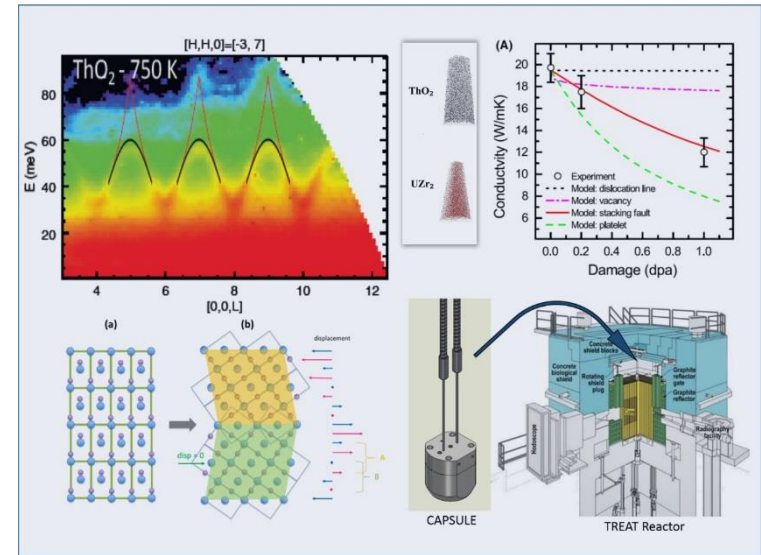


# Center for Thermal Energy Transport under Irradiation (TETI)

David Hurley (Idaho National Laboratory); Class: 2018-2022

**MISSION:** To provide the foundational work necessary to accurately model and ultimately control electron- and phonon-mediated thermal transport in 5f electron materials in extreme irradiation environments.

## Energy Carriers to Mesoscale Transport



<http://teti.inl.gov/>

## RESEARCH PLAN

Thermal energy transport under irradiation is directly related to reactor efficiency as well as reactor safety. The aim of TETI is to develop a first principles understanding of electron and phonon transport in advanced nuclear fuels that will provide the necessary tools to enhance thermal transport by tailoring defects and microstructure.



U.S. DEPARTMENT OF  
**ENERGY**

Office of  
Science



PURDUE  
UNIVERSITY



THE OHIO STATE  
UNIVERSITY

