

40th Conference
and Exhibition

ICSOBA 2022 Athens

10 - 14 October 2022

The International
Committee for Study
of Bauxite, Aluminium
& Alumina



ICSOBA
The Aluminium Industry Forum

TIME GUIDE

LOCAL TIME									
	Brisbane	Beijing	India	Dubai	Athens Moscow	Paris Berlin	London	Sao Paulo	Montreal New York
Introduction	15:30	13:30	10:30	9:30	8:30	7:30	6:30	2:30	1:30
Start	16:00	14:00	11:00	10:00	9:00	8:00	7:00	3:00	2:00
End	17:20	15:20	12:20	11:20	10:20	9:20	8:20	4:20	3:20
Coffee Break	17:20	15:20	12:20	11:20	10:20	9:20	8:20	4:20	3:20
Start	17:40	15:40	12:40	11:40	10:40	9:40	8:40	4:40	3:40
End	19:00	17:00	14:00	13:00	12:00	11:00	10:00	6:00	5:00
Lunch Break	19:00	17:00	14:00	13:00	12:00	11:00	10:00	6:00	5:00
Start	20:00	18:00	15:00	14:00	13:00	12:00	11:00	7:00	6:00
End	22:00	20:00	17:00	16:00	15:00	14:00	13:00	9:00	8:00
Break	22:00	20:00	17:00	16:00	15:00	14:00	13:00	9:00	8:00
Start	22:20	20:20	17:20	16:20	15:20	14:20	13:20	9:20	8:20
End	23:40	21:40	18:40	17:40	16:40	15:40	14:40	10:40	9:40
Coffee Break	23:40	21:40	18:40	17:40	16:40	15:40	14:40	10:40	9:40
Start	0:00	22:00	19:00	18:00	17:00	16:00	15:00	11:00	10:00
End	1:00	23:00	20:00	19:00	18:00	17:00	16:00	12:00	11:00
Break	1:00	23:00	20:00	19:00	18:00	17:00	16:00	12:00	11:00
Start	1:30	23:30	20:30	19:30	18:30	17:30	16:30	12:30	11:30
End	2:30	0:30	21:30	20:30	19:30	18:30	17:30	13:30	12:30

PROGRAM AT A GLANCE

		Events by International Aluminium Institute (IAI):								
Sunday 9 October		9:00 - 17:00								
		Bauxite & Alumina Committee (BAC) meeting								
		Workshop on decarbonisation in refining								
Monday 10 October		9:00 - 17:00								
		Organised by European Aluminium								
		Final RemovAL Cross-Fertilisation Workshop								
DAY 1 Tuesday 11 th October			DAY 2 Wednesday 12 th October			DAY 3 Thursday 13 th October				
Bauxite and Alumina (1)	Bauxite and Alumina (2)	Aluminium and Carbon	Bauxite and Alumina (1)	Bauxite and Alumina (2)	Aluminium and Carbon	Bauxite and Alumina (1)	Bauxite and Alumina (2)	Aluminium and Carbon		
Conference introduction Host Sponsor Presentation										
Technical session B&A01 (4 papers)	Technical session B&A02 (4 papers)	Technical session Al&C01 (4 papers)	Technical session B&A05 (4 papers)	Technical session B&A06 (4 papers)	Technical session Al&C05 (4 papers)	Technical session B&A09 (5 papers)	Technical session B&A10 (5 papers)	Technical session Al&C09 (4 papers)		
Technical session B&A03 (4 papers)	Technical session B&A04 (4 papers)	Technical session Al&C02 (4 papers)	Technical session B&A07 (4 papers)	Technical session B&A08 (4 papers)	Technical session Al&C06 (4 papers)	Technical session B&A11 (4 papers)	Technical session B&A12 (4 papers)	Technical session Al&C10 (4 papers)		
Keynotes session A (4 presentations)			Keynotes session B (4 presentations)			Keynotes session C (4 presentations)				
15:15 to 18:15 4th International Bauxite Residue Valorisation and Best Practices Conference (BR2022)			15:20 to 18:20 4th International Bauxite Residue Valorisation and Best Practices Conference (BR2022)			15:20 to 18:20 4th International Bauxite Residue Valorisation and Best Practices Conference (BR2022)				
			Technical session Al&C03 (4 papers)			Technical session Al&C07 (4 papers)				
			Technical session Al&C04 (3 papers)			Technical session Al&C08 (3 papers)				
						Technical session Al&C11 (4 papers)				
						Technical session Al&C12 (2 papers)				
Corporate Members Council			Members meeting			Best papers Award Ceremony				
ICSOBA Gala Dinner: 20:30			Cultural event: 21:00			ICSOBA Organizers and Sponsors Dinner 20:00				
Day 4 Friday 14 th Oct		Depart trip from hotel							08:00	
		Field trip to MYTILINEOS Agios Nikolaos plant								
		Return to the hotel							18:00	

