

10th Triennial Conference 2017

Conference Program



Sunday 5th November 2017 - Epoche Lounge Bar	
18:00 - 20:00	Pre-Conference Reception - Kirkton Park Hunter Valley
Monday 6th November 2017 - Hunter Rothbury Room	
8:00 - 8:30	Registration (Tea and coffee available)
8:30 - 8:45	Welcome and Introduction: Richard Walsh
8:45 - 9:25	Keynote Address - Winton Gale <i>Adaptive Innovation for Managing Challenges</i>
9:25 - 10:15	Technical Session 1 Chairperson: Jim Galvin
(9:25 – 9:45)	John Soar: <i>Longwall Mining beneath Lake Lindsay Overland Conveyor at Grasstree Mine</i> p. 1
(9:45 – 10:05)	Samantha Beresford and David Talbert: <i>Innovative Ways of Managing Longwall Mining beneath Small to Medium Commercial and Industrial Properties</i> p. 15
(10:05 – 10:15)	Questions
10:15 - 10:45	Morning Tea
10:45 - 12:30	Technical Session 2 Chairperson: Gang Li
(10:45 – 11:05)	Jim Galvin: <i>Longwall Mining Impacts on Groundwater and Surface Water: Aspects Significant to Gaining Mining Approval</i> p. 37
(11:05 – 11:25)	Ken Mills: <i>Experience of Monitoring the Interaction between Ground Deformations and Groundwater above an Extracted Longwall Panel</i> p. 51
(11:25 – 11:45)	Sheng Ping: <i>Investigation on the Soil-Pile Interaction Mechanism in Subsidence Areas</i> p. 67
(11:45 – 12:05)	Paul Moore and Paul Austin: <i>Innovative Design of Large Multi-storey Reinforced Concrete Framed Structures Subject to Mine Subsidence</i> p. 167
(12:05 – 12:30)	Questions
12:30 - 13:30	Lunch
13.30 - 14.45	Technical Session 3 Chairperson: Henk Buys
(13:30 – 13:50)	Matthew Brunton: <i>Continuous Monitoring of Mining Induced Strain in Bridge Stepped Joints Using Fibre Bragg Grating Sensors</i> p. 85
(13:50 – 14:10)	Matthew Brunton: <i>Monitoring of Mining Induced Movements between Bridge Components with Fibre Bragg Grating Sensors</i> p. 155
(14:10 – 14:30)	Daryl Kay: <i>Experiences from Longwall Mining beneath Railway Cuttings</i> p. 95
(14:30 – 14:45)	Questions
14:45 - 15:15	Afternoon Tea
15:15 - 16:55	Technical Session 4 Chairperson: Peter King
(15:15 – 15:35)	Gareth Swarbrick: <i>Unsaturated Railway Embankments Subject to Mine Subsidence (can you handle the truth?)</i> p. 111
(15:35 – 15:55)	John Matheson: <i>Outcomes of the Response of Railway Overbridges to Valley Closure in the NSW Southern Coalfield</i> p. 121
(15:55 – 16:15)	Andrew Leventhal: <i>Valley Closure - How Much Can a Culvert Bear?</i> p. 135
(16:15 – 16:30)	Questions
16:30 – 18:00	AGM for MSTS Members
19:00 - 23:00	Conference Dinner - James Busby Room

10th Triennial Conference 2017

Conference Program

Tuesday 7th November 2017 - Hunter Rothbury Room	
8:15 - 8:30	Tea and coffee available
8:30 - 8:35	Introduction: Richard Walsh
8:35 - 9:50	Technical Session 1 Chairperson: Arthur Waddington
8:35 - 8:55	James Barbato: <i>Development of Predictive Methods for Horizontal Movement and Strain at the Surface due to Longwall Mining</i> p. 207
8:55 - 9:15	Daryl Kay: <i>Predicting Horizontal Ground Movements for Grosvenor Mine, Queensland</i> p. 175
9:15 - 9:35	Yvette Heritage: <i>Validation of a Subsidence Prediction Approach of Combined Modelling and Empirical Methods</i> p. 193
9:35 - 9:50	Questions
9:50 - 10:20	Morning Tea
10:20 - 12:00	Technical Session 2 Chairperson: Gary Brassington
10:20 - 10:40	Michael Nicholson: <i>Re-emergence of Photogrammetry for Hi-resolution 3D Surface Modelling and Measurement</i> p. 223
10:40 - 11:00	Edwina White: <i>Progress in Partial Extraction Layout Design for Productivity, Safety and Subsidence Management at Clarence Colliery</i> p. 235
11:00 - 11:20	Glen Dominish: <i>Structural Integrity Investigation of a Deep Shaft at a Salt Mine</i> p. 253
11:20 - 11:40	Renee Regal: <i>Overview of the Monitoring of Sandstone Overhangs for the Effects of Mining Subsidence in the Southern Coalfield</i> p. 261
11:40 - 12:00	Questions
12:00 - 13:00	Lunch
13:00 - 14:45	Technical Session 3 Chairperson: Bruce Hebblewhite
13:30 - 13:50	Jamie Reeves: <i>The Unexpected Outcomes of 25 years of Subsidence Monitoring of Aboriginal Cultural Heritage Sites in the Southern Coalfield NSW</i> p. 271
13:50 - 14:10	Andrew Shirley: <i>Subsidence Events, Investigations & Litigation - The Need for a Forensic Approach</i> p. 283
14:10 - 14:30	David Knott: <i>Downhole Techniques to Assess Mine Subsidence and Mitigation Effectiveness</i> p. 303
14:30 - 14:45	Questions
14:45 - 15:30	Afternoon Tea - MELBOURNE CUP
15:30 - 16:45	Technical Session 4 Chairperson: John Lea
15:30 - 15:50	Kieran Black: <i>Pothole Subsidence in the Newcastle Region</i> p. 321
15:50 - 16:10	Ismet Canbulat: <i>Assessment of Sinkhole Risk in Shallow Coal Mining</i> p. 331
16:10 - 16:30	Simon Baker: <i>Alternative Approach to the Assessment of the Mine Workings under the Newcastle CBD</i> p. 349
16:30 - 16:45	Questions
16:45 - 17:00	Closing Address: Richard Walsh
17:00 - 18:00	Post Conference Social Hour