

41st Conference and Exhibition Final Program at a Glance - October 16, 2023

	LOCAL TIME										
	Brisbane	Beijing Perth	India	Dubai	Moscow	Athens	Paris Berlin	London	Sao Paulo	Montreal New York	
Introduction	13:40	11:40	9:10	7:40	6:40	5:40	4:40	3:40	0:40	22:40	
	14:10	12:10	9:40	8:10	7:10	6:10	5:10	4:10	1:10	23:10	
Start	14:20	12:20	9:50	8:20	7:20	6:20	5:20	4:20	1:20	23:20	
End	16:00	14:00	11:30	10:00	9:00	8:00	7:00	6:00	3:00	1:00	
Networking Break	16:00	14:00	11:30	10:00	9:00	8:00	7:00	6:00	3:00	1:00	
	16:30	14:30	12:00	10:30	9:30	8:30	7:30	6:30	3:30	1:30	
Start	16:30	14:30	12:00	10:30	9:30	8:30	7:30	6:30	3:30	1:30	
End	18:30	16:30	14:00	12:30	11:30	10:30	9:30	8:30	5:30	3:30	
Lunch Break	18:30	16:30	14:00	12:30	11:30	10:30	9:30	8:30	5:30	3:30	
	19:30	17:30	15:00	13:30	12:30	11:30	10:30	9:30	6:30	4:30	
Start	19:30	17:30	15:00	13:30	12:30	11:30	10:30	9:30	6:30	4:30	
End	20:50	18:50	16:20	14:50	13:50	12:50	11:50	10:50	7:50	5:50	
Break	20:50	18:50	16:20	14:50	13:50	12:50	11:50	10:50	7:50	5:50	
	21:00	19:00	16:30	15:00	14:00	13:00	12:00	11:00	8:00	6:00	
Start	21:00	19:00	16:30	15:00	14:00	13:00	12:00	11:00	8:00	6:00	
End	23:00	21:00	18:30	17:00	16:00	15:00	14:00	13:00	10:00	8:00	
Networking Break	23:00	21:00	18:30	17:00	16:00	15:00	14:00	13:00	10:00	8:00	
	23:20	21:20	18:50	17:20	16:20	15:20	14:20	13:20	10:20	8:20	
Start	23:20	21:20	18:50	17:20	16:20	15:20	14:20	13:20	10:20	8:20	
End	0:20	22:20	19:50	18:20	17:20	16:20	15:20	14:20	11:20	9:20	

Sunday 5th November	Day 1 Monday 6th November				Day 2 Tuesday 7th November				Day 3 Wednesday 8th November				Day 4 Thursday 9th November
	Stream 1	Stream 2	Stream 3	Stream 4	Stream 1	Stream 2	Stream 3	Stream 4	Stream 1	Stream 2	Stream 3	Stream 4	
	Conference introduction Host Sponsor Presentation				Delegate group photo								
	Technical session (5 papers)	Technical session (5 papers)	Technical session (5 papers)	Technical session (5 papers)	Technical session (5 papers)	Technical session (5 papers)	Technical session (5 papers)	Technical session (5 papers)	Technical session (5 papers)	Technical session (5 papers)	Technical session (5 papers)	Technical session (5 papers)	Outbond trip (two groups starting 7.00 am and 9.45 am)
	Technical session (6 papers)	Technical session (6 papers)	Technical session (6 papers)	Technical session (6 papers)	Technical session (6 papers)	Technical session (5 papers)	Technical session (5 papers)	Technical session (5 papers)	ICSOBA 60th anniversary: Alumina properties for aluminium electrolysis Interactive workshop				Field trip to EGA Al Taweelah plants Exact schedule TBD
IAI Bauxite and Alumina Committee (by invitation only)	Technical session (4 papers)	Technical session (4 papers)	Technical session (4 papers)	Technical session (4 papers)	Technical session (4 papers)	Technical session (4 papers)	Technical session (4 papers)	Technical session (4 papers)	Technical session (4 papers)		Technical session (4 papers)	Technical session (4 papers)	
	Keynotes session A (4 presentations and Q&A)				Keynotes session A (4 presentations and Q&A)				Keynotes session A (4 presentations and Q&A)				Return trip (two above groups returning 1 pm and 4.30 pm respectively)
	Corporate Members Council				Delegates Meeting				Best Papers Award Ceremony				

