

39th Conference
and Exhibition

Virtual ICSOBA 2021

22 to 24 November 2021

Detailed
programme (final)

TIME GUIDE

| LOCAL TIME | | | | | | | | | |
|------------|----------|---------|-------|-------|--------------------|------------------|--------|-----------|-----------------------|
| | Brisbane | Beijing | India | Dubai | Bahrain, Moscow | Paris, Berlin | London | Sao Paulo | Montreal, New York |
| Pre-break | 15:00 | 13:00 | 10:30 | 9:00 | 8:00 | 6:00 | 5:00 | 2:00 | 0:00 |
| | 16:00 | 14:00 | 11:30 | 10:00 | 9:00 | 7:00 | 6:00 | 3:00 | 1:00 |
| Start | 16:00 | 14:00 | 11:30 | 10:00 | 9:00 | 7:00 | 6:00 | 3:00 | 1:00 |
| End | 16:30 | 14:30 | 12:00 | 10:30 | 9:30 | 7:30 | 6:30 | 3:30 | 1:30 |
| Start | 16:30 | 14:30 | 12:00 | 10:30 | 9:30 | 7:30 | 6:30 | 3:30 | 1:30 |
| End | 18:00 | 16:00 | 13:30 | 12:00 | 11:00 | 9:00 | 8:00 | 5:00 | 3:00 |
| Start | 18:00 | 16:00 | 13:30 | 12:00 | 11:00 | 9:00 | 8:00 | 5:00 | 3:00 |
| End | 19:30 | 17:30 | 15:00 | 13:30 | 12:30 | 10:30 | 9:30 | 6:30 | 4:30 |
| Break | 19:30 | 17:30 | 15:00 | 13:30 | 12:30 | 10:30 | 9:30 | 6:30 | 4:30 |
| | 21:00 | 19:00 | 16:30 | 15:00 | 14:00 | 12:00 | 11:00 | 8:00 | 6:00 |
| Start | 21:00 | 19:00 | 16:30 | 15:00 | 14:00 | 12:00 | 11:00 | 8:00 | 6:00 |
| End | 21:30 | 19:30 | 17:00 | 15:30 | 14:30 | 12:30 | 11:30 | 8:30 | 6:30 |
| Start | 21:30 | 19:30 | 17:00 | 15:30 | 14:30 | 12:30 | 11:30 | 8:30 | 6:30 |
| End | 22:00 | 20:00 | 17:30 | 16:00 | 15:00 | 13:00 | 12:00 | 9:00 | 7:00 |
| Start | 22:00 | 20:00 | 17:30 | 16:00 | 15:00 | 13:00 | 12:00 | 9:00 | 7:00 |
| End | 23:30 | 21:30 | 19:00 | 17:30 | 16:30 | 14:30 | 13:30 | 10:30 | 8:30 |
| Start | 23:45 | 21:45 | 19:15 | 17:45 | 16:45 | 14:45 | 13:45 | 10:45 | 8:45 |
| End | 1:15 | 23:15 | 20:45 | 19:15 | 18:15 | 16:15 | 15:15 | 12:15 | 10:15 |
| Start | 1:15 | 23:15 | 20:45 | 19:15 | 18:15 | 16:15 | 15:15 | 12:15 | 10:15 |
| End | 2:45 | 0:45 | 22:15 | 20:45 | 19:45 | 17:45 | 16:45 | 13:45 | 11:45 |
| Post-break | 2:45 | 0:45 | 22:15 | 20:45 | 19:45 | 17:45 | 16:45 | 13:45 | 11:45 |
| | 3:45 | 1:45 | 23:15 | 21:45 | 20:45 | 18:45 | 17:45 | 14:45 | 12:45 |

