

Biographies

COURSE PLANNERS

Alexandra C. Chiaruttini, Esq.

Ms. Chiaruttini is Chief Counsel for the Pennsylvania Department of Environmental Protection. She was previously a partner with Stock and Leader in York, where she was the environmental practice chairperson. Ms. Chiaruttini represented clients including private industrial and commercial entities, developers, local and county governments, authorities, school districts, and private landowners in environmental matters and environmental litigation. As Chief Counsel, she oversees a legal staff of over 70 attorneys across seven offices statewide who support and provide legal counsel and litigation representation to the Department's investigation, field, compliance and enforcement, policy, and Executive staff across all program areas.

Kevin J. Garber, Esq.

Mr. Garber is a shareholder in the Environmental, Energy and Natural Resources Group of Babst Calland Clements & Zomnir, P.C. in Pittsburgh. He concentrates much of his practice on environmental, water, and land use issues facing the oil and gas, mining, and manufacturing industries, and on infrastructure development issues facing municipalities, municipal authorities, and developers. He represents exploration, development, and pipeline companies working in the Pennsylvania conventional and unconventional oil and gas industries, and represents companies and trade associations in other extractive industries in Pennsylvania, including coal and noncoal mining. Mr. Garber has written and lectured extensively on oil and gas, water and development issues. He is ranked among Pennsylvania's top environmental lawyers in Chambers USA: Americas Leading Lawyers for Business. He is listed in the environmental section, the water section, the natural resources section, the environmental litigation section, and the energy section of the Best Lawyers in America, and was selected as its Lawyer of the Year for Pittsburgh since 2014 for energy, environmental, or natural resources law. He is recognized as one of Pennsylvania's Super Lawyers, according to an annual survey published in Philadelphia magazine. He has served on the council of the Pennsylvania Bar Associations Environmental, Mineral and Natural Resources Law Section. Mr. Garber is a member and past chair of the Allegheny County Bar Association Environmental Law Section and is a member of the Pennsylvania and American Bar Associations. He is a member of the board of directors of the Greater Pittsburgh Chamber of Commerce and the 3 Rivers Wet Weather Program, and is a former member and past chair of the board of the Allegheny Land Trust in Pittsburgh. Mr. Garber received his B.S. in biology from Pennsylvania State University, his M.S. in oceanography and limnology from the University of Wisconsin, his Ph.D. in ecology from the University of Pittsburgh, and his J.D. from Duquesne University School of Law. He is an adjunct professor at Duquesne University School of Law, where he teaches courses in environmental law and litigation, and

is an adjunct professor at Duquesne University's Bayer School of Natural Science, where he also teaches a course in environmental law in the master's degree program. He is a member of the advisory board of Duquesne University's Center for Environmental Research and Education.

Bruce M. Herschlag, Esq.

Mr. Herschlag, a Senior Supervisory Counsel with the Commonwealth of Pennsylvania Department of Environmental Protection, is an attorney who has practiced law since 1981. He primarily counsels the Department's Clean Water and Wetlands and Waterways Bureaus, but also provides legal advice in the mining, solid waste and bankruptcy areas of the law. He is a member of the Bar in Pennsylvania, Maryland and North Carolina, as well as a member of the American Bar Association and the Allegheny County Bar Association. He has lectured for the American Bar Association, the Environmental Law Institute, the Pennsylvania Bar Institute, the Allegheny County Bar Association, Pennsylvania's Minor Judiciary and the Office of Chief Counsel on a wide variety of environmental subjects and on trial skills and tactics. Since 1996, Mr. Herschlag has been an adjunct faculty member of the Center for Environmental Research and Education at Duquesne University, teaching Conflict Resolution and Problem Solving Skills. Mr. Herschlag holds a J.D. from the University of North Carolina School of Law and a B.A. from the State University of New York at Binghamton.

David G. Mandelbaum, Esq.

Mr. Mandelbaum is Co-Chair of Greenberg Traurig's Global Environmental Practice. His principal office is in Philadelphia. Mr. Mandelbaum has handled permit appeals involving assertions of constitutional violations, although to be sure in the period before PEDF, and his practice generally tends toward environmental litigation. He has written and spoken on the Environmental Rights Amendment repeatedly. He served as Vice-Chair of the Pennsylvania Statewide Water Resources Committee and as a member of the Delaware Valley Regional Planning Commission. Mr. Mandelbaum's practice includes a significant proportion of Superfund matters, including some the government characterizes as among the most significant. He teaches "Superfund Litigation" and "Oil and Gas Law" in rotation at Temple Law School. He was educated at Harvard University (A.B. 1980; J.D. 1983), and served as law clerk to Hon. Louis H. Pollak, then-United States District Judge for the Eastern District of Pennsylvania.

Hon. Richard P. Mather, Sr.

Judge Mather was nominated to serve as a Judge on the Environmental Hearing Board by Governor Edward G. Rendell in August 2009. The Senate unanimously confirmed the nomination and Judge Mather took the oath of office in October 2009. Prior to becoming a Judge, Judge Mather was the Deputy Chief Counsel for the Department of Environmental Protection. He worked for the Department of Environmental Protection and its predecessor, the Department of Environmental Resources for twenty five years. For eighteen years during this period, he was the head of the Bureau of Regulatory Counsel. Judge Mather is a 1977 graduate of Lock Haven University. He received his J.D. from the University of Pittsburgh in 1982. He was Business Editor of the University of Pittsburgh Law Review. From 1982 until 1984, he was an associate with the law firm of Thorp, Reed and Armstrong in its Pittsburgh offices.

Carol F. McCabe, Esq.

Ms. McCabe is a partner with Manko, Gold, Katcher & Fox LLP, resident in the firm's Bala Cynwyd office. She counsels clients on a wide variety of environmental issues, including permitting and compliance matters related to air emissions, storage tanks, stormwater, wastewater pretreatment, and hazardous waste. Carol concentrates her practice in air matters for a wide range of industrial clients at both the state and federal level. She has assisted clients with environmental due diligence, auditing, permit appeals, and defense of agency enforcement actions. She has represented clients before the Pennsylvania Environmental Hearing Board, the New Jersey Office of Administrative Law, the U.S. Environmental Protection Agency ("EPA") Environmental Appeals Board, and the District of Columbia Circuit Court of Appeals. Carol has been recognized in The Best Lawyers® in America, Pennsylvania Super Lawyers, New Jersey Super Lawyers and Chambers USA - America's Leading Lawyers for Business. Outside of the office, Carol serves as Chair of the Board of Directors of the Pennsylvania Environmental Council, Chair of the Friends of Lemon Hill and as a Lecturer in Environmental Law at the University of Pennsylvania Law School. Carol served on the Environmental Advisory Committee (EAC) for Haverford Township from 2006-2012.

Nels J. Taber, Esq.

Mr. Taber has been the Regional Counsel for the PADEP's Northcentral Regional Office in Williamsport, PA since 1993. He actively handles all aspects of civil trial and appellate practice for air quality, water quality, water supply, waste management, storage tank and remediation cases occurring within the fourteen county area covered by the Northcentral Regional Office. He is a past lecturer at the Environmental Law Forum as well as the Federal Law Enforcement Training Center in Glynco, Georgia. He received his J.D. from the Dickinson School of Law, and his B.A. from the University of Notre Dame.

JUDICIAL FACULTY

Hon. Steven C. Beckman

Judge Beckman was appointed to the Environmental Hearing Board in 2012. He received his undergraduate degree from Wittenberg University in Springfield, Ohio in 1983. He attended the University of North Carolina-Chapel Hill and earned a Masters Degree in Geology. Judge Beckman received his law degree from the University of Pittsburgh in 1993 and went to work at MacDonald Illig Jones and Britton LLP in Erie, Pa. In 1996, he was appointed by Governor Ridge to serve as the Regional Director for the Northwest Region of the Department of Environmental Protection. In 2001, Judge Beckman left the DEP and returned to MacDonald Illig where he was a partner and a member of the law firm's Environmental Law practice group at the time of his appointment to the Board.

Hon. Michelle A. Coleman

Judge Coleman, a native of Philadelphia, received a B.A. in political science from Bryn Mawr College in 1977. She then attended New York University School of Law as a Root-Tilden Scholar and received her J.D. in 1980. As a member of the Root-Tilden Program, she traveled in the U.S. and was permitted to practice on the Navajo Reservation. She served with the N.Y. Legal Aid Society as a public defender and with Community Legal Services representing the poor. After approximately two years in private practice, she accepted a position with the Pennsylvania Department of Environmental Resources and presented cases before the

Environmental Hearing Board as well as Commonwealth and Federal Courts. Originally appointed to the Hearing Board in 1995 by Governor Ridge, she was reappointed to the Board by Governor Schweiker in November of 2002, and by Governor Rendell in 2008.

Hon. Bernard A. Labuskes, Jr.

Judge Labuskes was appointed by Governor Ridge to the Environmental Hearing Board in November 1998. He was reappointed by Governor Rendell in 2005 and Governor Corbett in 2011. Prior to his initial appointment he was a partner and the chairman of the Environmental Practice Group at the Harrisburg firm of McNees, Wallace & Nurick where his practice had been devoted to environmental law since 1987. From 1985-87 Judge Labuskes served as Assistant Counsel at the Pennsylvania Department of Environmental Resources where he focused on litigation and enforcement matters. Judge Labuskes received his B.A. magna cum laude in 1979 from the Pennsylvania State University and his J.D. magna cum laude in 1982 from the University of Pittsburgh School of Law.

Hon. Thomas W. Renwand

Judge Renwand has served on the Pennsylvania Environmental Hearing Board since 1995 and is the only judge based in Pittsburgh. Governor Edward Rendell appointed him Chief Judge and Chairman. The Board is the statutorily established five-judge administrative law court of statewide jurisdiction which hears appeals from actions of the Pennsylvania Department of Environmental Protection. The Department also initiates certain types of actions before the Board. Prior to his tenure on the Environmental Hearing Board, Judge Renwand was a partner and trial attorney with the Pittsburgh law firm of Meyer, Unkovic and Scott. He began his legal career in Erie with Knox McLaughlin Gornall & Sennett, P.C. Judge Renwand is a 1980 graduate of the University of Akron School of Law where he was Editor-in-Chief of the Law Review. He graduated with honors in 1977 from John Carroll University.

FACULTY

Prof. Todd Aagaard

Dean Aagaard joined the Villanova Law School faculty in 2008 and became Vice Dean in 2015. As Vice Dean, he oversees academic affairs, admissions and financial aid, career strategy, administration (including communications, human resources, and facilities management), and faculty research. Dean Aagaard's scholarship focuses on environmental law, energy law, and administrative law. His publications include *Energy-Environment Policy Alignments*, 90 Wash. L. Rev. 1517 (2015); *Environmental Law Outside the Canon*, 89 Ind. L.J. 1239 (2014); *Environmental Harms, Use Conflicts, and Neutral Baselines in Environmental Law*, 60 Duke L.J. 1505 (2011); *Environmental Law as a Legal Field: An Inquiry in Legal Taxonomy*, 95 Cornell L. Rev. 221 (2010); and *Factual Premises of Statutory Interpretation in Agency Review Cases*, 77 Geo. Wash. L. Rev. (2009). In addition, he is a co-author of *Practicing Environmental Law*, a practice-based environmental law casebook published in 2017 by Foundation Press. Dean Aagaard received his B.A. with honors from Pomona College, his M.S. from the University of Michigan School of Natural Resources and the Environment, and his J.D. magna cum laude from the University of Michigan Law School. While at Michigan, he was the Editor-in-Chief of the Michigan Law Review and an Executive Editor of the Michigan Journal of Race & Law. Following completion of his J.D. and M.S. degrees, he clerked for Second Circuit Judge Guido Calabresi, before joining the Environment

and Natural Resources Division of the U.S. Department of Justice as an attorney in the Appellate Section. At the Justice Department, he briefed and argued civil and criminal cases in federal courts of appeals in the areas of environmental law, natural resources law, Indian law, and administrative law.

David Althoff, Jr.

Mr. Althoff has worked for the Pennsylvania Department of Environmental Protection for nearly 25 years. During his time with DEP, he has worked in the Bureau of Land Recycling and Waste Management and then in 1998, began working for the Pennsylvania State Energy Office located within DEP. His role in the Pennsylvania Energy Office, currently named the Office of Pollution Prevention and Energy Assistance, is to develop and manage programs designed to encourage the development and deployment of alternative energy projects resulting in environmental improvement. Mr. Althoff has been responsible for the management of DEP's Alternative Fuels Incentive Grant Program and the Natural Gas Energy Development Program. Recently, he is serving as the Principal Investigator for the U.S. DOE Sunshot Initiative funded PA Solar Future Initiative and is also a key contributor to PA's involvement in the Volkswagen Settlement. Mr. Althoff also serves as the program point of contact for the Pennsylvania Energy Development Authority, assists in the management of DEP's Green Energy Loan fund as well as providing oversight of DEP's responsibilities for Pennsylvania's Alternative Energy Portfolio Standard. He serves as Pennsylvania's representative to the National Association of State Energy Officials.

Alice R. Baker, Esq.

Based in PennFuture's Philadelphia office, Ms. Baker focuses her work on water quality protection and stormwater management in southeastern Pennsylvania. Prior to joining PennFuture, she was an associate attorney at Super Law Group, LLC, an environmental law firm in New York City, where she worked on Clean Water Act and stormwater enforcement issues. Ms. Baker also served as the Director of the New York City Environmental Law Leadership Institute (NYCELLI), a nonprofit designed to inform, equip, and inspire new environmental attorneys and continues her involvement as a member of NYCELLI's Board of Advisors. She previously worked at the Natural Resources Defense Council and Eastern Environmental Law Center, and interned with the Environmental Defense Fund, Hudson Riverkeeper, and the New York Office of Attorney General. Ms. Baker received her J.D. and Masters of Environmental Law and Policy from Vermont Law School and B.A. from Bard College.

