

# ZEISS NEON 40EsB CROSS-BEAM FESEM

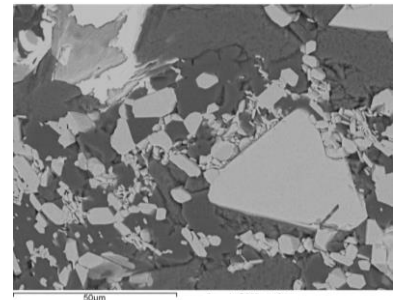
The Neon is a dual-beam Field Emission Scanning Electron Microscope (FESEM) that is also equipped with a liquid metal Ga<sup>+</sup> ion source and a variety of gas injectors. It is routinely utilised for its excellent high resolution imaging, even at very low kV. It is also capable of single area EDS and EBSD mapping.

## Application Examples

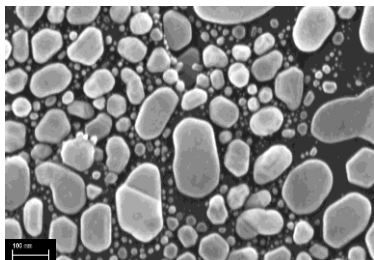
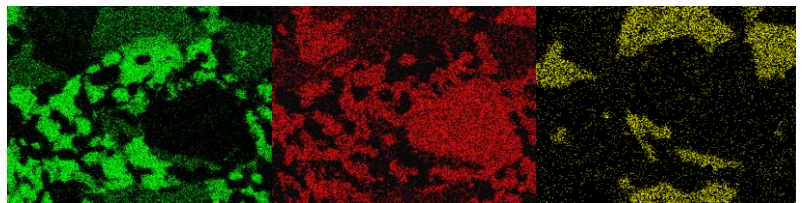
- High resolution imaging of delicate biological structures and organic materials
- EBSD mapping of terrestrial and lunar rocks to study their formation
- High resolution imaging of nanoparticles
- Identification and measurement of thin films in cross-sectional analyses
- Quantitative elemental analysis of carbon steels and other alloys

## Key Capabilities

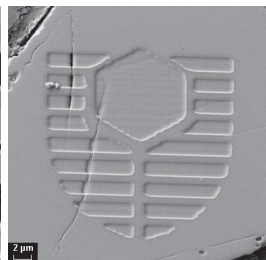
- High resolution imaging, from as low as 1kV
- Secondary Electron (SE), Backscattered Electron (BSE) and secondary in-lens imaging
- Energy Dispersive X-ray Spectroscopy (EDS) point analysis and elemental mapping
- Electron Backscatter Diffraction (EBSD) mapping



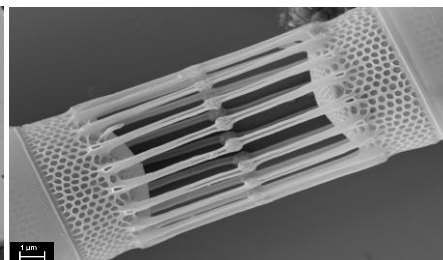
EDS maps showing Si (green) Fe (red) and Mg (yellow) in a shale sample (above)



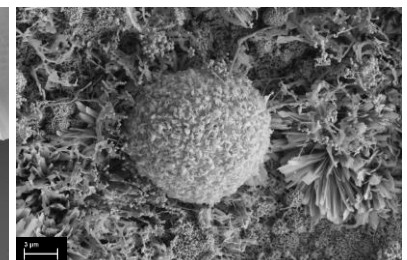
An in-lens SE image of sputtered gold particles



The Curtin University logo milled onto a quartz grain using the focused ion beam



An SE image of a marine diatom of the species skeletonema



Crystal growth in corrosion product

## For more information

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