PROGRAMME AT A GLANCE

| Bahrain time | | DAY 1 Monday 22nd November | | DAY 2 Tuesday 23rd November | | DAY 3 Wednesday 24th November | |
|--------------|-------|--|------------------------------|---|------------------------------|----------------------------------|------------------------------|
| | | Stream Bauxite and Alumina | Stream Aluminium and Carbon | Stream Bauxite and Alumina | Stream Aluminium and Carbon | Stream Bauxite and Alumina | Stream Aluminium and Carbon |
| Pre-break | 8:00 | | | | | | |
| | 9:00 | | | | | | |
| Start | 9:00 | Conference introduction Host Sponsor presentation | | | | | |
| End | 9:30 | | | | | | |
| Start | 9:30 | Technical session B&A-01 | Technical session AI&C-01 | Technical session B&A-05 | Technical session AI&C-05 | Technical session B&A-09 | Technical session AI&C-09 |
| End | 11:00 | | | | | | |
| Start | 11:00 | Technical session B&A-02 | Technical session AI&C-02 | Technical session B&A-06 | Technical session AI&C-06 | Technical session B&A-10 | Technical session AI&C-10 |
| End | 12:30 | | | | | | |
| Break | 12:30 | | | | | B&A Best Paper | |
| | 14:00 | | | | | | |
| Start | 14:00 | | | EGA Al-Taweelah Refinery Virtual Tour | | Alba Smelter Virtual Tour | |
| End | 14:30 | | | | | | |
| Start | 14:30 | Conference introduction Host Sponsor presentation | | Panel discussion: Strategic Supply of Alumina, post covid-19 era | | Keynotes session C | |
| End | 15:00 | | | | | | |
| Start | 15:00 | Keynotes session A | | Keynotes session B | | | |
| End | 16:30 | | | | | | |
| Start | 16:45 | Technical session B&A-03 | Technical session AI&C-03 | Technical session B&A-07 | Technical session AI&C-07 | | Technical session AI&C-11 |
| End | 18:15 | | | | | | |
| Start | 18:15 | Technical session B&A-04 | Technical session AI&C-04 | Technical session B&A-08 | Technical session AI&C-08 | | Technical session AI&C-12 |
| End | 19:45 | | | | | | |
| Post-break | 19:45 | | | | | | B&A Best Paper |
| | 20:45 | | | | | | |

PANEL & PLANT VISIT

| EGA AL-TAWEELHA REFINERY VIRTUAL TOUR | | | |
|---------------------------------------|-------------------------------|--|---------------------------------|
| DAY 2 | 14:00-14:30 (Bahrain time) | Mr Jörg Ruster – Refinery Director – Technical | Emirates Global Aluminium (EGA) |
| | | Mr Markus Graefe – Manager Bauxite Residue R&D Agronomy, EGA Technology Development & Transfer | Emirates Global Aluminium (EGA) |
| | Moderator | Dr Andrey Panov | ICSOBA |

| PANEL DISCUSSION: STRATEGIC SUPPLY OF ALUMINA, POST COVID-19 ERA | | | |
|--|--------------------------------|--|---------------------------------|
| DAY 2 | 14:30 -15:00 (Bahrain time) | Mr. Mohammed Khalid Juma, Manager of Strategic Supply & Planning | Aluminium Bahrain (ALBA) |
| | | Mr Jason Moodley, Supply Chain Manager | Sohar Aluminium |
| | | Mrs. Hind Al Ali, Senior Manager – Alumina Procurement | Emirates Global Aluminium (EGA) |
| | | Mr Uday Patel, Senior Research Manager Global Aluminium Markets | Wood Mackensie |
| | Moderator | Dr Claude H. Vanvoren | ICSOBA |

| ALBA SMELTER VIRTUAL TOUR | | | |
|---------------------------|-------------------------------|---|--------------------------|
| DAY 3 | 14:00-14:30 (Bahrain time) | Mr Vasantha Kumar – Superintendent Process Control | Aluminium Bahrain (ALBA) |
| | | Mr Hamad Salman – Superintendent Reduction Line 6 | Aluminium Bahrain (ALBA) |
| | | Mr Abdulla Al Baqali – Superintendent Mechanical Maintenance Carbon 3-4 | Aluminium Bahrain (ALBA) |
| | | Mr Ahmed Shukri – Sr. Head of Events and Protocol | Aluminium Bahrain (ALBA) |
| | Moderator | Dr Claude H. Vanvoren | ICSOBA |

ICSOBA 2021

Start time is "Bahrain Time"

