

# SAG CONFERENCE 2019 - PRELIMINARY AGENDA



Time	Monday September 23 Parq Grand Ballroom	Tuesday September 24 Parq Grand Ballroom	Wednesday September 25 Parq Grand Ballroom	Thursday September 26 Parq Grand Ballroom
8:00 - 10:00	<b>Chairman - Welcome and Opening Remarks</b>	<b>COMMINUTION DESIGN</b>	<b>OPTIMIZATION AND START-UP</b>	<b>COMMINUTION DESIGN</b>
8:00	<b>ENERGY EFFICIENCY</b>	Selection of the HPGR technology for the Côté Gold project: Evaluation of the impact on cost and metallurgy <i>Makni, Gagnon, Lapointe, Sato, &amp; Croteau</i>	Four Years into Operation – A Review of the Commissioning, Ramp-up and Current Performance of Las Bambas Concentrator in Peru <i>Meadows &amp; Lamb</i>	An Assessment of the Energy Efficiency and Operability of the World's Largest AG Mill at Aitik Boliden <i>Powell &amp; Yahyaei</i>
8:30	Where are the Opportunities in Comminution for Improved Energy Efficiency? <i>Lane, Hille, Pyle, &amp; Pease</i>	The Metcalf Concentrator HRC™3000: Performance at Variable Specific Force <i>Zervas</i>	Design and Start-up of the Merian SABC Circuit <i>Giblett, Davies, &amp; Dwi Payana</i>	Single Stage Autogenous Grinding Revisited <i>Lane, Fogliatto, &amp; de Paiva Bueno</i>
8:45	Reducing Energy and Water Consumption Through Alternative Comminution Circuits <i>Boylston, Hille, &amp; Lind</i>	HPGR at Tropicana Gold Mine – Case Study <i>Gardula, Das, &amp; Viljoen</i>	The Recent Advances of Raglan's Comminution Circuit <i>Tse, Nathan, Rosario, Proulx, &amp; Wang</i>	Single Stage SAG Mills – What are the Important Design Considerations to Avoid Common Pitfalls <i>Powell, Nyakunhwa &amp; Mainza</i>
9:00	A Summary of Energy Efficiency Opportunities for the Red Chris Comminution Circuits <i>Nadolski, Haycock, Sailer, &amp; Li</i>	Milling in Raffinate at the Mutoshi Mine <i>Bordi &amp; Green</i>	Improvement of CIS Standard Iron Ore Circuit by HPGR <i>Heinicke &amp; Hubert</i>	Toward a Simple Approach Determining Single Stage SAG Mills' Aspect Ratios (D/L) <i>Kalala</i>
9:15	Quantifying the Additional Energy Consumed by Ancillary Equipment and Embodied in Grinding Media in Comminution Circuits <i>Ballantyne</i>	HPGRs in Minerals: What do more than 50 Hard Rock HPGRs Tell us for the Future? (PART 2 – 2019) <i>Plath</i>	Optimisation Opportunities at Newmont Goldcorp's Peñasquito Operation <i>Chandramohan, Staples, Lane, Fogliatto, Awmack, Hille, Lind, Erwin, Patterson, &amp; Tweed</i>	Hard Rock – Crush it or Let it Break Itself? <i>Putland</i>
9:30	Question Period	Question Period	Question Period	Question Period
10:00	Break	Break	Break	Break
10:15 - 12:15	<b>OPTIMIZATION AND START-UP</b>	<b>OPTIMIZATION AND START-UP</b>	<b>DRIVES AND MAINTENANCE</b>	<b>PROCESS CONTROL</b>
10:15	Continuous Improvement at Sentinel (With Remote Grinding Support) <i>Kock, Lovatt, Butar, &amp; Becker</i>	Optimization of AG/SAG Circuits with Active Cone Crusher Control <i>Evertsson, Li, Hulthen, &amp; Lindqvist</i>	The Self-Aligning HofAlign Gear Reduces Pitting, Fatigue, Fracture, and Down-Time in Mine Mills <i>Hofmann</i>	A Structured Approach for Implementation of APC at FMI Cerro Verde <i>Supomo, Ortiz, Yopez, Nuñez, &amp; McKay</i>
10:30	Maintenance and Optimization Practices in the New Afton Grinding Circuit <i>Madsen &amp; Katchen</i>	SAG Mill Ball Charge Modelling at Mt. Milligan <i>Simonian, Peters, &amp; Doll</i>	ABB Ability™ - Digitalization of Predictive Maintenance for Grinding <i>Uzungelis &amp; Perrucci</i>	Advanced Control Optimization and Digital Twin in Comminution for Better Mineral Throughput and Size Classification <i>Nazari &amp; Carricajo</i>
