

Program

Next Generation Resources 2019: Student Conference



Summary program for the Next Generation Resources 2019 Student Conference

Date: Wednesday 24 July 2019

Time	Session title
8:30 – 8:55 am	Registration and coffee
9:00 – 9:15 am	Opening speeches
9:15 – 10:00 am	Platform and video session 1 - Exploration
10:00 – 10:30 am	Morning tea and poster session 1
10:30 – 11:15 am	Platform and video session 2 - Processing
11:15 – 12:00 pm	Platform and video session 3 - Unconventional mining
12:00 – 1:00 pm	Lunch and informal talk with OceanaGold CEO Mike Wilkes
1:00 – 1:45 pm	Platform and video session 4 - Rehabilitation (Environmental Engineering)
1:45 – 2:30 pm	Platform and video session 5 - Rehabilitation (Biology)
2:30 – 3:00 pm	Afternoon tea and poster session 2
3:00 – 3:45 pm	Platform and video session 6 - Beyond the cycle
3:45 – 4:45 pm	Industry panel discussion
4:45 – 5:25 pm	Prizes and awards, photo session, closing speeches and acknowledgements
5:25 pm onwards	Networking session - Canapés and drinks

Detailed program for the Next Generation Resources 2019 Student Conference

	Session	Presenter	Start time	Finish time
	Registration and Coffee		8:30 AM	8:55 AM
	Time to settle and find seat		8:55 AM	9:00 AM
	Opening Organising committee's welcome speech	Andrea Shaw - UQ SMI	9:00 AM	9:05 AM
	Opening Welcome speech	Neville Plint - Director - UQ SMI	9:05 AM	9:15 AM
Session 1 Exploration and Mine Production	Introduction and moderation	Gabriel Perez-Murillo - UQ SMI	9:15 AM	9:20 AM
	Geometallurgical characterisation of complex orebodies: Comminution proxies using Hyperspectral imaging and multi-element geochemistry (Platform presentation)	Rocio Vargas - UQ	9:20 AM	9:26 AM
	Prediction of petrophysical properties using Deep Learning Methods (Video)	Chaitrali Ghodke - UBC	9:26 AM	9:32 AM
	Fault & Vein Network Probability Mapping from Seismic Time Series for Minerals Exploration (Platform presentation)	Robindra N. Chatterjee - UQ	9:32 AM	9:38 AM
	Augmented Reality and Machine Learning for Mining Truck Payload (Video)	Matias Pinto - UBC	9:38 AM	9:44 AM
	Prediction of pre-processing outcomes – A crucial strategy for sustainable mining in the 21st century (Platform presentation)	Torben Wuestemann - UQ SMI	9:44 AM	9:50 AM
	Q&A session 1		9:50 AM	10:00 AM
	Morning tea		10:00 AM	10:10 AM
	Poster Session 1		10:10 AM	10:30 AM
Session 2 Processing	Introduction and moderation	Rocio Vargas Soto	10:30 AM	10:35 AM
	Dynamic simulation of stockpile incorporating size segregation (Platform presentation)	Ziming Ye - UQ SMI	10:35 AM	10:41 AM
	Technoeconomic evaluation of hydrometallurgical metal recovery from Waste Printed Circuit Boards (Video)	Patrick Prestele - UCT	10:41 AM	10:47 AM

	Session	Presenter	Start time	Finish time
	Enhancing coarse gangue rejection through multistage impact breakage (Platform presentation)	Bernard Selasie Agbenuvor – UQ (withdrawn)	10:47 AM	10:53 AM
	The effect of bed and fluid properties on capillary pressure and their impact on the hydrodynamic modelling of packed bed systems. (Video)	Michael D. Odidi - UCT	10:53 AM	10:59 AM
	Development of a High Voltage Pulse Testing Facility for Ore Pre-Concentration (Platform presentation)	Daniel Lay - UQ	10:59 AM	11:05 AM
	Q&A session 2		11:05 AM	11:15 AM
Session 3 Unconventional Mining	Introduction and moderation	Mitchel Rudge - UQ SMI	11:15 AM	11:20 AM
	Neptunia: an ab-sele-utely fascinating gamechanger (Platform presentation)	Maggie-Anne Harvey - UQ	11:20 AM	11:26 AM
	Process Design and Optimisation of E-Waste Bioleaching (Video)	Athena R Strauss - UCT	11:26 AM	11:32 AM
	Reprocessing tailings at an abandoned tungsten mine of Queensland for remediation (Platform presentation)	Zhengdong Han - UQ	11:32 AM	11:38 AM
	A novel treatment approach for addressing sulphate contaminated wastewater incorporating biological sulphate reduction and partial sulphide oxidation with sulphur recovery (Video)	Tynan S. Marais - UCT	11:38 AM	11:44 AM
	Discovery and ecophysiology of Australian native hyperaccumulator plants (Platform presentation)	Farida Abubakari. - UQ SMI	11:44 AM	11:50 AM
	Q&A session 3		11:50 AM	12:00 PM
	Lunch with an informal talk with Mick Wilkes, CEO of OceanaGold		12:00 PM	1:00 PM
Session 4 Rehabilitation (Environmental Engineering)	Introduction and moderation	Ziming Ye - UQ SMI	1:00 PM	1:05 PM
	Investigating the processes involved in salt generation from coal mine spoil (Platform presentation)	Karan Jain - UQ SMI	1:05 PM	1:11 PM
	Fabrication of zeolite geopolymer tubes for water treatment (Platform presentation)	Samar Amari - QUT	1:11 PM	1:17 PM
	Soil Erosion Modelling for Rehabilitated Landform (Platform presentation)	Shahla Yavari - UQ	1:17 PM	1:23 PM
	Polymer amended tailings stability for optimum rehabilitation outcomes (Platform presentation)	Mohammad Boshrouyeh - UQ	1:23 PM	1:29 PM