20:00 ICSOBA welcome cocktail	19:30 Social Event	20:00 ICSOBA Gala Dinner Sponsor's and Exhibitor's acknowledgment	19:30 Social Event
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Keynote session structure

Session Chair:	
20 minutes	Speaker presentation / no questions
40 minutes	Panel discussion and Q/A with speakers

Technical session structure

Session Chair:	
15 minutes	Speaker presentation
5 minutes	Q/A with speaker

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Final Speaker Program - Day 2 (Tuesday 7th November)

Dubai Time	#	Stream 1 Bauxite Residue	Stream 2 Bauxite, Alumina	Stream 3 Electrolysis	Stream 4 Electrodes, Electrolysis
		Session Chair: Ken Evans, IAI	Session Chair: TBC	Session Chair: Nadia Ahli, EGA	Session Chair: Asem Hussein, Elkem
8:20	1	BR05 Iron Source from Bauxite Residues by Using Microwave Technology Dimitris Sparis	AA20 Real time Prediction of Evaporator Circuit Performance Using ML Based Soft Sensors Ameet Chaure	AL30 The Role of New Sensors for Hall-Héroult Process Control, Optimization and Advanced Analytics Jayson Tessier	CB06 Bio-pitch Improvement For Coal Tar Pitch Replacement In Pre-baked Anodes Marie Aimee Tuyizere Flora
8:40	2	BR07 Experimental Study on Hydrogen Reduction of Bauxite Residue Pellets Using H ₂ -H ₂ O Mixtures Dali Hariswijaya	AA21 Optimization of Sodium Oxalate Removal within The Bayer Process Marc Thomas	AL32 Maintaining Optimal Setpoint Voltage in Smelter Pots Using Digital Technologies and ML Algorithms Dimitrios Karavas	CB07 Research on Premixed Stable Combustion Process of Vertical Shaft Furnace Chao Liu
9:00	3	BR06 Ferrotitanium Production from BR: A Study of the Aluminothermic Process Dimitris Sparis	AA22 Corrosion Inhibitor Use in the Gland Seal Water System of a Greenfield Alumina Refinery Mireille Wonoredjo	AL33 AI-Based Autonomous Cell Control in RA-550 Cell Technology Yuriy Shtefanyuk	CB08 Practical Use of Online Chemical Analyzer for Spent Anodes Quality Control Edouard Gerard Mengue Mofor (Petra Mühlen)
9:20	4	BR08 Sustainably Transforming Bauxite Residue into Critical Minerals Christopher Young	AA27 Digital Services for Alumina Refineries Andrei Panov	AL05 Critical Pots Index Report in EGA Potlines Sajid Hussan Faisal	CB09 Active Dust Aspiration During Packing Coke Filling Franck Fruleux
9:40	5	BR09 Technology of Scandium Oxide Production from Bauxite Residue Alexander Suss	AA28 LIBS – Emerging Technique of Real-Time Elemental Analysis for Process Control in Alumina Production Mindaugas Dailide	AL54 Model Predictive Control of Maintaining the Superheat of an Aluminium Smelting Cell during Power Modulation Luning Ma	CB10 Introduction of a Vertical Shaft Kiln Coke at Ma'aden Green Mill Manoj Kumar Mishra
10:00		<i>Break</i>	<i>Break</i>	<i>Break</i>	<i>Break</i>
		Session Chair: Markus Graefe, EGA	Session Chair: Emilio Dal Pai Neto, EGA	Session Chair: Vanderlei Gusberti, CAETE Engenharia	Session Chair: Rajesh Singh, BALCO
10:30	1	BR10 Flowsheets That Can Turn BR Into Building Materials And Save CO ₂ David Konlechner	AA25 A Sustainable and Substitute Energy Resource Model with LPG Utilization in the Alumina Production Process Ali Toptas	AL24 Experience with Homogeneous Cu Collector Bars Directly Fitted into Cathode Blocks Eirik Hagen	CB11 Challenges in Operation of Rodding Induction Furnaces in Ma'aden Arvind Kumar Verma
10:50	2	BR11 Scaling up Soil Conditioner Production Using Bauxite Residue and Oil Palm Wastes Caio Melo	AA26 Application of OT Cybersecurity in Alumina Refining Giovanni Djotiko	AL25 Collector Bar Copper Insert Design and Improvements in EGA Technologies Sheikha Almualla	CB12 Improvements in Baked Anode Quality through Reducing Process Variations and Debottlenecking Carbon Plant Rawa Nabeel Foad Ba Raheem