10:45	Optimisation of Asanko's Obotan SABC Circuit to Achieve Project 5 MTPA <i>Morgan, Frost, Bradfor, Agbey, &amp; Grobler</i>	Design, Construction and Operating Experience of the SAG-Tower Mill Circuit at SEMAFO's Boungou Mine in Burkina Faso <i>Boylston &amp; Houde</i>	Using the "Two Mills One Drive" Concept to Save Operational Costs <i>O'Neill</i>	Sound based Advanced Process Control of a SAG Mill at Sumitomo Minera San Cristobal <i>Vidal</i>
11:00	Pre-Crushing of SAG Feed: Friend or Foe <i>Starkey, Senchenko, &amp; Reeves</i>	The impact of expanding screening capacity of the Kansanshi SAG Mill discharge on the overall circuit performance <i>Phiri &amp; Heath</i>	Asset Health Analytics of a Gearless Mill Drive <i>Tischler</i>	Wireless Sensor used to Determine Operational Variables in Semi-Autogenous Grinding Mills <i>Martinez, Duarte, Mascaró &amp; Castillo</i>
11:15	The Contrarian's Guide to SAG Mill Optimisation <i>Sherman</i>	Zinkgruvan Zinc Lead & AMP: Copper Concentrator Throughput Upgrade <i>Elphinston &amp; Fredriksson</i>	Continuous Improvements in Mill Relining at Escondida <i>Rubie, Gwynn-Jones, Vonhoff, &amp; Martinez</i>	BEST POSTER PRESENTATION <i>TBC</i>
11:30	Benchmarking Comminution Circuit Performance for Sustained Improvement <i>Giblett &amp; Ballantyne</i>	Resetting the Batu Hijau SAG Milling Circuit to Process Low Grade Stockpile Ore <i>Wirfjyata, Condari, Powell, &amp; Harding</i>	Increased Throughput from Liner Design Initiatives in the Aktogay 40 ft SAG Mill <i>Faulkner</i>	BEST POSTER PRESENTATION <i>TBC</i>
11:45	Question Period	Question Period	Question Period	Question Period
12:15	Lunch	Lunch	Lunch	Lunch
13:15 - 15:00	<b>TESTWORK</b>	<b>LINERS</b>	<b>LINERS</b>	<b>PROCESS CONTROL</b>
13:15	The risk of test work variability on mill design <i>Wang</i>	Implementing the first Thunderbolt Skyway for Relining the SAG Mills at Cobre Panama <i>Rubie, Ikaheimonen, &amp; Vonhoff</i>	Design of Gigantic Composite Liners for Large SAG Mill Application <i>Bustamante</i>	Challenges of using Advanced Control Tools (ACT) System at the Sarcheshmeh Copper Complex SAG Mill Circuit <i>Maleki-Moghaddam, Bashiri, Akbari, Yazdani &amp; Banisi</i>
13:30	Bond's Work Index: What it is and what it isn't <i>Doll &amp; Simonian</i>	Step Change Improvement in SAG Mill Liner Design to Increase Hard Rock Throughput <i>Grignon, Taghimohammadi, Virani, &amp; Masaun</i>	Comparative Study of Mill Discharge Systems using Coupled DEM SPH Simulations <i>Murariu</i>	Methodology for Assessing the Benefits of Grind Control Using PST Technology for True On-Line Particle Size Measurement <i>Sepúlveda, Cirulis, O'Kefe, &amp; Maron</i>
13:45	Comparative Study of Mechanical Properties of Pebbles within an Autogenous Grinding (AG) / Semi-Autogenous Grinding (SAG) Circuit <i>Jacobson</i>	The Design and Evaluation of SAG Mill Liner Trials <i>Toor</i>	Optimizing Pulp Lifter Design using SPH Simulation: Tritton Story <i>Weerasekara &amp; Town</i>	On-line Optical Monitoring of the SAG Mill Chamber <i>Sepúlveda &amp; Duarte</i>
14:00	A Review of 10 years of HPGR Pilot Tests at the University of British Columbia <i>Klien, Wang</i>	Grates plugging in SAG high diameter Mills: an overview of operational analysis <i>Olmedo &amp; Rioseco</i>	Field validation of an updated work approach applied to ball mill Megaliner designs <i>Suazo &amp; Jara</i>	SAG Mill Online Ball Charge Level Measurement by Sound <i>Churata</i>
14:15	The Value of Daily HIT Ore Hardness Testing of SAG Feed at the Meadowbank Gold Mine <i>Kojovic &amp; Leetmaa</i>	Effect of Ball Mill Liner Shape and Mill Speed on Grinding Efficiency at Detour Lake Grinding Circuit <i>Allaire, Torrealba, &amp; Dupont</i>	Grinding Media Size Selection – Is Bigger Really Better? <i>Cornish</i>	Teck's HVC Adaptive Cruise Control for Secondary Grinding <i>Nunez &amp; Hahn</i>