KEYNOTE SPEAKERS PROGRAM

| Session Chairs: Michel Reverdy and Claude H. Vanvoren | | | | | |
|---|------------|------|-----------------|--|----------------|
| | Start time | Code | Speaker | Title | Affiliation |
| MONDAY A | 15:00 | KN01 | Julian Kettle | The Energy Transition and the Challenge of Supply Development | Wood Mackenzie |
| | 15:30 | KN02 | Hans Erik Vatne | Moving to CO2-neutral alumina and aluminium production at Norsk Hydro | Norsk Hydro |
| | 16:00 | KN03 | Pascal Lavoie | Alcoa's Advance Sustainably Strategy: The Alcoa Pathway to Sustainability in the Aluminum Industry | Alcoa |

| Session Chairs: Michel Reverdy and Houshang Alamdari | | | | | |
|--|-------|------|----------------------|---|----------------------------------|
| TUESDAY B | 15:00 | KN04 | Manasa Prasad Mishra | Waste management in Aluminium Industry-key to Circular Economy | National Aluminium Company |
| | 15:30 | KN05 | Souleymane Traoré | Environmental, Social and Governance Strategies Should Be Central to African Mineral Value Chains | Compagnie des Bauxites de Guinée |
| | 16:00 | KN06 | Roland Héquet | Large Scale Green Hydrogen Production to Help Decarbonizing the Aluminium Sector | John Cockerill |

| Session Chairs: Michel Reverdy and Houshang Alamdari | | | | | |
|--|-------|------|----------------|---|-----------------------------------|
| WEDNESDAY C | 14:30 | KN07 | Paul Adkins | Green Aluminium and China | AZ China |
| | 15:00 | KN08 | Pernelle Nunez | Sustainability in the Aluminium Industry – challenges and opportunities | International Aluminium Institute |
| | 15:30 | KN09 | Uday Patel | Aluminium Market Outlook: A tectonic shift or a temporary blip | Wood Mackenzie |
| | 16:00 | KN10 | Fiona Solomon | ASI – Responsible Production, Sourcing and Stewardship of Aluminium | Aluminium Stewardship Initiative |

SPEAKERS



Julian Kettle



Pascal Lavoie



Hans Erik Vatne



Manasa Prasad Mishra



Souleymane Traoré



Roland Héquet



Paul Adkins



Pernelle Nunez



Uday Patel



Fiona Solomon

ICSOBA 2021

BAUXITE & ALUMINA STREAM DAY 1



ICSOBA 2021 : Day 1, 22 November – Start time is "Bahrain Time"