KEYNOTE SPEAKERS PROGRAM

TUESDAY OCT. 11 TH				
KEYNOTE SESSION A			CHAIR: HOUSHANG ALAMDARI, MICHEL REVERDY	
Start	Code	Speaker	Title	Affiliation
13:00	KN01	Spyridon Kaldas	Mytilineos Bauxite to Aluminium Production, an Example of Competitive-ness Longevity	Vice-Chairman Mytilineos, Greece
13:30	KN02	Pierre Meynard	Aluminium Heritage	President, Institute for the History of Aluminium, Paris, France
14:00	KN03	Abdalla Alzarooni	EGA Story from Humble Beginnings to a Mega Smelter	EGA Vice President Technology Development & Transfer
14:30	KN04	Ron Knapp	China Hongqiao Group – A Leading Global Aluminum Producer. Moving from Heavy to Zero Carbon	International adviser, office of the Chairman, China Hongqiao Group Limited, Hongkong, China

WEDNESDAY OCT. 12 TH				
KEYNOTE SESSION B			CHAIR: CLAUDE VANVOREN, HOUSHANG ALAMDARI	
Start	Code	Speaker	Title	Affiliation
13:00	KN05	Bibhu Mishra	Next Decade for Indian Aluminium Industry	Head - Manufacturing Centre of Excellence, HINDALCO Industries Limited, Mumbai, India
13:30	KN06	Les Edwards	Quantifying the Carbon Footprint of the Alouette Primary Aluminum Smelter	Vice President Production Control and Technical Services, Rain Carbon Inc., Covington, LA, USA
14:00	KN07	Anupam Agnihotri	Framework to Drive Resource Efficiency and Circular Economy in Indian Aluminium Sector	Director of Jawaharlal Nehru Aluminium Research Development & Design Centre (JNARDDC), Nagpur, India
14:30	KN08	Christopher Baker	Performance Improvement in Alumina Refineries	Director – Refining Technology, Alcoa, Perth, Australia

THURSDAY OCT. 13 TH				
KEYNOTE SESSION C			CHAIR: NAJEEBA AL JABRI, MICHEL REVERDY	
Start	Code	Speaker	Title	Affiliation
13:00	KN09	Alan Clark	The Outlook for third Party Bauxite Trade and the Potential Impacts of Country Policies	Founder and a director of the CM Group, Glenelg, South Australia
13:30	KN10	Uday Patel	The outlook for the aluminium market in an uncertain world	Senior Research Manager, Global Aluminium Markets, Wood Mackenzie, London, United Kingdom
14:00	KN11	Lavinia Kugaswaran	Sustainable Development: Bauxite and Alumina	Environment (Bauxite & Alumina) Program Manager, International Aluminium Institute London, UK

SPEAKERS



Spyridon Kaldas



Pierre Meynard



Abdalla Alzarooni



Ron Knapp



Bibhu Mishra



Les Edwards



Anupam Agnihotri



Christopher Baker



Alan Clark



Uday Patel



Lavinia Kugaswaran

ICSOBA 2022 | DAY 1

BAUXITE, ALUMINA AND BAUXITE RESIDUE: STREAMS (1 & 2)



MYTILINEOS

Proud host sponsors to the 40th International Conference and Exhibition of ICSOBA 2022



ICSOBA 2022 : Day 1, Tuesday Oct. 11th – Start time is "Athens Time"

