

WCSB8 8th World Conference on Sampling and Blending

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Day 1 – Tuesday 9 May 2017 Pan Pacific Hotel Perth, Golden Ballroom

	Session 1: Official Opening and Keynote Session Chair: Dr Ralph Holmes FAusIMM(CP), Conference Chair, Eighth World Conference on Sampling and Blending
8.30 am – 8.40 am	Welcome and OH&S Briefing: <i>Dr Ralph Holmes FAusIMM(CP), Conference Chair, Eighth World Conference on Sampling and Blending</i>
8.40 am – 8.50 am	Welcome to Country: <i>Reverend Sealin Garlett</i>
8.50 am – 9.00 am	Official Opening: <i>Pamela Naidoo-Ameglio MAusIMM, Board Director, the AusIMM</i>
9.00 am – 9.30 am	Keynote Presentation I: Integration of Visman and Ingamells' works into the Theory of Sampling – a necessity to expand possibilities in sampling practices — <i>Dr Francis Pitard, Francis Pitard Sampling Consultants, USA</i>
9.30 am – 9.50 am	Dependence of the variance of lot average on the sampling mode and heterogeneity type of the lot — <i>P Minkkinen</i>
9.50 am – 10.10 am	Evolution of the concept of liberation factor and a surprising new result — <i>Dr François-Bongarçon</i>
10.10 am – 10.30 am	The impact of the weighting error — <i>G J Lyman</i>
10.30 am – 11.00 am	Morning Tea Break and Exhibition, Grand River Ballroom
	Session 2: Theory of Sampling Session Chair: Dr Dominique François-Bongarçon, Agoratek
11.00 am – 11.20 am	A generalised form of Gy's equation for gold ores – empirical evidence — <i>R C A Minnitt</i>
11.20 am – 11.40 am	From errors to uncertainty – a clarification for proper use by the Theory of Sampling — <i>F F Pitard</i>
11.40 am – 12.00 pm	Theory of Sampling meets the National Science Foundation I-Corps™ program — <i>C Pinzón-de la Rosa, V Rodriguez, M Hormaza and R J Romañach</i>
12.00 am – 12.20 pm	Access, select, include – a review of the commercial sampling of traded bulk commodities in the context of Gy's Theory of Sampling — <i>D A Vogel</i>
12.20 pm – 12.40 pm	Variographic case study for designing, monitoring and optimising industrial measurement systems – the missing link in Lean and Six Sigma — <i>E Thisted, U Thisted, O Bøckman and K H Esbensen</i>
12.40 pm – 1.00 pm	Sampling hall of fame <i>versus</i> sampling hall of shame — <i>K H Esbensen</i>
1.00 pm – 2.00 pm	Lunch Break and Exhibition, Grand River Ballroom
	Session 3: Theory of Sampling and Geostatistics Session Chair: Dr Francis Pitard, Pitard Sampling Consultants
2.00 pm – 2.30 pm	Keynote Presentation II: Underground bulk sampling, uniform conditioning and conditional simulation – unrealistic expectations? — <i>Dr Isobel Clark, Geostokos Limited, Scotland</i>
2.30 pm – 2.50 pm	Theory of Sampling and geostatistics – the ultimate link — <i>D François-Bongarçon</i>
2.50 pm – 3.10 pm	Bailer uncertainty evaluation in a lithium salar deposit — <i>S A Séguret, P Goblet, E Cordier and A Galli</i>
3.10 pm – 3.30 pm	Optimising multivariate variographic analysis with information from multivariate process data modelling (PLS regression) — <i>Q Dehaine, L O Filippov and H J Glass</i>
3.30 pm – 4.00 pm	Afternoon Tea Break and Exhibition, Grand River Ballroom
	Session 4: Drill and Blasthole Sampling Session Chair: Boyne Hohenstein MAusIMM, IMP Group
4.00 pm – 4.20 pm	Blasthole sampling (replicate and variographic experiments) in LKAB open pit iron ore mines – fit-for-purpose representativity? — <i>K Engström and K H Esbensen</i>
4.20 pm – 4.40 pm	Heterogeneity tests and core logging – a final reconciliation — <i>F L S P Villanova, A Heberle and A C Chierigati</i>
4.40 pm – 5.00pm	Theory of Sampling and geostatistics for twin drill holes analysis in a niobium mine in Araxá, Brazil — <i>M T G C Marques, T M El Hajj, J M Braga Jr, A C Chierigati and H Delboni Jr</i>
5.00 pm – 5.20 pm	Sampling coarse gold-bearing mineralisation – developing effective protocols and a case study from the Ballarat mine, Australia — <i>S C Dominy</i>
5.30 pm – 7.30 pm	Welcome Reception, Grand River Ballroom

