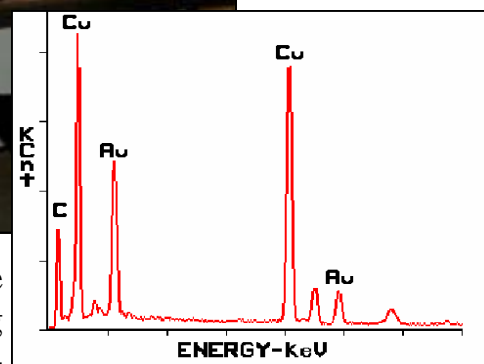
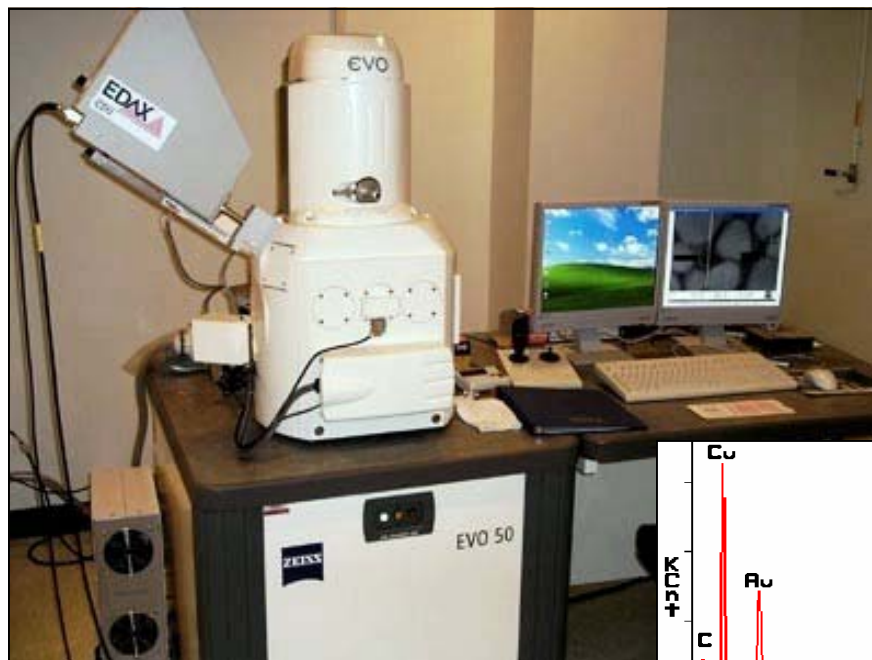


ZEISS EVO50® ESEM WITH EDAX GENESIS 2000 SYSTEM

Instrument Quick Stats

- Accommodates both conductive and non-conductive samples.
- Maximum specimen size 250mm.
- Electron accelerating voltages ranging from 0.2 to 30kV.
- Resolution down to 3nm.
- Equipped with both a secondary electron detector and a four quadrant backscattered electron detector.
- VP mode for analysis of non-conductive samples at pressures between 1 and 750Pa.
- XVP mode for analysis of wet samples in water vapor environment up to 3000Pa.
- Features an integrated EDS system.
- EDS system can detect all elements with atomic number greater than 5.
- Coolstage available for analysis of wet samples.



The Zeiss EVO50® is a research-grade analytical environmental scanning electron microscope (ESEM). The instrument has two extended variable pressure modes, VP and XVP, with pressures up to 3000Pa in the XVP mode. The atmosphere in the sample chamber can be either air or water vapor. The Zeiss EVO50 is particularly well-suited for use in the characterization of non-conductive and biological samples.

The Zeiss EVO50® is equipped with a Coolstage unit which cools the specimen to nearly 0°C to maintain an aqueous environment while keeping the vapor pressure of the water at a minimum. The Coolstage can also heat to 50°C for studies of low melting point materials.

An integrated EDAX Genesis 2000 energy dispersive spectroscopy (EDS) system can provide elemental analysis of samples (above right). The EDS system can detect all elements heavier than Boron.

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