



Mineral and Metal Characterisation workshop - MMC 2026
22-26 June 2026, UQ Long Pocket campus
Program

Monday 22 June 2026									
8:30	9:30		Registration, networking, exhibition						
9:30	10:00	Elkhorn room 206	Keynote 1: Welcome to Country followed by Science and technology of material characterisation for minerals and circular economy, Roger Wepf (NRICH-CMM)						
10:00	10:30		Keynote 2: Role of characterisation in geological exploration and mineral processing, Paulo Vasconcelos (School of Environment, online)						
10:30	11:00	Cycad	Morning Tea						
11:00	11:20		Invited talk 1	Introduction to NRICH instrumentation followed by SEM techniques, Andrew Kostryzhev (NRICH)					
11:20	11:40		Invited talk 2	X-ray techniques at NRICH, Jack van der Pal (NRICH)					
11:40	12:00	Elkhorn room 206	Invited talk 3	Mass spectroscopy at NRICH, Christian van Engers (NRICH)					
12:00	12:20		Invited talk 4	Automated mineralogy on Apreo SEM and Maps Min software, Justin Freeman (NRICH)					
12:20	12:40		Invited talk 5	Automated mineralogy on Hitachi SEM and Amics software, Chi Ly (Bruker)					
12:40	13:30	Cycad	Lunch						
			WS1 - 221	WS3 - 239	WS4 - Foxtail 226 / Elkhorn 206	WS5 - 218	WS6 - 221	WS7 - Elkhorn 206	WS13 - Foxtail 239 / Cycad 201
13:30	15:00	Foxtail level 2	SEM -EDS - Amics, automated phase analysis in mineral and metal research, Andrew Kostryzhev (NRICH)	ToF SIMS: molecular mass spectrometry of surfaces and interfaces, Christian van Engers (NRICH)	Evident DSX2000 microscope for advanced materials characterization, Vincent Tiong (Evident)	Particle Characterisation Tools: Mastersizer 3000+ laser diffraction system and Phenom XL-G3 benchtop SEM-EDS, David Myint, Guang Li (ATA Scientific)	Introduction to X-Ray Techniques, Olga Narygina (XRD) & Dale Parsonage (XRF) (Panalytical)	MinDet Emago - Rapid Mineralogy Analysis for Flotation Slurries Eiman Amini & Edwin Koh (MinDet)	High-resolution automated mineralogy of complex samples: Maps Min study on Apreo SEM, Echo Gao, Apurv Yadav (Thermofisher)
15:00	15:30	Cycad	Afternoon Tea						
15:30	17:00	Foxtail level 2	SEM -EDS - Amics, automated phase analysis in mineral and metal research, Andrew Kostryzhev (NRICH)	ToF SIMS: molecular mass spectrometry of surfaces and interfaces, Christian van Engers (NRICH)	Evident DSX2000 microscope for advanced materials characterization, Vincent Tiong (Evident)	Particle Characterisation Tools: Mastersizer 3000+ laser diffraction system and Phenom XL-G3 benchtop SEM-EDS, David Myint, Guang Li (ATA Scientific)	Introduction to X-Ray Techniques, Olga Narygina (XRD) & Dale Parsonage (XRF) (Panalytical)	MinDet Emago - Rapid Mineralogy Analysis for Flotation Slurries Eiman Amini & Edwin Koh (MinDet)	Advanced mineral characterization workflows: from SEM-EDS to 3D, Insights for critical minerals, Echo Gao, Apurv Yadav, Angela Hu (Thermofisher)

