



22nd EIG Exeter 2022 Programme



	timing	BLUE Lecture Theatre	GREEN Lecture Theatre
Day 1	9.00 am start	Opening Plenary Session	(Green theatre not used until 11:30 am)
	10 mins	Welcome by Conference Chair: Simon McCurdy, Evolution Geological	
	5 mins	Opening Address by Prof. Stephen Hesselbo, Head of Camborne School of Mines.	
	25 mins	The Geology of South-West England - Tectonics and Resources (Robin Shail)	
	45 mins	The Ansel Dunham Lecture: Critical Mineral Resources for the Energy Transition (Dr. Karen Hanghøj, Director, BGS)	
	15 mins	Discussion	
	5 mins	A Tribute to Dr. Clive Nicholas - read by Colin Comberbach	
Morning Coffee Break 10:45 - 11:30 am			
	11:30am start	Geotechnics (1) Session (Chair: John Sergeant)	11:30am start Regulation Session (Chair: Craig Arditto)
	25 mins (incl questions)	Creation of the slot for the suspended conveyor at Bardon Hill Quarry (Jeremy Baldock)	25 mins (incl questions) The origins of legal title to minerals and the tests applied to determine if something is a "mineral" in the eyes of the law (Stephen Hadley)
	25 mins	The use of pulse Ground Penetrating Radar (pGPR) in identifying potential subsidence events and water hazards in underground mines (David Griffiths)	25 mins Environmental Permitting for quarry restoration: getting the permits you need and keeping the regulator happy (Maggie Dutton)
	25 mins	Mine to Mill – A New Dawn (Thomas Clifford)	25 mins Abstraction Licensing Reform in the UK Ball Clay Sector – lessons learned during the 2019 transition and preparation period (Phillip Burris)
LUNCH BREAK 12:45 - 2:00 pm			
	2:00pm start	Resources Session (Chair: Emma Goode)	2:00pm start Geochemistry in the Minerals Industry (Chair: Clive Mitchell)
	25 mins (incl questions)	Colour is in the eye of the beholder...or is it? Colour quantification from digital core photo analysis (Robert Goddard & Marco Cosi)	25 mins (incl questions) Unconventional Lithium resources outside of Cornwall? (Alex Finlay)
	25 mins	The Geology of Quaternary Silica Sand Resources in Cheshire - a Fresh Analysis (Alan Thompson)	25 mins Chemostratigraphy for the assessment of susceptibility to areal subsidence (Leigh Sharpe)
	25 mins	Could The Imposition Of Biodiversity Net Gain Regulations Further Constrain Access To Mineral Resources? (Neil Humphries)	25 mins Can a Chemo-mechanical Model Predict Rock Mechanical Properties of Limestone Open-Hole Chip Samples (Paul Jennings) *
Afternoon Tea Break 3:15 - 3:45 pm			
	3:45pm start	Resource Development Session (Chair: Peter Scott)	3:45pm start Hydrogeology Session (Chair: Duncan Wardrop)
	25 mins (incl questions)	Unearthing the Future – An update on the Hemerdon Tungsten Mine (Ross Facey)	25 mins (incl questions) What Water Stewardship Means For The Extractive Industries (Penny Jenkinson)
	25 mins	The South Crofty Project, Cornwall: A Long Awaited Update (Lauren Beveridge)	25 mins Investigation of the hydrogeology of a Carboniferous Limestone quarry to inform future water management in a closed aquifer unit (Heather MacLeod)
	25 mins	A Case Study on the Implementation and Benefits of Improved Scheduling in Industrial Minerals Quarrying (Mark Scrutton)	25 mins Application of 3D geological modelling in extractive industries (Alexandra Miller)
	25 mins	De Lank Granite Quarry in Cornwall - A brief History and Future Development (Simon Rees)	25 mins Water supply challenges at the Pucamarca mine in Tacna – Peru (Juan Rivera)
	5.25 pm close	DAY 1 CLOSE	
* Due to a recent motorbike accident, Paul has had to withdraw from the conference			
Day 2	9.00 am start	Climate Change and Minerals Plenary Session (Chair: Alan Thompson)	(Green theatre not used until 11:00 am)
	10 mins	New MPA Video - Making the Link (Nick Horsley)	
	20 mins (incl questions)	Weathering the Storm - Exploring the quarrying sector's resilience to the impacts of climate change and its role in supporting climate change adaption in the UK (Jim Davies)	
	20 mins	Graphite Resources in Africa: Carbon for Decarbonisation (Clive Mitchell)	
	20 mins	The potential for UK mineral resources of battery raw materials for zero emission vehicles (Paul Lusty)	
	20 mins	Lithium in Cornwall: Driving the UK's Energy Transition (Sally Worbey)	
	<small>note: the papers in this first session are shorter as there are more to fit in.</small>		
Morning Coffee Break 10:30 - 11:00 am			
	11:00 am start	"Back to Basics" Workshop Session (Chair: Chris Woodhouse)	11:00 am start Resources (2) Session (Chair: Alexandra Miller)
	25 mins (incl discussion)	The Nitty Gritty of Sand and Gravel Exploration (Duncan Wardrop)	25 mins (incl questions) The United Nations framework classification: What it is and why you should care (Tom Bide)
	25 mins	The 3 things a geologist needs to know about hydrogeology in the Minerals Sector – or A Hydrogeology MSc in 30 minutes (James Padden)	25 mins Waste deep in opportunities: trends in industrial minerals recycling (Mike O' Driscoll)
	25 mins	The Basics of Quarry Design (Gary Buchanan)	25 mins Problems with use of Natural Stone for Thin Cladding Panels (Alan Cobb)
LUNCH BREAK 12:15 - 1:30 pm			
	30 mins	EIG CONFERENCES AGM (starts at 1:30pm)	(Green theatre not used after 12:15 pm)
	2:00pm start	Geotechnics (2) Session (Chair: Simon McCurdy)	
	25 mins (incl discussion)	Large-scale Stability Analysis of Rock Slopes and Underground Mines – Approaches and Recommendations (Tom Styles)	
	25 mins	Case Study - Survey, Geological Mapping, Kinematic and 3D Rock-fall Analyses of the Qiddiya Cliffs in Saudi Arabia (Adrian Wilkinson)	
	25 mins	Life after mineral extraction: 3 case studies of the technical challenges and regulatory requirements associated with very different changes in use of extractive operations (Naomi Lee)	
	3:15pm	Conference Summing Up and Close - Simon McCurdy	
Afternoon Tea 3:30 - 4:00 pm			
POSTERS:		Condover Quarry – Hydrogeological Conceptualisation of a Mineral Deposit (Penny Jenkinson)	
		Fault Reactivation and Mineral Reserve Estimation - a case study from the Dolyhir and Strinds quarries, Wales (Shane Webb)	
		Lanehead Quarry - A Lesson in Monitoring and Licensing (Deborah Thomas)	
		Building Stone Database for England (Clara Willett)	
		Using Basic Sampling Techniques within a Working Quarry to Investigate Penalty Element Emplacement (Luke Hodson)	