| Start time | Code | Speaker | Title | Affiliation | |
|--|-------|--|---|--|-----------------------------|
| 9:00-9:30 | | | Conference opening – Host Sponsor presentation | ICSOBA / Alba | |
| B&A-01 (PROCESS) | 9:30 | | Company Presentation | GEA | |
| | 9:35 | Steve Healy | Speaker's introduction by Session Chair | | |
| | 9:40 | BX01 | Sagar Pandit | Development of a Model For Optimization of Bauxite Sources to Achieve Operational Excellence in Alumina Refinery | Hindalco |
| | 9:55 | AA01 | György (George) Bánvölgyi | The ILTD Process and its Recent Developments: Significant Decrease of Production cost, Sustainable Operation and Shift of Large Amount of Sub-economic Bauxite Resources to Reserves | Ban-Volgy Ltd |
| | 10:10 | AA07 | Dmitry Valeev | Extraction of Al and Rare Earth Elements from Boehmite-Kaolinite Bauxite by Ammonium Bisulfate High-Pressure Leaching | Russian Academy of Sciences |
| | 10:25 | BR16 | Laurent Poizat | Improvement of Discharged Water Quality by Alteo Gardanne | ALTEO |
| | 10:40 | Q & A Session (chair: Steve Healy) | | | |
| B&A-02 (PROCESS) | 11:00 | | Company Presentation | SEFAR | |
| | 11:05 | | Bijoy Satpathy | Speaker's introduction by Session Chair | |
| | 11:10 | AA04 | Zhimin Yang | Sintering process to produce alumina synergistic use of carbon residue produced by aluminum electrolysis | CHALCO |
| | 11:25 | AA05 | Kiran Bhor | Process and Design Optimization for Producing Low Soda Alumina | Hindalco |
| | 11:40 | AA06 | Saravanan Poomalai | Process for Preparing Pseudo-Boehmite from Aluminium Trihydrate | Hindalco |
| | 11:55 | AA09 | Dmitry Valeev | Utilization of Reftinskaya GRES Coal Fly Ash by Ammonium Bisulfate High-Pressure Leaching for Aluminum Extraction | Russian Academy of Sciences |
| | 12:10 | Q & A Session (chair: Bijoy Satpathy) | | | |
| 14:30-15:00 | | | Conference opening – Host Sponsor presentation | ICSOBA / Alba | |
| 15:00-16:30 | | | Keynote session A | | |
| B&A-03 (PROCESS, DIGITAL, ENVIRONMENT) | 16:45 | | Company Presentation | Jingjin Environment Protection | |
| | 16:50 | | Frank Feret | Speaker's introduction by Session Chair | |
| | 16:55 | AA08 | Andrei Shoppert | High alumina mullite concentrate obtaining from Reftinskaya TTP coal fly ash by alkali desilication | Ural Federal University |
| | 17:10 | AA16 | Thiago Franco | Volume Control at CBA's Alumina Refinery | CBA |
| | 17:25 | AA18 | Thiago Franco | Artificial Intelligence for Gibbsite Crystallization Control at CBA | CBA |
| | 17:40 | BR15 | Sean Dundon | Aughinish Biodiversity | RUSAL Aughinish |
| | 17:55 | Q & A Session (chair: Frank Feret) | | | |
| B&A-04 (DIGITAL, PROCESS) | 18:15 | | Company Presentation | GEA | |
| | 18:20 | | Company Presentation | SEFAR | |
| | 18:25 | | Evandro Leao | Speaker's introduction by Session Chair | |
| | 18:30 | AA17 | Abhishek Raj | Leveraging Digital Technology in Utkal Alumina Expansion Project | Hindalco |
| | 18:45 | BX02 | Camila Botarro Moura | Using Decanter Centrifuge for Dewatering Bauxite Tailings | CBA |
| | 19:00 | AA10 | Vinod Verma | Study of Settling Behavior in High Rate Decanters | NALCO |
| | 19:10 | AA11 | Dmitriy Mayorov | Implementation of Thickener Feedwells Upgraded Using CFD-PBM Method at UC RUSAL | RUSAL ETC |
| | 19:25 | Q & A Session (chair: Evandro Leao) | | | |

ICSOBA 2021

ALUMINIUM & CARBON STREAM DAY 1



ICSOBA 2021 : Day 1, 22 November – Start time is "Bahrain Time"