Online: <https://teams.microsoft.com/meet/43582378568217?p=FDLmCr1BJ1XhPglQTQ>

Tuesday 23 June 2026												
8:30	9:00	Elkhorn room 206	Registration, networking, exhibition									
			WS3 - 239	WS4 - Foxtail 226 / Elkhorn 206	WS5 - 218	WS6 - 221	WS7 - Elkhorn, 206	WS8 - 204	WS13 - Foxtail 239 / Cycad 201	WS10 - Elkhorn, 206	WS9 - 218	
9:00	10:30	Foxtail level 2	ToF SIMS: molecular mass spectrometry of surfaces and interfaces, Susana Brito (SMI), Christian van Engers (NRICH)	Evident DSX2000 microscope for advanced materials characterization, Vincent Tiong (Evident)	Particle Characterisation Tools: Mastersizer 3000+ laser diffraction system and Phenom XL-G3 benchtop SEM-EDS, David Myint, Guang Li (ATA Scientific)	Introduction to X-Ray Techniques, Olga Narygina (XRD) & Dale Parsonage (XRF) (Panalytical)	MinDet Emago - Rapid Mineralogy Analysis for Flotation Slurries Eiman Amini & Edwin Koh (MinDet)	Sample preparation for mineral analysis, Scott Richardson (Struers)		Raman and NIR, Danmar Gloria and Nathan Strickland (Metrohm)	Light microscopy, Scott Merrington (Leica)	
10:30	11:00	Cycad	Morning Tea									
11:00	12:40	Foxtail level 2	ToF SIMS: molecular mass spectrometry of surfaces and interfaces, Susana Brito (SMI), Christian van Engers (NRICH)	Evident DSX2000 microscope for advanced materials characterization, Vincent Tiong (Evident)	Particle Characterisation Tools: Mastersizer 3000+ laser diffraction system and Phenom XL-G3 benchtop SEM-EDS, David Myint, Guang Li (ATA Scientific)	Introduction to X-Ray Techniques, Olga Narygina (XRD) & Dale Parsonage (XRF) (Panalytical)	MinDet Emago - Rapid Mineralogy Analysis for Flotation Slurries Eiman Amini & Edwin Koh (MinDet)	Sample preparation for mineral analysis, Scott Richardson (Struers)	Beyond SEM/TEM: Complementary analytical techniques for mining application, Chris Gombaud, Jon Rutter, Jason Fewings, Jeremy Landry, Garfield Rebello (ThermoFisher)	Raman and NIR, Danmar Gloria and Nathan Strickland (Metrohm)	Light microscopy, Scott Merrington (Leica)	
12:40	13:30	Cycad	Lunch									
13:30	15:00	Foxtail level 2	ToF SIMS: molecular mass spectrometry of surfaces and interfaces, Susana Brito (SMI), Christian van Engers (NRICH)	Evident DSX2000 microscope for advanced materials characterization, Vincent Tiong (Evident)	Particle Characterisation Tools: Mastersizer 3000+ laser diffraction system and Phenom XL-G3 benchtop SEM-EDS, David Myint, Guang Li (ATA Scientific)	Introduction to X-Ray Techniques, Olga Narygina (XRD) & Dale Parsonage (XRF) (Panalytical)		Sample preparation for mineral analysis, Scott Richardson (Struers)	Analyse without compromise: low-vacuum automated mineralogy with Maps Min on Apreo SEM, Echo Gao, Apurv Yadav (ThermoFisher)	Raman and NIR, Danmar Gloria and Nathan Strickland (Metrohm)	Light microscopy, Scott Merrington (Leica)	
15:00	15:30	Cycad	Afternoon Tea									
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Wednesday 24 June 2026						
8:30	9:00	Elkhorn room 206	Registration, networking, exhibition			
			WS5 - 218	WS6 - 221	WS9 - 218	WS11 - 204
9:00	10:30	Foxtail level 2	Particle Characterisation Tools: Mastersizer 3000+ laser diffraction system and Phenom XL-G3 benchtop SEM-EDS, David Myint, Guang Li (ATA Scientific)	Introduction to X-Ray Techniques, Olga Narygina (XRD) & Dale Parsonage (XRF) (Panalytical)	Light microscopy, Scott Merrington (Leica)	
10:30	11:00	Cycad	Morning Tea			
11:00	12:40	Foxtail level 2	Particle Characterisation Tools: Mastersizer 3000+ laser diffraction system and Phenom XL-G3 benchtop SEM-EDS, David Myint, Guang Li (ATA Scientific)	Introduction to X-Ray Techniques, Olga Narygina (XRD) & Dale Parsonage (XRF) (Panalytical)	Light microscopy, Scott Merrington (Leica)	Sample preparation, Nathan Murray (Kemet)
12:40	13:30	Cycad	Lunch			
13:30	15:00	Foxtail level 2	Particle Characterisation Tools: Mastersizer 3000+ laser diffraction system and Phenom XL-G3 benchtop SEM-EDS, David Myint, Guang Li (ATA Scientific)	Introduction to X-Ray Techniques, Olga Narygina (XRD) & Dale Parsonage (XRF) (Panalytical)	Light microscopy, Scott Merrington (Leica)	Sample preparation, Nathan Murray (Kemet)
15:00	15:30	Cycad	Afternoon Tea			
15:30	17:00	Foxtail level 2	Particle Characterisation Tools: Mastersizer 3000+ laser diffraction system and Phenom XL-G3 benchtop SEM-EDS, David Myint, Guang Li (ATA Scientific)	Introduction to X-Ray Techniques, Olga Narygina (XRD) & Dale Parsonage (XRF) (Panalytical)	Light microscopy, Scott Merrington (Leica)	Sample preparation, Nathan Murray (Kemet)