8:30-8:50	Conference opening – Host Sponsor presentation			ICSOBA / Mytilineos SA	
TECHNICAL SESSION: BAUXITE & ALUMINA – NEW TECHNOLOGIES CHAIR: STEVEN ROSENBERG				EGA	
Start time	Code	Speaker	Title	Affiliation	
B&A-01	9:00	AA01	David Konlechner	Bayer + Pedersen the Perfect Match for the Future of Alumina Production, with Benefits	KON Chemical Solution
	9:20	AA02	Camilla Sommerseth	A Techno-Economical Study Comparing the Bayer and Pedersen Processes for Alumina Production and Red Mud Treatment	SINTEF
	9:40	AA03	Michail Vafeias	Evaluation of Alternative Raw Materials and Processes for Alumina Production	NTUA
	10:00	AA04	Bijoy Satpathy	Processing Of Coal Fly Ash As An Alternate Resource For Alumina Ensuing Acid Leaching Route	CSIR
TECHNICAL SESSION: BAUXITE & ALUMINA – HANDLING AND STORAGE CHAIR: PANAGIOTIS DAVRIS				MYTILINEOS	
BR-01	9:00	BR03	Paulo Henrique Alfenas da Silva	Ensuring Safety of Bauxite Dams through Digitalization	Norsk Hydro
	9:20	BR04	Paulo Henrique Alfenas da Silva	Bauxite Residue Deposit Reclamation – A Pathway to Reintegration	Norsk Hydro
	9:40	BR08	Arthur Caer	Improvement of Dust Management at the Gardanne Alumina Production Plant BRDA	Alteo
	10:00	BR06	Paulo Henrique Alfenas da Silva	Stress-Strain Behavior of a Bauxite Tailings Dam Based on Field Monitoring Data	Norsk Hydro
10:20-10:40	Coffee break				
TECHNICAL SESSION: : BAUXITE & ALUMINA – RED SIDE CHAIR: ALBERT RIJKEBOER				RINALCO	
B&A-02	10:40	AA09	Denis Audet	Low costs Improvements to the Sandy DSP process	Audet Process Audit
	11:00	AA07	Vikas Kumar	Improving Ball Mill Efficiency Through Application Of Bauxite Grinding Aid	Hindalco
	11:20	AA11	Alpha Barry	Improved Red mud Flocculant	Sytec
	11:40	AA12	Sandrine Forsoni	Influence of Filter Media Design on Mechanical and Filtration Properties in the Alumina Industry	Sefar
TECHNICAL SESSION: : BAUXITE & BAUXITE RESIDUE – HANDLING AND STORAGE CHAIR: BIJOY SATPATHY				ICSOBA	
BR-02	10:40	BR07	Francesco Kaswalder	Case Study – Installation And Start Up Of A System For Red Mud Filtration With Filter Presses	Aqseptence Group
	11:00	BR05	Paulo Henrique Alfenas da Silva	Rheological Characterization of Filtered Bauxite Residue	Norsk Hydro
	11:20	BR02	Shanti Dewali Persaud	Examining the Bauxite Residue Framework in Jamaica	Jamaica Bauxite Institute
	11:40	BX03	Clara Souza	Study of Influences on the Productivity of Bauxite Slurry Hyperbaric Filtration through Box Behnken Design	Hydro
12:00-13:00	Lunch Break sponsored by Alba				
KEYNOTE SESSION A CHAIR: HOUSHANG ALAMDARI, MICHEL REVERDY					
KEYNOTE SESSION A	13:00	KN01	Spiros Kasdas	Mytilineos “Bauxite to Aluminium” Production, an Example of Competitiveness Longevity	Mytilineos
	13:30	KN02	Pierre Meynard	Aluminium Heritage	Institute for the history of aluminium
	14:00	KN03	Abdalla Alzarooni	EGA Story from Humble Beginnings to a Mega Smelter	EGA
	14:30	KN04	Ron Knapp	China Hongqiao Group – A Leading Global Aluminum Producer Moving from Heavy to Zero Carbon	China Hongqiao group
15:15-18:15	4th International Bauxite Residue Valorisation and Best Practices Conference (BR2022)				
18:30-19:30	ICSOBA Corporate membres coucil				
20:30-22:30	ICSOBA Gala Dinner				



Emirates Global Aluminium is the largest industrial company in the UAE outside oil and gas. Our aluminium is used in everything from smartphones to bullet trains and the world's inventors keep finding new ways to use it. We have contributed to the economic development of our country for decades, creating opportunity for people through innovation with a commitment to responsibility and safety. We make modern life possible.



Learn more at www.ega.ae

ICSOBA 2022 : Day 1, Tuesday Oct. 11th – Start time is "Athens Time"

