Hybrid Conference

25 - 27 November 2026

World Conference on Sampling and Blending (WCSB12)

CONFERENCE PROGRAMME

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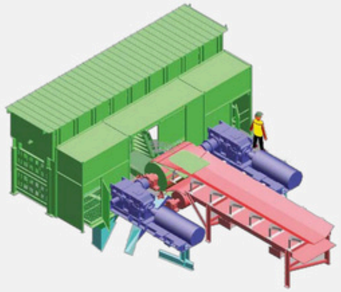
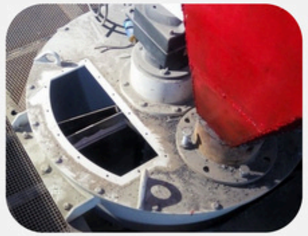
FROM SAMPLING TO ANALYSIS



- Samplers & Sample-takers
- Complete Sampling stations
- Sample transport
- Sample preparation
- Semi-Automatic and Automatic Mill & Press
- Automatic analyzers
- Centralized laboratory



KILN SEALING

- For rotary kiln, calciner, dryer
- Inlet and outlet seals

BALL SORTING MACHINE

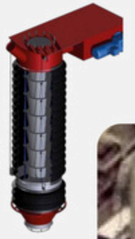
- Automatic grinding balls sorting machine

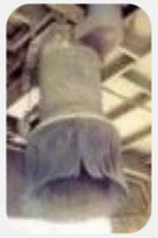
INSTRUMENTATION

- Level detection (& blockage)
- Contactless detection
- Heavy-duty under-speed detector
- Electronic ear for ball mills
- Level measurement

LOADING

- Lump breaker
- Loading spout
- Loading trolley





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Wednesday 25 November

0900 - 0930	**Registration Opens, Refreshments**	
0930 - 0940	Welcome Address	Simon Dominy & Hylke Glass
Session one: Mining & Minerals | Chaired by Claudia Paoletti		
0940 -1020	**Keynote:** The Hidden Cost of Poor Sampling: Quantifying Financial Losses in Grade Control Practice	Ana Chieregati, *University of Sao Paulo*
1020 - 1040	Split Ratio Dependence of Variance Suppression in Rotary Versus Riffle Sample Splitting	Richard Minnitt, *University of the Witwatersrand*
1040 - 1100	Sampling Difficulty Index	Dominique Francois-Bongarcon, *AGORATEK International*
1100 - 1110	Q&A	
1110 - 1130	**Refreshments**	
Session two: Open | Chaired by Stephane Brochot		
1130 - 1150	Mind the Gap: Annex G - Balancing Sampling Intent with Practical Operational Constraints	Kevin Tucker, *Independant Consultant*
1150 - 1210	The Integrated Reference Core Shed: Infrastructure as an Enabler of Sampling Quality Management	Rodrigo Valdes, *Independant Consultant*
1210 - 1230	Representative Sampling in Mineral Processing: TOS Compliance in a Consolidating Global Supply Market	Christopher Gianatti, *CONSEP*
1230 - 1245	Q&A	
1245 - 1345	**Lunch**	
Session two: Open continued... | Chaired by Kim Esbensen		
1345 - 1425	**Keynote:** Uphill both ways: Improving sampling in the field of food and agriculture	Sheryl Tittlemier, *Canadian Grain Commission*
1425 - 1445	Evaluation of a Feed Stream Measurement System in a PGM Concentrator Plant using Replication Experiment, Variography,	Charles Tonongei, *University of Johannesburg*
1445 - 1505	Overcoming Practical Sampling Challenges at a PGM Smelting Operation Towards Theory of Sampling Compliance and Improved Quality Assurance.	Pieter Oelofse, *Northam Platinum*
1505 - 1515	Q&A	
1515 - 1535	**Refreshments**	

