

BOISE STATE CENTER FOR MATERIALS CHARACTERIZATION (BSCMC)

X-RAY AND ELECTRON MICROSCOPY LABORATORY (XEML)

The Boise State Center for Materials Characterization serves Boise State University and the wider academic and industrial communities. We have the instrumental capabilities and operator expertise to characterize a wide variety of materials.

The analytical capabilities at the XEML help enable a broad range of research and development topics including alloy development, nuclear materials, semiconductors, thin films, optical fibers, flexible electronics, polymers, bio-medical, bacteriophages, food quality, mineralogy, and even the tectonic evolution of the Himalayas.

OUR CAPABILITIES

Structural

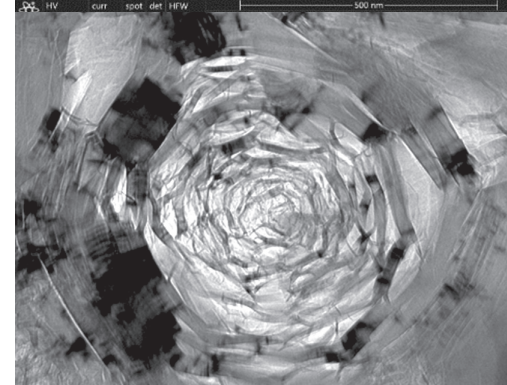
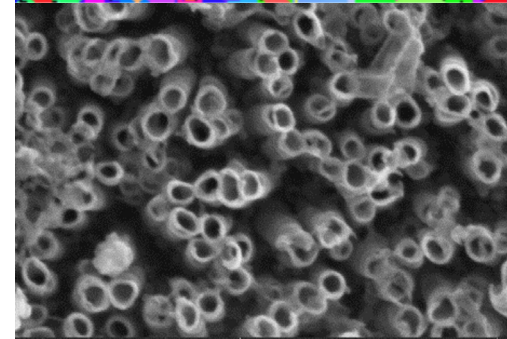
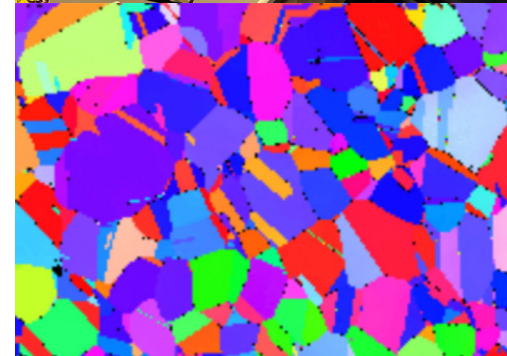
- X-ray Diffraction (XRD)
- Electron diffraction
- Electron backscatter diffraction (EBSD)

Chemical

- Energy dispersive x-ray spectroscopy (EDS)
- Electron microprobe analysis (EPMA)
- X-ray fluorescence (XRF)

Imaging

- Transmission electron microscopy (TEM)
- Scanning electron microscopy (SEM)
- Light microscopy



BOISE STATE UNIVERSITY



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