

### Current STAC Member Expertise September 1, 2023

Expertise		STAC Member	Expertise Description
Agriculture		Craig Beyrouy	Soil chemistry, soil science, soil conservation
		Christopher Brosch	Soil nutrient and water quality science, nutrient management programs
		R. John Dawes	Technical software development; product management; program strategy
		Leon Tillman	Soil conservation, resource planning and management
Economics		Scott Knoche	Environmental and Natural Resource Economics
		Leonard Shabman	Environmental economics
		Catherine Kling (Cathy)	Valuation of ecosystem services and environmental policy design
Environmental Data Analysis		Michael Runge	Baysian and frequentist expertise; decision science; environmental policy decisions
		David Martin	Decision scientist with economic, social, and behavioral research
Estuarine	Living Resources	Matt Baker	Contaminant fate and transport; climate change; carbon dynamics; terrain analysis; hydrography; forest patch mapping/attribution
		Bill Dennison	Marine biology
		Jeni Keisman	Empirical research, model development, and multidisciplinary integration
		Mark Monaco	Estuarine ecology and habitat mapping
		Efeturi Oghenekaro	Nutrient enrichment and pollution controls; Urban Pollution Control and Treatment.
		Joe Reustle	Community/population ecology; chemical ecology; parasite ecology; animal behavior; physical-biological coupling; data visualization
		Kenny Rose	Mathematical modeling of fisheries populations and food web dynamics
	Joe Wood	Water quality; nutrient dynamics; harmful algal blooms and eutrophication; policy	
	Physical/Biogeochemical	Celso Ferreira	Estuarine research; environmental justice; urban and wastewater treatment activities
		Larry Sanford	Estuarine hydrodynamic/biogeochemical/ecosystem modeling
Jeremy Testa		coastal marine ecology; eutrophication, nutrient cycling, DO dynamics	
Social Science		Lara Fowler	Environmental and natural resource law
		Ellen Gilinsky	Policy and technical issues in water quality programs
		Christine Kirchhoff	Climate change adaptation; human dimensions of resilience; actionable knowledge production; water governance
		Ellen Kohl	Human geographer - environmental justice, environmental governance, and intersectionality
		Yusuke Kuwayama	Cost-benefit analysis; modeling environmental decision-making; modeling integrated socio-environmental systems; nonmarket valuation
		Theo Lim	Contaminant fate and transport; urban hydrological modeling; systems modeling and data science
		Leah Palm-Forster	Ecosystem management/marine ecology
Valerie Were	Social and behavioral science; climate change; runoff		
Urban/WWTPs		Charles Bott	Shortcut nitrogen removal; processes for biological treatment intensification; technologies for potable reuse
		Shirley Clark	Impact of stormwater runoff on the physical, chemical and biological quality of surface water bodies
		KC Filippino	Stormwater; land use planning; wastewater; local government influences
		Kathy DeBusk Gee	Mitigating impact of urban and suburban stormwater runoff
		Hamid Karimi	Environmental policy/stream and wetland restoration/WWTPs
		Erin Letavic	Stormwater quality, grant funding, and public outreach
		Jay Stauffer	Environmental/wastewater engineering, fate and transport of emerging contaminants in natural and engineered systems
		Weixing Zhu	Ecosystem ecology/urban ecosystems/restoration ecology/invasive plants
Watershed	Hydro/Aquatic	Kathleen Boomer	Ground- and surface-water monitoring/watershed modeling/wetland function
		Ben Hayes	Hyporheic exchange processes and factors controlling water temperature
		Andrew Miller	Urban hydrology/fluvial geomorphology
		Tess Wynn Thompson	Stream/wetland restoration
	Wetlands/Terrestrial	Anthony Buda	effects of agricultural management, landscape factors and soil characteristics on nutrient fate and transport
		Kirk Havens	Wetlands ecology/natural resource law and policy
		Jason Hubbard	Hydrology, watershed management, water quality, biogeochemistry, watershed modeling, climate, land use
		Greg Noe	Effects of sea-level rise and flooding on tidal wetland morphology and ecology
		Denice Wardrop	Freshwater wetlands ecology