14:30	Question Period	Question Period	Question Period	Question Period
15:00	Break	Break	Break	Break
15:15 - 17:15	<b>GEOMET AND MINE TO MILL</b>	<b>MODELING AND DEM</b>	<b>COMMINUTION DESIGN</b>	<b>FINE GRINDING/CRUSHING</b>
15:15	Simulating the Impact of Ore Competence Variability on Process Performance - Case Study of a Large Copper Mine <i>Morrison, Kanchibotla, &amp; Faramarzi</i>	A Particle Scale Model for Complete Simulation of SAG Mill Process Performance <i>Cleary, Sinott, &amp; Morrison</i>	Optimizing Ball Mill Selection for a HPGR-Ball Mill Circuit <i>Vanderbeek, Burchart, Lipiec, Remmers, Mackert, &amp; Wong</i>	A Review of Published Full Scale Stirred Mill Results <i>Larson</i>
15:30	Advanced Mine-to-Mill Used to Unlock SABC Capacity at the Barrick Cortez Mine <i>Hilden, Powell, Monfils, Kanchibotla, Musunuri, Bozbay, Ray, Jokovic, &amp; Kaah</i>	Linking the Packed Bed Test to Full Size HRC™ Performance <i>Alkac, Qiu, Pate, Mular, &amp; Vien</i>	Reducing Edge Effect and Material Bypass Using Spring-Loaded Cheek Plates in HPGR Grinding <i>van der Ende</i>	Improving the Single Stage SAG Circuit Efficiency and Product Quality through Finish Grinding in the Tower Mill <i>Yahyaei, Palaniandy, &amp; Ishikawa</i>
15:45	Augmenting Traditional Mine-to-Mill with Cloud-Based Simulation and Reconciliation Capabilities <i>La Rosa, Beaton, Shapland, Aminj, &amp; Walkins</i>	Model Based Laboratory/Plant Scale-up of HPGR Circuit Performance <i>Sepúlveda, Tobar, Galdames, &amp; Figueroa</i>	HPGR: Why Skewing is a Requirement for Operational Applications <i>van der Meer, Hannot, Knapp</i>	Design and Operation of the Vertical Shaft Impactor in Fine Crushing Applications <i>Gray &amp; Rasmussen</i>
16:00	Drill-to-Mill Plant Optimization at Altynalmas Pustynnoye Gold Mine <i>Esen, Daniel, Dzhalolov, Bachramov, Geronimo, &amp; Kalmatayev</i>	The Natural Selection Function and Its Application to Crushing and Grinding <i>Vien</i>	Application of the Eccentric Rolls Crusher to SAG Milling <i>Lipiec, Drescher, Silvermann, &amp; Beland</i>	A History of IsaMill Progress at the Teck Red Dog Mine <i>Lacouture &amp; Larson</i>
16:15	Maintaining Consistent Performance from Two Identical SAG Mills Receiving Different Size Distribution <i>Draba, Bepswa, Mainza, &amp; Anyimadu</i>	Evaluating the Energy Performance of an SABC Circuit with Pre-Crusher Under a Dynamic Operating Condition <i>Gong, Liu, Wang, Klein, Sun &amp; Kou</i>	Estimating Ultra-fine Screening Performance and Efficiency <i>Bosman, Morgan, Zampini &amp; Cunningham</i>	A Method for Ball Mill Media Sizing for Different Upstream Processes <i>Mclvor, Bartholomew, &amp; Arafat</i>
16:30	Crush It! Challenge - Investigation of a Novel HPGR and Size Classification Circuit <i>Pearce, Gagnon, Klein, MacIver, Makni, Fisher, &amp; Kumar</i>	Using Modelling to Optimise a Single Stage SAG Circuit Operated in Closed Circuit with High Frequency Fine Screening Technology <i>Powell, Mainza, Ballantyne, Frausto-Gonzales, Runge, &amp; Mwale</i>	Redesigning SAG mill recycle crusher operation <i>Hilden; Powell, Mainza; &amp; Evertsson</i>	Contributing to a better understanding of grinding media wear - exploring the impact of different parameters <i>Radziszewski &amp; Martins</i>
16:45	Question Period	Question Period	Question Period	Question Period
17:15	Refreshments	Refreshments	Refreshments	Refreshments
18:15	Panel - Leadership & Diversity Panel Discussion Sponsored by Newmont Goldcorp	Panel - Women in Comminution Sponsored by Fluor	Panel - Student mentorship: addressing the age gap in mining Sponsored by Ausenco	Closing Banquet Dinner
21:15				