

At-Large Membership Nominees

DAR has received 14 nominations but can only accept up to 8 at-large members.

*Please review all nominees and their bios. If you have any preferences among these nominees, please share them with Gabriel Duran (gduran@chesapeakebay.net) and Kaylyn Gootman via email (gootman.kaylyn@epa.gov) by **Thursday October 1st, 2026**. DAR Leadership's goal is to have a well-rounded membership of both tidal and non-tidal representation.*

Anthony (Tony) Buda, USDA-ARS

Anthony (Tony) Buda is a Research Hydrologist with USDA's Agricultural Research Service (ARS) in University Park, Pennsylvania. Tony's research examines the role of hydrological processes in nutrient fate and transport in agricultural watersheds. Tony is a Co-Director of USDA's Northeast Climate Hub, and he also represents ARS as a federal member on the Chesapeake Bay Program's Scientific and Technical Advisory Committee (STAC). Tony holds a B.S. in Environmental Science from Susquehanna University (1998), an M.S. in Forest Resources and Watershed Stewardship from Penn State University (2000), and a Ph.D. in Forest Hydrology from Penn State University (2007).

Jeff Chanat, USGS

Jeff Chanat is a Research Hydrologist at the USGS Virginia/West Virginia Water Science Center, where he has worked since 2010. His passion is using quantitative frameworks to understand environmental processes, and he brings a wide range of technical and analytical experience to every endeavor he undertakes. Recent work has focused on advancing understanding of factors affecting water-quality trends across the Chesapeake Bay watershed. This includes expertise with the WRTDS model – the tool used by the Bay Program to estimate non-tidal water-quality trends – as well as original research linking those trends to changes in land use and climatic forcing.

Jeff has a bachelor's degree in Electrical Engineering from Virginia Tech, a master's in Watershed Science from Colorado State University, and a Ph.D. in Environmental Sciences from the University of Virginia. Previous positions include chair of the steering committee for a volunteer biomonitoring program in the Baltimore area, water resources analyst for Tampa Bay Water, adjunct faculty at Virginia Commonwealth University, and groundwater permitting analyst and TMDL developer at Virginia DEQ. Jeff is comfortable with public speaking and has a talent for communicating complex topics to both technical and lay audiences.

Outside of work, Jeff enjoys walking, birding, and fishing in forested streams. He regularly takes outings to West Virginia with his wife and their 18-year-old son.

Liz Chudoba, Alliance for the Chesapeake Bay-CMC

Liz Chudoba is the Water Quality Monitoring Initiative Director for the Alliance for the Chesapeake Bay. She graduated from the University of North Carolina Wilmington with a MS in Marine Science and Vermont Law School with a Masters of Environmental Law and Policy. Liz has 10 years of experience in volunteer or community-based water quality monitoring. Currently, within the Alliance she oversees the Chesapeake Monitoring Cooperative, an initiative to integrate community science data into the Chesapeake Bay Program partnership, and other water quality monitoring projects. Additionally, Liz has been actively involved in past Chesapeake Bay Program workgroups, specifically STAR and the DIWG.

Jon Duncan, Penn State

Jon Duncan is an Associate Professor of Hydrology at Penn State University in the Department of Ecosystem Science and Management. His group explores the interactions among water, ecology, geomorphology, and people. They seek to advance process-level understanding of streamflow generation and water quality genesis at watershed scales by combining geospatial analyses, environmental sensors, and spatially explicit models. He is also the Director of the USGS funded Pennsylvania Water Resources Research Center and currently serves on the Board of Directors for the Consortium of Universities for the Advancement of Hydrologic Science, Inc (CUAHSI). Jon earned his BS in Biology from SUNY Geneseo where he conducted research on limnology. He received a MS in Environmental and Forest Engineering from SUNY Environmental Science & Forestry and a concurrent Masters of Public Administration from the Maxwell School at Syracuse University with a focus in Environmental Policy. He worked at CUAHSI for several years before returning to graduate school to earn his PhD at the University of North Carolina at Chapel Hill where he studied watershed hydrology and biogeochemistry.

Carly Maas, USGS

I am a hydrologist at the USGS with the Virginia-West Virginia Water Science Center in Richmond, Virginia. Since joining the USGS in 2023, I have led interdisciplinary research focused on understanding the drivers and sources of harmful algal blooms in Lake Anna and the Shenandoah River and contributed to a project that investigated the effects of natural gas pipeline construction on mountain streams. I now serve as the lead for the nontidal network load and trend communication for the USGS. I look forward to engaging with the workgroups and supporting the collaborative work within the Chesapeake Bay Program.