Jeffrey Bednar

Mr. Bednar is the Chief of the Waste Reduction and Recycling Section of the Bureau of Waste Management with the Pennsylvania Department of Environmental Protection. In that capacity he manages the commonwealth's electronics recycling program and implementation of the Covered Device Recycling Act of 2010 as well as the Household Hazardous Waste Program and Recycling Markets. From 2006 to 2013 he was an Executive Budget Specialist with the Governor's Budget Office and prior to that was involved in electronics recycling, recycling and pollution prevention and served as President of the Board of Directors of the Northeast Recycling Council. He has a Master's Degree in Public Administration from Penn State.

Laurie J. Besden, Esq.

Laurie Besden is the Executive Director of Lawyers Concerned for Lawyers of Pennsylvania, Inc. ("LCL"). Since 2011, she served as LCL's Deputy Executive Director overseeing LCL's Helpline operations and serving as the primary contact for intervention requests, expanding LCL's law school outreach, and increasing LCL's presence within the organized Bench and Bar. Appointed as the Executive Director in 2015, Ms. Besden is also responsible for LCL's administrative and financial operations as well as Judges Concerned for Judges (judges' assistance program). Ms. Besden is a licensed attorney in Pennsylvania (1999) and New Jersey (1999). She practiced law from 1999 through 2001 and 2009-2011 in several capacities including attorney-at-law (general civil and criminal practice), East Norriton, PA; Law Clerk (Pennsylvania Superior Court), Philadelphia, PA; Law Clerk (Philadelphia Municipal Court), Philadelphia, PA. She received her B.A. in Criminology and Criminal Justice from the University of Maryland, College Park, MD (1995) and her J.D. from The Dickinson School of Law of the Pennsylvania State University (1999). Ms. Besden was the 2015 recipient of the Montgomery Bar Association's Henry Stuckert Miller Award for her dedication to public service in the legal profession.

Andrew T. Bockis, Esq.

Mr. Bockis is a partner in the Harrisburg office of Saul Ewing Arnstein & Lehr LLP. He represents clients in matters related to environmental permitting, regulation, and litigation, including government enforcement proceedings. His prior experience as assistant counsel to the Pennsylvania Department of Environmental Protection and the Pennsylvania Environmental Hearing Board adds significant perspective to his practice. Mr. Bockis has served as a council member of the Pennsylvania Bar Association's Environmental and Energy Law Section since 2009, and was named one of "Pennsylvania's Lawyers on the Fast Track" by The Legal Intelligencer in 2013. He frequently lectures and writes on issues related to environmental law in Pennsylvania, and is co-editor of Pennsylvania Environmental Law and Practice, published by PBI Press. Mr. Bockis is a graduate of Juniata College and the Pennsylvania State University Dickinson School of Law. While in law school, he was editor-in-chief of the Penn State Environmental Law Review.

Alexander Bomstein, Esq.

Mr. Bomstein is the Senior Litigation Attorney at Clean Air Council, the largest and oldest Philadelphia-based environmental advocacy non-profit. He primarily litigates in Environmental Hearing Board matters and in fracked gas-related matters, as well as preparing regulatory comments. Mr. Bomstein also serves as Legal Chair of the Pennsylvania Chapter of the Sierra Club, and as a board member of Physicians for Social Responsibility Pennsylvania. He received his B.A. in Mathematics from Cornell University in 2004 and his J.D. from Columbia Law School in 2007. Before joining Clean Air Council in 2015, he was an associate in the Commercial Litigation Practice Group of Pepper Hamilton LLP, specializing in antitrust and general commercial litigation.

Terry R Bossert, Esq.

Terry R. Bossert is Principal in the Environmental and Energy & Utilities Practice Groups and Co-Chair of the Shale Resource Practice Group at Post & Schell, P.C. He counsels clients on environmental regulatory matters and compliance programs, represents them in related litigation brought by environmental regulators, and administrative tribunals and courts. He also provides government relations counseling and advocacy related to environmental

legislation and regulations in the Commonwealth of Pennsylvania. Mr. Bossert also helps clients design, implement, and validate environmental auditing programs and management systems. His clients include companies in the oil and gas generation/distribution, electric power generation, private equity/venture capital, health care, hospitality, and manufacturing industries, among others. Mr. Bossert has over 30 years of experience in environmental law, serving in government/regulatory, corporate, and private legal practice roles. This includes serving as Chief Counsel for the Pennsylvania Department of Environmental Protection (PA DEP), where he helped to guide the Department's Regulatory Basics Initiative designed to reform and streamline environmental regulations. Mr. Bossert also served as a Deputy Attorney General and helped to establish the Environmental Crimes Unit in the Office of Attorney General and presented the first environmental cases to the statewide investigating grand jury. Prior to joining Post & Schell, Mr. Bossert served as corporate counsel with companies in the oil and gas exploration and production industries. He served as Vice President of Legislative and Regulatory Affairs with Range Resources Corporation, a participant in the development of natural gas from the Marcellus Shale formation throughout the Appalachian region. He provided legal counsel to Range on regulatory matters relating to natural gas exploration and extraction and directed its government affairs efforts in the Commonwealth of Pennsylvania. Previously, he held a similar position with Chief Oil & Gas LLC, a privately held, independent oil and gas exploration and production company. Mr. Bossert was Chair of the Advocacy Committee of the Marcellus Shale Coalition and was a member of PA Governor Wolf's Pipeline Infrastructure Task Force (PITF). He currently serves as the Vice Chair of DEP's Climate Change Advisory Committee. He is the recently retired co-editor of the treatise Pennsylvania Environmental Law and Practice, published by the Pennsylvania Bar Institute (PBI), which won a national award from the Association of Continuing Legal Education. He is a graduate of the Pennsylvania State University Dickinson School of Law, J.D., and Susquehanna University, B.A. He is admitted to practice before the U.S. Supreme Court, Supreme Court of Pennsylvania, U.S. Court of Appeals, Third Circuit, U.S. District Court for the Eastern District of Pennsylvania, and U.S. District Court for the Middle District of Pennsylvania. He is a member of the Pennsylvania Bar Association and the Marcellus Shale Coalition.

Len F. Bradley, PE, CSI

Mr. Bradley is an Associate and the Supervisor of Engineering for RGS Associates, a Civil Engineering and Landscape Architecture firm with offices in Harrisburg, Lancaster, and York. He is Licensed Professional Engineer in Maryland, New Jersey, and Pennsylvania, as well as a NPDES Certified Stormwater Inspector. With more 15 years of experience of practical design experience, his projects have been recognized locally, state, and nationally for their creative stormwater management design solutions and innovative approaches. Len provides clients with considerable insight into the technical design, permitting and construction aspects of commercial, industrial, institutional, and residential projects. Len has extensive experience with stormwater management design, modeling, construction and inspection, and is proficient in the most current Best Management Practices and stormwater approaches. He is versed in the current state and federal NPDES requirements, site inspection and reporting obligations, NRCS 378 Pond specifications and design, as well as Army Corps permitting requirements. Additionally, Len provides clients with expert reports/testimony in the areas of land development, stormwater management, and hydrology for litigation.

C. Baird Brown, Esq.

Mr. Brown works with customers and communities and their technology and finance partners to deploy a new generation of energy and sustainability infrastructure. He has helped develop pooled procurement and financing techniques for building energy efficiency improvements and renewable energy, and has structured public private partnerships for a broad array of infrastructure projects. He helped form and serves as co-counsel to the Microgrid Resources Coalition. He handles mergers and acquisitions of energy and environmental companies, including restructuring and workouts of troubled projects. He counsels clients in connection with taxable and tax-exempt, rated and unrated, and registered and unregistered financings and credit arrangements. He also acts as underwriter's counsel, bond counsel, and borrower's counsel on complex project financings. He develops tax structure and regulatory strategies for complex projects. In the context of public private partnerships and other projects, he has developed and negotiated operating agreements, construction agreements, concession agreements and power purchase and sale arrangements along with dozens of other documents ancillary to transactions with ongoing public interest dimensions. He understands the risks and obligations appropriate to public and private parties and structures incentive compensation arrangements that align private incentives with public goals. In particular, he represents clients with strong environmental goals in practical transactions that create clean energy results. Mr. Brown has played key roles in organizations that advance energy and sustainability goals. He served as a co-chair of energy related committees of the American Bar Association (ABA) and the International Bar Association, and he was a principal author of the form Renewable Energy Credit Purchase Agreement for the American Council on Renewable Energy (ACORE), the Energy Markets Association, and ABA. He represents the Foundation for Renewable Energy and Environment and serves on the boards of non-profit organizations that work for community revitalization and energy justice. He received a B.A. in Economics from S.U.N.Y at Buffalo and a J.D. from the University of Pennsylvania Law School. He began his legal career in the Office of the General Counsel of the Federal Reserve Board.

Robert J. Bylone, Jr.

Mr. Bylone is Executive Director of the Pennsylvania Recycling Markets Center at Penn State Harrisburg. He was previously a Recycling Program Manager for the center, and before joining the RMC, he was employed in the Environmental Training Center at Penn State Harrisburg. He also gained experience in county government, industry, and consulting, serving briefly as the Schuylkill County Recycling/Environmental Coordinator, Copperhead Chemical Company, as a project/environmental, health, and safety engineer, and at Junkins Engineering as a project engineer. He has industrial environmental experience in 18 different states and over 20 types of industry. A graduate of Penn State Harrisburg with bachelor's and master's degrees in Environmental Engineering, Mr. Bylone is registered as a U.S. Green Building Council LEED Accredited Professional, an ISO 14000 Environmental Management Systems Provisional Auditor, and as a Senior Level Certified Recycling Professional through the Professional Recyclers of Pennsylvania (PROP). The Recycling Markets Center, supported by the Pennsylvania Department of Environmental Protection, acts as a clearinghouse for various types of business assistance, pairing secondary recycled commodities with end use, increasing material demand throughout the Commonwealth while directly benefiting Pennsylvania's economy. As such, the RMC is proactively expanding the existing \$24 billion recycling industry segment in Pennsylvania. The Recycling Markets Center is an independent 501c(3) non-profit organization, governed by a 13-member board of

directors. The RMC is primarily funded through PaDEP grant funds and can be found at www.parmc.org.

Marc J. Cammarata, P.E.

Mr. Cammarata is a regional and national leader in sustainable stormwater management practices and water resources planning. He is a Professional Engineer with a Bachelor of Science in Civil and Environmental Engineering from Villanova University and a Master of Science in water resources engineering from Drexel University. He has spent all 21 years of his professional career with the Philadelphia Water Department where he currently serves as the Deputy Water Commissioner for Planning and Environmental Services. His responsibilities include the integration, direction and management of the Department's strategic environmental and sustainability programming, water quality and quantity modeling and wet weather compliance programs, flood mitigation efforts, both green and traditional infrastructure planning, stream and wetland restoration, laboratory services, and climate mitigation and adaptation efforts. His team is leading the efforts for the City of Philadelphia's "Green City, Clean Waters" program – a 25yr, multi-billion-dollar infrastructure program integrating land-based urban sustainability goals with the goals for clean, safe, attractive and accessible rivers and streams.

Francis J. Catania, Esq.

Mr. Catania is the managing partner of the Media law firm of Catania & Parker, LLP representing local governmental entities and private clients. His practice includes assisting private clients in meeting their compliance obligations with local, state and federal governments. He has appeared on behalf of his clients before local, state and federal administrative agencies and boards. Mr. Catania assists clients in transactional matters, business governance and operational matters. He represents a large Pennsylvania municipal water authority. Having previously practiced as a Certified Public Accountant focusing on tax matters, he has directed the firm's tax practice for over thirty years.

William J. Cluck, Esq.

Mr. Cluck will become the new chairman of the Pennsylvania Bar Association Environmental and Energy Law Section during this year's Environmental Law Forum. He has served on the Section Council for the past decade. He concentrates his practice on environmental and land use matters on behalf of small and medium-sized businesses and citizen groups. He is a member of the Harrisburg Regional Chamber's Government Affairs Committee and has chaired its Environment and Energy Subcommittee for the past decade. In 2018, he completed serving for eight years on the Board of Directors of Capital Region Water (fka Harrisburg Authority). He is counsel in a number of cases involving emerging issues in agriculture, including *Berner vs Montour Township Zoning Hearing Board*, 39 MAP 2018 (Scope of ACRE Preemption) (Argument March 5, 2019); *Alleman vs. North Newton Township Board of Supervisors*, 1511 CD 2018 (Split zoning case) (Notice of Appeal filed November 14, 2018); *Montgomery Township Friends of Family Farms vs. DEP and Herbruck's Poultry Ranch, Inc.*, 2017-080-R (Whether CAFO is subject to agricultural exemption for air emissions) (dispositive motions pending). Mr. Cluck has lectured for PBI on a variety of topics, including What Real Estate and Corporate Lawyers Need to Know About Environmental Law, Contract Issues and the New Clean Fill Policy, DEP Enforcement Authority Under Clean Air Act, Environmental Audits and Self-Evaluative Privilege, and Representation of Citizen Groups. He was a past co-chair of the Philadelphia Bar Association

Environmental Law Committee, Barrister in the Delaware Valley Environmental Inn of Court, Chair of the Resource and Advocacy Board of the Pennsylvania Small Business Development Council and a founding member of the City of Harrisburg Environmental Advisory Council. Mr. Cluck received his J.D., cum laude, from Temple Law School in 1988 and his B.A. in Speech Communication from Penn State University in 1982.

Mary B. Coe, Esq.

Ms. Coe is the Regional Counsel, Office of Regional Counsel, U.S. Environmental Protection Agency, Region III. Ms. Coe directs an 80-person law office responsible for representing EPA Region III in enforcement, counseling, regulatory, and permitting matters throughout the Mid-Atlantic Region. From 1991 to 2014, Ms. Coe served as Chief of ORC's Waste and Chemical Law Branch, managing cases and other legal and policy matters arising under CERCLA, RCRA, TSCA, FIFRA, and EPCRA. Ms. Coe has over 25 years of experience in RCRA permitting and enforcement matters and is a frequent lecturer on both topics at EPA-sponsored trainings and bar association conferences. She is a graduate of Georgetown University (B.A. in Government) and the University of Pennsylvania Law School and is a member of the District of Columbia and Pennsylvania bars.