8:30-8:50	Conference opening - Host Sponsor presentation				ICSOBA / Mytilineos SA
TECHNICAL SESSION: ALUMINIUM & CARBON – POTLINES CHAIR: VINKO POTOCNIK					Vinko Potocnik Consultant
Start time	Code	Speaker	Title		Affiliation
AL&C-01	9:00	AL01	Vinod Nair	Amperage Increase in DX+ Potline 3 in EGA Al Taweelah Smelter	EGA
	9:20	AL02	Nadia Ahli	ALBA Potline 6 Operation during Amperage Increase	EGA
	9:40	AL03	Abdallah Abdelrahman Rahbar	Potlines Extension Project in EGA Al Taweelah Smelter	EGA
	10:00	AL04	Mohammed Al Mudallwi Roa Al Shezawi	Anode Setting Pattern Changes in Sohar Potline Operation	Sohar Aluminium
10:20-10:40 Coffee break					
TECHNICAL SESSION: ALUMINIUM & CARBON – POTLINES/SUSTAINABILITY CHAIR: ABDALLA ALZAROONI					EGA
AL&C-02	10:40	AL05	Najeeba Al Jabri	Advanced Process Control with Smart Smelter Sensors at EGA	EGA
	11:00	AL06	Dagoberto Schubert Severo	Studying of Alumina Flow Using DEM Numerical Simulation	CAETE Engenharia
	11:20	AL07	Sayed Mohammed Majed	Performance of Gas Treatment Centers in the Shadow of Amperage Increase in Alba	ALBA
	11:40	ST01	Linlin Wu	Good Practice Guidance for Calculation of Primary Aluminium and Precursor Product Carbon Footprints	International Aluminium Institute
12:00-13:00 Lunch Break sponsored by Alba					
13:00-15:00 KEYNOTE SESSION A CHAIR: HOUSHANG ALAMDARI, MICHEL REVERDY					ICSOBA
KEYNOTE SESSION A	13:00	KN01	Spiros Kaldas	Mytilineos "Bauxite to Aluminium" Production, an Example of Competitiveness Longevity	Mytilineos
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	14:30	KN04	Ron Knapp	China Hongqiao Group – A Leading Global Aluminum Producer Moving from Heavy to Zero Carbon	China Hongqiao group
15:00-15:20 Break					
TECHNICAL SESSION: ALUMINIUM & CARBON – SUSTAINABILITY CHAIR: MICHEL REVERDY					EGA
AL&C-03	15:20	ST02	Predrag Jokovic	Climate Change Adaptation: Overarching Framework to Address Overlapping Industry Guidelines	Hatch
	15:40	ST04	Chrysa Politi	Hydrogen Exploitation on Extractive Industry Oriented to Green Electrification and Heat Production	National Technical University of Athens
	16:00	ST05	Hüseyin Ersoy	Circular Use of Aluminium as an Energy Carrier	Karlsruhe Institute of Technology
	16:20	ST06	Mariana Teixeira	Tailings Management to Enhance Safety, Sustainability and Transparency	Hatch
16:40-17:00 Coffee break					
TECHNICAL SESSION: ALUMINIUM & CARBON – SUSTAINABILITY CHAIR: ANDRÉ-FELIPE SCHNEIDER					HATCH
AL&C-04	17:00	ST07	Stavroula Giannakopoulou	Key Aspects of Aluminium Value Chain Sustainability in East – Southeast Europe for Red Mud Valorization	National Technical University of Athens
	17:20	ST08	Matthieu Arlettaz	Standards for Analysis of Important Raw Materials in ISO Technical Committee 226	R&D Carbon
	17:40	ST09	Vaishali Surawar	Moving Towards Zero Waste to Landfill in Integrated Aluminium Company	Hindalco
15:15-18:15 4th International Bauxite Residue Valorisation and Best Practices Conference (BR2022)					
18:30-19:30 ICSOBA Corporate membres coucil					
20:30-22:30 ICSOBA Gala Dinner					

ICSOBA 2022 | DAY 2

BAUXITE, ALUMINA AND BAUXITE RESIDUE: STREAMS (1 & 2)



Science that boosts the future

Science contributes to building a more viable future. Therefore, Hydro supports and invests in research projects with educational institutions to help developing the state of Pará. Considering initiatives in different areas, like residue management, use of alternative sources of renewable energy and the donation of technological devices, Hydro builds a sustainable operation with positive returns for whole society.

- hydro.com/brasil
- [@hydrnobrasil](https://www.facebook.com/hydrnobrasil)
- [hydrnobrasil](https://www.youtube.com/hydrnobrasil)
- [Norsk Hydro](https://www.linkedin.com/company/norsk-hydro)
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ICSOBA 2022 : Day 2, Wednesday Oct. 12th – Start time is "Athens Time"