Day 2 – Wednesday 10 May 2017

Pan Pacific Hotel Perth, Golden Ballroom

	Session 5: Process Analytical Technology (PAT) Session Chair: Dr Kim Esbensen, KHE Consulting
8.30 am – 8.35 am	Day 2 Welcome
8.35 am – 9.05 am	Keynote Presentation III: Theory of Sampling – from missing link to key enabler for process analytical technology — <i>Dr Rodolfo Romañach, University of Puerto Rico, Mayaguez</i>
9.05 am – 9.25 am	Proposed workflows for portable X-ray fluorescence and near infrared instruments for soil and drill hole sampling — <i>N H Jansen and H L Bridgwater</i>
9.25 am – 9.45 am	Online X-ray fluorescence spectrometer for accurate monitoring and improving blending sharpness in liquid production processes — <i>M G C Zootjes, T van der Maten, L Kempnaers and U König</i>
9.45 am – 10.05 am	An automatic sampling methodology to determine contractual particle size distribution in rapid train load out stations — <i>S C Labram and A Stabile</i>
10.05 am – 10.25 am	Inline analysis of washability parameters for process control — <i>C C Bachmann, J F Bachmann, M P Cipold, H B Wurst and J Ha</i>
10.25 am – 10.55 am	Morning Tea Break and Exhibition, Grand River Ballroom
	Session 6: Quality Control and Sampling Mineral Commodities Session Chair: Darryl Stevens FAusIMM, FLSmidth
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10.55 am – 11.15 am	Use of variography to measure improvement of sampling practices for the quality control of graphite consistency in marble used for carbon-sensitive applications — <i>C Haughey and F F Pitard</i>
11.15 am – 11.35 am	A new approach to implement quality assurance and quality control to technological innovations – quality of spectral data capture and processes in the minerals industry — <i>D Mittrup, O Dominguez and M Haest</i>
11.35 am – 11.55 am	Geometallurgical sampling protocol validation by bulk sampling in a sheeted vein gold deposit — <i>S C Dominy, L O'Connor, Y Xie and H J Glass</i>
11.55 am – 12.15 pm	A practical guide to sampling in coal preparation plants — <i>B W Atkinson and J Docherty</i>
12.15 pm – 12.35 pm	Common pitfalls in sampling iron ore — <i>R J Holmes</i>
12.35 pm – 12.55 pm	Sampling for the percentage moisture in the iron ore industry — <i>B Ziegelaar and M Fritz</i>
12.55 pm – 1.55 pm	Lunch Break and Exhibition, Grand River Ballroom
	Session 7: Environmental Sampling and Monitoring Session Chair: Jim Docherty, SGS Australia
1.55 pm – 2.25 pm	Keynote Presentation IV: Sampling and blending in geoenvironmental campaigns – current practice and future opportunities — <i>Dr Anita Parbhakar-Fox, University of Tasmania</i>
2.25 pm – 2.45 pm	Plastics recycling and sampling — <i>H J Glass and S C Dominy</i>
2.45 pm – 3.05 pm	Sampling, monitoring and source tracking of dioxins in the environment of an incinerator in the Netherlands — <i>A Arkenbout and K H Esbensen</i>
3.05 pm – 3.25 pm	Online quality control of a coal blending yard — <i>J F Bachmann, C C Bachmann, M P Cipold and J Ha</i>
3.25 pm – 3.55 pm	Afternoon Tea Break and Exhibition, Grand River Ballroom
	Session 8: Forum Session Session Chair: Dr Ralph Holmes FAusIMM(CP), Conference Chair, Eighth World Conference on Sampling and Blending
3.55 pm – 4.00 pm	Women in Mining (WIMnet) Presentation — <i>Michelle Helm MAusIMM</i>
4.00 pm – 4.05 pm	Young Professionals Presentation
4.05 pm – 4.50 pm	Expert Panel – Q&A Session
4.50 pm – 5.05 pm	International Pierre Gy Sampling Association
5.05 pm – 5.20 pm	Arrangements for the Ninth World Conference on Sampling and Blending (WCSB9)
5.30 pm – 6.30 pm	Networking Hour, Grand River Ballroom
7.00 pm for 7.30 pm	Conference Dinner, Golden Ballroom

