

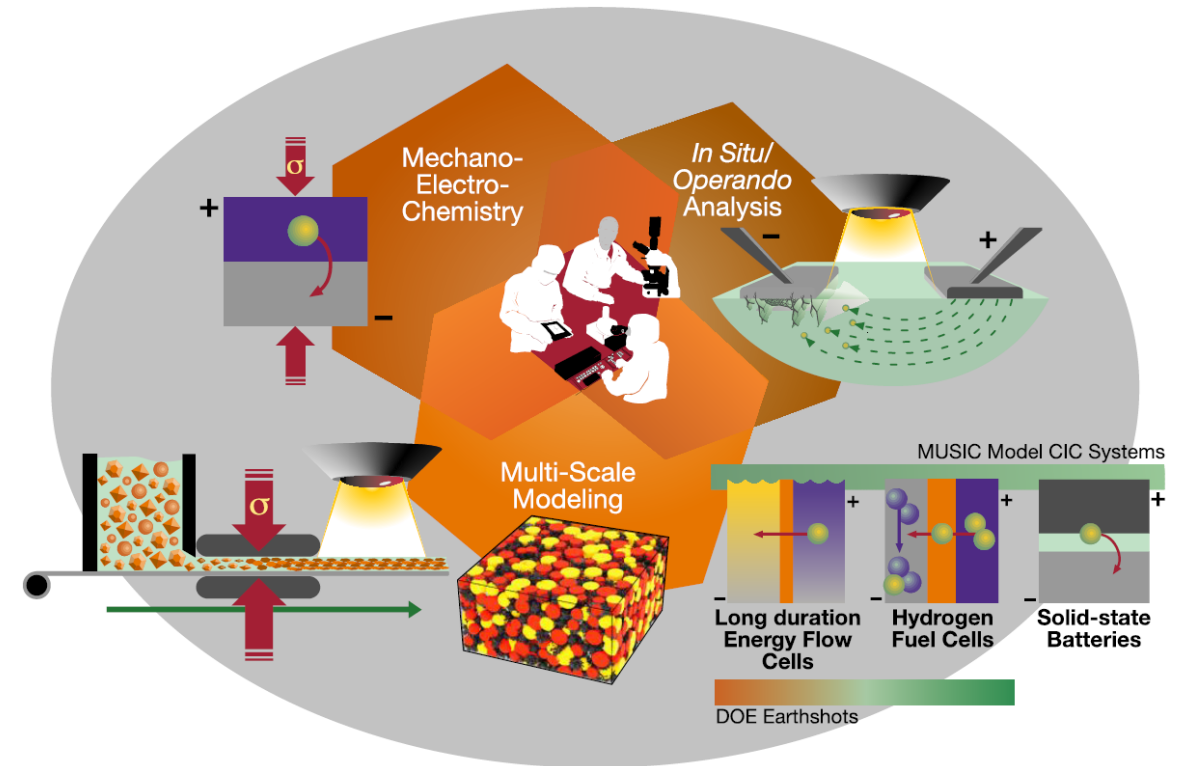
Mechano-Chemical Understanding of Solid Ion Conductors (MUSIC)

Jeff Sakamoto (University of Michigan); Class: 2022-2026

MISSION: To reveal, understand, model, and ultimately control the chemo-mechanical phenomena underlying the processing and electrochemical dynamics of ceramic ion conductors (CICs) for clean energy systems.

RESEARCH PLAN:

- **Thrust 1:** Revealing electrochemical-mechanical coupling at CIC interfaces and interphases
- **Thrust 2:** Understanding material degradation pathways in CIC-based electrochemical systems
- **Thrust 3:** Science of synthesis, processing, and manufacturing of CICs



<https://musicefrc.engin.umich.edu/>

