

# PRELIMINARY PROGRAM SAMPLING 2018

I INTERNATIONAL CONGRESS ON MINERALS SAMPLING

Thursday 25 and Friday 26 October 2018 | 8:30 a.m. to 7:00 p.m.



## THURSDAY OCTOBER 25th

07:30 am Registration.

08:30 am Opening. Welcoming words. Dr Pitard and organizing committee.

### SESSION I

- 08:50 am A Guideline for Sampling Systems and Sampling Protocols to Minimize Reconciliation Problems Between Geologists, Miners, and Metallurgists. **Francis Pitard. Francis Pitard Sampling Consultants. USA.**
- 09:30 am Benefits of considering a metallurgical sampling station in norm at the initial stage of the project. **Ruben Aravena Z. Rodrigo Morales D. TECPROMIN. Chile.**
- 10:00 am Copper Mineral Concentrates Sampling scheme simulation. **Omar Leva. Sociedad Minera El Brocal. Perú.**
- 10:25 am Quality Management (QM), the engine of the QAQC process. **Oscar Dominguez. BHP Billiton Geoscience Centre of Excellence. Australia.**
- 10:50 am **COFFEE BREAK I**

### SESSION II

- 11:20 am Impala Terminals: Pioneers in implementing robotic technology for the sampling of concentrates in Peru. **Cristiaan Landeo. Impala Terminals. Perú.**
- 12:00 am Metallurgical Accounting. **Rodrigo R. Carneiro. SGS. USA.**
- 12:25 am Linear Sampling System. **Patricio Valenzuela. CODELCO. CHILE.**
- 12:55 am **RECESS.**

### SESSION III

- 14:10 pm Validation of a new cross-belt cutter for sampling gold. **Ana Carolina Chieregati, Edvaldo Alves Amaral Jr., Janine Cerqueira de Oliveira Souza. Yamana Gold Inc. University of São Paulo. BRAZIL.**
- 14:35 pm The nugget effect in geostatistical simulation. **Daisy Arroyo. Universidad de Concepción. CHILE.**
- 15:00 pm Variographic test and extension error. **Vlândia Cristina Gonçalves De Souza. Universidade Federal do Rio Grande do Sul. Departamento de Engenharia de Minas-DEMIN. Brasil.**
- 15:25 pm The Gravity Gold Concentrator – applications, advantages and optimisation for challenging gold samples. **Steve Russell, Ross Cunningham, Andrew Mowlem. Scott Automation. RockLabs. NUEVA ZELANDA.**
- 15:50 pm FLSmidth lecture to be agreed. **Reinaldo Novaes. FLSmidth.**
- 16:15 pm **COFFEE BREAK II**

### SESSION IV

- 16:45 pm Estimating the Heterogeneity Fluctuation Error of a willemite plant feed. **F. Campos, A.C. Chieregati, T. Nunan, W. Rodrigues. Votorantim Metais. BRASIL.**
- 17:10 pm Importance of calculation of density estimation of resources, reservations and conciliation for copper deposits in Cuajone Mine, Southern Peru. **Juver Vélez Ríos, Yuri Turpo Phuño. Southern Copper. PERÚ.**
- 17:35 pm Implementation of An Alternative Sampling Protocol at a Typical UG2 Concentrator in South Africa. **N. Sukha & C.J. Kruger. Anglo American Platinum. Anglo American. SUDÁFRICA.**
- 18:00 pm The Latest on Quantitative Sampling Theory: Liberation, Shape and Granulometric Factors. **Dominique Francois-Bongarcon. AGORATEK International Consultants Inc. CANADÁ.**
- 18:25 pm The universal power of Theory of Sampling (TOS) in practice. **Kim H. Esbensen. KHE Consulting. SUECIA.**
- 18:55 pm **COCKTAIL.**



# FRIDAY OCTOBER 26th

07:30 am Registration.

## SESSION V

- 08:30 am The use of duplicates, Thompson and Howarth method, on evaluation of sampling protocol, Cuiabá mine, Brazil. **V. Andrade, F. Villanova, J. Canela. AngloGold Ashanti, Federal University of Minas Gerais. BRAZIL.**
- 09:00 am Application of Pulp Quartering as an intermediate stage between the Automatic Plant Sampling Stations and the Laboratory. **Jorge L. Chávez. JKL Mineral Dressing. PERU.**
- 09:25 am Sampling for quality control in tailings storage facility. **Pablo Hinojosa. San Agustin National University. PERU.**
- 09:50 am The challenge of stationarity of observed process variability when using chronostatistics at the plant. **Francis Pitard. Francis Pitard Sampling Consultants. USA.**
- 10:15 am Optimal grade control sampling practice in open pit mining – A full-scale Blast Hole vs Reverse Circulation comparison variographic experiment. **K. Engström and K. Esbensen. LKAB Mining. SWEDEN.**
- 10:45 am **COFFEE BREAK III**

## SESSION VI

- 11:20 am A sampling practitioner's essential software toolbox based on the Theory of Sampling. **Maxime Pitard. HonuaTek. USA.**
- 11:45 am Localized sample selection for geometallurgical testing and modelling. **Yann Camus. SGS. CANADA.**
- 12:00 am The superiority of an equiprobabilistic in-line proportional cone sampling system for both material balance and process control. **Francis Pitard & Rolf Steinhaus. Francis Pitard Sampling Consultants. Multotec process equipment. SOUTH AFRICA.**
- 12:35 am Flaws in the Flows?. **Dominique Francois-Bongarcon. AGORATEK International Consultants Inc. CANADA.**
- 13:00 pm **RECESS.**

## SESSION VII

- 14:15 pm Variographic total process - and measurement system characterization across the complete ore-to-shipping value chain at LKAB. **K. Engström, and K. Esbensen, K.H. LKAB Mining. SWEDEN.**
- 14:40 pm Optimization of sampling practices at Corrego do Sitio metallurgical plant. **Marcus Félix Magalhães, Ana Carolina Chieregati, Vinícius Moreira Assis, Guilherme Costa Peixoto, Márcio Salgado Pereira. AngloGold Ashanti. BRAZIL.**
- 15:05 pm Certification of sampling station in accordance to the aluminum standards and the Theory of Sampling. **Bernardo Ferreira Bandeira, Ana Carolina Chieregati, Carlos Eduardo Paraizo Borges. Mineração Rio do Norte. BRAZIL.**
- 15:30 pm Quality control and sampling optimization aiming at reconciliation. **Luiz Eduardo Campos Pignatari, Ana Carolina Chieregati, Hermes Dodany Dominguez Monge, Luiz Carlos Guimarães Lima. Aura Minerals. HONDURAS.**
- 15:55 pm **COFFEE BREAK IV**

## SESSION VIII

- 16:30 pm Experts Panel. Discussion and main conclusions **Francis Pitard, Kim Esbensen, Dominique Francois-Bongarcon, Carolina Chieregati, entre otros.**
- 18:30 pm **CLOSURE COCKTAIL**

SEE THE PROGRAM AT: [www.encuentrometalurgia.com/Sampling-2018/](http://www.encuentrometalurgia.com/Sampling-2018/)

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