Brandon D. Coneby, Esq.

Mr. Coneby is a partner with Dinsmore Shohl, LLP, in Pittsburg; he represents energy companies and landowners in connection with federal, state and local environmental laws and regulatory programs, with a primary focus on environmental issues relating to energy extraction (notably coal and oil and gas). Since joining the firm in 2006, he has been involved with a variety of environmental matters relating to coal extraction and natural gas exploration, production and distribution. He also has counseled energy companies on complex environmental matters involving: water loss and subsidence; oil and gas production; remediation; wastewater management; and federal, state and local reporting requirements. Additionally, he has represented landowners in negotiating oil and gas leases for the Marcellus Shale formation and actions to defend the subsurface rights in leases dating back to the 1950s. As part of his environmental practice, he represents companies of all sizes before federal and state regulatory agencies, such as the United States Environmental Protection Agency, the Pennsylvania Department of Transportation and the Pennsylvania Public Utility Commission and federal and state administrative tribunals, such as the Federal Mine Safety and Health Review Commission and the Pennsylvania Environmental Hearing Board. A small portion of his practice involves advising clients on issues involving the aquatics industry. He has advised municipalities with various issues including: lifeguarding and staffing requirements; steps necessary to comply with the Virginia Graeme Pool and Spa Safety Act; and how to implement new requirements imposed upon aquatic facilities under the Americans With Disabilities Act. He has also represented homeowners in lawsuits involving construction of swimming pools and swimming pool accidents. He is a certified instructor for the National Pool and Spa Foundation's Certified Pool Operator course and is a frequent speaker at seminars sponsored by the Pennsylvania Parks and Recreation Society. He earned his B.S., with honors, from The Pennsylvania State University and a J.D., with honors, from the Duquesne University School of Law. He is admitted to practice before the U.S. District Court for the Western District of Pennsylvania. His memberships include the Allegheny County and Pennsylvania Bar Associations, the Adams Ridge Homeowners Association (president), and the Avonworth Community Park Redevelopment team.

Prof. John C. Dernbach

Prof. Dernbach is Commonwealth Professor of Environmental Law and Sustainability at Widener University Commonwealth Law School in Harrisburg, Pennsylvania and Director of that school's Environmental Law and Sustainability Center. Professor Dernbach has written on sustainable development, climate change, and other topics in more than 40 articles for law reviews and peer-reviewed journals, and has authored, coauthored, or contributed chapters to more than 20 books. He is the editor (with James R. May) of *Shale Gas and the Future of Energy: Law and Policy for Sustainability* (Edward Elgar 2016), the principal author of *Acting as if Tomorrow Matters: Accelerating the Transition to Sustainability* (Environmental Law Institute Press 2012), and the editor of *Agenda for a Sustainable America* (ELI Press 2009) and *Stumbling Toward Sustainability* (ELI Press 2002). He and Professor Michael Gerrard are the co-editors of a forthcoming book, *Legal Pathways to Deep Decarbonization in the United States* (ELI Press 2018). Professor Dernbach coauthored an amicus brief to the U.S. Supreme Court on behalf of 18 prominent climate scientists in *Massachusetts v. Environmental Protection Agency*. He was a member of the National Research Council Committee that, in *Sustainability and the U.S. Environmental Protection Agency* (2011), made recommendations on how to institutionalize sustainability at EPA. His writings and advocacy were extensively cited by the Pennsylvania Supreme Court in its landmark 2013 and 2017 decisions that reinvigorated the Environmental Rights Amendment to the state constitution. Before taking his teaching position at Widener, Professor Dernbach worked in a variety of positions at the Pennsylvania Department of Environmental Protection and served most recently as that agency's policy director.

Alicia R. Duke, Esq.

Ms. Duke is an assistant counsel at the Department of Environmental Protection's Southcentral Regional Office, Office of Chief Counsel, where she counsels the Air Quality and Radiation Protection programs. She also provides legal advice on records management and Pennsylvania's Right-to-Know-Law to all programs in the region and the district mining offices. Prior to joining the Department, Ms. Duke was an attorney in a private law firm where she represented clients in areas related to public utility law. She earned her B.A. from the Pennsylvania State University and her J.D. from the Widener University Commonwealth Law School.

Courtney A. Emerson, Esq.

Ms. Emerson is an Associate with Fox Rothschild where she represents clients in a wide range of commercial and civil litigation matters as well as environmental matters. Additionally, she has experience helping clients navigate financial restructuring and bankruptcy. She previously served as a summer associate at Fox Rothschild, drafting motions, pleadings, letters and memoranda as well as conducting legal research in a variety of practice areas, including litigation, real estate, corporate and bankruptcy. She also worked as an emergency manager for nearly a decade, where she provided technical advice in broad areas of emergency management planning, formulated and analyzed policies in accordance with state and federal regulations, provided directions and management on planning activities on a statewide basis, drafted contracts, developed procurement strategies and planned for statewide communications interoperability. While in law school, she was a judicial extern in the Delaware Court of Common Pleas. She also was a member of the Delaware Journal of Corporate Law. Prior to law school, she was a communications supervisor for the Wilmington Police Department, a volunteer firefighter/EMT and an

educator for a multinational banking and financial services corporation. Ms. Emerson is the Vice-Coordinator of the American Bar Association's Disaster Legal Services Team, which works with the Federal Emergency Management Agency (FEMA) to provide immediate temporary legal assistance to disaster survivors at no charge. She is admitted to practice in DE, PA and NJ, and before the U.S. District Court of the District of Delaware, District of New Jersey, and the Eastern District of Pennsylvania. She is a graduate of Widener University School of Law (JD, magna cum laude) and the University of DE (BA). She is a member of the American Bar Association, Delaware State Bar Association, American Bankruptcy Institute, and is Vice-President of the University of Delaware Alumni HenLaw Society.

Prof. Lara B. Fowler

Professor Lara Fowler is an attorney and mediator who focuses on environmental, energy, and natural resource law, with a specific focus on water related issues. She has a joint appointment between Penn State Law and the Penn State Institutes of Energy and the Environment where she is working on questions related to water, the Chesapeake Bay, and energy. Prior to joining Penn State, she was an attorney at Gordon Thomas Honeywell LLP in Seattle, Washington, where she focused on mediation and dispute resolution of complex natural resource issues, as well as representing clients facing regulatory hurdles in the environmental and energy fields. She has worked on issues such as who is entitled to store groundwater in the greater Los Angeles area, flooding issues in the Chehalis Basin, Washington State's second largest river basin, and energy issues in the Pacific Northwest. Before pursuing a legal career, she was a senior water resources coordinator with the Oregon Water Resources Department. She has just received a Fulbright to work on water and security issues in Sweden from Aug. 2019 to June 2020.

Jay M. Fox, Esq.

Mr. Fox is the Senior Director for Amtrak's Host Railroads Group, which is responsible for all business relations with the railroads that Amtrak operates on throughout its system. Prior to joining Amtrak, Mr. Fox was employed for over fifteen years at the United States Department of Transportation where he served as Assistant Chief Counsel and Regional Counsel for the Federal Transit Administration, and as Agency Counsel and a Program Director for the Federal Aviation Administration. Before his government service, Mr. Fox was a partner and general counsel at an export management firm, and was also a partner in a private law practice. He is a graduate of Rutgers-Camden School of Law and received an undergraduate degree from Cook College, Rutgers University.

Kristen M. Furlan, Esq.

Ms. Furlan is an assistant director of the Bureau of Regulatory Counsel for the Pennsylvania Department of Environmental Protection. Ms. Furlan also counsels DEP's Bureau of Air Quality. Ms. Furlan joined DEP in 1993. Prior to that, she worked in private practice in Los Angeles. Ms. Furlan earned her B.A. from Stephens College in Columbia, Missouri, her J.D. from Notre Dame Law School, and an LL.M. from the London School of Economics and Political Science, University of London.

Kenda Jo M. Gardner, Esq.

Kenda Gardner, Esq., is the Deputy Chief Counsel of the Real Property Division of the Office of Chief Counsel for the PA Department of Transportation. She specializes in issues

concerning environmental law, eminent domain, property management, billboards, and highway occupancy permits. Ms. Gardner earned her B.S. in Chemistry from Juniata College, and her J.D. from the Dickinson School of Law in Carlisle, PA. She has over 24 years of experience in the transportation industry and over 26 years of experience handling environmental issues. Her role at the Department includes legislative analysis, drafting and reviewing regulations, policy development, State and Federal appellate litigation, defending agency enforcement actions (e.g., EPA and USACE), assisting the Department with obtaining and implementing its MS4 permit and other environmental permit issues, and counseling PennDOT on project related issues and questions as they arise (e.g., NEPA, Section 4(f), Section 106 of NHPA, Section 6(f) of LWCF and other grant programs, Stormwater, Section 404 and PA Chapter 105 permits, T&E species, etc.).

Brian Glass, Esq.

Mr. Glass is Assistant Counsel in the Southeast Regional Office of the Pennsylvania Department of Environmental Protection, where he primarily counsels the Environmental Cleanup and Brownfields Program. Prior to joining the Department, Mr. Glass was Associate at Ballard Spahr LLP and Greenberg Traurig LLP, General Counsel at PennFuture, and Partner at Warren Glass LLP. Mr. Glass received his B.A. from Haverford College and his J.D. from the University of Virginia School of Law.

Caren Glotfelty

The Allegheny County Parks Foundation Board of Directors appointed Caren Glotfelty as executive director of the organization effective August 1, 2014. She is a strong advocate of the natural environment as represented by her past experience. She was Senior Program Director of the Heinz Endowments Environment Program for 13 years, where she was responsible for managing a grant portfolio totaling \$8-13 million per year, addressing issues such as community revitalization, environmental health, parks, trails and land conservation. Before then, she was the Maurice K. Goddard Chair in Forestry & Environmental Resources Conservation at Penn State University for 5 years, and her work included teaching, research, outreach and leadership on topics and issues related to state and local environmental and natural resources policy. She was Deputy Secretary for water management in the Pennsylvania Department of Environmental Resources for 4 years developing and managing all state policy and regulatory programs related to water quality, sewage treatment, stormwater management, and stream protection. Ms. Glotfelty holds a bachelor's degree from the University of the Pacific, as well as a master's degree in regional planning from the University of Pennsylvania.

Pamela S. Goodwin, Esq.

Ms. Goodwin is a member of Saul Ewing's Project Resource Development Department and has been practicing environmental law since 1980. Ms. Goodwin has devoted her practice to environmental and energy counseling and litigation, focusing particularly on matters involving municipal, residual, and hazardous waste, air, water pollution, and water and land use. Ms. Goodwin has provided counsel in connection with negotiation of a number of major solid waste disposal contracts, including contracts with Pennsylvania and New Jersey counties and cities. Ms. Goodwin currently serves as chair of New Jersey's Clean Water Council. In 1984, she served as special counsel to the Advisory Committee for Public Participation in Hazardous Waste Management in Pennsylvania, sponsored by the Pennsylvania Department of Environmental Resources. She has also been a frequent lecturer

on behalf of organizations such as the Environmental Section of the New Jersey Bar Association, the Pennsylvania Environmental Council, the League of Women Voters, and Robert Morris Associates. In addition to those environmental organizations, Ms. Goodwin has also participated in seminars sponsored by Pennsylvania Power & Light Company, the Pennsylvania Department of Environmental Resources, and Law and Business, Inc. The topics of her lectures have included groundwater regulation, nuclear waste disposal, solid waste planning, hazardous waste facility siting, the Superfund Amendments and Reauthorization Act, lender liability, the Internet for environmental practitioners, and addressing environmental issues in real estate transactions. Ms. Goodwin received her B.A. degree, with honors, from the University of Wisconsin, and her law degree from the University of Pittsburgh Law School. She is admitted to practice law in New Jersey, Pennsylvania, and New York.

Barbara J. Grabowski, Esq.

Ms. Grabowski is an assistant counsel with the Department of Environmental Protection, Southwest Regional Office of Chief Counsel. She counsels the District Mining Offices within the western region of Pennsylvania and the Mine Subsidence Insurance program and represents the Department before the Environmental Hearing Board, Commonwealth Court and U.S. Bankruptcy Court. She is the past chair of the Environmental Law Section of the Allegheny County Bar Association. She received her J.D. from Vermont Law School in 1990, an M.S. degree from Michigan State University in 1983 and a B.S. degree from Michigan State University in 1979.

Mark C. Hammond, Esq.

Mr. Hammond is one of the founding members and the President of Land Air Water Legal Solutions LLC, an environmental boutique law firm based in Berwyn, PA. He concentrates his practice in assisting clients manage today's emerging environmental and energy issues, as well as air and hazardous substance regulation at both the state and federal levels. He provides a wide range of counseling to clients with a special emphasis on Clean Air Act matters affecting industry, including NESHAP, operating permit and regulatory compliance. He is frequently called upon by manufacturers, landfill operators, power plants, chemical and printing companies and others to provide compliance and environmental transactional advice, to represent them in administrative permitting and enforcement matters, and to negotiate with the agencies on their behalf. He has been at the forefront of a number of emerging environmental issues, including renewable energy credits, sustainability metrics and communications, and 'green' marketing claims, along with advising organizations on climate change legislation and regulatory efforts. Mr. Hammond is the Chairman of the Commonwealth of Pennsylvania's Climate Change Advisory Committee ("CCAC"), which advises the Department of Environmental Protection on climate change issues, including recommending new legislation and regulation. Mr. Hammond is active in numerous professional and civic organizations and is member of the Delaware Valley Environmental American Inn of Court, where he has served on the Executive Committee. He is the Chairman of the Friends of Kennett Youth, has been active in various roles and committees for the Chester County Council, Boy Scouts of America, including nine years as the chairman of the board of a 600-member Horseshoe Scout Reservation Alumni Association, and is a recently retired Girl Scout Troop Leader. He earned his J.D. from the University of Pittsburgh's School of Law and his B.S. from the Virginia Tech with a major in Mechanical Engineering and a minor in Economics. He is admitted to practice in the state court of Pennsylvania.

