

**Department of Energy, Office of Science
FY 2016 Energy Frontier Research Center (EFRC) Awards**

Lead Institution	State	EFRC Name	EFRC Director	EFRC Objective
Florida State University	FL	Center for Actinide Science and Technology (CAST)	Thomas Albrecht-Schmitt	To (1) Develop first-principals, predictive electronic structure approaches to achieve the design, synthesis, and characterization of both new waste forms as well as new molecular systems for chemical selectivity during processing; and to (2) develop new synthetic methodologies and provide a detailed understanding of electronic structure from both experimental and computational perspectives, of new separations schemes for treating tank waste.
The Ohio State University	OH	Center for Performance and Design of Nuclear Waste Forms and Containers (WastePD)	Gerald Frankel	To perform innovative studies of the waste form performance, develop fundamental understanding of the environmental degradation mechanisms, and design new and improved waste form and container materials.
University of South Carolina	SC	Center for Hierarchical Waste Form Materials (CHWM)	Hanno zur Loye	To integrate synthesis, modeling, and characterization to advance the science of nano-scale and complex materials that will lead to novel hierarchical systems for improved waste forms.
Pacific Northwest National Laboratory	WA	Interfacial Dynamics in Radioactive Environments and Materials (IDREAM)	Sue Clark	To master molecular-to-mesoscale chemical and physical phenomena at interfaces in complex environments characterized by extremes in alkalinity and low-water activity, and driven far from equilibrium by ionizing radiation.