

2025 Conference Agenda

#Minexchange2025

Innovations in Metal Mine Investigation and Remediation

Leonardo Hotel Cardiff, Wednesday 12th November 2025, 09:30-16:30

This year's conference will be chaired by Nick Cox, Mining Remediation Authority and Gavin Jones, Natural Resources Wales.

09.30		Arrival and Networking
09:55	Nick Cox Mining Remediation Authority	Welcome
10:00 (10 mins)	Dave Johnston Natural Resources Wales	Update from the Wales Metal Mines Programme A look at work underway with Natural Resources Wales and the Mining Remediation Authority in Wales.
10:10 (30 mins)	Prof. Adam Jarvis Newcastle University	Keynote Introduction Nature-based mine water treatment trials: Key findings from lab- to full-scale systems.
10:40 (15 mins)	Hugh Potter Environment Agency	Update from the Water and Abandoned Metal Mines Programme A look at work underway with Environment Agency and the Mining Remediation Authority in England.
10:55 (15 mins)	Jeremy Reece Isle of Man Government	Introduction to the River Neb Catchment Programme, Isle of Man A look at the Isle of Man Cross Vein Mine remediation project and other developments from a Crown Dependency
11:10 (15 mins)	Alan Yendell Scottish Environment Protection Agency (SEPA)	Introduction To Tackling Water Pollution from Abandoned Metal Mines in Scotland A look at the development of SEPA's new collaboration to deliver remediation in the upper Wanlock Water catchment.
11:25 (10 mins)	Panel Q&A	Presenter Discussion
11:35 (15 mins)	Coffee Break	

Morning Theme: Innovations in Investigations

11:50 (20 mins)	Dave Capstick Central Alliance RSK	Remote Monitoring for Tailings Storage Facilities - Integrating Technologies Exploring satellite, UAV, and in-ground systems for managing complex data in tailings facility monitoring.
12:10 (20 mins)	Prof. Mark Macklin Universities of Exeter and Lincoln	Review of Lead Risk Modelling on Floodplains New spatial modelling improves lead (Pb) risk assessment on legacy mine floodplains. Climate-driven flood risk remains a key challenge.
12:30 (20 mins)	Steven Heathcote JBA Consulting	Metallophyte Habitats - Complexity & Adaptation Exploring species adaptation to varied conditions and the challenges of working around metallophyte habitats.
12:50 (20 mins)	Panel Q&A	Presenter Discussion
13:10 (60 mins)	Lunch and Networking	A chance to explore stands

Afternoon Theme: Innovations in Remediation

14:10 (20 mins)	Dr. Iain Robertson Swansea University	Biochar & Hydrogel Technosols for Mine Tailings Low-cost, erosion-resistant soil treatments, with a focus on revegetation and water retention.
14:30 (20 mins)	Sion Brackenbury TerrAffix Soil Solutions	Technosols to Microbiomes - UK Mine Restoration Innovation 2024 trials show compost and biochar boost vegetation on toxic spoil; 2025 work pioneers microbiome restoration for resilient, biodiverse habitats.
14:50 (20 mins)	Prof. Devin Sapsford Cardiff University	Innovations in Mine Water Treatment A review of work underway on current innovations in mine water treatment
15:10 (20 mins)	Phil Studds Ramboll	Mine Water Treatment - Global Technology Review A review and evaluation of active, passive, and emerging methods for metal removal from mine waters
15:30 (20 mins)	Panel Q&A	Presenter Discussion
15:50 (15 mins)	Wrap Up Dave Johnston	Thank you and final questions
16:05 (25 mins)	Event Concludes	Networking in foyer, concluding 16.30

We welcome contributions in Welsh – a translator will be present so that contributions in Welsh can be understood by everyone.