

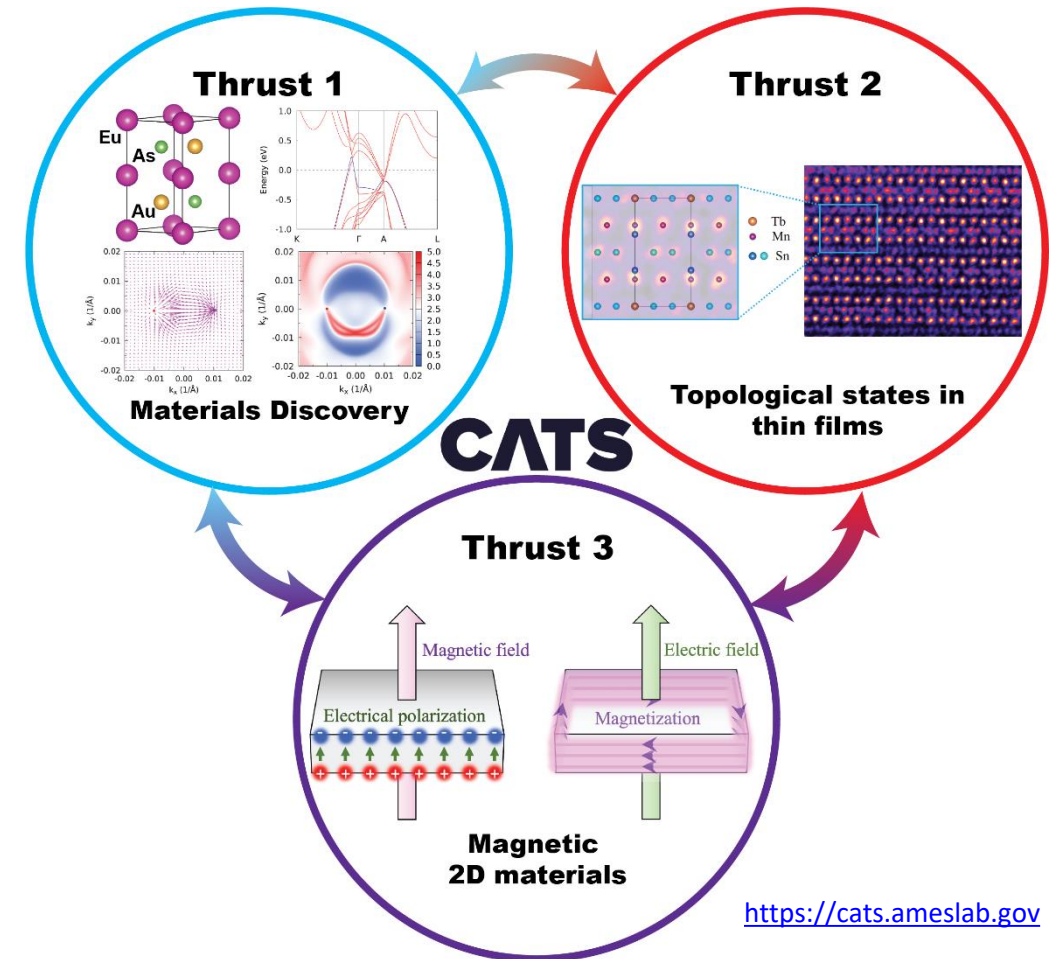
# Center for the Advancement of Topological Semimetals (CATS)

Robert McQueeney (Ames National Laboratory); Class: 2018-2026

**MISSION:** To transform how we discover, understand, and harness new topological states of matter.

## RESEARCH PLAN

CATS has three Research Thrusts: **(1) *Discovery and control of magnetic and correlated topological matter*** emphasizes the discovery of new magnetic topological materials; **(2) *Novel topological states in thin films*** recognizes the importance of developing films for delivery of controllable quantum transport in topological materials; and **(3) *Topological magnetism and magnetoelectricity in 2D materials*** focuses on emergent properties of highly tunable vdW assemblies.



BOSTON COLLEGE



HARVARD UNIVERSITY

UC SANTA BARBARA



Massachusetts Institute of Technology



CATS



U.S. DEPARTMENT OF ENERGY

Office of Science



UNIVERSITY OF ILLINOIS CHICAGO

UNIVERSITY OF WATERLOO