Before practicing law, he was an engineer serving as a project manager and a department head at two Pennsylvania-based environmental consulting firms.

Catherine M. “Kate” Harper, Esq.

Ms. Harper, a partner at Timoney Knox since 1997, was a member of the Pennsylvania General Assembly in the House of Representatives for 18 years and served as Chair of the House Local Government Committee. Ms. Harper has a general practice, but focuses on land use (particularly municipal and zoning law), real estate and civil litigation in Bucks and Montgomery Counties. Ms. Harper graduated maxima cum laude with a degree in political science from LaSalle University, and earned her law degree from the Villanova University School of Law in 1981. She represents several municipalities and zoning boards in Bucks and Montgomery Counties. She is a frequent lecturer to lawyers and municipal officials. Ms. Harper has argued before the Supreme Court of the United States, the Third Circuit Court of Appeals, all of the Pennsylvania Appellate Courts and the County Courts of Southeastern Pennsylvania.

Michael J. Heilman, Esq.

Mr. Heilman is an Assistant Regional Counsel in the Department of Environmental Protection, Southwest Regional Office, Office of Chief Counsel. Since joining the Office of Chief Counsel in 1987, Mr. Heilman has primarily practiced in the areas of mining, air quality and oil and gas. He received a B.S. in Civil Engineering from the University of Notre Dame du Lac in 1980, a J.D. from Duquesne University School of Law in 1985, and Masters of Engineering degree in Environmental Pollution Control from Penn State (Harrisburg) in 1998. He is also licensed as a Professional Engineer in Pennsylvania. Prior to joining the Office of Chief Counsel, Mr. Heilman clerked for the Honorable William D. Hutchinson then of the Pennsylvania Supreme Court (1985-87), and worked for the Westinghouse Electric Corporation (1980 - 85).

Caleb J. Holmes, Esq.

Mr. Holmes is a Shareholder in the Environmental Practice Group in Greenberg Traurig’s Philadelphia office, where he concentrates his practice on environmental litigation, including CERCLA, RCRA, the Clean Air Act, the Clean Water Act and Oil and Gas. He is admitted to practice in Pennsylvania, as well as the U.S. Court of Appeals for the Seventh Circuit, the U.S. District Court for the Eastern District of Pennsylvania, the U.S. District Court for the Middle District of Pennsylvania, and the U.S. District Court for the Eastern District of Wisconsin. Mr. Holmes has been named a Rising Star in Pennsylvania Super Lawyers. Mr. Holmes is a 2007 graduate of Vermont Law School, where he earned a Juris Doctor, cum laude, and a Masters of Studies in Environmental Law, magna cum laude. He served as Notes Editor on the Vermont Law Review and was a member of the National Moot Court Team.

Anthony R. Holtzman, Esq.

Mr. Holtzman is a partner with the Harrisburg office of K&L Gates LLP. His practice concentrates on environmental, constitutional, and gaming law. He routinely works on litigation and regulatory matters that involve complex issues of constitutional, statutory, and regulatory construction. Mr. Holtzman earned his B.A. from Messiah College and his J.D., summa cum laude, from the Dickinson School of Law of The Pennsylvania State University.

John H. Howard, Esq.

Mr. Howard has been an attorney with the Pennsylvania Department of Agriculture since 2011 and is currently serving as Chief Counsel for the Department. Among various roles in the Department of Agriculture, John has served as primary counsel to the State Conservation Commission and the Bureau of Farmland Preservation. John grew up on a dairy farm in Bradford County, Pennsylvania. Following graduation from Penn State in 1975, John worked for six years for the Pennsylvania Holstein Association assisting Pennsylvania Holstein breeders in marketing their cattle. In 1981, John and his wife Susan began operating their own dairy farm in Lancaster County where they raised their three children and milked cows for 20 years. During that time, John was active in numerous farm organizations, serving as a director of the Holstein Association USA, President of the Lancaster County Holstein Association, director of the Lancaster County Dairy Herd Improvement Association, and legislative liaison for the Lancaster County Farm Bureau. He has been involved in local government for more than 30 years, serving as a Township Supervisor for 15 years, as well as a member the Planning Commission and Zoning Hearing Board. In 1999, John received a law degree from the Penn State Dickinson School of Law. In 2001, John and his wife sold their dairy herd and John went into full-time practice of law. Prior to coming to the Department of Agriculture, John was an associate attorney with the law firm of James Clark & Associates in Lancaster County, and served as Staff Attorney for the Pennsylvania Milk Marketing Board. John and his wife own a preserved farm in Lancaster County where they continue to farm, growing corn, soybeans, hay and wine grapes.

Charles B. Howland, Esq.

Mr. Howland is partner and head of the Environmental group at Curtis, Mallet-Prevost, Colt & Mosle LLP in New York, NY. He helps clients find and implement creative, cost-effective means to comply with U.S. and foreign environmental statutes, regulations and policies. His work focuses on providing practical advice in the acquisition and sale of facilities and the re-development of brownfield sites; counselling, enforcement, and litigation matters involving facility cleanups under federal and state laws; risk management plan preparation and emergency release/spill reporting; crafting real estate and other commercial transactions to address environmental concerns; and helping businesses identify ways to advance their operations in accord with national and international sustainability initiatives. He is nationally known for his work helping to facilitate the development of renewable energy projects on environmentally impaired land. Prior to joining Curtis, Mr. Howland served as a Senior Assistant Regional Counsel at the U.S. EPA's Mid Atlantic Regional office, where he worked on some of the Region's most complex site cleanups and enforcement actions, as well as on several workgroups which wrote national EPA enforcement guidance (municipal solid waste, tenant liability, formerly used defense sites). In 2018 before joining Curtis he served as Senior Advisor to EPA's Office of Enforcement and Compliance Assurance as lead or participating attorney on several workgroups implementing Superfund Task Force reforms (Enforcement, Environmental liability transfer mechanisms, Groundwater policy). In 2008 and 2009 on a leave of absence from the EPA, he served as general counsel for a utility scale renewable energy project development firm. He also has extensive experience serving in private practice as well as in academia. Additionally, he recently completed three terms as a member and co-chairman of the Lower Merion Township, Pennsylvania Planning Commission. Mr. Howland frequently publishes and lectures on environmental and energy law and policy, and was appointed to the U.S. State Department's Fulbright Specialist Program Roster for a three year term beginning August 2017. He teaches at the University

of Pennsylvania Law School (Navigating the Regulatory State) and Villanova University Charles Widger School of Law (Energy Law). He is a member of the American and Philadelphia Bar Associations, the Environmental Law Institute, and the Delaware Valley Environmental Inn of Court. He attended the Executive Program in Environmental Economics at Harvard University JFK School of Government; earned his J.D. from Villanova University School of Law; and a B.A. from Cornell University.

Joseph M. Iole, Esq.

Mr. Iole is an Assistant Counsel in DEP's Bureau of Regulatory Counsel and advises both the Office of Active and Abandoned Mining Operations and the Office of Oil and Gas Management, Division of Well Plugging and Subsurface Activities. Prior to joining DEP, Mr. Iole clerked for the Honorable Chief Justice Ronald D. Castille of the Pennsylvania Supreme Court. He earned his J.D. from Temple University and a B.A. from Boston College, with a double-major in Biology and Philosophy and a minor in Environmental Studies. While at Temple University, Mr. Iole authored a law review article regarding Pennsylvania preemption law and its relation to unconventional gas drilling. Prior to law school, Mr. Iole was a park ranger on the Boston Harbor Islands and served as a U.S. Peace Corps volunteer in Bulgaria.

Hon. Norman J. Kennard

Commissioner Kennard was sworn in as a Commissioner of the Pennsylvania Utility Commission on November 14, 2017. Prior to that, he was engaged in the private practice of law for thirty (30) plus years (1983-2014) representing various consumer, supplier and utility interests. The scope of his legal practice included natural gas transportation, broadband infrastructure legislation, the negotiation of power generation and gas supply contracts, interconnection agreements, intercarrier compensation, and rate case filings of all sorts. Commissioner Kennard has had experience across all regulated industries, in multiple forums: state, and federal regulatory, legislative, as well as litigation and appellate representation. His career began with the Office of Consumer Advocate in 1979. He has served as counsel to two previous PUC Chairmen: Robert F. Powelson (2014-17); and Clifford L. Jones (1981-83). Commissioner Kennard received his bachelor's degree from Hartwick College and earned his law degree from the University of New Hampshire School of Law.

Kevin D. Kent, Esq.

Mr. Kent is shareholder in the Conrad O'Brien law firm. Kevin advises clients nationally on risk management in high legal exposure industries. He represents companies in matters involving civil fraud, fiduciary liability, director and officer liability, professional malpractice, government civil enforcement actions, government audits, employment litigation, and internal investigations. Kevin's recent risk management work involves advising private companies and government entities on litigation risk emanating from public-private partnership ("P3") projects, privatization issues, and other risks inherent in the interaction between public entities and the private sector. Kevin, who is also licensed as a solicitor in Ireland, England, and Wales, is current the Chairman of the Irish American Business Chamber and Network, which promotes the development of economic relationships between the United States, Ireland, and Northern Ireland. Kevin is a member of Conrad O'Brien's three-person Executive Committee that manages and oversees the firm. Among his management responsibilities, he is the lateral partner recruiting liaison and oversees the

analysis and negotiation of the firm's alternative fee agreements. He earned his JD from Vanderbilt University Law School and a B.A. from Boston College.

Brigid Landy Khuri, Esq.

Ms. Khuri is an associate with K&L Gates LLP. She focuses her practice on energy, environmental, and natural resource matters. Ms. Khuri has represented clients in environmental litigation matters before the Environmental Hearing Board and regularly provides counsel related to evolving regulations of concern to clients in the industrial, manufacturing, and utility sectors. Her practice also expands into other areas of administrative law, including representation of clients before Pennsylvania's Department of Health and Department of State. She earned her J.D. from Temple University School of Law and a B.S. from St. Joseph's University. She is admitted to practice in PA, and before the U.S. Court of Appeals for the Third Circuit and the U.S. District Court for the Middle District of PA.

Kurt E. Klapkowski, Esq.

Mr. Klapkowski serves as the Director of the Bureau of Oil and Gas Planning and Program Management with the Pennsylvania Department of Environmental Protection's Office of Oil and Gas Management. As the Bureau Director, he oversees coordination of the Department's development of policy, regulatory, technical guidance and legislative documents, as well as providing on-going education and outreach to the public and regulated communities. The Bureau consists of three Divisions responsible for Subsurface Activities, Surface Activities and Compliance and Information Management, respectively. Prior to joining the Office of Oil and Gas Management, Mr. Klapkowski worked with the Department's Bureau of Regulatory Counsel for more than 18 years, including service as the counsel to the Oil and Gas Program for four years. Other program clients included Pennsylvania's Storage Tank program, the Land Recycling Program (brownfields/remediation), the Office of Energy and Technology Deployment, the Division of Hazardous Waste Management, the Division of Nuclear Safety and the Office of Pollution Prevention and Compliance Assistance. He received his J.D. in 1993 from the University of Pittsburgh School of Law and graduated Magna Cum Laude from Washington and Jefferson College in 1990.

Leda J. Lacomba, Esq.

Ms. Lacomba is the Executive Director to the Environmental Resources & Energy Committee in the Pennsylvania House of Representatives. In this capacity, Ms. Lacomba serves as the legal resource for environmental issues, as well as working on environmental and energy legislation. In addition, she provides legal counseling on state and federal cases and advises the Republican Caucus on regulatory matters. Ms. Lacomba received a B.A. in political science from the Pennsylvania State University and a J.D. from the Pennsylvania State University, Dickinson School of Law.

Clifford B. Levine, Esq.

Mr. Levine is a Director at Cohen & Grigsby, P.C., based in Pittsburgh, where he chairs its Public Sector and Regulatory Practices Group, and is a member of the firm's Litigation and Real Estate Practice Groups. Mr. Levine has had significant experience in complex commercial, construction, election law, environmental, and land use litigation, as well as involvement in counseling clients in administrative and governmental matters. His complex litigation experience has included energy and environmental projects, real estate

development issues, constitutional challenges and public sector governance matters. Mr. Levine has been counsel to various governmental entities, including the Pittsburgh Water and Sewer Authority (PWSA) and the Pennsylvania Department of Community and Economic Development (DCED), where he has served as lead appellate counsel in cases relating to the implementation of Act 47 to fiscally distressed municipalities. He is an elected member of the Allegheny County Academy of Trial Lawyers, and has had numerous appearances before state and federal trial and appellate courts, including the Pennsylvania Supreme, Superior and Commonwealth Courts, and the United States Court of Appeals. Mr. Levine has been involved in a number of landmark Pennsylvania Supreme Court decisions in the areas of land use, energy law, election, labor and public finance. In respect to election cases, Mr. Levine was one of the counsel in the recent successful challenge before the Pennsylvania Supreme Court to the Pennsylvania Congressional Map. He also represented the Pennsylvania Senate Democrats in their successful challenge to the 2011 reapportionment plan for the General Assembly. In respect to land use cases, he has appeared before the Pennsylvania appellate courts on an array of matters representing developers, DEP permit holders, and governmental entities. Mr. Levine recently appeared on a panel of judges addressing land use issues before the Pennsylvania Trial Judges Association. Pennsylvania Magazine has designated Mr. Levine as a Pennsylvania Super Lawyer annually for nearly two decades, and he was recently selected by his peers as one of the top 50 attorneys in Pittsburgh. The Pittsburgh Post-Gazette recently announced that Mr. Levine was selected as Lawyer of the Year in the area of Land Use Law (2016). In addition to his legal practice, Mr. Levine has significant governmental and political experience. He was chair of Barack Obama's 2008 Western Pennsylvania Steering Committee and served President Obama's campaigns in 2008 and 2012 as a convention delegate, member of the National Finance Committee, and a statewide election law counsel. In 2012, Mr. Levine was the president of Pennsylvania's 57th Electoral College. In 2016, Mr. Levine served as State Counsel to the Clinton-Kaine campaign and was appointed by Secretary Clinton to serve as one of her designated statewide representatives. Politics Magazine recently recognized him as one of the 100 most politically influential individuals in the state. Mr. Levine has served on the transition teams of Governors Tom Wolf and Ed Rendell, Allegheny County Executives Rich Fitzgerald, Dan Onorato and Jim Roddey, and Pittsburgh Mayors Bill Peduto and Bob O'Connor. Mr. Levine is a member of the Southwestern Planning Commission. He served for 12 years as vice-chair of the City of Pittsburgh's Planning Commission and of its Zoning Board of Adjustment from 1994 until 2006. He has participated in commercial and construction arbitrations, is qualified as an AAA Construction and Commercial Law Arbitrator, and has served as a court-appointed special master. Mr. Levine has served as a faculty member on numerous Pennsylvania Bar Institute seminars, and has been a guest lecturer at Penn Law School, the University of Pittsburgh's Graduate School of Public & International Affairs and Duquesne Law School. He is the author of various articles involving subjects in his practice fields. Mr. Levine received his J.D. degree from Duke University and a B.A. degree in economics, magna cum laude, from the State University of New York at Albany, where he worked in the Office of the Speaker of the New York Assembly. He served as a law clerk to the Honorable David W. Craig of the Pennsylvania Commonwealth Court.