11:10	3	BR12 The use of Dealkalised Bauxite Residue in Cement Applications Panagiotis Davris	AA23 Carbon Footprint Reduction In Alumina Calciners Pungkuntran Jaganathan	AL26 Modelling Study of Impact of Copper Insert Design on Aluminium Reduction Cell Heat Balance and Voltage Alexander Mukhanov	CB13 Impact of Sulphur Content on the Electrical Resistivity of Carbon Anodes Khalil Khaji
11:30	4	BR13 Application of Synthetic Aggregate from Bauxite Residue in Structural Elements Caio Melo	AA24 Decarbonizing Alumina Calcination by Fuel Conversion Edgar Gasafi	AL47 Modelling Study of Bath Agitation by Bubbles and its Effect on the Bath-Metal Interface Stability Samuel Théberge	AL28 Fully Automated XRD Analysis of Electrolytic Bath– An Advanced and Flexible Approach for Rapid and Accurate Process Monitoring Sheida Makvandi
11:50	5	BR14 The Effects of Bauxite Residue on Mechanical and Architectural Properties of Portland Cement-Based Compositions Roberto Romano	BX09 Online Predictive Asset Monitoring Via Cloud Specialist System Jessica Almeida	AL49 Impact of Metal Pad Heave on Shell Temperature of Aluminum Reduction Cells Andre Felipe Schneider	AL29 Plant-Floor Chemical Composition Analysis of Liquid Aluminum Kristjan Leosson
12:10	6	BR04 Experimental Study on Mineral Phase Transformation - Low Intensity Magnetic Separation of High Iron Red Mud of Guinea Bauxite Jun Wei Ma			
12:30		<i>Break</i>	<i>Break</i>	<i>Break</i>	<i>Break</i>
		Session Chair: Steve Rosenberg, EGA	Session Chair: Caio Melo, Hydro	Session Chair: Andre Felipe Schneider, Hatch	Session Chair: Pablo Navarro, EGA
13:30	1	BR01 Mineralogical and Compositional Description of Al Taweelah Alumina Refinery's Bauxite Residue Markus Graefe	BX08 IoT Vibration Monitoring System Interfacing with PI System Jessica Almeida	AL51 Cathode Design Effects on MHD Stability of Aluminium Reduction Cells Marc Dupuis	AL31 Quick And Safe Replacement of an Existing Pot Control System by ALPSYS Jean-Louis Thibaut Mattei
13:50	2	BR02 Red to Green Projects in Alumina Refineries of Hindalco Vaishali Surawar	BX01 Pilot tests with Tertiary Cyclone for Reactive Silica Removal from Amazonian Bauxite Geraldo Duarte	AL48 Impact of Anode Change on MHD in Aluminum Reduction Cell Zhibin Zhao (Michael Anshan Ren)	AL36 Visualization of Anode Effect in High Temperature Transparent Aluminum Electrolysis Cell Bingliang Gao
14:10	3	BR03 Bauxite Residue Management Governance in the Americas and the Future Global Focus on Critical Minerals Shanti Persaud	BX02 Reactive Silica Reduction on Bauxite by Flotation Geraldo Duarte	AL50 Impact of TE-MHD Coupling on Cell Performance Louis Bugnion	AL53 Modeling of the Distribution of Alumina Aggregates in an Electrolysis Cell Based on a Multi-Slice Method Thomas Roger
14:30	4	BR15 The House of Bauxite Efthymios Balomenos	BX04 A Process for the Development of Calcined Bauxite from Ferruginous Bauxite Pravin Bhukte	AL52 A New Mechanical Model of Magnetohydrodynamic Instabilities in Aluminium Electrolysis Cells Marc Dupuis	AL55 A Study on Predicting Electrolyte Temperature of Aluminium Smelting Cells for Power Modulation Wong Choon Jie
14:50		<i>Break</i>			
		Session Chair: Martin Iffert, Martin Iffert Consulting			
15:00	1	KN05 Towards Carbon Neutral Primary Aluminium Smelting via Carbon Dioxide Capture (and Storage)		Stephan Broek	
15:20	2	KN06 The Aluminium Industry's Progress on Sustainability		Miles Prosser	
15:40	3	KN07 Future of Indian Aluminium Sector : Challenges and Progress		Sunil Gupta	
16:00	4	KN10 Digital Transformation : the EGA way		Paul-Antoine Calandreau	
16:20		Panel discussion and Q/A with speakers			