| Start time | Code | Speaker | Title | Affiliation |
|-------------|---|--|---|---------------------------------------|
| 9:00-9:30 | | | Conference opening – Host Sponsor presentation | ICSOBA / Alba |
| AL&CB-01 | 9:30 | | Company Presentation | Nalco |
| | 9:35 | Vinko Potocnik | Speaker's introduction by Session Chair | |
| | 9:40 | AL01 | Mohamed Edrabooh The Roadmap of of AP-Alba to 400 kA | Aluminium Bahrain |
| | 9:55 | AL02 | Nadia Ahli Amperage Increase in DX+ Ultra Demonstration Cells at EGA Jebel Ali Smelter | Emirates Global Aluminium |
| | 10:10 | AL03 | Nicole Teeling The Study, Execution and Handover to Operations of a Smelter Potline Extension at EGA Al Taweelah Smelter | Hatch |
| | 10:25 | AL04 | Viktor Buzunov Reduction of Energy Consumption at Khakassian Aluminum Smelter | Rusal |
| | 10:40 | Q & A Session (chair: Vinko Potocnik) | | |
| AL&CB-02 | 11:00 | | Company Presentation | Tokai Cobex |
| | 11:05 | Kristian Einarsrud | Speaker's introduction by Session Chair | |
| | 11:10 | Marc Dupuis | Review of the SAMI Retrofit Project in QTX Smelter in China | GeniSim Inc |
| | 11:25 | Dagoberto Severo | Heat Exchanger Prototype for Alumina Preheating in Aluminium Reduction Cells | CAETE Engenharia Ltda |
| | 11:40 | Marc Dupuis | Two-Step Preheating of New Anodes with Anode Butts Wasted Heat | GeniSim Inc |
| | 11:55 | Lukas Dion | Experimental Study and Visualization of Thermal and Dissolution Flux Using Schlieren Methods to Improve Understanding of the Kinetics of Alumina Dissolution in Cryolitic Melts | Université du Québec à Chicoutimi |
| | 12:10 | Q & A Session (chair: Kristian Einarsrud) | | |
| 14:30-15:00 | | | Conference opening – Host Sponsor presentation | ICSOBA / Alba |
| 15:00-16:30 | | | Keynote session A | |
| AL&CB-03 | 16:40 | | Company Presentation | Trimet |
| | 16:45 | | Company Presentation | Eqip |
| | 16:50 | BK Kakkar | Speaker's introduction by Session Chair | |
| | 16:55 | AL09 | Mohd Abdulhadi Alaisareen Challenges of Anode Spikes in Aluminum Bahrain (ALBA) | Aluminium Bahrain |
| | 17:10 | AL10 | Matthias Dechent Carbon Dust Metrics for Cell and Plant Process Audits | Trimet |
| | 17:25 | AL11 | Tushar Thorat Impact of Carbon Dust on Performance of Hall Héroult Cell: A Computational Analysis | Aditya Birla Science and Technology |
| | 17:40 | AL12 | Bibhudatta Mohanty Coating of Anodes to Reduce Air Oxidation | Vedanta Aluminium Limited, Jharsuguda |
| 17:55 | Q & A Session (chair: BK Kakkar) | | | |
| AL&CB-04 | 18:15 | | Company Presentation | |
| | 18:20 | Vinko Potocnik | Speaker's introduction by Session Chair | |
| | 18:25 | AL13 | Martin Forté Ongoing Development of Aluminium Welding in Strong Magnetic Fields | Rio Tinto Aluminium |
| | 18:40 | AL14 | Gael Lambert Welding Damaged Anode Risers and Damaged Busbar without Potline Outage | Aluminium Dunkerque |
| | 18:55 | AL15 | Jayson Tessier Potlife and Pot Design Evolution at Alcoa Deschambault | Alcoa |
| | 19:10 | AL16 | Pratap Sahu Pot Turnaround Time Reduction at Mahan Aluminium to Enhance Productivity | Hindalco Industries, Mahan Aluminium |
| | 19:25 | Q & A Session (chair: Vinko Potocnik) | | |

ICSOBA 2021

BAUXITE & ALUMINA STREAM DAY 2



ICSOBA 2021 : Day 2, 23 November – Start time is "Bahrain Time"

