

Current STAC Member Expertise March 2024

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	
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	
Social Science		Ellen Gilinsky	Policy and technical issues in water quality programs	
		Christine Kirchoff	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	
		Erin Letavic	Stormwater quality, grant funding, and public outreach	
		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	
		Amir Sharifi	TMDLs, water quality standards/modeling, bacterial source tracking, NPS pollution, hydrologic modeling, spatial analysis	
			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	