Session three: Gold | Chaired by Hylke Glass		
1535 - 1555	Sampling of Conglomerate-Hosted Nuggety Gold in the Pilbara, Western Australia	Simon Dominy, *Camborne School of Mines*
1555 - 1615	Core Saw Sampling: An In-Field, Rapid Alternative for Gold and Multi-Element Analyses of Drill Core Samples	Steve Russell, *Portable PPB*
1615 - 1635	Direct Measurement of Laboratory Sampling Precision in Gold Ores: A Complement to “Gy's Formula”	James Tickner, *Chrysos Corporation*
1635 - 1655	A Robust Sampling and Quality Management Framework Enabling MILP Production Optimization at Sukari Gold Mine	Shehata Mekawy, *Sukari Gold Mine (AngloGold Ashanti) (Virtual)*
1655 - 1710	Q&A	
1710 - 1810	**Drinks Reception**	

Thursday 26 November

0900 - 0930	**Registration Opens, Refreshments**	
0930 - 0935	Welcome Address	Simon Dominy
Session four: Environment & Recycling | Chaired by Sheryl Tittlemier		
0935 - 1015	**Keynote:** From Accepted Practice to Sampling Reliability: Challenges in introducing TOS into Environmental Site Assessment	Jean-Sébastien Dubé, *École de Technologie Supérieure*
1015 - 1035	Sampling of End-of-life Batteries for Recycling	Stephane Brochot, CASPEO
1035 - 1055	Size-Grade Heterogeneity and Fundamental Sampling Error in Milled Autocatalysts: Implications for PGM Recycling Practice	Christopher Jeremiah, *BASF Metals LLC*
1055 - 1105	Q&A	
1105 - 1135	**Refreshments**	
Session five: Plants & Concentrates | Chaired by Dick Minnitt		
1135 - 1155	Ways-and-means to Get the Advantage Over Opponents in Minerals Mining, Trading and Refinement Settlement Agreements – If Your Opponent is Not Smarter than you	Kim Esbensen, *KHE Consulting*

Session five: Plants & Concentrates continued... | Chaired by Dick Minnitt		
1155 - 1215	Variography Applied to Sampling a Carbon-in-Leach (CIL) Plant	Hylke J. Glass, *Camborne School of Mines*
1215 - 1235	Is TOS Knowledge Homogeneously Distributed? A Manufacturer's Field Report	Phillippe Davin, *Iteca Socadei*
1235 - 1255	Brownfields Replacement of a Non-Probalistic, Stationary 5-cutter Device with a TOS Compliant Launder Sampler System; Novel Variographic Quantification of the Sampling Improvement on a Copper Flotation Product Stream	Willem Slabbert, *Multotec Process Equipment* & Petrus Oelofse, *Northam Platinum*
1255 - 1310	Q&A	
1310 - 1410	**Lunch**	
IPGSA | Chaired by Simon Dominy		
1410 - 1430	Two years Since IPGSA's New Beginning	Claudia Paoletti, *European Food Agency*
1430 - 1440	SST: The Forefront of TOS Developments	Kim Esbensen, *KHE Consulting*
1440 - 1450	IPGSA Website and Communications	Martin Lischka, *HERZOG*
1450 - 1500	IPGSA Training Service	Oscar Dominguez, *AngloGold Ashanti*
1500 - 1510	Stakeholder Updates: New Membership Options Underway	Aldwin Vogel, *Bureau Veritas*
1510 - 1530	Q&A: Discussing IPGSA's Future	IPGSA Council
1530 - 1600	**Refreshments**	
1600 - 1610	Announcing the Host for WCSB13	Ralph Holmes, *IPGSA President*
1610 - 1630	Presentation by the WCSB13 Host Organisation	TBA
1630 - 1710	Gold Medal Ceremony	Gold Medal Committee

Friday 27 November

0900 - 0930	**Registration opens, refreshments**
0930 - 0935	Welcome address

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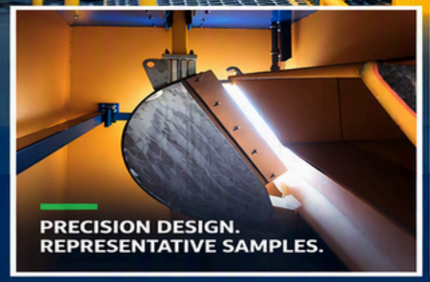