Thursday 25 June 2026									
8:30	9:30		Registration, networking, exhibition						
9:30	9:50	Elkhorn room 206	Invited talk 1	Phase analysis for SEM and LM - software development, Bernd Schulz (Zeiss)					
9:50	10:10		Invited talk 2	Apreo SEM and Maps Min mineralogy software, Leo Salazar, Aukje Benedictus (Thermofisher)					
10:10	10:30		Invited talk 3	Using Laser induced breakdown spectroscopy (LIBS) for large scale automated mineralogy and elemental analysis, Daniel Patias (AXT)					
10:30	11:00	Cycad	Morning Tea						
11:00	11:20	Elkhorn room 206	Invited talk 4	Characterisation of polished blocks using light microscopy, Scott Merrington (Leica Microsystems)					
11:20	11:40		Invited talk 5	Application of XRF in mineral analysis, Shangshang Mu (Gatan / EDAX) - online					
11:40	12:00		Invited talk 6	Mineral analysis at Geological Survey of Queensland					
12:00	12:20								
12:40	13:30	Cycad	Lunch						
			WS1 - 221	WS2 - 221	WS9 - 218	WS11 - 204	WS13 - Foxtail 239 / Cycad 201	WS14 - 229	WS15 - Foxtail 219 / Elkhorn 206
13:30	15:00	Foxtail level 2	SEM -EDS - Amics - automated phase identification in mineral and metal research, Andrew Kostryzhev (NRICH)	Mineral mapping on Bruker XRF, Jack van der Pal (NRICH)	Light microscopy, Scott Merrington (Leica)	Sample preparation, Nathan Murray (Kemet)	Beyond SEM/TEM: complementary analytical techniques for mining application, Chris Gombaudo, Jon Rutter, Jason Fewings, Jeremy Landry, Garfield Rebello (Thermofisher)	Automated mineralogy on Hitachi SU7000 using Amics software, Matthew Ng (NewSpec)	TIMA - For the Geologist and Metallurgist: explore this powerful technique. Putting the mine back into process mineralogy, Zofia Swierczek (AXT)
15:00	15:00	Cycad	Afternoon Tea						
15:30	17:00	Foxtail level 2	SEM -EDS - Amics - automated phase identification in mineral and metal research, Andrew Kostryzhev (NRICH)	Mineral mapping on Bruker XRF, Jack van der Pal (NRICH)	Light microscopy, Scott Merrington (Leica)	Sample preparation, Nathan Murray (Kemet)	High-resolution automated mineralogy of complex samples: Maps Min study on Apreo SEM, Echo Gao, Apurv Yadav (Thermofisher)	Automated mineralogy on Hitachi SU7000 using Amics software, Matthew Ng (NewSpec)	TIMA - For the Geologist and Metallurgist: explore this powerful technique. Putting the mine back into process mineralogy, Zofia Swierczek (AXT)

Online: <https://teams.microsoft.com/meet/45034415954609?p=TYNUUpaik7EWtqtNSo>

Friday 26 June 2026								
8:30	9:00	Elkhorn room 206	Registration, networking, exhibition					
			WS2 - 221	WS13 - Foxtail 239 / Cycad 201	WS14 - 229	WS15 - Foxtail 219 / Elkhorn 206		
9:00	10:30	Foxtail level 2	MIneral mapping on Bruker XRF, Jack van der Pal (NRICH)	Analyse without compromise: low- vacuum automated mineralogy with Maps Min on Apreo SEM, Echo Gao, Apurv Yadav (Thermofisher)	Automated mineralogy on Hitachi SU7000 using Amics software, Matthew Ng (NewSpec)	TIMA - For the Geologist and Metallurgist: explore this powerful technique. Putting the mine back into process mineralogy, Zofia Swierczek (AXT)		
10:30	11:00	Cycad	Morning Tea					
11:00	12:40	Foxtail level 2	MIneral mapping on Bruker XRF, Jack van der Pal (NRICH)	From microstructure to planetary insight: 2D–3D workflows for terrestrial and extraterrestrial materials, Echo Gao, Apuv Yadav, Angela Hu (Thermofisher)	Automated mineralogy on Hitachi SU7000 using Amics software, Matthew Ng (NewSpec)	TIMA - For the Geologist and Metallurgist: explore this powerful technique. Putting the mine back into process mineralogy, Zofia Swierczek (AXT)		
12:40	13:30	Cycad	Lunch					
13:30	15:00	Foxtail level 2	MIneral mapping on Bruker XRF, Jack van der Pal (NRICH)	Advanced mineral characterization workflows: from SEM-EDS to 3D, Insights for critical minerals, Echo Gao, Apurv Yadav, Angela Hu (Thermofisher)	Automated mineralogy on Hitachi SU7000 using Amics software, Matthew Ng (NewSpec)	TIMA - For the Geologist and Metallurgist: explore this powerful technique. Putting the mine back into process mineralogy, Zofia Swierczek (AXT)		
15:00	15:00	Cycad	Afternoon Tea					
							Closure	