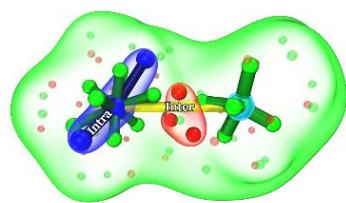


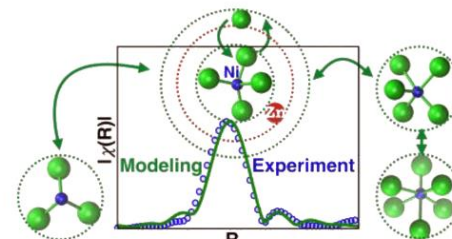
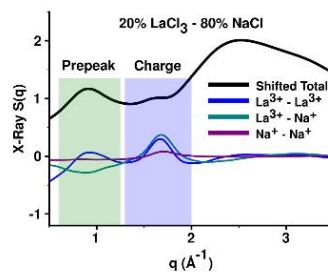
Molten Salts in Extreme Environments (MSEE)

James Wishart (Brookhaven National Laboratory); Class: 2018-2026

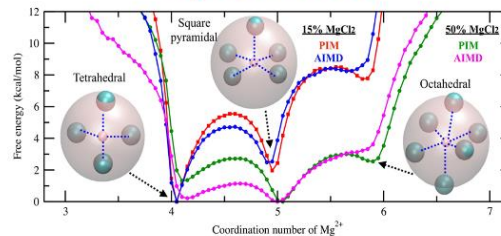
MISSION: To provide fundamental and predictive understanding of molten salt bulk and interfacial chemistry that will establish robust principles to guide the technologies needed to deploy molten salt nuclear reactors.



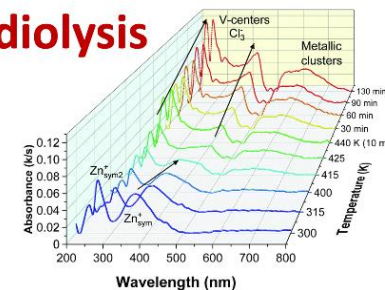
Structure



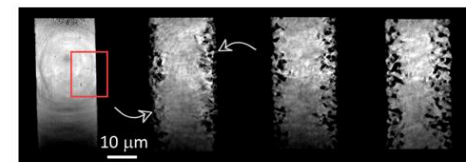
Speciation



Radiolysis



Corrosion



<https://www.bnl.gov/moltsalts>

RESEARCH PLAN

MSEE combines cutting-edge experimental capabilities for high-temperature research with a unified computational effort performing molten salt simulations to examine the atomic basis of molten salt behavior and provide a predictive description of molten salt chemistry under the coupled extremes of high temperature and ionizing radiation.