TECHNICAL SESSION: BAUXITE & ALUMINA - WHITE SIDE CHAIR: JORG RUSTER				EGA	
Start time	Code	Speaker	Title	Affiliation	
B&A-03	8:40	AA13	Albert Rijkeboer	Advances in Process Simulation of Agglomeration in Bayer Precipitation	Rinalco
	9:20	AA16	Vikas Kumar	Application of Data Analytics Tools for Liquor Productivity Increase in Alumina Refinery	Hindalco
	9:40	AA19	Theodor Beisheim	Metso Outotec's 5th Generation Of CFB Alumina Calciners - Optimized Process And Equipment Design	Metso Outotec
	10:00	AA20	Vikas Kumar	Real time Prediction of Gas Suspension Calciner Performance Using ML Based Soft Sensors	Hindalco
TECHNICAL SESSION: AUXITE RESIDUE - METAL EXTRACTION AND PROCESSING CHAIR: SHARIF JAHANSHAHI				METALOGIC	
BR-03	9:00	BR19	Ganesh Pilla	Reactions and Phase Transformations During the Low-temperature Reduction of Bauxite Residue by H2 in the Presence of NaOH, and recovery rates downstream	KU Leuven
	9:20	BR21	Manish Kumar Kar	Hydrogen Reduction of High Temperature Sintered and Self-Hardened Pellets of Bauxite Residue produced via the Addition of Limestone and Quicklime	Norwegian University of Science and Technology
	9:40	BR22	Giuseppe Davico	Waste to Wealth - Full Utilisation of Red Mud	AIT Europa Engineering
	10:00	BR23	Adriano Reis Lucheta	Bauxite Residue Flotation as an Alternative for Iron Concentration and Sodalite Removal	Senai Innovation
10:20-10:40				Coffee break	
TECHNICAL SESSION: : BAUXITE & ALUMINA - MIXING AND WATER MANAGEMENT CHAIR: LINUS PERANDCER				YARA	
B&A-04	10:40	AA18	Janin Klatt-Eberle	Power Saving in Mixing Steps for a Sustainable Environment	STC-Engineering
	11:00	BX02	Bruno José da Costa Cunha	Water Resources Management Plan for Mining Industries – A Guidance Model	Hydro
	11:20	AA22	Clara Souza	Development of a Dynamic Computer Model for Water and Effluent Management at the Alunorte Refinery	Hydro
	11:40	AA23	Enio Laubyer Ferreira e Silva	Integrated Water Balance Modeling of the Alunorte Refinery	Hydro
TECHNICAL SESSION: : BAUXITE RESIDUE - METAL EXTRACTION AND PROCESSING CHAIR: SEBASTIEN FORTIN				RIO TINTO	
BR-04	10:40	BR24	Gisele Azimi	Recovery of Scandium and Iron from Bauxite Residue by Carbothermic Smelting, Acid Baking – Water Leaching, and Solid-Liquid Extraction	University of Toronto
	11:00	BR20	Pouya Hajiani	A Sustainable and Profitable Bauxite Residues Valorization Process	Innord – Geomega Resources
	11:20	BR25	Lucian Cotet	The Bauxite Residue as Amendment for the Acidic Soils Rehabilitation in Romania	ALUM
	11:40	BR01	David Gauthier	Reducing Bauxite Residue Production And Storage Through Internal And External Recycling Of Security Filtration Filter-cake	Rio Tinto
12:00-13:00				Lunch Break sponsored by Hydro	
KEYNOTE SESSION B CHAIR: CLAUDE VANVOREN, HOUSHANG ALAMDARI				ICSOBA	
KEYNOTE SESSION B	13:00	KN05	Bibhu Mishra	Next Decade for Indian Aluminium Industry	Hindalco
	13:30	KN06	Les Edwards	Quantifying the Carbon Footprint of the Alouette Aluminum Smelter	Rain Carbon
	14:00	KN07	Anupam Agnihotri	Framework to Drive Resource Efficiency and Circular Economy in Indian Aluminium Sector	Jawaharlal Nehru Aluminium Research Development & Design Centre
	14:30	KN08	Christopher Baker	Performance Improvement in Alumina Refining	Alcoa
15:20-18:20				4th International Bauxite Residue Valorisation and Best Practices Conference (BR2022)	
18:30-19:30				ICSOBA members meeting	
21:00				ICSOBA Gala Dinner	



ICSOBA 2022 : Day 2, Wednesday Oct. 12th – Start time is "Athens Time"