Becky Monahan, MDE

As a Natural Resources Planner IV with the Maryland Department of the Environment (MDE), I lead the development and submission of Maryland's Integrated Report of Surface Water Quality (IR). In this role, I oversee the synthesis, analysis, and interpretation of statewide tidal and non tidal water quality monitoring data to assess compliance with water quality standards. My daily work centers on translating multisource environmental datasets into actionable scientific insights, supporting transparent public reporting, and guiding management decisions across Maryland's watersheds. As an at-large member, I would bring direct state level regulatory experience, a deep understanding of Chesapeake Bay monitoring frameworks, and a strong commitment to cross agency collaboration to advance the workgroup's clean water goals.

Rebecca Murphy, UMCES-CBPO

Dr. Murphy has been a research scientist with the University of Maryland Center for Environmental Sciences at the Chesapeake Bay Program office for 12 years. Over that time she worked extensively with the former ITAT team developing the tidal trend methodology that is used by MD, VA, DC, and CBP to produce bay-wide tidal trends. She coordinates with those teams to help produce annual tidal trends updates and has worked with collaborative state, USGS, and academic teams on multiple research studies explaining tidal water quality trends and linking them to the watershed nutrient and sediment loads. Currently she is on the team developing a new statistical interpolator for use in water quality criteria assessment. She obtained her doctoral degree in Environmental Engineering from Johns Hopkins University and masters and bachelors degrees from Cornell University in Agricultural and Biological Engineering.

Dave Parrish, VIMS

[David Parrish](#) has been a team member of the [Chesapeake Bay National Estuarine Research Reserve in Virginia](#) (CBNERR-VA) and [Virginia Institute of Marine Science](#) for 19 years and currently serves as the CBNERR-VA Associate Director and Research Coordinator. Mr. Parrish is a lead for the sensor-based water quality monitoring program conducted by CBNERR-VA throughout the tidal waters of the Chesapeake Bay in Virginia. His research focuses on the assessment of water quality conditions and associated ecological implications in shallow estuarine and coastal environments. As part of this scope, he is interested in the spatial and statistical analysis of water quality monitoring datasets, integration of remote sensing datasets, and working closely with state, federal, and local partners to support management decisions. He also has experience developing and managing [web application platforms that serve as an interface between science and the community](#), namely the [Virginia Estuarine and Coastal Observing System \(VECOS\)](#) and the [Chesapeake Monitoring Cooperative Data Explorer](#).

Jamie Shallenberger, SRBC

Jamie is the manager for the Monitoring & Protection Program at SRBC in Harrisburg, PA where he's worked since 2014. Jamie's main duties are to oversee and integrate the 15-person Monitoring & Protection staff within the Susquehanna River Basin Commission's broader framework and to ensure that the environmental technicians, aquatic biologists, and other scientists have the tools to accomplish our mission on behalf of the human and natural communities that rely on the Susquehanna River Basin's water resources. SRBC's Monitoring & Protection Program operates and maintains a real-time network of more than 70 continuous instream monitoring stations, conducts water resource monitoring, assessment, and research on topics including aquatic invasive species, harmful algal blooms, migratory fish, road salt effects, stormwater management, abandoned mine lands remediation, USEPA Section 303 assessments, and more. SRBC staff are responsible for sample collection at 29 of the Chesapeake Bay Program's nontidal network (NTN) stations throughout the Susquehanna River Basin. SRBC staff also coordinate and manage annual NTN data uploads through DUET and into CEDR. For many years, SRBC scientists also have processed Susquehanna River Basin NTN data sets according to CBP's loads and trends analytical models and estimated pollutant load reductions using Chesapeake Assessment Scenario Tool (CAST). Jamie is a long-time participant in CBP workgroups including NTN, Water Quality GIT, Data Integrity, Loads & Trends, and has participated in various STAC groups, most recently Abandoned Mine Drainage. In addition to CBP Non-Tidal Network monitoring and data management activities, Jamie is chair-person of the Chesapeake Bay Watershed Region Freshwater Mussel Partnership. He earned degrees in Geological Science (B.S.) from Penn State University (1993) and in Environmental and Forest Biology (M.S.) from the State University of New York – College of Environmental Science & Forestry (2001). Jamie began his professional career in the early 1990s as a consulting geologist/hydrogeologist working on the investigation and clean-up of soil and water pollution. Later, his consulting focus shifted toward ecological risk assessment, wetland & stream restoration, and water quantity management. The goals stated for DAR (e.g., coalesce diverse assemblage of people/skills, foster collaboration, uncover and link ideas/disciplines, and provide a framework to bring scientific findings/insights to broader stakeholder audiences) align with Jamie's everyday approach to applied science and water resource management.