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Day 3 – Thursday 11 May 2017 Pan Pacific Hotel Perth, Golden Ballroom

	Session 9: Pierre Gy Oration and Metallurgical Accounting Session Chair: Allan Stabile, Thermo Fisher Scientific	Sponsored by:
8.30 am – 8.35 am	Day 3 Welcome	
8.35 am – 9.05 am	Pierre Gy Gold Medal Oration: <i>WCSB8 Pierre Gy Sampling Gold Medal Recipient</i>	
9.05 am – 9.35 am	Keynote Presentation V: Sampling the supergiant Olympic Dam iron-oxide Cu-U-Au-Ag deposit, South Australia — <i>Kathy Ehrig, BHP Billiton Olympic Dam</i>	
9.35 am – 9.55 am	The benefits of automated metallurgical accounting for plant sampling — <i>J P Vagenas and D W Wall</i>	
9.55 am – 10.15 am	Validation of a modified cross-belt sampler for reconciliation purposes — <i>A C Chierigati, E A Amaral Jr and J C O Souza</i>	
10.15 am – 10.35 am	Does process control sampling always have to be a compromise? — <i>R C Steinhaus, J J Rust and M Singh</i>	
10.35 am – 11.05 am	Morning Tea Break and Exhibition, Grand River Ballroom	
	Session 10: New Developments and Equipment Session Chair: Oscar Dominguez MAusIMM, BHP Billiton	Sponsored by:
11.05 am – 11.25 am	Quantifying segregation of minerals and metals in particulate materials using computed X-ray tomography and variography — <i>R C A Minnitt, T Jashashvili, G Gilchrist and S C Dominy</i>	
11.25 am – 11.45 am	Near real-time assay with down hole assay tool (FastGrade™ 100) — <i>B Chi, R A M Maddever, A Mahanta and O Dominguez</i>	
11.45 am – 12.05 pm	New online/atline splitter designs for laboratory automation – feasibility results — <i>M Lischka, A Hollweg and K H Esbensen</i>	
12.05 pm – 12.25 pm	Pitfalls in Vezin sampling for finely crushed materials — <i>C J Kruger and E le Roux</i>	
12.25 pm – 12.45 pm	Modelling ore flow in the design of high-capacity sample cutters — <i>M Hidding and R Shaw</i>	
12.45 pm – 1.05 pm	Comparative evaluation of manual sampling and Outotec MSA 2/50 metallurgical slurry sampler — <i>J Loimi, P Minkkinen and T Korpela</i>	
1.05 pm – 2.05 pm	Lunch Break and Exhibition, Grand River Ballroom	
	Session 11: Sampling of Agricultural and Biomass Products Session Chair: Dr Simon Dominy FAusIMM(CP), Strategia Worldwide & University of Exeter	
2.05 pm – 2.35 pm	Keynote Presentation VI: Assessing and monitoring food and feed safety – a 15 year quest for proper sampling — <i>Dr Claudia Paoletti, European Food Safety Authority (EFSA)</i>	
2.35 pm – 2.55 pm	The sampling characteristics of grains contaminated by mycotoxins — <i>G J Lyman and S A Tittlemier</i>	
2.55 pm – 3.15 pm	ISO TC 34/SC 16 horizontal methods for molecular biomarker analysis – molecular biomarker analysis and sampling management system — <i>M D Sussman</i>	
3.15 pm – 3.35 pm	A new sampler for grain and other free-flowing particulates — <i>G J Lyman</i>	
3.35 pm – 4.00 pm	Afternoon Tea Break and Exhibition, Grand River Ballroom	
	Session 12: Future Directions and Conference Close Session Chair: Dr Claudia Paoletti, European Food Safety Authority	
4.00 pm – 4.30 pm	Keynote Presentation VII: Theory of Sampling – what's next? — <i>Dr Kim Esbensen, KHE Consulting</i>	
4.30 pm – 5.00 pm	Conference Close: <i>Dr Ralph Holmes FAusIMM(CP), Conference Chair, Eighth World Conference on Sampling and Blending</i>	