



# XVI International Congress for Mine Surveying (ISM2016)

12-16 September 2016

Brisbane Convention & Exhibition Centre

Please note program is current as of 4 September 2016 and is subject to change at any time.

<b>Monday, 12 September 2016</b>	
12:00 - 17:00	Registration Open, Arbour Room A1
15:30 - 17:00	ISM Presidium Meeting
18:00 - 20:00	Networking Drinks, The River Room & Bar Charming Squire, Southbank
<b>Tuesday, 13 September 2016</b>	
Boulevard Auditorium	
<b>Opening Plenary Session</b>	
09:00	Welcome to Country - Songwoman Maroochy Barambah of the Turrabal-Gubbi Gubbi people
<b>Congress Opening &amp; Welcome Address</b>	
09:10	Mr Timothy Hyde - Master of Ceremonies
09:15	Mr Mick Harris, Australian Institute for Mine Surveyors President
09:25	Dr Andrew Jarosz, International Society for Mine Surveying President
<b>Plenary Session</b>	
09:35	EIT RawMaterials, a new European initiative in Raw Materials Dr. Karen Hanghøj
10:05	Mining Education Australia – 10 years' experience of industry supporting higher education through a collaborative program Prof Steve Hall
<b>Morning Tea Break, Trade Exhibition and Poster Viewing</b>	
Boulevard Auditorium	
<b>B1&amp;B2</b>	
11:00 - 12:40	<b>Education, Legal &amp; Social Issues</b> Chairperson: Mr Callum McNaughton
11:00	31: Mineral Ownership across the member countries of the International Society for Mine Surveying Dr Gareth Powell
11:20	57: Can an examination guarantee competency? A critical review Dr Hendrik Grobler
11:40	6: Gender equity for the professional mine surveyor, Challenges and changes, barriers and benefits Mr Justin Smith
12:00	42: Developing GNSS data processing software in order to improve the training quantity in HUMG Mr Trong Nguyen Gia
12:20	101: Construction and Practice of experiment teaching center of virtual simulation for mining surveying Mr Yunjia Wang
12:40 - 13:40	<b>Lunch Break, Trade Exhibition and Poster Viewing</b>
Boulevard Auditorium	
<b>B1&amp;B2</b>	
13:40 - 15:20	<b>General Mine Surveying Issues</b> Chairperson: Dr Erik Ludvigsen
13:40	110: Ernest Henry - Completion of a major underground infrastructure build Mr Paul Hancock
14:00	62: Open-Cut Mine Machinery Automation: Going Beyond GNSS Prof Chris Rizos
14:20	112: Surveying the Old Underground Mine Works Using Innovative Techniques Mr Miroslav Novosad
14:40	89: Error Propagation and Survey Strategies for Long, Underground, Open Traverses Dr Andrew Jarosz
15:00	88: Mining's imperative for enhanced accuracy of real-time data and reporting Mr Gary Robertson
15:20 - 15:50	<b>Afternoon Tea Break, Trade Exhibition and Poster Viewing</b>
Boulevard Auditorium	
<b>B1&amp;B2</b>	
15:50 - 17:10	<b>Mining Impacts &amp; Deposit Modelling</b> Chairperson: Mr Daniel Cherry
15:50	7: From digital mine to smart mine Prof Zhengfu Bian
16:10	82: Study on ecological restoration strategy of coal mining subsidence in Loess Plateau A/Prof Huping Hou
16:30	111: A vulnerability framework approach for landscape rehabilitation planning in mine closure area Mr Yongjun Yang
16:50	20: Utilization of GIS tools for reclamation of mining landscape Prof Vladimír Sedlák
15:50	109: Overcoming safety inefficiency issues, deliverable currency challenges surveying water on mines. Mr Rick Perissinotto
16:10	70: Study on microseismic techniques for mining induced earthquake monitoring Dr Xun Luo
16:30	23: Using Fuzzy Logics to Prioritize Replacement of Mining-affected Water Supply Systems Dr Agnieszka Malinowska
16:50	65: Deposit Parameter Modeling – Methods and Technologies in Bulgaria A/Prof Stanislav Topalov
18:00 - 20:00	<b>Congress Welcome Reception,</b> Held within Exhibition, Boulevard Auditorium Foyer, Brisbane Convention & Exhibition Centre



