Marianne Guerin

Marianne's educational background is in Math, with a Bachelor's degree from Humboldt State University, and Master's and Ph.D. from the University of Maryland (College Park).

As a joint US/Australian citizen, she worked for the Australian government at the Australian Nuclear Science and Technology Organization (ANSTO). At ANSTO, she developed a multi-component reactive transport model by combining the popular transport code MT3D with a geochemical reaction code. As a Senior Scientist at ANSTO, she worked on joint projects with Chemists, Biologists and Engineers, working on modeling applications for the mining industry (uranium is mined in Australia). She transitioned into modeling unsaturated flow and the environmental chemistry of soils once back in the US., working at LBNL and at the Savannah River Ecology Lab at the University of Georgia.

Her work in the Sacramento – San Joaquin River Delta began at the Contra Costa Water District , focusing on DSM2 modeling and the analysis of delta smelt data before she settled into her current position as a Senior Water Resources Specialist with Resource Management Associates (RMA). Marianne has been utilizing both RMA and DSM2 models to assess a variety of water quality and fishery issues facing the Delta. Most of her recent work focuses on nutrient modeling and turbidity forecasting modeling, working closely with Paul Hutton from MWD.

She is currently the Convener for CWEMF.