Aspinwall Riverfront Park, and the Steel City Rowing Club. He also serves on the Allegheny County Executive’s Green Action Team. He participated in the Department of Environmental Protection’s regulatory negotiation on the special protection waters program and served on the Pittsburgh Ozone Stakeholder Working Group. He also served on the Allegheny County Air Pollution Control Advisory Committee. He was appointed to the Governor’s Commission on Greenways. At PEC he has also served as Vice President for Western Pennsylvania, Director of the Western Pennsylvania office, and Staff Attorney.