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0900 - 0930	**Registration opens, refreshments**	
0930 - 0935	Welcome address	
Session six: Open | Chaired by Phillippe Davin		
0935 - 1015	**Keynote:** Is the Mining Industry Really Prepared for Artificial Intelligence? The Enabling Role of Quality Management for Representative Samples and Data...	Oscar Dominguez, *AngloGold Ashanti*
1015 - 1035	Representative Sampling of Dense Powder/Granule Streams for Inline PAT Prediction of Blend Uniformity	Manuel Kuhs, *Expo Process Analytics*
1035 - 1055	Real Time Sampling and Analysis of Pharmaceutical Powder Blends At Kilograms per Hour	Rodolfo J Romañach, *University of Puerto Rico*
1055 -1105	Q&A	
1105 - 1135	**Refreshments**	
Session seven: TOS Education | Chaired by Ralph Holmes		
1135 - 1155	Theory of Sampling (TOS) – Introductory Interactive Infographic	Chris Robben, *SIX-S Consulting*
1155 - 1215	The Power of Education and Wide Understanding of The Theory of Sampling	Karin Engström, *LKAB*
1215 -1235	Simple Sampling: Understanding the Logic With No Math	Claudia Paoletti, *European Food Safety Authority*
1235 - 1250	Q&A	
1250 - 1350	**Lunch**	
Session eight: Pharma & Agriculture | Chaired by Martin Lishka		
1350 - 1430	**Keynote:** Theory of Sampling for Quality Medicines	Rodolfo J Romañach, *University of Puerto Rico*
1430 - 1450	Characterizing Within- and Between-Plant Variability of Mycotoxins in Barley	Sheryl Tittlemier, *Canadian Grain Commission*
1450 - 1510	Extending Variables Acceptance Sampling Beyond Normality: Beta Plan Design for Food Quality	Ha Troung, *Auckland University of Technology*

1510 - 1530	Acceptance Sampling Plans for Food in the Case of Heterogeneous Bulk Materials	Bertrand Colson, *QuoData GmbH (Virtual)*
1530 - 1545	Q&A	
1545 - 1615	**Refreshments**	
Session eight: Process Sampling | Chaired by Karin Engström		
1615 - 1635	Do We Need to Sample Process Water?	Reinaldo Novaes, FLS
1635 - 1655	Sampling Assurance: Lessons from Auditing Mechanical Sampling Systems and Laboratory Practices Across Australian Coal Operations	Damien Russell, *Russell Resource Group*
1655 - 1715	SRS - Sampling Reduction System / / SRM - Sistema de Reducción de Muestra	Pablo Villarroel & Alexander Kaercher, *TECPROMIN S.A.*
1715 - 1730	Q&A	
1730 - 1740	Closing words	Simon Dominy & Hylke Glass

Title of Poster	Author
Field Duplicates as a Tool to Evaluate Sampling Uncertainty and Its Effect on Ore Classification in an Ag–Pb–Zn Epithermal Vein Deposit.	Claudia Nalleli Ortega Santillán, S*IG-Independent Geological Consultant*
A Proactive Approach on Quality Management for RC UG Drilling Rig	Édipo Pessoa, *CREA*
A Practitioner's Primer on Correct Sampling in the Minerals Industry: From Protocol to Audit	Richard Minnitt, *University of Witwatersrand*
Teaching Sampling – It’s Not That Simple!	Stephane Brochot, *CASPEO*
Performance Analysis of the BX-LXD Linear Cross Splitter for Productive and Efficient Representative Sample Division	Steven Denis Russell, *Portable PPB*
Best Practice Sample Preparation By Sieving; Fit-For-Purpose Methods for In-Field Exploration Sampling	Steven Denis Russell, *Portable PPB*

Convenors:

- **Dr Simon Dominy** (Camborne School of Mines, University of Exeter)
- **Professor Hylke Glass** (Camborne School of Mines, University of Exeter)

The Convenors would like to thank the IPGSA Council who have provided assistance throughout the planning and delivery of WCSB12

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