Blaine A. Lucas, Esq.

Mr. Lucas is a shareholder and co-chairman of the Public Sector Services Group of Babst Calland. He is also a member of the firm's Energy and Natural Resources Group, and is responsible for coordination of the firm's representation of energy industry clients on land

use and other local regulatory matters. Mr. Lucas has represented oil and gas operators in obtaining local government approvals for shale and coal bed methane wells, compressor stations and processing facilities, pipelines, water facilities and quarrying operations supporting the industry. He has assisted industry clients in analyzing the substantive impact and procedural requirements of land use, noise, road and other local ordinances, pursued validity challenges where ordinances prohibit or unreasonably restrict industry activities, and worked with municipalities to voluntarily amend their ordinances to authorize drilling and other activities in areas where they otherwise would not be permitted. He has represented operators before zoning hearing boards and the courts in defending validity challenges to zoning ordinances which permit oil and gas development. Mr. Lucas also has advised gas operators on the Pennsylvania Vehicle Code and PennDOT regulations related to the movement of drilling rigs, water trucks and other vehicles on weight restricted roads, negotiated the terms of excess maintenance agreements and associated bonding requirements with PennDOT and local municipalities, and assisted clients in resolving disputes regarding responsibility for and repair of road damage. He has served as solicitor for several boroughs, townships, municipal authorities and zoning hearing boards, and also has represented as special counsel municipalities on zoning, zoning enforcement, transportation, economic development and local taxation issues. Mr. Lucas received his bachelor's degree, summa cum laude, from the University of Pittsburgh's Johnstown campus in 1978 and graduated cum laude from the University of Virginia School of Law in 1981, where he served on the Virginia Journal of Natural Resources Law. Babst Calland is an associate member of the Marcellus Shale Coalition, and Mr. Lucas actively participates in the MSC's Legal Committee. He is also a member of the Pennsylvania Independent Oil and Gas Association. Mr. Lucas presently is an adjunct professor at the University of Pittsburgh School of Law, where he teaches Land Use Law. He also has served as an instructor for the Local Government Academy's Newly Elected Officials Course.

Joseph M. Manko, Esq.

Mr. Manko is a founding partner of Manko, Gold, Katcher & Fox, LLP with more than 40 years of experience advising clients on environmental matters involving real estate transactions and development, regulatory permitting and compliance, environmental reporting and alternative dispute resolution. His experience as the EPA Region III's general counsel, after almost 10 years as a corporate practitioner, gave him the ability to see and therefore provide counsel on environmental issues in real life situations. He spent 18 years teaching environmental law courses at the University of Pennsylvania and Vermont Law Schools. Prior to founding the firm in 1989, Mr. Manko founded and chaired the Environmental Department at Wolf, Block, Schorr and Solis-Cohen. He served for 27 years as an elected commissioner and officer on the Lower Merion Board of Commissioners, giving him insight into municipal issues. He is the past chair of the Pennsylvania Environmental Council, former vice chair of the State Water Law Committee of the Pennsylvania Bar Association, and past chair of the Environmental Law Committee of the Philadelphia Bar Association. Mr. Manko formerly served on the Fairmount Park Commission board. He currently serves on the boards of the Fairmount Park Conservancy, Philadelphia Film Society and Philadelphia Orchestra.

Kaitlyn R. Maxwell, Esq.

Ms. Maxwell practices in the environmental group of Greenberg Traurig, LLP. Her principal office is in Philadelphia. She focuses her practice on environmental litigation. Ms. Maxwell

advises clients on regulatory compliance issues and represents clients in litigation in state and federal courts. Her work includes litigation of major contamination cases under the hazardous waste and Superfund laws. She also advises clients in transactions involving the sale of contaminated real property. Ms. Maxwell is admitted to practice in Pennsylvania and New Jersey as well as the U.S. Court of Appeals for the Seventh Circuit, U.S. District Court for the Eastern District of Wisconsin, U.S. District Court for the Western District of New York, and the U.S. District Court for the Eastern District of Pennsylvania. Prior to joining Greenberg Traurig, she served as a judicial law clerk to the Honorable Linda K. Caracappa in the U.S. District Court for the Eastern District of Pennsylvania. She received her J.D. from Boston University School of Law and her B.A., magna cum laude, with Departmental Honors in Law and Policy from Dickinson College.

Prof. James R. May

Prof. May is Distinguished Professor of Law, and former Chief Sustainability Officer, Widener University School of Law. He also serves as co-Director of the Environmental Rights Institute and co-Director of the Dignity Rights Project at Widener University Delaware Law School. Prof. May is also an Adjunct Professor of Graduate Engineering, and founded and co-chairs a program on marine policy. He is the editor of *Principles of Constitutional Environmental Law* (American Bar Association), and co-editor of *Shale Gas and the Future of Energy* (Edward Elgar), *Global Environmental Constitutionalism* (Cambridge), *Environmental Constitutionalism in Context* (Edward Elgar), *New Frontiers in Environmental Constitutionalism* (United National Environment Programme, forthcoming), *Implementing Environmental Constitutionalism* (Cambridge, forthcoming), *Standards of Environmental Constitutionalism* (Cambridge, forthcoming), and *Human Rights and the Environment: Indivisibility, Dignity and Legality* (Edward Elgar, forthcoming). Prof. May is also author or co-author of more than 100 articles and book chapters, and numerous amicus briefs to the U.S. Supreme Court and U.S. federal courts of appeal on issues including environmental law, constitutional law, comparative constitutional, international environmental law, environmental rights, and human dignity. He founded two non-profit environmental organizations (the Mid-Atlantic and the Eastern Environmental Law Centers), and has litigated more than 200 public interest environmental claims, including cases throughout the Mid-Atlantic to restore water and air quality, conserve rare species and habitats, and protect biodiversity. Prof. May is a Member of Faculty to the National Judicial College, and a Fellow of the American College of Environmental Lawyers, for whom he has served as a delegate to Haiti and China. He has also served as a consultant to the U.S. Embassy on legal education in the Philippines, and to the Hungarian Embassy and the Moroccan Human Rights Council on constitutional reform. Prof. May is a member of Phi Kappa Phi, serves on numerous boards, and has won numerous awards, including from Pace University, Sierra Club, and the American Canoe Association. He earned his B.S. in Mechanical Engineering from the University of Kansas (Bowman Scholar), J.D. from the University of Kansas (Appellate Advocacy Scholar and national moot court champion), and LL.M. in Environmental Law from Pace University, where he was the Feldshuh Fellow and graduated first in class. Prof. May is a member of the bar in the State of Pennsylvania, several federal courts of appeal, and the U.S. Supreme Court.

Merritt McGlynn

Ms. McGlynn is a Project Manager for All4 Inc. with more than 14 years of experience in the field of environmental air quality consulting. She has managed projects involving air quality

consulting and permitting for an array of industries (pharmaceutical, consumer products, natural gas distribution, aerospace, data management, and food/beverage), with expertise in the energy and power sector. She has extensive experience in air permitting, including Federal New Source Review (NSR) and Prevention of Significant Deterioration (PSD) major source air permitting, Title V operating permits and renewals, and minor source permitting, which extends to capital projects, permit streamlining, annual reporting programs, reducing compliance burdens, and achieving cost savings. She has worked extensively with clients on various regulatory programs such as New Source Performance Standards (NSPS), National Emission Standards for Hazardous Air Pollutants (NESHAPs), Mandatory Greenhouse Gas (GHG) Reporting Rule, PSD netting analyses, and BACT determinations, and other federal, state, and local air pollution control regulations. She has specialized in Air Program Compliance Management design, implementation, and maintenance; developing and presenting permit-based employee training; coordinating interdepartmental projects from conception to completion; and serving as an integral member of facility environmental staff on site. Ms. McGlynn is an active member of a NJDEP and Industry Air Permits Stakeholders Group, whose objective is to streamline and clarify the air permitting process in NJ. She has a B.S. in Chemical Engineering from Penn State University and is certified as an Engineer in Training (EIT). Prior to her work with All4 Inc., she was a Senior Project Manager for ERM and a Quality Control Engineer for Atlas Roofing Corp. She is a member of the Air & Waste Management Association (AWMA) Source Evaluation Society (SES)

Robert B. McKinstry, Jr., MSF, Esq.

Mr. McKinstry is principal in Robert B. McKinstry, Jr. Environmental and Climate Law and Consulting, which he founded upon his retirement from Ballard Spahr LLP, on March 31, 2018, after 31 years with the firm. He founded Ballard's Environmental and Natural Resources Group and its Climate Change and Sustainability Practice Initiative. He is now concentrating his efforts in public interest law and consulting in the area of climate change and sustainability but continues to serve clients in the full range of environmental issues. He completed a six-year appointment as the Maurice K. Goddard Chair in Forestry and Environmental Resource Conservation at the Pennsylvania State University School of Forest Resources on July 1, 2007. While serving as Goddard Professor, Mr. McKinstry focused on international environmental issues where states and private companies and organizations had taken the lead in the face of federal inaction. He successfully represented a group of leading climate scientists before the Supreme Court in *Massachusetts v. EPA*, where the Court ruled that there is authority to address emissions of greenhouse gases under the federal Clean Air Act. He represented clean energy utilities supporting EPA rulemaking in *EPA v. EME Homer City Generation* and *Michigan v. EPA*. He has written and spoken extensively on environmental topics. He authored the rulemaking petition seeking to have the PA Environmental Quality Board adopt a regulation establishing an economy wide greenhouse gas auction Cap-and-Trade program going to zero by 2052. Mr. McKinstry is a Fellow of the American College of Environmental Lawyers and the American Bar Foundation. He is a member of the Environmental, Energy and Resources Section (SEER) of the American Bar Association, where he is a former Co-chair and a current Vice Chair of the SEER Committee on Climate Change, Sustainable Development, and Ecosystems. He is also a member of the Environmental and Energy Law Section of the Pennsylvania Bar Association, and the Environmental Law Committees of the Philadelphia and Chester County Bar Associations. Mr. McKinstry is a Master in the Delaware Valley Environmental Inns of Court. Mr. McKinstry is the recipient of PBA's Energy and Environmental Section

2010 Award for Distinguished Service and was named as MVP in environmental law by Law360 in 2014. He has been recognized by Chambers USA as a Leading Lawyer for Business in the fields of both climate and environmental law, has been named by The Best Lawyers in America in environmental law and environmental litigation Best Lawyers in America, has been named to Who's Who Legal: Environment, and has been named as one of Pennsylvania's Super Lawyers in environmental law.

James A. Meade, Esq.

Mr. Meade is in-house Counsel-Environmental with FirstEnergy Corp. Headquartered in Akron, Ohio, FirstEnergy includes one of the nation's largest investor-owned electric systems, more than 24,000 miles of transmission lines that connect the Midwest and Mid-Atlantic regions, and a diverse generating fleet with a total capacity of nearly 17,000 megawatts. Mr. Meade, working from his Greensburg, PA office, is part of an environmental legal team that oversees all environmental matters related to generation, transmission and distribution across the family of FirstEnergy companies. He specializes in the areas of water, waste and remediation matters. Prior to joining FirstEnergy, Mr. Meade practiced for 15 years with the Pennsylvania Department of Environmental Protection, where he served as Assistant Counsel in the Southwest Regional Office. A native New Yorker, Mr. Meade earned a bachelor's degree from the University of Arizona in 1990 and a law degree from Campbell University in 1995. He is a current member of the Allegheny County Bar Association, the Pennsylvania Bar Association and the American Bar Association.

Paul J. Metro

Mr. Metro has been employed by the Pennsylvania Public Utility Commission since May 1985. He worked in the Bureau of the Office of Trial Staff for 17 years as Senior Engineer. Since 2002, Mr. Metro has been Manager of the Gas Safety Division. Mr. Metro has a BS in Mineral Economics, BS in Industrial Engineering and an MS in Industrial Engineering all from Penn State University. He was Chairman of the National Association of Pipeline Safety Representatives in 2011 & 2012; served on the Common Ground Alliance Board of Directors from 2012-2013, and presently, serves on the Board of Directors of Pennsylvania One Call System. He is Vice Chairman of the National Association of Regulatory Commissions Pipeline Safety Committee and Chairman of the Pennsylvania PUC Damage Prevention Committee.

Steven T. Miano, Esq.

