

Philips CM30 TEM

Techniques/Capabilities:

- 300-kV conventional TEM, LaB₆ cathode
- Post-column Gatan imaging filter (GIF) incorporating 1024² MSC CCD camera
- EELS (electron energy-loss spectroscopy)
- EFTEM (energy-filtered TEM)
- Rocking beam and conical illumination
- Twin lens ($\pm 60^\circ$ tilt), pre-CompuStage
- Image plates
- Specimen holders for rotation, cooling, heating, straining



Current Research Activities:

- EFTEM elemental mapping and TEM spectrum lines at ~1 nm resolution
- TEM of ferromagnetic or thick specimens
- In-situ straining experiments

Contact: Jim Bentley, bentleyj@ornl.gov, (865) 574-5067