| Start time | Code | Speaker | Title | Affiliation | |
|---|-------|---------|--|---|--|
| B&A-05 (BR PROCESSING FOR METALS EXTRACTION) | 9:30 | | Company Presentation | Jingjin Environment Protection | |
| | 9:35 | | Speaker's introduction by Session Chair | | |
| | 9:40 | BR09 | Efthymios Balomenos | Bauxite Residue reuse through combined operations: industrial pilot modules | MYTILINEOS |
| | 9:55 | BR10 | Chinmaya Sarangi | Process for the Recovery of Alumina and Iron from Bauxite Residue | CSIR-IMMT |
| | 10:10 | BR11 | Efthymios Balomenos | Developing a -parallel to aluminium- value chain for Scandium and Al-Sc alloy production. Pilot scale results under the SCALE project | MYTILINEOS |
| | 10:25 | BR12 | Aleksandr Suss | A Novel Process of Heap Leaching Extraction of Sc, Zr, Ti, Al, Na from Bauxite Residue with Carbon Footprint Reduction | RUSAL ETC |
| | 10:40 | | | Q & A Session (chair: Stephan Beaulieu) | |
| B&A-06 (BR TO CEMENT AND BUILDING MATERIALS) | 11:00 | | Company Presentation | GEA | |
| | 11:05 | | Speaker's introduction by Session Chair | | |
| | 11:10 | BR01 | Pradip Kumar Banerjee | 100 % Utilisation of Bauxite Residue in Cement Plants - Hindalco Experience | Hindalco |
| | 11:25 | BR03 | Arne Peys | Calcination of bauxite residue with kaolinite to enhance its performance as supplementary cementitious material | VITO |
| | 11:40 | BR07 | Michiel Giels | Transforming bauxite residue into an alternative cement. The vitrification route, a scalable solution? | KU Leuven |
| | 11:55 | BR14 | Meerambika Behera | Preparation of nanocrystalline TiO ₂ -coated Bauxite residue and investigation of its photocatalytic activity | Kalinga Institute of Industrial Technology |
| | 12:10 | | | Q & A Session (chair: Georgy Banvolgyi) | |
| 14:00-14:30 | | | EGA Al-Taweelha Refinery Virtual Tour | | |
| 14:30-15:00 | | | Panel discussion: Strategic Supply of Alumina, post covid-19 era | | |
| 15:00-16:30 | | | Keynote sessions B | | |
| B&A-07 (BR TO CEMENT AND BUILDING MATERIALS) | 16:45 | | Company Presentation | SEFAR | |
| | 16:50 | | Speaker's introduction by Session Chair | | |
| | 16:55 | BR05 | Luana da Silveira | Effect of combination of fly ash and bauxite residue on the fresh and hardened state properties of cement compositions | University of São Paulo |
| | 17:10 | BR06 | Roberto Romano | Impact of using bauxite residue in association with Portland cement during the flow and hardening of suspensions | University of São Paulo |
| | 17:25 | BR08 | Rahul Roy | Prediction of the phase assemblage for low-CO ₂ emission ferrite-belite cements prepared using bauxite residue | KU Leuven |
| | 17:40 | BR13 | Junwei Ma | Experimental Research on Preparation of Ultra-low-density Ceramsite Proppant with Bauxite Waste Rock | CHALCO |
| | 17:55 | | | Q & A Session (chair: Patrick James) | |
| B&A-08 (BR APPLICATIONS, BR STORAGE & HANDLING) | 18:15 | | Company Presentation | | |
| | 18:20 | | Speaker's introduction by Session Chair | | |
| | 18:25 | BR02 | Roberto Romano | Case study of a large-scale application for bauxite residue in the composition of pavers block: evaluations of producing, building, and monitoring performance and durability | University of São Paulo |
| | 18:40 | BR04 | Marcio Barata | Bauxite by-products as mineral admixtures for Portland cements | Federal University of Pará |
| | 18:55 | BR17 | Lawrence Anderman | Methods for Measurement and Improvement of Bauxite Residue Rheological Properties | Suez |
| | 19:10 | BR18 | Adriano Lucheta | Application of Citric, Ascorbic and Acetic Acids as Alternative Route to Bauxite Residue pH Neutralization and its Effects in the Sodalite Mineral Phase | SENAI |
| | 19:25 | | | Q & A Session (chair: Thymis Balomenos) | |

ICSOBA 2021

ALUMINIUM & CARBON STREAM DAY 2



ICSOBA 2021 : Day 2, 23 November – Start time is "Bahrain Time"

