

2017 International Workshop on Frontiers of Mathematical Geosciences

TUESDAY 14th November

Opening (Location: Geosciences International Conference Centre, 1st floor, south)

Chair: Qiuming Cheng

8:30-8:45			
8:45-9:30	Pengda Zhao	Mathematical Geosciences in the Era of Big Data	
9:30-10:15	Jennifer McKinley	Exploring the Potential for Mathematical Geoscience Research at the Interface Between VERTICES, Resilient Communities and Geoscience	
10:15-10:25			Break
10:25-11:10	Mark Cooper	Geoscience Layers to Inform VERTICES	
11:10-11:45	Conor Graham	Unmanned Aerial Vehicle(UAV) and Insar Data Analysis for Geotechnical Infrastructure	
11:45-12:00			Photo
12:00-14:30			Lunch
			Chair: Eric Grunsky
14:30-15:00	Qiuming Cheng	Big Data and Mathematical Geosciences for Modeling Extreme Geological Processes	
15:00-15:45	Daya Sagar	Is There a Single Mathematical Field that Can Address Retrieval, Characterization, Reasoning, Simulation and Modelling, and Visualization of Information?	
15:45-16:00			Break
16:00-16:30	Jianping Chen	Quantitative Prediction Polymetallic Sulfide Resources Based on BIG DATA—Case Study in the Southwest Indian Ocean	
16:30-17:00	Laijun Lu	Frequency Spectrum and Variation Theory of Geological Big Data in Three-Phase Space	
			WEDNESDAY 15 th November
			Chairs: Jennifer McKinley and Guangsheng Yan
8:30-9:15	Eric Grunsky	Methods and Metrics for Process Recognition and Process Validation in Multi-Element Geochemical Datasets	
9:15-9:45	Yong Ge	Scaling Methods for Geoscience Data	
9:45-10:15	Keyan Xiao	The China National Mineral Assessment Initiative	
10:15-10:45	Yongqing Chen	Application of BEMD in Extraction of Regional and Local Gravity Anomalies Reflecting Geological Structures Associated with Mineral Resources	
10:45-11:00			Break
11:00-11:45	Frits Agterberg	Geomathematics: Current and Future Developments	
11:45-12:00			Discussion