Mr. Miano is a Shareholder in and Chairs the Environmental Practice Group of Hangley Aronchick Segal Pudlin & Schiller in Philadelphia. He has been practicing environmental law for thirty years. His practice includes all facets of environmental law and litigation, including federal and state cases involving the Clean Water Act, Clean Air Act, Hazardous Waste laws, Superfund, Brownfields redevelopment, mining and transactions. His clients include industrial corporations, commercial entities, educational organizations and municipalities. Before entering private practice, Mr. Miano was an Assistant Regional Counsel for the U.S. Environmental Protection Agency, Region III, Hazardous Waste Branch. He was an adjunct professor at Rutgers University Law School, where he taught courses on environmental law. He is a frequent lecturer and has written on various environmental legal issues for a variety of publications. He has also served as a course planner for several national environmental law programs. Mr. Miano received his B.S. in Environmental Studies from George Washington University in 1982 and his J.D. from The University of New Hampshire School of Law in 1985. He was a judicial intern to the Honorable Martin Loughlin, U.S.

District Court for the District of New Hampshire. Mr. Miano is listed in Chambers USA America's Leading Lawyers for Business (Band 1), Who's Who of Business Lawyers for Environmental Law, Pennsylvania Super Lawyers and Best Lawyers in America. Mr. Miano a Past Chair of the ABA's Section of Environment, Energy and Resources. He is also a Fellow of the American College of Environmental Lawyers. From 1998-2005, Mr. Miano served as a member and Vice President of the Board of Trustees for the Support Center for Child Advocates and was named Distinguished Child Advocate in 1997. He is a graduate of the Greater Phila Chamber of Commerce Arts & Business Council – Business on Board Program.

Jean M. Mosites, Esq.

Ms. Mosites is a Shareholder in the Environmental Services and Public Sector Services Groups of Babst Calland in Pittsburgh. Her practice focuses primarily on client counseling on environmental compliance in the energy sector, as well as resolving liabilities under federal and state remediation programs. Ms. Mosites has assisted clients responding to agency requests for information and notices of violation issued under Pennsylvania's Oil and Gas Act, Clean Streams Law, and Solid Waste Management Act, as well as federal statutes including CERCLA, the Clean Air Act and the Clean Water Act. She advises clients on regulatory matters encountered in the development of the oil and gas resources, including water sourcing, handling and disposal, gas migration investigations, and site restoration obligations. She also practices before the Pennsylvania Environmental Hearing Board on a variety of matters, including appeals from permits and compliance orders. Ms. Mosites' litigation practice has also included appeals to the Third Circuit, the United States Supreme Court, the Pennsylvania Commonwealth Court, and the Pennsylvania Supreme Court. Ms. Mosites graduated from the University of Pittsburgh with a B.A. in Political Science and a M.A. in International Relations. She graduated magna cum laude from Duquesne University School of Law, where she was the Executive Comment Editor for Duquesne Law Review.

Paula K. Motzel, Esq.

Ms. Motzel is Senior Counsel for Chevron U.S.A. Inc. in Pittsburgh, PA. Her practice focuses on transactional and regulatory matters related to Chevron's Marcellus and Utica shale development in Pennsylvania, Ohio, and West Virginia. She started her career with Chevron in Houston, TX as Counsel for Chevron Pipe Line Company working on FERC regulatory matters for natural gas pipelines and gas storage facilities. Prior to working at Chevron, Ms. Motzel was an Associate at Jones Day in the litigation and pipeline regulatory practice groups. She earned her B.S. in Geology from Denison University and her J.D. from Indiana University School of Law - Bloomington. She is a full-time working mother of four children, Girl Scout Leader, YMCA swimming official, and avid college football fan.

Margaret O. Murphy, Esq.

Ms. Murphy is a supervising attorney with the Pennsylvania Department of Environmental Protection's Bureau of Regulatory Counsel. She is also primary counsel to the Stormwater, Erosion Control and Submerged Lands programs. As a DEP regulatory counsel attorney, Ms. Murphy also facilitates coordination among and provides support to DEP's regional litigation attorneys, periodically represents DEP in litigation matters and works with county conservation district staff, municipal officials, other state agency staff and the U.S. Environmental Protection Agency. She joined the Bureau of Regulatory Counsel in 2001 and has worked closely with the department staff in the development of the 2002 Comprehensive Stormwater Management Policy; the implementation of the NPDES stormwater "Phase II"

regulations; the development of the 2006 Pennsylvania Stormwater Best Management Practices Manual; and the 2010 “Chapter 102” regulatory revisions. Ms. Murphy practiced with DEP’s Northeast Region litigation office from 1992 to 1994 and with the Southeast litigation office from 1994 to 2001. She received her B.A. with honors from Boston College and her J.D. from Villanova University School of Law.

LeAnn H. Murray, Esq.

Mrs. Murray is Senior Legal Counsel in the Office of Chief Counsel for the Democratic Caucus of the House of Representatives. She works in the areas of litigation, and human resources, and provides drafting and legal advice to numerous committees, including, but not limited to the House Environmental Resources and Energy Committee and the House Agricultural Committee. Prior to this position, she was Executive Director of the Pennsylvania Department of Environmental Protection's Citizens Advisory Council; and before that, she served as assistant director and Pennsylvania staff attorney at the Chesapeake Bay Foundation since 2010, helping to direct and coordinate program, communications, and lobbying efforts. Her roles included serving as interim executive director and member of the Renew Growing Greener Coalition. Mrs. Murray previously worked in the Office of Chief Counsel for the Democratic Caucus for the Pennsylvania House of Representatives. She has also worked for the Pennsylvania Federation of Sportsmen's Club and the Pennsylvania Department of Environmental Protection. Mrs. Murray earned her B.A. from Saint Joseph's University in Philadelphia, Pennsylvania where she graduated Summa Cum Laude and her J.D. from The Dickinson School of Law.

Jennifer Orr-Greene

Ms. Orr-Green is Director of the Office of Compacts and Commissions for the PA Department of Environmental Protection in Harrisburg. In this capacity, she represents the Commonwealth on interstate commissions and oversees interstate and international water resources programs, including those related to the Susquehanna, Delaware, Potomac and Ohio Rivers and the Great Lakes. She manages the implementation of the Flexible Flow Management Program as a result of the Supreme Court Decree of 1954 regarding flow management of the Delaware River. She also oversees the Coastal Resources Management Program, the Great Lakes Management Program, the Nonpoint Source Pollution Prevention Program including EPA Section 319 and Growing Greener, the State Water Planning Program, Drought Coordination activities and the Conservation District Support Program. Prior to this position, she was Chief for NPDES Construction and Erosion Control. She is a graduate of Penn State University, M.S., and Bloomsburg University of Pennsylvania, B.S.

Jason E. Oyler, Esq.

Mr. Oyler is General Counsel for the Susquehanna River Basin Commission, which regulates the withdrawal, consumptive use and diversion of water into and out of the Susquehanna River Basin in New York, Pennsylvania, and Maryland. Mr. Oyler authored an article, Regulating Water Use for Energy Development in the Susquehanna River Basin, for Natural Resources & Environment, a publication of the ABA Section of Environment, Energy, and Resources (Winter 2017). Mr. Oyler also co-authored the chapter on “Interstate Water Rights” in Water Rights and Environmental Regulation: A Lawyer’s Guide (ABA 2018). Prior to joining the SRBC, Mr. Oyler was Assistant Counsel with the Pa Department of Environmental Protection where he counseled the NPDES program, the sewage facilities planning and permitting program, and the water obstruction and encroachments program,

as well as, 401 water quality certifications under the Clean Water Act and endangered and threatened species. Mr. Oyler was also Assistant Counsel for the Pa Fish and Boat Commission where he counseled on a variety of administrative, regulatory, environmental and real estate matters. Mr. Oyler received his J.D. from Georgetown University Law Center, where he was Publication Director of the State and Local Tax Lawyer, and his B.A. from Franklin and Marshall College. Mr. Oyler lives in Camp Hill, PA with his wife Rebecca and two children.

Scott R. Perry, Esq.

Mr. Perry is the Deputy Secretary for the Department of Environmental Protection's Office of Oil and Gas Management. He has worked for DEP for 17 years and prior to becoming Deputy Secretary, he served as the Director of the Bureau of Oil and Gas Management and was also an attorney with DEP's Bureau of Regulatory Counsel. As a lawyer for the Department, his practice focused on energy and water protection, counseling the Oil and Gas program as well as the Department's Office of Energy and Technology Deployment, Bureau of Radiation Protection and Division of Source Water and Groundwater Protection among others. Mr. Perry earned his B.A. from Penn State in 1995 and his J.D. from Willamette University, College of Law in Salem, Oregon in 2000.

Robert "Bo" Reiley, Esq.

Mr. Reiley is an Assistant Director in the Bureau of Regulatory Counsel with the Pennsylvania Department of Environmental Protection. In this capacity he provides legal counseling to the Bureau of Air Quality on permitting, enforcement, and regulatory matters. In addition, he has represented the Department in a number of federal litigation matters. Mr. Reiley received a B.A. in political science from DeSales University, a J.D. from Ohio Northern University, an LL.M. from George Washington University, and a M.S. from Penn State University.

Daniel Reiter, Esq.

Mr. Reiter is a partner at Fox Rothschild LLP in Philadelphia. He represent a range of developers, owners, operators, and investors, and a diverse group of other businesses and principals in connection with sophisticated real estate, renewable energy, and other transactional matters. He is a Co-Chair of the firm's Energy and Natural Resources Practice Group. Throughout his career, in addition to his transactional real estate, commercial contracting and general business law practices, he has practiced regularly in the rapidly expanding and constantly evolving solar energy space. This includes representing a mix of independent power producers and other project developers, system owners, and host site owners in connection with the development, due diligence, purchase or potential purchase, sale or potential sale, construction, financing, operation, maintenance, dispute resolution, and/or asset management, of hundreds of megawatts of solar energy generation facilities in the aggregate. After graduating from Harvard Law School, he began his legal career in the finance and real estate department of a prestigious international law firm. While in law school, he served as a summer clerk in the chambers of the Honorable Richard B. Klein of the Superior Court of Pennsylvania. He has also served as Co-President of Brown University's chapter of Omicron Delta Epsilon, the international honor society in economics. He is a life-long, accomplished musician (having played at the professional level since a relatively young age), and an avid competitive equestrian. He is also involved with a number

of animal-related and land and environmental conservation charities. He was named among the “Best Attorneys in Business” by Philly Biz (2016). He is a graduate of Harvard Law School, J.D., and Brown University, A.B., magna cum laude.

David G. Ries, Esq.

Mr. Ries is Of Counsel in the Pittsburgh office of Clark Hill PLC, where he practices in the areas of environmental, technology and data protection law and litigation. For more than 20 years, his technology practice has increasingly focused on cybersecurity, privacy and information governance. His environmental practice for more than 40 years has included a broad range of issues in federal and state courts and before administrative agencies, including CERCLA litigation, Clean Water Act litigation, solid and hazardous waste issues, Clean Air Act litigation, storage tank litigation, wet weather issues, drinking water, court and administrative challenges to regulatory programs, and defense of enforcement actions. Mr. Ries frequently speaks nationally on cybersecurity, environmental, ethics, legal technology and technology law issues for legal, academic and professional groups. He is the Editor of “e-Discovery 4th Edition” (PBI Press 2017), a co-author of “Locked Down: Practical Information Security for Attorneys, Second Edition” (American Bar Association 2016) and “Encryption Made Simple for Lawyers” (American Bar Association 2015), and a contributing author to “Information Security and Privacy: A Legal, Business and Technical Handbook, Second Edition” (American Bar Association 2011). He is a Trustee and Past President of the Energy and Mineral Law Foundation and a member of the Editorial Board of Environmental Forensics, a peer-reviewed journal. Mr. Ries received his J.D. from Boston College Law School. He can be contacted at dries@clarkhill.com or 412-394-7787.

Jonathan E. Rinde, Esq.

Mr. Rinde entered the legal profession with an educational background in the sciences and natural resources, and with professional experience as an environmental consultant. As a partner at Manko, Gold, Katcher & Fox, LLP, in Bala Cynwyd, he advises clients on issues ranging from wetlands, endangered species and cultural resources to those involving brownfields remediation, sewage facilities, and real estate transactions and permitting. He was lead environmental counsel to the Philadelphia Authority for Industrial Development in its acquisition of the Philadelphia Navy Yard, an approximately 1,400 acre former military base in south Philadelphia, a representation that continues today as he assists in its redevelopment as a vibrant mixed-use development. Early in his career, Mr. Rinde was a guest commenter on “Court TV,” discussing a citizen’s suit regarding the American bald eagle. More recently, he has been counsel to industrial clients and real estate development firms in avoiding and resolving enforcement actions regarding the management of stormwater, an area of recent and rapid regulatory change. Outside of the office, Mr. Rinde serves as Chairman of the Montgomery County Agricultural Land Preservation Board and continues to work to improve his community by serving on the Boards of the Perkiomen Watershed Conservancy and the Colledgeville Economic Development Corporation. He is admitted to practice in both Pennsylvania and New Jersey. Mr. Rinde graduated cum laude from Temple University Law School. He received his B.A. from the State University of New York at Binghamton and a Master’s of Regional Planning from the University of Michigan.

Erin E. Rodgers

Ms. Rodgers has 17 years of diverse environmental laboratory and quality assurance experience. As an Associate Principal Chemists she is responsible for managing projects for

several industrial clients. Projects managed range from corporate laboratory programs, to third-party data validation, to forensic data review and consulting chemistry projects. In her role as Technical Project Manager of corporate laboratory programs, Ms. Rodgers coordinates discrete and ongoing quality monitoring activities including laboratory auditing, performance evaluation studies, and data validation. She also serves as the technical reference point for the laboratory programs and acts as a liaison between the client Project Managers, engineering consultants and analytical laboratories. Ms. Rodgers prepares Requests for Proposals for environmental laboratory services for industrial clients and assists clients in selecting the most appropriate laboratories to meet their specific requirements.

Robert Routh, Esq.

Mr. Routh is a staff attorney with Clean Air Council, an environmental health organization headquartered in Philadelphia. Mr. Routh is the leading land use practice attorney at the Council and represents the organization in a wide variety of environmental civil actions, including cases arising under the Clean Air Act, the Air Pollution Control Act, the Pennsylvania Code, and the Pennsylvania Constitution. Mr. Routh's practice focuses particularly on matters related to oil and gas development. He coordinates the Council's legislative and administrative outreach on matters relating to Pennsylvania's natural gas industry. Prior to joining Clean Air Council, Mr. Routh clerked for two federal judges of the U.S. District Court for the Eastern District of Pennsylvania, the Honorable Norma L. Shapiro and the Honorable M. Faith Angell. Mr. Routh earned his B.A. from the University of Pennsylvania and his J.D. from the University of Michigan Law School.

