

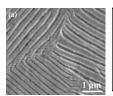


Marcus L. Young

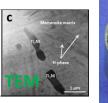
Department of Materials Science and Engineering

Assistant Professor and Associate Chair for the Undergraduate Degree Program Research Group: 1 Post-doc, 6 Ph.D. and 3 M.S. Students

Alloy, Porous & Composite Materials Development, Characterization, & Processing

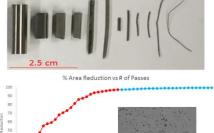










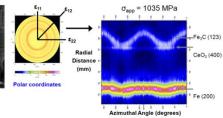


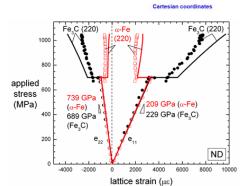
Expertise in Structural Metallic Alloys as well as Porous Metallic Materials and **Metal Composites**

Shape Memory Alloys and High Entropy Alloys

- Active projects in areas from vacuum arc-melting buttons and processing to plate, rod, wire, powders, and foams
- Advanced characterization
 - Synchrotron X-ray Diffraction and **Imaging**
 - Scanning Electron Microscopy / Focused Ion Beam with EDS and EBSD
 - Transmission Electron Microscopy
 - 3D Atom Probe Tomography

Neutron, Laboratory and Synchrotron X-ray Scattering





Characterization of Ancient and Modern Art and Archaeological Objects





