The Centre for Microscopy and Microanalysis is a research facility dedicated to understanding the structure and composition of all natural and fabricated materials across different scales. Our challenge is to respond to present needs of researchers and industry for microstructural characterisation and to equip The University of Queensland with the latest technology to meet new horizons in analysis research.

We provide a comprehensive suite of analytical instrumentation, strongly motivated and experienced personnel and a high standard of training programs for our clients. CMM is also a partner to industry and offers consultation, testing services, access to instruments, contract research or long-term research collaborations.

CMM is a foundation member and the Queensland Node of Microscopy Australia (formerly AMMRF). As such we can offer our clients access to capabilities at the other NCRIS-funded Microscopy Australia nodes.

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Surface characterisation: Characterise all materials at various scales using next generation instrumentation.

Material science: Characterisation, identification and analysis.

Sustainable future: Design tools and analytical instrumentation.

Energy challenges: Characterisation techniques for solar, biofuels and geothermal.

Environmental science: Characterisation of geological materials and bio-solid interfaces.

Life science: Intracellular, subcellular, molecular and macromolecular characterisation, crystallography.

Molecular science: X-ray molecular & protein crystallography, imaging mass spectrometry, microscopy.

Microscopy: SEM & TEM.

Bulk characterisation: Powder diffraction, XRF, XPS, SAXS, Raman.

Element mapping: XRF, EDS, XPS, EELS, imaging mass spectrometry, EPMA.

Consulting: Research facilities operated by expert staff to ensure professional support and consultation.

Multimodal imaging: Correlative microscopy-observation & analysis.

For further information about our Knowledge Network, as well as our research and services, visit our website:

cmm.centre.uq.edu.au

Managing images

ACKNOWLEDGE CMM

Clients are requested to acknowledge CMM in all publications generated through the assistance of CMM staff and the use of CMM facilities. Please acknowledge CMM as follows:

“The authors acknowledge the facilities, the scientific and technical assistance, of the Microscopy Australia Research Facility at the Centre for Microscopy and Microanalysis, The University of Queensland.”

PRIZE FOR BEST PUBLICATION

Each year CMM will award two student bursaries of $750 each and one ECR bursary of $1000. These bursaries will go towards travel to a microscopy/microanalysis conference.

Publications must include the CMM/Microscopy Australia acknowledgment in order to be eligible for these bursaries.

For more information about the bursaries and how to apply, email cmm@uq.edu.au

IMAGE COLLECTION

CMM collects ‘high-res’ SEM or TEM images, raw or modified, as well as 3D models to share online. Please do not send the exact image that has been published or may be published, or a result that is confidential. We will acknowledge the person/research group doing the work, unless otherwise requested.

If you have an image (along with a short description of the image and/or project) that you would be willing to donate to CMM, please email cmm@uq.edu.au

The ‘image of the month’ receives a prepaid coffee card.

‘Syntegrity’

by Anthony Stafford Beer