

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 tunable layered assemblies.