Jason D. Sharp, Esq.

Mr. Sharp was appointed Acting Chief Counsel for the Pennsylvania Department of Transportation (PennDOT) in June of 2017 and Chief Counsel in March 2018. Prior to his appointment, he was the Executive Deputy Chief Counsel, serving as chief administrator for three regional PennDOT legal offices that provide litigation and legal support services for forty-five (45) counties, as well as assisting the Chief Counsel in overall management of office's personnel, fiscal and information technology needs. Additionally, Mr. Sharp managed PennDOT's administrative docket program, serving as lead hearing officer. Mr. Sharp also acted as counsel on priority projects and litigation matters including service as lead counsel to Pennsylvania's Autonomous Vehicle Task Force, addressing connected and automated vehicle issues. Prior to his appointment as Executive Deputy, Mr. Sharp was a member of the Office's Real Property Division, litigating before administrative, trial and appellate tribunals, including the Pennsylvania Public Utility Commission, various Courts of Common Pleas and the Commonwealth and Supreme Courts. His practice concentrated on right-of-way acquisition defense; utility relocation issues; railroad/highway issues; property acquisition management, sale and disposal; and contracting or permitting issues for non-motorized uses of highway right-of-way. Mr. Sharp is a graduate of Widener University School of Law and holds a Bachelor of Arts degree in Political Science from King's College. At Widener, he was a member of the Moot Court Honor Society and recipient of the school's Outstanding Service Award.

Susan P. Shinkman, Esq.

From 2012 to 2017, Ms. Shinkman was the Director of EPA's Office of Civil Enforcement. She was responsible for the management and oversight of EPA's civil enforcement program. Prior to that she served for 7 years as Chief Counsel to the Pennsylvania Department of

Environmental Protection. She has also served as Chief Counsel to PA's Inspector General and the PA Department of Labor and Industry. She was an Assistant United States Attorney in the US Attorney's Office for the Eastern District of PA, concentrating on environmental enforcement litigation and health care fraud. As a Chief Deputy Solicitor for the City of Philadelphia, Ms. Shinkman was responsible for litigating and negotiating major federal and state civil rights actions. She received her undergraduate degree from Dickinson College and her law degree from Temple University. She has a Masters in Public Administration from Harvard University's Kennedy School of Government.

Beth Liss Shuman, Esq.

Ms. Shuman served as Supervisory Counsel at the Department of Environmental Protection's Southcentral Regional Office. Ms. Shuman received her B.A. (with honors) from the University of California, Santa Barbara, her J.D. from Marquette University Law School, and her LL. M. from Georgetown University Law Center.

Christina Simeone

Ms. Simeone is Director of Policy and External Affairs of the Kleinman Energy Policy Center at the University of Pennsylvania. Prior to this post, she served as the Director of the PennFuture Energy Center for Enterprise and the Environment, where she focused on energy and climate issues that impact Pennsylvania. She has experience in private environmental consulting, in the financial management sector, served at the Secretary's special assistant for energy and climate change at the PA Department of Environmental Protection, and was the policy director for former Vice President Al Gore's climate change organization, the Alliance for Climate Protection. Ms. Simeone holds a Master of Environmental Studies degree from Penn, a B.A. in Economics from the University of Miami, and B.S. in Music from Drexel University. She was appointed Co-Chair of the transition review committee on the Department of Environmental Protection for the incoming Wolf administration.

John F. Slade

Mr. Slade is a graduate of Princeton University with a degree in Aerospace Engineering. He has over 45 years of professional experience in various aspects of air quality management. He served for over 13 years as the Chief of the Division of Air Quality Permitting for the Pennsylvania Department of Environmental Protection (PADEP). He has been a Senior Consultant for ALL4 for the last ten (10) plus years. Mr. Slade has significant air permitting experience related to both Title V and New Source Review (NSR). He was a lead developer of the Title V and Nonattainment NSR (NNSR) permitting programs for PADEP. A key area of Mr. Slade's expertise is his experience working with major source permitting, NSR permitting applicability and permitting strategy; along with the associated emissions offsetting and emissions trading programs. He has assisted a wide variety of industrial clients including power generation, chemical processing and refining, pulp & paper production, with NSR permitting and the generation and use of emission credits and emissions trading allowances to meet their various permit requirements. Mr. Slade's professional experience has also included responsibility for air quality modeling, ambient air quality standards attainment designation determinations, air quality permitting and compliance assistance.

Steven T. Smith

Mr. Smith is Assistant Counsel for PA DCNR in Harrisburg. He is responsible for drafting oil and gas lease agreements, production agreements, and amendments thereto; and handling various litigation matters in the Commonwealth Court and federal bankruptcy courts. Prior to this position, he was an Assistant District Attorney for the Franklin County District Attorney's Office. He also served a year as a volunteer for the United Nations. He is a graduate of Widener University School of Law, JD, Suffolk University Law School, and the University of Pittsburgh, B.A.

Jennifer A. Smokelin, Esq.

Ms. Smokelin is an attorney at Reed Smith, LLP and represents clients in a broad range of environmental and energy issues, including environmental civil enforcement and litigation matters, as well as regulatory and transactional issues for energy companies. Her practice focuses on all aspects of regulatory and litigation counseling in the fields of environmental, natural resource, and energy law, with a focus on emerging air issues. She draws upon her experience in business and engineering to incorporate regulatory compliance into sound business strategies. For the past several years, she has focused her practice on emerging energy and greenhouse gas issues. In 2015, Ms. Smokelin was a delegate to the Paris Climate Talks (the 21st Conference of the Parties (COP21) under the United Nations' Framework Convention on Climate Change) and was also a delegate at COP15 in Copenhagen, Denmark, in December 2009 . She has served as lead trial counsel in important air permitting aggregation cases as well as environmental counsel on emerging energy deals in Pennsylvania including ground breaking distributed generation deals as well as \$1B public acquisitions. She is very involved in carbon allowance and offset trading issues in California under AB32; she was on the committee to draft the International Emissions Trading Association (IETA) California Emission Master Trading Agreement (CEMTA) (issued October 2013 <http://www.ieta.org/trading-documents>) which is used to consolidate trading documentation across the entire industry. She is also a Professor of Law (adjunct) at the University of Pittsburgh School of Law, where she teaches the course, "Climate Change and the Law.". She received her J.D., summa cum laude, from University of Pittsburgh and also holds B.S.E., University of Pennsylvania, Systems Science and Engineering; Minor: Wharton School, Decision Sciences. She publishes regularly; her most recent publication is " The Paris Agreement, Leading the Way to a Low-Carbon Economy" soon to be published in the Energy Law Journal, as well as "Pa. Methane Rules May Be Tougher Than Federal Standards" Law360, New York (February 1, 2016, 11:15 AM ET).

Jonathan H. Spergel, Esq.

Mr. Spergel is the managing partner of Manko, Gold, Katcher & Fox LLP in Bala Cynwyd, Pennsylvania, the environmental and energy law firm with which he started his legal career in 1993. He handles a wide variety of environmental legal issues, including the environmental aspects of commercial transactions and brownfields sites, environmental insurance procurement and coverage issues, public funding opportunities, regulatory compliance counselling, and litigation for commercial, industrial, residential, and individual clients. From September 2001 to February 2003, he served as general counsel of O'Neill Properties, a regional real estate development company. He has authored a number of articles on environmental issues and frequently lectures for various groups and organizations. He graduated with distinction from Stanford University and received his J.D. from the University of Pennsylvania Law School, cum laude. Mr. Spergel is also an adjunct

professor at Villanova University School of Law. He serves on the boards of the City Avenue Special Services District and Legacy Youth Tennis and Education, where he also serves on the executive committee. He is also the Chairman of the Board of the Montgomery County Redevelopment Authority.

Diana Stares, Esq.

As the Litigation Coordinator for the PA DEP's Office of Chief Counsel, Ms. Stares oversees the agency's litigation activities, including developing and advising on litigation strategies, legal and policy arguments, and evidentiary issues, coordinating litigation with other agencies, and providing training on developments in environmental and administrative law. Earlier, Ms. Stares served as an Assistant Counsel and as the Regional Counsel for DEP's Southwest Regional Office, managing an office of lawyers and administrative responsible for counseling and representing regional staff in the implementation of state and federal environmental protection programs. From 2011 to 2016 she served as the inaugural Director of the Center for Energy Policy and Management at Washington & Jefferson College, where she researched energy development and use issues, coordinated development of the W&J Energy Index, worked with students on research and projects related to the Center's work, and created (with foundation support) the Shale Gas Knowledge Hub to serve as a neutral source of information about the regional shale gas industry. Ms. Stares received a J.D. from Duquesne University School of Law and a B.A. from Hofstra University.

Aaron J. Stemplewicz, Esq.

Mr. Stemplewicz is the senior attorney at the Delaware Riverkeeper Network, an environmental non-profit organization dedicated to protecting and preserving the health and vitality of the Delaware River Basin. Mr. Stemplewicz received his J.D. from Temple University Beasley School of Law and joined the Delaware Riverkeeper Network in 2011. Mr. Stemplewicz's work focuses primarily on natural gas drilling issues generally, and pipeline infrastructure build-out specifically. He has brought and argued cases before the D.C. Circuit Court of appeals, the Third Circuit Court of Appeals, the D.C. Federal District Court, and the Pennsylvania Environmental Hearing Board. Mr. Stemplewicz argued a precedent setting case where the D.C. Circuit found, for the first time, that the Federal Energy Regulatory Commission violated the National Environmental Policy Act in its unlawful approval of a series of segmented pipeline projects without proper environmental review. He has also written articles relating to natural gas drilling which have been published by the Duquesne Business Law Journal and Buffalo Environmental Law Journal. Additionally, he frequently speaks in webinars, teaches an environmental law clinic for Temple University Law School, and was panelist/speaker at a conference sponsored by the Baldy Center for Law and Social Policy: "Hydrofracking: Exploring the Legal Issues in the Context of Politics, Science and the Economy." Currently, Mr. Stemplewicz is litigating a case before the D.C. Circuit arguing that Article I, Section 27 of the PA Constitution provides an individual property/liberty interest sufficient for plaintiffs to bring a Due Process claim.

John F. Stoviak, Esq.

Mr. Stoviak is a partner at Saul Ewing Arnstein & Lehr where he has previously served as the Firm's Managing Partner, Chair of the Litigation Department, and founder and Chair of the Environmental Department. He primarily handles high-stakes litigation for business, environmental and energy clients in courts throughout the United States. He has been practicing environmental law since he worked as a law clerk at the Pennsylvania Department

of Environmental Resources in 1974. In the past decade, he has tried to verdict CERCLA cost recovery/contribution actions in federal courts in Oklahoma, New York and Ohio. Also, in the past decade, he has been lead appellate counsel for interstate natural gas pipelines and has argued appeals related to challenges to FERC-approved pipelines in the US Courts of Appeal for the DC Circuit, the Third Circuit and the Second Circuit. Over the years, he has been active in Superfund sites and litigations in Pennsylvania, New Jersey, Delaware, Maryland and Oklahoma and he was the Chair of the Industrial Solvents Site Participating Parties Group in Pennsylvania. He is a member of the Board of Trustees of the Willistown Conservation Trust and formerly served as the Chair of the Board of Trustees for The Haverford School. He earned his J.D. from the Penn State Dickinson School of Law and his B.A. from Harvard University. He has served as an adjunct professor at Villanova University Law School, where he taught Trial Advocacy.

Curtis C. Sullivan, Esq.

Mr. Sullivan is a Supervisory Counsel assigned to PA DEP's Southcentral Regional Office, where he counsels various water programs in enforcement and litigation matters. Mr. Sullivan previously worked at PA DEP's Bureau of Regulatory Counsel, where he counseled the Bureau of Radiation Protection, Division of Hazardous Waste, and Division of Dam Safety, among other programs. Mr. Sullivan earned his B.S. degrees in Biology and Psychology from The Pennsylvania State University at University Park. He earned his J.D. and a Certificate in Environmental Law, Science & Policy from the University of Pittsburgh School of Law.

Andrew L. Swope, Esq.

Mr. Swope is General Counsel, Vice President and Secretary for Pennsylvania American Water. In this role, he provides legal counsel and representation for Pennsylvania American Water, as well as directs and oversees the strategic and day-to-day legal services that support American Water's state regulated operations in the Mid-Atlantic region. Prior to joining Pennsylvania American Water, he was a partner in the Harrisburg office of K&L Gates LLP, one of the nation's 10 largest law firms. He served in K&L's energy practice group, where he handled a wide array of matters ranging from commercial contracts and disputes to civil litigation involving project owners and contractors, construction and engineering, environmental compliance and real estate issues. Mr. Swope is a member of the Pennsylvania Bar Association and the American Bar Association. He has lectured on a variety of legal issues and authored a number of articles. He is admitted to the Supreme Court of Pennsylvania, United States Court of Appeals for the Third Circuit, United States District Court for the Eastern and Middle Districts of Pennsylvania, and has Pro Hac Vice admission to various state and federal courts. He graduated from Dickinson College in Carlisle, Pa., and earned his law degree from Widener University in Wilmington, De.

Gina M. Thomas, Esq.