	Session	Presenter	Start time	Finish time
	Transformation of Alkaline Minerals in Red Mud regulated by Artificial Organic Acid (Platform presentation)	Sicheng Wang - UQ	1:29 PM	1:35 PM
	Q&A session 4		1:35 PM	1:45 PM
Session 5 Rehabilitation (Biology)	Introduction and moderation	Farida Abubakari - UQ SMI	1:45 PM	1:50 PM
	Community coalescence and transplanting of acidophilic communities (Platform presentation)	Tomasa Sbaffi - Exeter	1:50 PM	1:56 PM
	Drone-based ecosystem-function measurements to guide mine-site restoration (Video)	Mitchel L M Rudge - UQ SMI	1:56 PM	2:02 PM
	The effects of a sulphur oxidising bacterial inoculum and elemental sulphur amendment on alkaline iron ore tailings pH stabilisation (Platform presentation)	Qing Yi - UQ	2:02 PM	2:08 PM
	Can fibre-rich plants serve the joint role of remediation of degraded mine land and fuelling of a multi-product value chain? (Video)	Shilpa Rumjeet - UCT	2:08 PM	2:14 PM
	Biogeochemical interactions of minerals and hyperaccumulator plants in abandoned mine tailings (Platform presentation)	Amelia Corzo Remigio - UQ SMI	2:14 PM	2:20 PM
	Q&A session 5		2:20 PM	2:30 PM
	Afternoon tea		2:30 PM	2:40 PM
	Poster Session 2		2:40 PM	3:00 PM
Session 6 Beyond the Cycle	Introduction and moderation		3:00 PM	3:05 PM
	The incorporation of potential harm into risk characterisation of inhalable coal dust (Video)	Conchita Kamanzi - UCT	3:05 PM	3:11 PM
	Evaluation of satellite-based rainfall estimates in the high Andes, a globally significant mining region (Platform presentation)	Nena Bulovic - UQ	3:11 PM	3:17 PM
	Investigating Civil Society and Oversight agencies synergy for accountability and anti-corruption extractives sector: a case study of Nigeria (Video)	Chinwe Ekene Ezeigbo - UQ	3:17 PM	3:23 PM
	Understanding sustainability performance in resource supply chains: An assessment 'from mine to car' (Platform presentation)	Jean-Pierre Imbrogiano - UQ	3:23 PM	3:29 PM

	Session	Presenter	Start time	Finish time
	Improving learning from incidents of the Ghanaian mining industry (Video)	Eric Stemn - UQ SMI	3:29 PM	3:35 PM
	Q&A session 6		3:35 PM	3:45 PM
	<p>Panel session with 6 industry members <i>The big sustainability challenges facing the mining industry – what is the role of the next generation</i></p> <p>With panellists:</p> <ul style="list-style-type: none"> - Ian Neill, Executive Director of ACARP - Dr Helen Degeling, Director Minerals Geoscience at Geological Survey of Queensland, Dept of Natural Resources, Mines and Energy - Philip Bangerter, CMLR Industry Fellow and formerly with Hatch - Andrew Carrick, Partner, Mining, Metals & Energy Assurance, Ernst and Young - Lydia Gentle, Engineering Manager, BHP - Wendy Tyrell, Executive Director, Development Partner Institute 	Moderated by Andrea Shaw - UQ SMI	3:45 PM	4:45 PM
	Prizes and awards / photo session	Prof Neville Plint - Director - UQ SMI	4:45 PM	5:15 PM
	Closing speech / acknowledgements	Maggie-Anne Harvey - UQ SMI	5:15 PM	5:25 PM
	Networking Session: Canapés and drinks		5:25 PM	7:25 PM

Links to videos (This includes videos that did not make the shortlist for the conference).

<https://www.youtube.com/playlist?list=PLHL33vVp-RX2KUU8aG8T2wN120jATUveX>



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