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Wednesday, 14 September 2016		
B1 & B2		
07:45 - 08:45	<b>Leica Geosystems Workshop</b> Uses of the 3Dresaper in the Mining Industry	
	<b>Boulevard Auditorium</b> <b>Plenary Session</b>	
	<b>Mr Timothy Hyde</b> - Master of Ceremonies	
09:00	Subsurface Spatial Planning - Requirements for Research and Practice <b>Prof Axel Preuße</b>	
09:30	A Longwall Mining Method without the Excavation of Roadways – the Third Mining Technology Revolution in China <b>Prof Manchao He</b>	
10:00 - 10:30	<b>Morning Tea Break, Trade Exhibition and Poster Viewing</b>	
	<b>Boulevard Auditorium</b>	<b>B1&amp;B2</b>
10:30	<b>Surface Hazards, Damages &amp; Protection</b> <b>Chairperson: Dr Andrew Jarosz</b>	<b>Surveying Instrumentation and Techniques</b> <b>Chairperson: Mr Norbert Benecke</b>
10:30	22: Using fuzzy mathematics to model ground surface cracks caused by mining <b>Dr Xugang Lian</b>	30: Variable precision adjustment optimization of a long traverse with Maglev gyro observations <b>Mr Ji Ma</b>
10:50	39: Multi-criteria method for assessing the risk of discontinuous deformations on the ground surface <b>Dr Agnieszka Malinowska</b>	106: Mobile Solution for Positioning, 3D-Mapping and Inspection in Underground Mining <b>Dr Alexander Born</b>
11:10	73: Temporal and spatial analysis of surface collapses in Qujiang mine <b>Prof Bingnan Hu</b>	51: Future surveying - How continuous mine mapping will drive operational productivity up and costs down <b>Mr Jordan Herrmann</b>
11:30	76: Measurement of ground damages in mining areas based on high- resolution remote sensing images <b>Prof Shaoliang Zhang</b>	56: Azimuth determination by gyroscope, 50 years later, has anything changed? <b>Dr Hendrik Grobler</b>
11:50	74: The numerical simulation analysis of damage to two-story building caused by underground mining <b>Prof Huayang Dai</b>	119: Using an Indoor Laser Scanner for Semi-Outdoor Ferrochrome Stockpile Volume Measurements <b>Mr Carlos Gonzalez</b>
12:10 - 13:10	<b>Lunch Break, Trade Exhibition and Poster Viewing</b>	
	<b>Boulevard Auditorium</b>	<b>B1&amp;B2</b>
13:10	<b>Subsidence Monitoring, Engineering &amp; Control</b> <b>Chairperson: Prof Ryszard Hejmanowski</b>	<b>3D Surveying</b> <b>Chairperson: Dr Martin Vrubel</b>
13:10	122: An Overview of the "Standardised Subsidence Information Management System" (SSIMS) <b>Dr Robert Pâquet</b>	11: Latest developments for practice in shaft inspection <b>Mr Norbert Benecke</b>
13:30	68: Analysis of Dynamic Surface Motion Elements in Hard Coal Underground Areas by using GPS Measurements <b>Prof Michael Hegemann</b>	69: Applications of Mobile Laser Scanning in an Enderground Environment <b>Mr Anthony Ricciardi</b>
13:50	108: Geosensor Networks and its Applications in Coal Mine Ground Disasters Precision Monitoring <b>Mr Jin Zhang</b>	124: 3dQLD Roadmap - a pathway to better mining survey integration with cadastre and greater spatial enablement <b>Mr Lee Helen, Mr Callum Mcnaughton</b>
14:10	123: Terrestrial laser scanning monitoring and spatial analysis of mine ground disaster <b>Prof Haifeng Hu</b>	
14:30 - 15:00	<b>Afternoon Tea Break, Trade Exhibition and Poster Viewing</b>	
	<b>Boulevard Auditorium</b>	<b>B1&amp;B2</b>
	<b>Annual General Meetings</b>	
15:00 - 17:00	Australian Institute of Mine Surveyors AGM	International Society for Mine Surveying AGM
19:00 - 23:00	<b>Congress Gala Dinner and Awards Evening,</b> Brisbane City Hall	



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	Thursday, 15 September 2016	
	Boulevard Auditorium	
	Plenary Session	
	Mr Timothy Hyde - Master of Ceremonies	
09:00	Keynote Address from the future President of AIMS	
09:30	Modern trends in mine surveying education Prof Anatoly Okhotin, 2017 ISM President	
10:00 - 10:30	Morning Tea Break, Trade Exhibition and Poster Viewing	
10:30 - 12:30	Boulevard Auditorium Education Forum	B1&B2 Mini-Oral Presentations
	Chairperson: Dr Gareth Powell & Mr Callum McNaughton	Chairperson: Prof Stanislav Topalov
10:30	ISM & AIMS Education Forum	24: Change Detection Analysis Using Airborne Lidar: Open Cut Mine Environment Dr Hong Joo Park
10:40		25: 3D Modelling in Coal Stockpile Area Using UAV data: Open Cut Mine Environment Dr Hong Joo Park
10:50		46: Analysis of mining deformations based on PSInSAR – case study of the Walbrzych coal mines (Poland) Dr Jan Błachowski, Dr Wojciech Milczarek
11:00		96: Deformations monitoring of underground excavation of Lubin Mine with application of laser scanning Dr Tomasz Stoch
11:10		
11:20		
12:30 - 13:30	Lunch Break, Trade Exhibition and Poster Viewing	
	Boulevard Auditorium	
13:30 - 15:00	Education Forum	A Look Back in Time
	ISM & AIMS Education Forum Cont.	Progress in Mining and Mine Surveying Equipment Barry Burrows
		History of Ipswich Greg Frankish
15:00 - 15:30	Afternoon Tea Break, Trade Exhibition and Poster Viewing	
	Boulevard Auditorium	
15:30	Closing Ceremony	
19:00 - 22:00	Offsite Networking Dinner, Level 12 Rooftop, Rydges South Bank	
	Friday, 16 September 2016	
All Day	Technical Tour New Acland Mine, Darling Downs QLD	