

## **Chesapeake Bay Two New Onsite Wastewater Nutrient Removal BMPs Expert Panel List and Bios**

**Full Name:** Jason Baumgartner

**Preferred First Name:** Jason

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**Biosketch (one paragraph):** Jason Baumgartner is an Environmental Scientist with the Delaware Department of Natural Resources and Environmental Control (DNREC). He has been with DNREC for 10 years and is in charge of the Innovative/Alternative on-site systems program. His involvement with the program includes: product approvals, permit review, and compliance oversight. He holds a B.S and M.S from Wesley College in Dover, DE.

**Full Name:** Steven Berkowitz

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**Biosketch (one paragraph):** I serve as the senior Engineer in the On-Site Water Protection Branch. The Engineering Team is responsible for managing engineering reviews of plans and specifications for all large (3000+ gallons per day) subsurface wastewater systems and all subsurface systems, regardless of size, which handle industrial process wastewater; for providing technical assistance and guidance to local health departments and professional engineers in wastewater system design; and for evaluating alternative system designs and research protocols for the testing of new technologies. I have served as Team Leader and worked for the Branch (or its predecessors) in this capacity for 33 years. I have been intimately involved in the design, assessment and field evaluation of subsurface drip systems since the early 1990s, presenting findings of my work at multiple national conferences. I have also served for many years and continue to serve as a Regulatory member of NSF-International's Joint Committee on Wastewater Technology and have participated in previous Chesapeake Bay and WEF Expert Panels.

**Full Name:** Thomas H. Boekeloo

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**Biosketch (one paragraph):** B.S. in Environmental Engineering, Pennsylvania State University, 1979  
NYS Professional Engineer, 1989. Presently with the NYS Department of Environmental Conservation as an Environmental Engineer II. Serves as a consultant for department Nonpoint Source (NPS) program on onsite and decentralized wastewater treatment and technical guidance development for wastewater

treatment, including the revision of the Design Standards for Intermediate-Sized Wastewater Treatment Systems (2014). Serves as both Pesticide General Permit and Private, Commercial and Institutional SPDES General Permit Coordinator. Served on CBP Expert Panel on Nutrient Attenuation on GW, and BMP Data-Sharing Workgroups for both CBP and NE-NY. Former NYSDEC positions included development of technical and program documents for the department's NPS program; provided oversight of the development of a statewide training network for OWTS design, installation, inspection and soils evaluation; researched and wrote components of a set of statewide water resource summary documents reporting on water resource needs of selected communities in substate regions of NYS for the department's Bureau of Water Resources; served as a Regional water program engineer conducting a sanitary survey, writing SPDES permits, and conducting treatment plant inspections. Previous work outside of NYSDEC: project engineer for Petrex, Inc. on ten oil-water separator cover projects in six states providing compliance with hydrocarbon emission requirements for petroleum industry wastewater treatment systems.

**Full Name:** John R. Buchanan

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**Biosketch (one paragraph):** Dr. John R. Buchanan is an Associate Professor and is on the faculty of the Biosystems Engineering and Soil Science Department at the University of Tennessee. He has 25 years of teaching, research, and outreach experience in the areas of onsite and decentralized wastewater management, water quality and storm water engineering. Dr. Buchanan has B.S. and M.S. degrees in Agricultural Engineering and a Ph.D. in Civil Engineering, all from The University of Tennessee. John is a member of the Water Environment Federation, Soil and Water Conservation Society, NOWRA, and the American Society of Agricultural and Biological Engineers. He is a registered professional engineer in Tennessee.

**Full Name:** Marcia J. Degen

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**Biosketch (one paragraph):** Dr. Degen has a B.S. in Biology, a Masters in Environmental Sciences and Engineering, and a Ph.D. in Environmental Engineering, all from Virginia Tech. She is also a licensed Virginia professional engineer. Dr. Degen's Ph.D. research was in onsite wastewater disposal systems, specifically looking at the effect of several variables on the in-ground denitrification rate. Dr. Degen's career has involved consulting and teaching at the community college level, but has primarily been with state government. She started her regulatory career with the water permit program at DEQ, moved to wastewater engineering both at VDH and DEQ as both a district engineer and team lead. Dr. Degen is currently with VDH as Technical Services Administrator in the Division of Onsite Sewage and Water.

**Full Name:** John R. Diehl

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**Biosketch (one paragraph):** B.S. Geology, Juniata College, M.S. Geology, West Virginia University.

Employed as geologist for engineering firm for 3 years. Employed as geophysicist in petroleum industry for 11 years. Employed at PaDEP as geologist in Safe Drinking Water Program and currently Chief, Sewage Management Program for 24 years.

**Full Name:** Scott Eichholz

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**Biosketch (one paragraph)** Scott has a B.S. from Wilmington University, and a M.S. in Environmental Sciences from Wesley College. He is currently employed as an Environmental Scientist for DNREC's Groundwater Discharges Section. He has been with DNREC for the last 9 years, and is responsible for providing technical guidance, permit design reviews, and compliance oversight of Delaware's on-site wastewater treatment and disposal systems. His work with the Innovate/Alternative On-site Systems Program includes assisting with product approvals and permitting issues. He also remains involved in the Chesapeake Bay Watershed implementation planning as related to Delaware.