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Draft Speaker Program - Day 3 (Wednesday 8th November)

Dubai Time	#	Stream 1 Bauxite	Stream 2 Alumina	Stream 3 Electrolysis	Stream 4 Electrodes, Electrolysis
		Session Chair: TBC	Session Chair: Panagiotis Davris, Mytilineos	Session Chair: Stephan Broek, Kensington Technology	Session Chair: Rashid Muqbeli, Sohar Aluminium
8:20	1	BX05 Phase quantification of Bauxite by Thermogravimetric analysis Vinod Kumar Verma	AA29 Gallium Balance in a Greenfield Alumina Refinery Emilio Dal Pai Neto	AL13 Alumina Distribution and Transport System to Pots Retrofitted in EGA Jebel Ali Potlines 5 and 6 Raymond Johansen	CB14 Superior Sensitivity of Blaine Method Compared to Sieving Analysis of Ultrafines Francesco Carlos Baccalà
8:40	2	BX10 Performance changes in Alunorte Bauxite Dewatering Bruno Mendes	AA31 Extraction of Gallium from Jamaican Bayer Process Operations Tandose Sambo	AL14 Project Management of New Pot Feed and New Cranes Procurement at EGA Jebel Ali Potlines 5 and 6 Vivek Malang	CB15 Improving Prebaked Anodes Electrical Resistivity in Aluminium Bahrain "Alba" Rajesh Grag
9:00	3	BX11 Mechanism of Action of Filter Aids for Bauxite Concentrate Filtration and Performance Validation at Laboratory and Industrial Scale Bruno Fecchio	AA35 Morphological Studies on Spark Plug Grade Alumina for the Improvement of the Electro - Mechanical Properties of the Material Sagar Pandit	AL37 Retrofitted GTC Performs Better than New Geir Wedde	CB16 Electrical Resistivity and Baking Level Improvement through Anode Manufacturing Process Optimization Sasikumar Srinivasan
9:20	4	BX12 Cutting-edge Technology Supporting Hydro Paragominas Transmission Line Management System Jessica Almeida	AA34 New Products from RUSAL's Super-Fine Precipitated Aluminum Hydroxide Andrey Panov	AL38 Experiences with the REEL Heat Exchangers and HF Sniffers Installed at EGA Al Taweelah Mikkel Sørnum (Auhood Aljasmii)	CB17 How the CPC Specification and Smelter Strategies Impact Performance and Anode Quality Edouard Gerard Mengue Mofor
9:40	5	BX06 Lithological Layer Prediction (LLP) through Machine Learning in Mineral Exploration at Paragominas Bauxite Province, Brazil Jefferson Klister	AA36 Effect of Submicron Reactive Alumina on the Rheological and Physico-Mechanical Properties of Microsilica Free Low Cement Refractory Castable Sagar Pandit	AL40 Study of Gibbsite Effect on HF Emission in Aluminum Reduction Cells Ravi Selvaraj	CB18 Anode Properties Improvements at Sohar Aluminium Rashid Salim Rashid Khalfan Al Muqbali
10:00		Break	Break	Break	Break
