

Center for Hierarchical Waste Form Materials (CHWM)

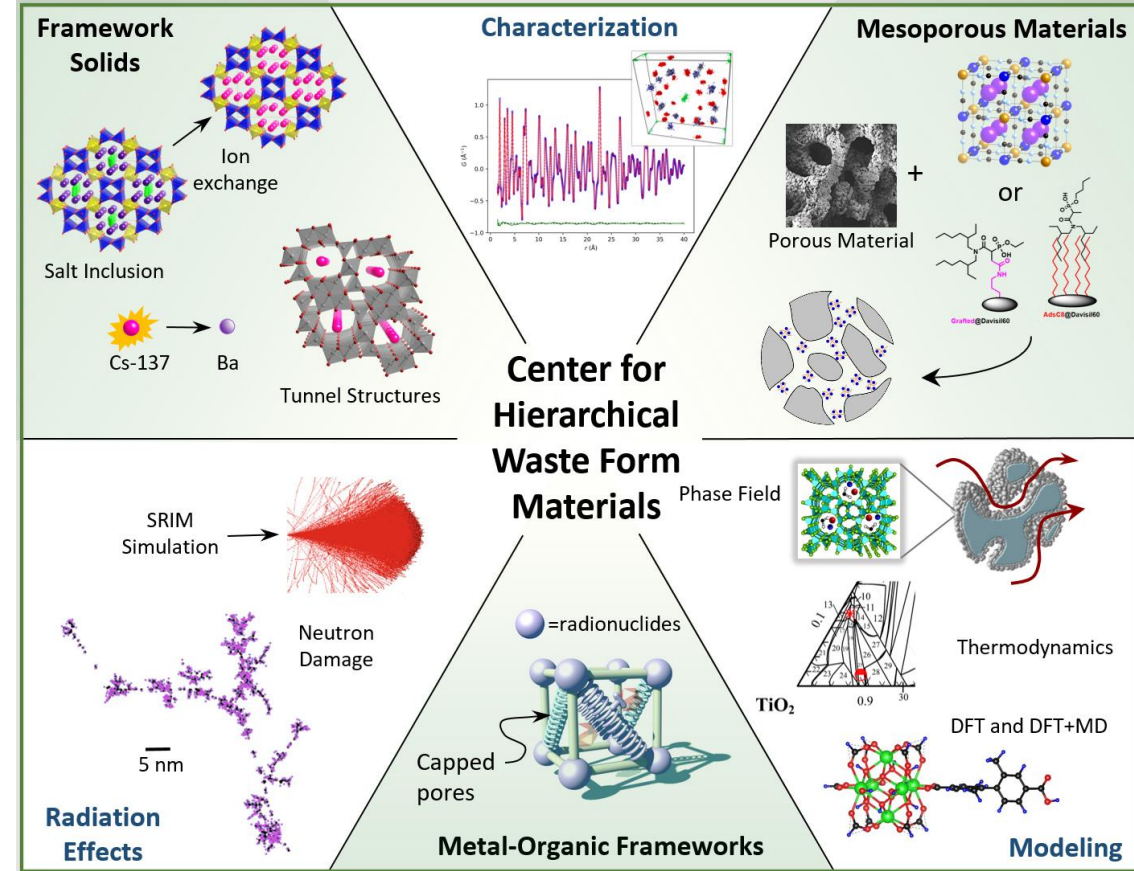
Hans-Conrad zur Loye (University of South Carolina); Class: 2016-2024

MISSION: To develop the chemical understanding and hierarchical structure motifs needed to create materials for effectively immobilizing nuclear waste species in persistent architectures.

<https://CHWM.sc.edu>

RESEARCH PLAN

The goal of CHWM is to develop the fundamental science from which advanced waste forms for extreme and dynamic conditions can emerge. This includes 1) the development, modeling, synthesis, and demonstration of the stability of radionuclide containing hierarchical materials; 2) the direct and indirect synthetic routes for element-specific structural motifs; and 3) ion transport in multi-scale porous and hierarchical materials.



U.S. DEPARTMENT OF
ENERGY

Office of
Science

UF UNIVERSITY of
FLORIDA



Pacific Northwest
NATIONAL LABORATORY



South Carolina

Savannah River
National Laboratory®

Alfred University



CLEMSON
UNIVERSITY

