

Current STAC Member Expertise

Expertise		STAC Member	Expertise Description
Agriculture		Chris Brosch	soil nutrient and water quality science; nutrient management programs
		Anthony Buda	effects of agricultural management, landscape factors and soil characteristics on nutrient fate and transport
Data Analysis		John Dawes	technical software development; product management; program strategy
Estuarine	Living Resources	Elliott Campbell	biophysical/monetary quantification of ecosystem services; carbon accounting in forest/wetland systems; environmental markets; geospatial modelling
		Bill Dennison	marine ecology; seagrass ecophysiology; water quality; ecosystem health assessment; science communication
John Jacobs		ecological forecasting; applied microbiology; fish health/physiology	
Jeni Keisman		water quality and quantity; strategic science planning; research integration and synthesis; multi-disciplinary team leadership	
Brent Murry		aquatic food web dynamics; aquatic invasive species; rivers, wetlands, estuaries	
Joey Reustle		community/population ecology; chemical ecology; parasite ecology; animal behavior; physical-biological coupling; data visualization	
	Physical/Biogeochemical	Kenny Rose	fisheries; habitat assessment; modeling; population dynamics
		Sujay Kaushal	salinization and alkalization of fresh water; urban evolution; watershed restoration; applications of geochemical tracers to ecology
		Molly Mitchell	sea level rise; coastal ecology; coastal adaptation
		Robert Sabo	nitrogen and phosphorus cycles; nutrient pollution sources; AI/DL predictive modeling; effects of air pollution on aquatic, terrestrial ecosystems
		Larry Sanford	graduate education; sediment transport; turbulence; estuarine physics; waves; physical-biological interactions
		Joe Wood	water quality; nutrient dynamics; harmful algal blooms and eutrophication; policy
Social Science	Behavior/Policy	Kathy Bunting-Howarth	coastal management; marine policy; public engagement; social science methods; water resource management
		Christine Kirchoff	sustainability science; natural resources policy; civil engineering
Ellen Kohl		environmental justice; intersectional geographies; environmental governance; science-policy interface	
Theo Lim		environmental and climate justice, participatory action research, participatory planning, public engagement, sustainability planning, urban analytics	
Dave Martin		decision science with economic, social, and behavioral research	
Leah Palm-Forster		economic and behavioral drivers of farmer decision making; BMP and tech adoption; agri-environmental programs; coastal landscape adaptation	
	Economics	Mike Runge	decision analysis (normative); adaptive management; quantitative ecology; endangered species; waterfowl harvest management
		Val Were	social and behavioral science; climate change; runoff
		Scott Knoche	non-market valuation; social science survey research methods; regional economic impact; coupled social-ecological models; research co-production
		Yusuke Kuwayama	water quality valuation; managed aquifer recharge; connected groundwater-surface water systems; societal value of scientific information
Urban/WWTPs		Charles Bott	shortcut nitrogen removal; processes for biological treatment intensification; technologies for potable reuse
		Shirley Clark	urban hydrology; urban runoff quality; BMP performance; climate change on urban hydrology; urban infrastructure design
		KC Filippino	water quality; stormwater; nutrient cycling; harmful algae blooms; local government coordination
		Erin Letavic	agricultural stormwater; municipal engineering; fundraising; public outreach; building teams
		Efeturi Oghenekaro	nutrient enrichment and pollution controls; urban pollution control and treatment.
		Kevin Orner	wastewater treatment; organic waste management; resource recovery; sustainable development; LCA/LCCA; AI/ML
Watershed	Hydro/Aquatic	Matt Baker	landscape ecology; riparian buffers; stream ecology; hydrogeomorphology; forest ecology; restoration; applied GIS/RS; quantitative analysis/modeling
		Ben Hayes	fluvial geomorphology; hydrology; stream restoration
	Wetlands/Terrestrial	Greg Noe	ecosystem ecology; biogeochemistry; soils; hydrogeomorphology; wetlands, streams, rivers, estuaries
		Weixing Zhu	ecosystem ecology; biogeochemistry; nitrogen and phosphorus flow; carbon pools/fluxes; forests, wetlands, streams