TECHNICAL SESSION: ALUMINIUM & CARBON – ALUMINIUM/CARBON CHAIR: DAGOBERTO SEVERO					CAETE
Start time	Code	Speaker	Title	Affiliation	
AL&C-05	9:00	AL08	Michael Neate	Low Resistance, High Flow PrimaFlow® Filters	Solaft Filtration
	9:20	AL09	Herve Yves Roustan	Low-cost PFC Analyzer for Early Anode Effect Detection	Rio Tinto
	9:40	AL10	Antonio Pucci	Aluminium Smelting Electrolysis Cell Anode Changing Automation Challenges	EGA
	10:00	CB01	Sandra Besson	New Generation Anode Baking Furnace: A Breakthrough Technology Increasing Productivity and Sustainability	Rio Tinto
10:20-10:40 Coffee break					
TECHNICAL SESSION: ALUMINIUM & CARBON – ANODE BAKING CHAIR: DUYGU KOCAEFE					UQAC
AL&C-06	10:40	CB02	Tushar Sunil Thorat	Computational Model Development for Performance Analysis of Anode Baking Furnace	Hindalco
	11:00	CB03	Bhoopesh Kumar Jain	Challenges of Prolonging Life of Aged Anode Baking Furnace-1 at Aluminum Bahrain (ALBA)	Alba
	11:20	CB04	Christophe Bouche & Antonis Kyriazis	Anode Baking Furnace at Aluminium of Greece goes Smart and Green with a new FTC and FCS	Fives & Mytilneos
	11:40	CB05	Harith Al Barakhti	Anode Performance Improvement with Limited Expenditure and Baking Furnace Options	Sohar
12:00-13:00 Lunch Break sponsored by Hydro					
KEYNOTE SESSION B CHAIR: CLAUDE VANVOREN, HOUSHANG ALAMDARI					ICSOBA
KEYNOTE SESSION B	13:00	KN05	Bibhu Mishra	Next Decade for Indian Aluminium Industry	Hindalco
	13:30	KN06	Les Edwards	Quantifying the Carbon Footprint of the Alouette Aluminum Smelter	Rain Carbon
	14:00	KN07	Anupam Agnihotri	Framework to Drive Resource Efficiency and Circular Economy in Indian Aluminium Sector	Jawaharlal Nehru Aluminium Research Development & Design Centre
	14:30	KN08	Christopher Baker	Performance Improvement in Alumina Refining	Alcoa
15:00-15:20 Break					
TECHNICAL SESSION: ALUMINIUM & CARBON – ANODES/CATHODES CHAIR: GØRIL JAHRSENGENE					SINTEF
AL&C-07	15:20	CB06	Stein Rørvik	Characterizing Pilot Anodes made with CTP and Bio-Pitch using µCT	SINTEF
	15:40	CB07	Duygu Kocaeefe	Considerations in Chemical Coke/Pitch Modification Using Additives for Anode Production	UQUAC
	16:00	CB08	Eirik Hagen	Ageing of Carbon Materials during Electrolysis, Experience from Operation and Laboratory Tests	Hydro Aluminium
	16:20	CB09	Umesh Prasad	Performance of an Impact Crusher used as an Alternative to Produce Anode-Covering Crushed Bath during Autogenous Mill Refurbishment	Sohar
16:40-17:00 Coffee break					
TECHNICAL SESSION: ALUMINIUM & CARBON – CARBON/ALUMINIUM CHAIR: ANDRÉ-FELIPE SCHNEIDER					HATCH
AL&C-08	17:00	CB10	Yasar Kocaeefe	An Overview of Mathematical Modelling of Anode Baking Furnaces	UQAC
	17:20	AL11	Eirik Manger	Seasonal Influence on Aluminium Cell Heat Balance and Performance	Hydro Aluminium
	17:40	AL12	Abdulla Abdulaziz Karmustaji	Industry 4.0 for Metal Crucible Tracking System at EGA	EGA
15:20-18:20 4th International Bauxite Residue Valorisation and Best Practices Conference (BR2022)					
18:30-19:30 ICSOBA members meeting					
21:00 Cultural event					

ICSOBA 2022 | DAY 3

BAUXITE, ALUMINA AND BAUXITE RESIDUE: STREAMS (1 & 2)



●● Together, innovating aluminium
●● to make modern life possible.

The metal of the future

Emirates Global Aluminium is the largest industrial company in the UAE outside oil and gas. Our aluminium is used in everything from smartphones to bullet trains and the world's inventors keep finding new ways to use it. We have contributed to the economic development of our country for decades, creating opportunity for people through innovation with a commitment to responsibility and safety. We make modern life possible.



ICSOBA 2022 : Day 3, Thursday Oct. 13th – Start time is "Athens Time"