**Full Name:** Robert Goo

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**Biosketch (one paragraph):** Robert Goo currently works for the Office of Wetlands, Oceans and Watersheds in the Office of Water at EPA HQ in Washington, D.C. One area of concentration is sustainable decentralized stormwater and wastewater treatment systems. He has worked at EPA since 1988 on a variety of issues including biosolids, centralized waste treaters, multi-media transfer of waste, low impact development approaches and practices, onsite wastewater treatment systems and management programs to promote the adoption of decentralized and integrated approaches to water management (stormwater, wastewater and drinking water).

**Full Name:** John Hayes

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**Biosketch (one paragraph):** Jack Hayes is a certified professional soil scientist with over twenty years of experience in the on-site industry reviewing and classifying soils and soil evaluations for the proper siting of on-site wastewater treatment and disposal systems. He has led the rewriting efforts of the Regulations Governing the Design, Installation and Operation of On-site Wastewater Treatment and Disposal Systems.

**Full Name:** Sara Heger

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**Biosketch (one paragraph):** Dr. Sara Heger is an engineer, researcher and instructor in the Onsite Sewage Treatment Program in the Water Resources Center at the University of Minnesota. Since 1999, she has been providing education and technical assistance to homeowners, small communities, onsite professionals and local units of government regarding onsite wastewater treatment. Sara coordinates the research program at the UMN and is currently, serving as the principle investigator on grants to create online owner's guides and evaluate rest stops served by septic systems. She presents at many local and national training events regarding the design, installation and management of septic systems and related research. Sara is Education Chair of the Minnesota Onsite Wastewater Association (MOWA) and the National Onsite Wastewater Recycling Association (NOWRA). Sara serves on the NSF International Committee on Wastewater Treatment Systems. She is also the chair of the Minnesota State Advisory Committee on Decentralized Systems. She has BS in Biosystems & Agricultural Engineering and a PhD in Water Resource Science.

**Full Name:** Lawrence D. Hepner Jr.

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**Biosketch (one paragraph):** Mr. Hepner is retired as a professor in the Agronomy & Environmental Science Department at Delaware Valley University where he taught and did research for the past 34 years. He holds a BS Degree in Agronomy from Delaware Valley College, and an MS degree in Agronomy from Penn State University. He is a Certified Prof. Soil Scientist under ARCPACS. He taught courses in Soils, Watershed Management, Soil Fertility, and Sustainability. In addition he has served as General Manager of Farm Operations for the College's crop and livestock operations on approximately 600 acres. His research involved land application of wastes both urban and agricultural. He was project director

investigating six alternative wastewater systems for Pennsylvania. He and his wife Diane currently operate a bed and breakfast on their 45 acre farm in the Western Catskills of New York.

**Full Name:** David Lindbo

**Preferred First Name:** Dave

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**Biosketch (one paragraph):** Dave is the Director of the Soil Science Division, USDA-NRCS. He is responsible for guiding soil survey, soil interpretations, ecological site description, standards and soil research within the division in support of the agency. Prior to joining USDA-NRCS he was a professor at NC State University researching soil formation and land use relations, onsite waste water system siting and performance, and training of soils and onsite professionals. He has served as a member of the Innovative and Experimental Committee for the NC DHSS Onsite Water Protection Branch. He has also been a cooperator and member of the Consortium of Institutes for Decentralized Wastewater Treatment.

**Full Name:** Kathryn Lowe

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**Biosketch (one paragraph):** Kathryn is a Senior Research Associate at the Colorado School of Mines with over 30 years experience leading field investigations concerning environmental remediation and natural systems for wastewater reclamation. Kathryn received her M.S. in Environmental Engineering from the University of Colorado, Boulder. At CSM she is the Manager of the Mines Park Test Site and several field demonstrations to evaluate onsite wastewater treatment and environmental restoration technologies. Prior to CSM, Kathryn was a Research Scientist and Project Manager for Oak Ridge National Laboratory focusing on applied research of in situ treatment of hazardous waste contaminated soil and ground water and environmental assessment of fate and transport of organic contaminants in the vadose and saturated zones.

**Full Name:** Jay Prager

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**Biosketch (one paragraph):** Currently the Deputy Program Manager for MDE's Wastewater Permits Program responsible for discharges to surface and ground water. The Program includes MDE's regional

consultants who provide technical assistance and oversight to local approving authorities for on-site water and wastewater systems. Previously at MDE I served as Chief of the On-site Systems Division, a regional consultant, and section head and project manager for the Innovative and Alternative On-site Sewage Disposal Program. Currently serves on the State Board of Environmental Health Specialists.

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**Full Name:** Victor D'Amato

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**Biosketch (one paragraph):** Victor D'Amato is a registered professional engineer with over 20 years of water quality engineering, wastewater process design, and applied environmental research experience. He holds a BS in Civil Engineering from Penn State and an MS in Water Resources Engineering from the University of North Carolina at Chapel Hill. He has been involved in decentralized and distributed wastewater for most of his professional career, beginning with his tenure as an engineer with North Carolina's On-Site Wastewater Section. With Tetra Tech for the past six years, his focus is on helping governments, communities, builders, and utilities plan and implement sustainable water management strategies that decrease capital and recurring costs, increase energy efficiency, and effectively address emerging challenges.

**Full Name:** Ning Zhou

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**Biosketch (one paragraph):** Ning Zhou is the coordinator for the Chesapeake Bay Program Wastewater Workgroup and manages the CBPO wastewater data. He has been employed with Virginia Tech and worked at the CBPO since 1998. He has been involved with the development of the Chesapeake Bay TMDL and the jurisdiction watershed implementation plans as related to wastewater, combined sewer overflow and onsite treatment system. He develops the wastewater input decks to feed the Bay models for the watershed implementation progress tracking and various management scenarios.