10:30		ICSOBA 60th anniversary: Alumina properties for aluminium electrolysis Interactive workshop Panel: Jorg Ruster, Stephen Lindsay, Mark Taylor, Yves Ocello; Facilitators: Claude Ritter, Laurent Fiot			
	1	KN13 Smelter Grade Alumina Properties - The Alumina Refinery Challenge		Jorg Ruster	
	2	KN14 Smelter Grade Alumina Properties - The Smelter Requirements		Stephen Lindsay	
12:30		Break	Break	Break	Break
		Session Chair: Shanti Persaud, JBI		Session Chair: Shane Polle, EGA	Session Chair: Bingliang Gao, Northeastern University
13:30	1	BX15 Environmental Licensing Operational Plan for Mining Industries - A Case Study at Mineração Paragominas Jonilton Paschoal		AL41 Artificial Neural Networks for Predicting and Improving HF Generation and Recovery Efficiency Joseph Ndjebayi	AL23 Research and Application of Advanced Energy-Saving Technology for Aluminum Reduction Cells Yungang Ban
13:50	2	BX18 Optimization of the Environmental Recovery Process - An Alternative for Rehabilitating Failures in Recovered Areas Lívia de Paula		AL42 Effect of SO2 Concentration and Humidity on the Removal of SO2 from Cell Effluent Gases Using Hydrated Lime Karthikeyan Rajan (Duygu Evirgen Kocaefe)	AL10 Industrial Application of Double-Port Energy Saving Technology and HORRS System for Aluminum Electrolytic Cells Zhili Liang
14:10	3	BX16 Tailing Dam Closure with Revegetation: the Use of Green Manure for the Improvement of Technosoil Built from Bauxite Tailings Jonilton Paschoal		AL35 Low Bulk Density vs High Bulk Density Aluminium Fluoride: A Comparative Study on Flowability and Practical Applications in Aluminium Smelting Hanna Sjöberg (Jesper Holmquist)	AL16 Industrial Internet of Things Based Measurement Instrument in Potroom Bibhudatta Mohanty
14:30	4	BX19 Rehabilitation in a Bauxite Tailing Dam System: A Pilot Project Diogo Chevalier		AL12 Online Shunting of Pots in Hirkud Potline Sasikumar Srinivasan	AL27 Silicon Carbide Sideline Materials in Reduction Cells: Corrosion Resistance, Service Life and Testing Andrey Yurkov
14:50		Break			
		Session Chair: TBC			
15:00	1	KN08 Bauxite And Alumina Market Outlook - Upstream Investments Remain Attractive		Anthony Everiss	
15:20	2	KN09 Outlook For The Aluminium Market: The Shape of Things To Come		Uday Patel	
15:40	3	KN11 Navigating the Energy Crisis: Alunorte's Journey Towards Low Carbon Alumina and its Impact on the Global Aluminium Industry		Sandy Sutherland	
	4	KN12 Solar Energy for the Aluminum Industry's Transition into the Future		Markus Balz	
16:20		Panel discussion and Q/A with speakers			