TECHNICAL SESSION: BAUXITE & ALUMINA – BAUXITE EXPLORATION & SUSTAINABILITY CHAIR: ROBERTO SENO				CBA	
Start time	Code	Speaker	Title	Affiliation	
B&A-05	9:20	BX01	Acácio Nunes de Pina Neto	UGPR Inputs for Bauxite Geological Modelling with Accuracy Improvements	Hydro
	9:40	BX05	Yolanda Debra Drakopoulos	Restoration of Bauxite Lands in Jamaica: Life after Bauxite	Jamaica Bauxite Institute
	10:00	BX06	Joniilton Pantoja Paschoal	Selection of Key Plant Species for the Rehabilitation of Areas with Constructed Soils after Bauxite Mining in the Amazon Region	Hydro
TECHNICAL SESSION: BAUXITE RESIDUE – BUILDING MATERIALS CHAIR: EFTHYMIOS BALOMENOS				MYTILINEOS	
BR-05	8:40	BR09	Michiel Giels	Optimizing the Potential of BR Slag in Blended Cement	KU Leuven
	9:00	BR10	Elise Francois	Reactivity Assessment of Bauxite Residue-Rich Slags	Resourcefull
	9:20	BR11	Arne Peys	Co-calcination of Bauxite Residue with Low-grade Kaolin in Pursuit of an Economic and High-quality Supplementary Cementitious Material	VITO
	9:40	BR12	Rahul Roy	Characterization of Low-CO2, Ferrite-Belite Cements Incorporating High Volumes of Bauxite Residue	KU Leuven
	10:00	BR13	Roberto Cesar de Oliveira Romano	Methodology for a Safe and Low-cost Large-scale Application for Bauxite Residue in Association with Portland Cement in Compositions Applied in Civil Construction	University of São Paulo
10:20-10:40				Coffee break	
TECHNICAL SESSION: : BAUXITE & ALUMINA – IMPURITY REMOVAL CHAIR: ANDREY PANOV				RUSAL	
B&A-06	10:40	AA27	Airong Song	Solvay's Solvent Extraction Technology to Remove Organics from Bayer Process	Solvay
	11:00	AA28	Rodrigo Aparecido Moreno	Feasibility Study To Remove Impurities From CBA's Liquor As An Alternative To Increase Precipitation Yield	CBA
	11:20	AA33	Bijoy Satpathy	Effect of Binders on the Processing of - Alumina in Tunnel Kiln	Kalinga Institute of Industrial Technology
	11:40	AA34	Vikas Kumar	Effect of Colour Bearing Impurities of Alumina on Fused Cast Refractories	Hindalco
TECHNICAL SESSION: BAUXITE RESIDUE – BUILDING MATERIALS CHAIR: KEN EVANS					
BR-06	10:40	BR17	Fabio Cabral Oliveira	The Solid-state "Bayer Process"-inspired Valorization Route: Introducing an Amorphous Sodium Alumino-silicate	KU Leuven
	11:00	BR15	Roberto Cesar de Oliveira Romano	Case Study for the Development of Heavy Traffic Road in Concrete with Bauxite Residue	University of São Paulo
	11:20	BR14	Markus Samuel Rebmann	Development of Concrete with Bauxite Residue for the Production of Paving Blocks by Casting	University of São Paulo
	11:40	BR16	Bruno Viegas	Bauxite Residue as Raw Material for Manufacture of Synthetic Aggregate	Federal University of Pará
12:00-13:00				Lunch Break sponsored by Rio Tinto	
KEYNOTE SESSION C CHAIR: NAJEEBA AL JABRI, MICHEL REVERDY				EGA	
KEYNOTE SESSION C	13:00	KN09	Alan Clark	The Outlook for Third-Party Bauxite Trade and the Potential Impacts of Country Policies	CM Group
	13:30	KN10	Uday Patel	The Outlook for the Aluminium Market in an Uncertain World	Wood Mackenzie
	14:00	KN11	Lavinia Kugaswaran	Sustainable Development - Bauxite and Alumina	International Aluminium Institute
	14:30	ST03	Nick Depree	Decarbonisation of Aluminium Production by Demand Side Response	EnPot
15:20-18:20				4th International Bauxite Residue Valorisation and Best Practices Conference (BR2022)	
18:30-19:30				Best papers award ceremony	
20:00				ICSOBA organizers and sponsors dinner	

ICSOBA 2022 | DAY 3

ALUMINIUM & CARBON



RioTinto

We produce materials essential to a low-carbon future and embrace our responsibility to be part of the solution



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ICSOBA 2022 : Day 3, Thursday Oct. 13th – Start time is "Athens Time"