Jenna Schueler, CBF

Jenna Schueler is the Science and Agricultural Policy Advisor at the Chesapeake Bay Foundation. Through her work at CBF she has had the opportunity to work on analyzing watershed-wide data indicators, including RIM station Nitrogen and Phosphorus, submerged aquatic vegetation, and dissolved oxygen data for CBF's State of the Bay report. She used science-based expertise to develop position papers, comment letters, and education materials on water quality, climate, and soil health. In addition, she has worked on the team developing CBF's organization wide Data Strategy, to create a clear and consistent vision across CBF for data stewardship. Prior to working at CBF, she attended the University of Maryland, College Park, where she received her Bachelors in Mechanical Engineering and a Masters of Science in Environmental Sciences.

Helen Smith, Devereux Consulting

My background is in environmental science, GIS, and data analysis, with experience working with environmental datasets to support watershed planning and science. I have a BA in Environmental Studies from the University of Maryland, Baltimore County, and an MS in GIS and Spatial Analysis from West Virginia University. In my current work with Devereux Consulting, I contribute to dataset development, analysis, and modeling efforts that support water quality planning and decision-making. This includes working with land use and conservation practice datasets, and effectively communicating those findings to a variety of audiences. Through these experiences, I have developed a strong interest in using data and geospatial analysis to translate complex environmental information into meaningful insights that can support management decisions. I would be particularly interested in bringing a GIS and data analysis perspective to the workgroup while learning from collaborating with researchers, scientists, and practitioners across the Chesapeake Bay Program partnership.

Breck Sullivan, USGS-CBPO

Breck works for the USGS at the Chesapeake Bay Program office as an Ecosystem Analyst. Prior to the reorganization of workgroups, she was coordinator for the Scientific, Technical Assessment and Reporting (STAR), as well as co-coordinator for ITAT. She has been overseeing strategic direction for meeting the science needs within STAR and the CBP Goal Implementation Teams. She also supports analysis activities to advance understanding of factors affecting trends in estuarine water quality and living resources. She holds a bachelor's degree in Environmental Studies from Salisbury University. She received her master's degree from State University of New York College of Environmental Science and Forestry (SUNY ESF) in Environmental Monitoring and Modeling. I'm nominating Breck as a member for the new DAR workgroup because her background knowledge will be critical as DAR tries to build on previous work to address evolving challenges; her current role managing tidal water quality trends products including the tributary summaries is integral to the charge of DAR; and her unique skills bringing together diverse experts to address scientific challenges in the Chesapeake Bay is key to the goals of the team.

Shannon Thomas, Chesapeake Conservancy

Shannon Thomas is a project manager with Chesapeake Conservancy's Chesapeake Tributaries Initiative. She holds a Bachelor of Science degree in Environmental Science from Washington College. Shannon leads the Conservancy's stream monitoring efforts to advance the stream delisting program - an effort of 80+ organizations across 16 Pennsylvania counties to restore streams toward delisting from the Integrated Water Quality Report, per section 303(d) of the Clean Water Act. This includes prioritizing site locations, securing landowner permissions, and understanding and abiding by Pennsylvania Department of Environmental Protection (PA DEP) protocols. She also has a strong working relationship with Tier 3 trained and certified partners, organizations, and individuals within the water quality monitoring field. In the past five years she has coordinated training events, data collection, and data submission for in-stream monitoring purposes. Training events include three Physical Habitat Assessment trainings, one training for a novel vegetation survey, and most recently, a training on macroinvertebrate collection. Following this most recent training, Shannon has taken steps toward completing an audit with PA DEP for in-stream data collection and plans to follow through with this process by spring of 2027. The audit would cover the macroinvertebrate collection protocols, completion of Physical Habitat Assessment, and calibration and completion of field meter data collection. Given her coordination of in-stream monitoring over the past five years, Shannon has a strong understanding of PA DEP protocols laid out in the Water Quality Monitoring and Assessment Methodology books for Streams and Rivers.

Qian Zhang, UMCES-CBPO

Dr. Qian Zhang is an Associate Research Scientist with the University of Maryland Center for Environmental Science (UMCES) and a Monitoring Data Analyst supporting the U.S. EPA Chesapeake Bay Program (CBP). Over the past 10 years at UMCES and CBP, his work has focused on the analysis, interpretation, and communication of water-quality status and long-term trends across the Chesapeake Bay and its watershed, and on understanding the natural and anthropogenic drivers of observed changes. His research spans both non-tidal watershed and tidal Bay waters, with particular expertise in nutrient and sediment conditions, loads, trends, and their connections along the land–river–estuary continuum. Dr. Zhang has extensive experience integrating long-term water-quality monitoring data with watershed, hydrologic, modeling, and other environmental datasets to assess changing conditions and identify factors contributing to observed changes. He applies statistical and machine-learning approaches, including WRTDS-based load and trend analyses, and develops approaches to integrate, analyze, visualize, and communicate complex environmental data. Through his work with the CBP, he collaborates with scientists, analysts, and managers across partner organizations to translate monitoring and analytical results into management-relevant insights that support water-quality assessment, restoration evaluation, and science-based decision-making.