Ms. Thomas is an Assistant Counsel in the Governor's Office of General Counsel ("OGC"). She is assigned to work for the Department of Environmental Protection's ("DEP") Southeast Regional Office in Norristown. Her practice focuses on radiation protection, safe drinking water, remediation of hazardous waste sites and hazardous waste cleanup cost recovery litigation. Before joining the DEP's Southeast Regional Office, she was an associate in the Environmental Law Group of Fox, Rothschild, O'Brien & Frankel, from 1997-1998 and was

an Assistant Counsel in the DEP's Southcentral Regional Office (Harrisburg) from 1992-1997. She clerked for Honorable James Gardner Colins, Senior Judge of the Pennsylvania Commonwealth Court and interned for the late A. Leon Higginbotham, former Chief Judge of the U.S. Third Circuit Court of Appeals. Ms. Thomas graduated from Temple University Law School in 1990 and Princeton University in 1987. In May, 2015, Ms. Thomas received mediation training from the U.S. District Court for the Middle District of Pennsylvania. She is a member of the OGC Mediation Practice Group and regularly mediates cases filed before the PA Human Relations Commission. In her spare time, Ms. Thomas serves on the Board of Directors for the Holy Cross Independent Mission School in Philadelphia, sings for the volunteer chorus of the Delaware Valley Opera Company and is a member of the Pennsylvania Chapter of the National Coalition of 100 Black Women.

Carrie M. Tongarm, Esq.

Ms. Tongarm is Commercial Counsel for Real Estate and Environmental for Duquesne light Co. Previously she was an Associate in the Pittsburgh office of Saul Ewing Arnstein & Lehr, where she represented clients in matters related to environmental regulation and policy, with a particular emphasis on the development of the Marcellus Shale. Prior to joining Saul Ewing, Ms. Tongarm was a legal intern for an upstream oil and gas producer, where she developed knowledge of the Federal Pipeline and Hazardous Materials Safety Administration regulations relating to natural gas gathering and transmission lines, as well as experience in environmental and regulatory matters related to natural gas development. During law school, she interned at Neighborhood Legal Services and was a summer law clerk for a Pittsburgh personal injury law firm. Prior to attending law school, Ms. Tongarm was involved in theater production in New York City. She was a marketing associate for The Public Theater and a professional stage manager for the Actors' Equity Association.

Maya K. van Rossum, Esq.

Ms. van Rossum is the Delaware Riverkeeper and leader for the Delaware Riverkeeper Network. The Delaware Riverkeeper Network works throughout the four states of the Delaware River watershed (NY, NJ, PA & DE) and at the national level using advocacy, science and litigation. van Rossum, the original organizer and petition of the Green Amendment movement, is skilled as an environmental attorney, strategist, community organizer, facilitator, coalition builder and manager, has led DRN for over 23 years. Ms. van Rossum was appointed to NJ Governor Murphy's transition committee on environment and energy, was named One of the "10 Most Influential People of 2015" When It Comes to Energy Issues by SNL Energy, and has testified, by invitation, twice before U.S. Congressional committees. She has also served as director of the Environmental Law Clinic at Temple's Beasley School of Law since 2002 when she founded the clinic. She is the author of a book titled, *The Green Amendment: Securing Our Right to a Healthy Environment*, which was selected as the 2018 Living Now Evergreen Awards GOLD Winner in the Nature Conservation category. She is currently seeking to inspire and secure constitutional protection for environmental rights across the nation.

Rock J. Vitale, CEAC

Mr. Vitale is the Technical Director of Chemistry and founder of Environmental Standards, Inc. and has over 30 years of experience in the environmental chemistry field consulting to a variety of industrial clients on matters of generating high-quality analytical data when addressing their environmental liability. Mr. Vitale has almost 40 years of analytical quality

assurance experience. He is a recognized expert in the following fields: organic and inorganic data validation (including specialty analyses); laboratory auditing; preparation or third-party review of quality assurance project plans (QAPjPs); design of specialty analyses to accommodate project-specific data quality objectives (DQOs); quality assurance oversight of complex projects (sediment projects, biomonitoring projects); and agency negotiations.

Howard J. Wein, Esq.

Mr. Wein is Of Counsel with Buchanan Ingersoll & Rooney PC in its Pittsburgh office. His environmental practice has focused on representing corporate clients with respect to important water quality, waste management, energy, and air quality matters at both the state and federal levels. Prior to entering private practice, he served as Assistant Attorney General and later Assistant Counsel for the Pennsylvania Department of Environmental Resources. Mr. Wein has published numerous articles and course materials, including an article that was the first law journal article addressing environmental regulation and the Federal Bankruptcy Act, published in the *Duquesne Law Review* in 1977. He received his B.A. in 1972 from George Washington University and his J.D. in 1975 from the University of Pittsburgh School of Law. Mr. Wein served as chair of both the Allegheny County Bar Association's Environmental Law Section and the Pennsylvania Bar Association's Environmental, Mineral, and Natural Resources Law Section. In December 1994, he served on the Transition Team Study Group on Environmental Issues for Governor Tom Ridge, and in December 2002, he again served on the Transition Team on Environmental Issues for Governor Edward Rendell. Mr. Wein currently serves as chair of the Environmental Hearing Board's Procedural Rules Committee, of which he has been a member since 1996 and has been a member of the Allegheny County Local Emergency Management Committee for over 20 years.

Harry Weiss, Esq.

Mr. Weiss is Practice Leader of Ballard Spahr's Environment and Natural Resources Group and administers the group's practice across the country. He provides an array of clients with compliance advice arising out of new federal and state regulations; assists clients with commenting on new regulatory initiatives; and, most recently, has initiated an appeal to the U.S. Circuit Court of Appeals for the D.C. Circuit on behalf of a recycling client challenging EPA rules concerning the content of fuel for use in residential wood-burning heaters. Mr. Weiss also concentrates his practice on redevelopment of contaminated properties and other environmental issues that arise in the development context, such as storm water management control during construction, wetlands permitting, and the presence of endangered or threatened species. He served as litigation counsel to the Philadelphia Regional Port Authority in the challenge to the Delaware River Main Channel Deepening Project. He also litigates before the Pennsylvania Public Utility Commission on energy and transportation infrastructure matters. With the arrival of the Marcellus and Utica Shale Natural Gas Plays to the Mid-Atlantic Region, Mr. Weiss has extended his practice to issues arising out of oil and gas development in Pennsylvania and Maryland. For the last several years, he has written and spoken nationally on natural gas exploration issues at industry and trade association conferences, and to bankers, landowners, federal and state regulators, and land conservation groups. Mr. Weiss also has provided oil and gas exploration companies with regulatory advice. In addition, he represents parties in quiet title actions. Mr. Weiss is the author of *Pennsylvania Oil and Gas Law and Practice*, published by George T. Bisel Company, Inc. (first edition, 2012; second edition, 2014). From 2011-2014, he served on

former Maryland Governor Martin O'Malley's Marcellus Shale Advisory Commission, a 13-member panel that studied natural gas drilling in the Marcellus Shale in Western Maryland. The panel issued its final report in January 2015. Before entering law school, Mr. Weiss was general manager of Lakewood Oil Company, Inc., in Honesdale, Pennsylvania, and began his professional career as a staff writer for the North Jersey Herald-News in Passaic, New Jersey.

Dennis A. Whitaker, Esq.

Mr. Whitaker, partner with Hawke, McKeon & Sniscak, LLP, is a founder and principal contributor to Pennsylvania Appellate Advocate, a blog on issues of interest to appellate practitioners and particularly those issues in or on their way to the Pennsylvania Supreme Court. Dennis combines expertise in administrative law with extensive litigation, trial and appellate experience. He is the only person to have been appointed as chief counsel to both the Department of Environmental Protection and the Department of Conservation and Natural Resources. During his nearly 28 years of Commonwealth service, he litigated and argued complex cases at trial and on appeal before administrative tribunals and state and federal courts, prosecuted selected criminal matters as a Special Deputy Attorney General, and authored amicus briefs before the Third Circuit, the Sixth Circuit, the Pennsylvania Supreme, Superior and Commonwealth Courts and the courts of common pleas. He currently focuses on appellate and original jurisdiction practice in Pennsylvania and in selected federal courts, using his extensive knowledge of government and the courts to offer sound advice, creative solutions and effective strategies. Dennis is a past President of the Pennsylvania Bar Institute and a past chair of PBA's Administrative Law Section, and frequently serves as a planner and faculty member in CLE programs related to administrative law and appellate practice. He was law clerk to Joseph T. Doyle, President Judge of the Commonwealth Court, as well as Commonwealth Court Judges Bonnie Leadbetter and Renee Cohn Jubelirer. He received his J.D. from the Dickinson School of Law and his B.S. from the Pennsylvania State University.

Andrew Williams, Esq.

Mr. Williams is Director of Regulatory and Legislative Affairs, U.S. Climate and Energy for the Environmental Defense Fund (EDF). His areas of expertise include oil & gas law, energy finance, air quality policies, and corporate engagement. He oversees EDF's efforts to improve environmental performance and oversight of oil and gas production activities in the Appalachian Production Basin. He also manages technical experts and policy advocates, and works with state officials, industry partners and NGOs. Before joining EDF, Mr. Williams served as V.P. and General Counsel for Hickory Creek Ventures, LLC, a strategic consulting business focused on the nexus between natural resource production, legislative reform, and technology innovation. He has also been an Operational Officer and Vice President for Atlas Pipeline Mid-Continent in Tulsa Oklahoma, Director of Commercial Services for Atlas, and the Manager of Environment Health and Safety for Spectrum Field Services. He served on the advisory council for the Oklahoma Commission on Marginally Producing Oil and Gas Wells, is a past board member of the Natural Gas and Energy Association of Oklahoma, served on the Legislative and Regulatory Affairs Committee for the Gas Processors Association, and was a PetroPro with the Oklahoma Energy Resources Board. He is a

graduate of Oklahoma State University (B.S., Agriculture and Natural Resources) and Oklahoma City University School of Law (J.D.)

Lauren M. Williams, Esq.

Ms. Williams is an associate in the Doylestown office of Curtin & Heefner LLP. She represents individuals, community and environmental groups, and municipalities in environmental and land use matters, including shale gas development challenges, environmental litigation, zoning appeals, and zoning ordinance drafting and revision. Ms. Williams has also assisted municipal clients with open space matters, including drafting and reviewing conservation easements. Ms. Williams has worked with clients in matters at the Pennsylvania Environmental Hearing Board, in state and federal court, and in local government proceedings. Ms. Williams was part of a team of attorneys who successfully challenged and overturned Act 13 of 2012, which sought to override local zoning authority over oil and gas operations. The Pennsylvania Supreme Court's decision in *Robinson Township v. Commonwealth* also revitalized Article I, Section 27 of the Pennsylvania Constitution (the Environmental Rights Amendment). Ms. Williams was also actively involved in analyzing SB411, a proposed law that would have given expansive protections from liability to those who used acid mine drainage in fracking operations. She has spoken and written on environmental and zoning issues to various audiences, including citizens groups, other attorneys, and legislators. Ms. Williams has also worked with municipalities on collective bargaining, civil service commissions, and general municipal law issues (for example, Right-to-Know Law), and has advocated for municipalities in Pennsylvania Labor Relations Board matters. Ms. Williams, prior to joining the law firm, was a certified legal intern at the University of Pittsburgh School of Law Environmental Law Clinic, working with clients primarily on water quality issues. She received her B.A., summa cum laude, from the University of Cincinnati and her J.D., magna cum laude, from the University of Pittsburgh School of Law.

Reed Wills, Esq.

Mr. Wills has managed energy development and finance teams for over 20 years, with a specific focus on the solar PV market since 2011. He is the Chief Operating Officer of SunEast Development LL in West Chester where he is responsible for the permitting, engineering, interconnection and execution of the company's projects. Prior to joining SunEast, Reed was Vice President at Duke Energy Renewables responsible for project development in the California solar market and served as Duke's representative on the Large Scale Solar Association board of directors. Additionally, Reed held senior management positions with NRG Energy, United American Energy and Northstar Power. His considerable experience includes project development, project finance, asset management and negotiation of contracts for real estate, engineering and construction, operations and maintenance and long-term power sales agreements. In the mid 1990's, he and his partner Tom Swank led the formation of West Coast Power, a joint venture between NRG and Dynegy, which ultimately purchased over 3,000 MW of utility assets in southern California. Additionally, he has acquired and managed over 1,000 MW of independent power facilities. Mr. Wills has an M.S. in Energy Management and Policy from the University of Pennsylvania and holds a B.A. in Geography and Urban Planning from Temple University.

Sarah E. Winner, Esq.

Ms. Winner is a Staff Attorney at the Center for Coalfield Justice. Working with plaintiffs in Dallas, Texas who were disproportionately and adversely affected by the harmful effects of industrial nuisances inspired Sarah to commit to a career in environmental law. Since then, she has been fortunate to work on a variety of complex environmental issues. Ms. Winner earned her law degree at the University of Pittsburgh School of Law. As a Certified Legal Intern at the University of Pittsburgh Environmental Law Clinic, she worked on a variety of environmental matters involving coal extraction and natural gas development. After law school, she was the Interim Legal Director at CCJ before joining Fair Shake Environmental Legal Services as a Resident Attorney. In March 2016, Ms. Winner returned to CCJ as Staff Attorney.

Jordan B. Yeager, Esq.

Mr. Yeager is Partner with Curtin & Heefner LLP in Doylestown, PA, where he chairs the firm's Public Sector and Environmental practice groups. With a wide range of litigation experience, Mr. Yeager currently focuses his practice on appellate litigation, zoning and land use, municipal law, environmental law, and constitutional law. Mr. Yeager has been repeatedly recognized as a Pennsylvania Super Lawyer and was awarded the Florence Neilson Environmental Leadership Award in 2013. In the landmark case Robinson Township v. Commonwealth of Pennsylvania, Mr. Yeager successfully argued before the Pennsylvania Supreme Court that Act 13 of 2012, amending the state's Oil & Gas law, violated Article I, Section 27 of the PA Constitution (Environmental Rights Amendment). The Supreme Court's opinion adopting Mr. Yeager's arguments upheld the role of local governments in land use and environmental matters and has been widely recognized as breathing life into the Environmental Rights Amendment, ushering in a new era of environmental jurisprudence. Mr. Yeager is a frequent lecturer and published author. His legal work has been featured in the books "Amity and Prosperity," and "The Green Amendment." Mr. Yeager holds a B.A. from Cornell University and J.D. from American University, Washington College of Law.