TECHNICAL SESSION: ALUMINIUM & CARBON - LIQUID METAL/BUSBARS CHAIR: DAGOBERTO SEVERO					CAETE
Start time	Code	Speaker	Title	Affiliation	
AL&C-09	9:00	AL13	Patrice Côté & Eloise Harvey	Automation of Furnace Tending: ARFT Technology	EPIQ Mecfor
	9:20	AL14	Pratap Sahu	Production of Premium Grade P0303 Sows at Mahan Aluminium	Hindalco
	9:40	AL15	Ishaq Alkharusi	Busbar Integrity In Potline Tunnels In EGA Jebel Ali Smelter	EGA
	10:00	AL16	Russell Hall	CFD Simulation of Busbar Tunnels in EGA Jebel Ali Potlines	Hatch
10:00-10:20					Coffee break
TECHNICAL SESSION: ALUMINIUM & CARBON - MHD MODELLING CHAIR: ANDRÉ-FELIPE SCHNEIDER					HATCH
AL&C-10	10:40	AL17	Vinko Potocnik	New ESTER/PHOENICS - An Upgraded 3D MHD Modelling Software for Aluminium Reduction Cells	Vinko Potocnik Consultant
	11:00	AL18	Vinko Potocnik for Amit Jha	Magnetic Compensation Loop Design Using Transient ESTER/PHOENICS MHD Simulations	Aditya Birla Science & Technology Co.
	11:20	AL19	Hendrik Gesell	Magnetohydrodynamic Analysis Of Load Shifting In Hall-Héroult Cells	Bergische Universität Wuppertal
	11:40	AL20	A-F Schneider for Marc Dupuis	Stabilizing Aluminium Reduction Cells by Oscillating Currents in Compensation Loops	GeniSim
12:00-13:00					Lunch Break sponsored by Rio Tinto
KEYNOTE SESSION C CHAIR: NAJEEBA AL JABRI, MICHEL REVERDY					EGA
KEYNOTE SESSION C	13:00	KN09	Alan Clark	The Outlook for Third-Party Bauxite Trade and the Potential Impacts of Country Policies	CM Group
	13:30	KN10	Uday Patel	The Outlook for the Aluminium Market in an Uncertain World	Wood Mackenzie
	14:00	KN11	Lavinya Kugaswaran	Sustainable Development - Bauxite and Alumina	International Aluminium Institute
	14:30	ST03	Nick Depree	Decarbonisation of Aluminium Production by Demand Side Response	EnPot
15:00-15:20					Break
TECHNICAL SESSION: ALUMINIUM & CARBON - CELL DESIGN/POTROOM HEAT STRESS CHAIR: NADIA AHLI					EGA
AL&C-11	15:20	AL21	Dagoberto Severo	Magnetic Field Improvement in Electrolytic Cells by Shielding	Vedanta Aluminium Jharsuguda
	15:40	AL22	Merfat Al Nuaimi	Beat the Heat! - EGA's Heat Stress Prevention programme	Rio Tinto
	16:00	AL23	Dagoberto Severo	Development of Vedanta Lining Design	Vedanta Aluminium Jharsuguda
	16:20	AL24	A-F Schneider for Marc Dupuis	Retrofitting of Several Cell Technologies Using a Protruding Collector Bar Cathode Assembly	GeniSim
16:40-17:00					Coffee break
TECHNICAL SESSION: ALUMINIUM & CARBON - CELL LIFE/SPENT POTLINING CHAIR: VINKO POTOCNIK					Vinko Potocnik Consultant
AL&C-12	17:00	AL25	Rajesh Singh	Control Measures Of Pot Blasting In Balco Aluminium Smelter (Canceled)	Balco
	17:20	AL26	Binuta Patra	Recycling Possibilities of Spent Potlining Carbon Material generated from NALCO's Smelter plant (Canceled)	NALCO
15:20-18:20					4th International Bauxite Residue Valorisation and Best Practices Conference (BR2022)
18:30-19:30					Best papers award ceremony
20:00					ICSOBA organizers and sponsors dinner

ICSOBA 2022 | DAY 4

FIELD TRIP TO MYTILINEOS AGIOS NIKOLAOS PLANT



MYTILINEOS

METALLURGY BUSINESS UNIT

Metallurgy Business Unit:

- Sole vertically integrated bauxite, alumina and aluminium producer with asset base in Europe.
- Second largest producer of bauxite in the European Union, and leading pioneer in the management of bauxite residue.
- Competitive global cost positions for alumina and aluminium whilst retaining highest ESG standards.
- Growing presence in recycled aluminium, aiming to increase output to c.65ktpa, achieving c.250ktpa total production capacity by 2022 and 25% reduction in electricity consumption per tonne.
- Long-term relationships with major European customers.

The leading industrial producer of alumina and aluminium in South-Eastern Europe and the only vertically integrated bauxite, alumina and aluminium production plant in Europe:

- Mining 570,000 tonnes of Greek bauxite, processing each year more than 1.3 million tonnes of Greek bauxite and 0.8 million tonnes of tropical bauxite.
- Producing 860,000 tonnes of Alumina (out of which 510,000 tonnes are exported).
- Producing 195,000 tonnes of aluminium (out of which 114,000 tonnes are exported).
- Advanced pilot plant for bauxite residue valorisation.

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Thank you for your attention!

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