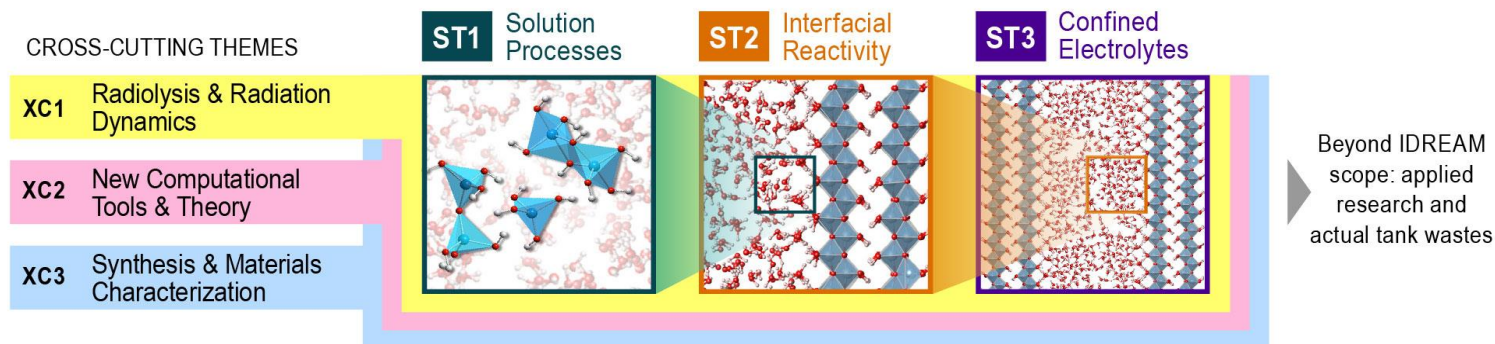


Interfacial Dynamics in Radioactive Environments and Materials (IDREAM)

Sue Clark (PNNL); Class: 2016-2024

MISSION: To master interfacial chemistry in complex environments characterized by extremes in alkalinity and low-water activity, where molecular phenomena are driven far from equilibrium by ionizing radiation.



<https://www.pnnl.gov/projects/interfacial-dynamics-radioactive-environments-and-materials>

RESEARCH PLAN

IDREAM is revealing the chemical driving forces for ion behavior in alkaline electrolytes at interfaces exposed to ionizing radiation. Experimental and computational studies are integrated to discover the roles of ion networks and long-range solvent structure in solution and interfacial reactivity.