| Start time | Code | Speaker | Title | Affiliation | |
|-------------|-------|---------|---|---|---|
| AL&CB-05 | 9:30 | | Company Presentation | Tokai Cobex | |
| | 9:35 | | Speaker's introduction by Session Chair | | |
| | 9:40 | AL17 | Markus Pfeffer | A Novel Cathode Design Using Copper Collector Bars for High Amperage Technologies | Tokai Cobex |
| | 9:55 | AL18 | Abdalla Alzarooni | Design and Performance of a Full Copper Collector Bar Pot at EGA | Emirates Global Aluminium |
| | 10:10 | AL19 | Maryam Salem Alkaabi | Automation of Ramming Process for Aluminum Reduction Cell | United Arab Emirates University |
| | 10:25 | AL20 | André-Felipe Schneider | A Thermoelectrical Approach for the Modelling of Different Ledge Regions in Aluminum Reduction Cells | Hatch |
| | 10:40 | | | Q & A Session (chair: Vinko Potocnik) | |
| AL&CB-06 | 11:00 | | Company Presentation | Tokai Cobex | |
| | 11:05 | | Speaker's introduction by Session Chair | | |
| | 11:10 | CB01 | Gøril Jahrsengene | Production of Bio-Binders from Pyrolysis Condensates and its Interaction with Calcined Petroleum Coke | SINTEF |
| | 11:25 | CB02 | Mohamad Reda Berkdar | Automated Monitoring of Deformed Anode Baking Furnace Pits Using Autonomous Drones and Deep Learning | Abu Dhabi University |
| | 11:40 | CB03 | Yvon Menard | Packing Material in Carbon Baking Furnaces | Retired Process Engineer |
| | 11:55 | CB04 | Alireza Sadeghi Chahardeh | A Numerical Analysis of the Mechanical Behavior of Coke Aggregates under Monotonic and Cyclic Loadings | REGAL |
| | 12:10 | | | Q&A Session (chair: Duygu Kocaefe) | |
| 14:00-14:30 | | | EGA AI-Taweelha Refinery Virtual Tou | Trimet | |
| 14:30-15:00 | | | Panel discussion: Strategic Supply of Alumina, post covid-19 era | | |
| 15:00-16:30 | | | Keynote sessions B | | |
| AL&CB-07 | 16:40 | | Company Presentation | Epiq | |
| | 16:45 | | Company Presentation | ABC Flex | |
| | 16:50 | | Speaker's introduction by Session Chair | | |
| | 16:55 | CB05 | Solène Bache | Water injection in the fluewalls of an Anode Baking Furnace to reduce Nitrogen Oxide emissions | Rio Tinto |
| | 17:10 | CB06 | Duygu Kocaefe | Determination of the Pitch Level in Green Anode Using Image Analysis | UQAC |
| | 17:25 | CB07 | Christophe Bouche | The first Rhodax Green Anode Plant in China | Fives |
| | 17:40 | CB08 | Binuta Patra | Studies on influence of recycled butts on properties of prebaked anodes | National Aluminium Company |
| | 17:55 | | | Q & A Session (chair: Gøril Jahrsengene) | |
| AL&CB-08 | 18:15 | | Company Presentation | | |
| | 18:20 | | Speaker's introduction by Session Chair | | |
| | 18:25 | CB09 | Sylvain Georgel | Automatic control in rodding shop: Feedback after two years of industrial operation | Fives |
| | 18:40 | AL21 | Andrey Yurkov | Graphite Foil Barrier Material for Reduction Cells with Improved Service Temperature | Moscow Lomonosov State University |
| | 18:55 | AL22 | Claudiane Ouellet-Plamondon | Valorization of Treated Spend Pot Lining Byproduct from the Primary Aluminum Production as Supplementary Cementitious Materials | École de technologie supérieure, Montréal |
| | 19:10 | AL23 | Yiwen Zhou | Numerical Simulation of the Voltage Drop with Different Bubbles under the Anode | Zhengzhou Institute of CHALCO |
| | 19:25 | | | Q & A Session (chair: Yasar Kocaefe) | |

ICSOBA 2021

BAUXITE & ALUMINA STREAM DAY 3



ICSOBA 2021 : Day 3, 24 November – Start time is "Bahrain Time"

| Start time | Code | Speaker | Title | Affiliation | |
|--|-------|-----------------|--|--|-----------------|
| B&A-9 (EQUIPMENT) | 9:30 | | Company Presentation | GEA | |
| | 9:35 | Monique Delaney | Speaker's introduction by Session Chair | | |
| | 9:40 | AA12 | Rosalin Pradhan | Productivity And Particle Strength improvement in Alumina precipitation circuit | Vedanta |
| | 9:55 | AA13 | Thomas Baumann | Hydrocyclones Productivity Impact in the Alumina Industry | AKW |
| | 10:10 | AA14 | Darwin Del Aguila | Corrosion Performance of Superhex Exposed to Alumina Refinery Plant Conditions | Aushex |
| | 10:25 | AA15 | Huimin Dai | Development and Application of the Organic Carbon Detection Device of Sodium Aluminate Solution | Chalco |
| | 10:40 | | Q & A Session (chair: Monique Delaney) | | |
| B&A-10 (ENERGY & ENVIRONMENT) | 11:00 | | Company Presentation | SEFAR | |
| | 11:05 | Carlos Suarez | Speaker's introduction by Session Chair | | |
| | 11:10 | AA19 | Alessio Scarsella | Green Alumina a Technological Roadmap | Metso Outotec |
| | 11:25 | AA20 | Stephane Beaulieu | The Transition to Low Carbon in Alumina Refining | Rusal Aughinish |
| | 11:40 | AA21 | Steffen Haus | Energy Optimization through a Metso:Outotec Process Control Optimizer in Fluid Bed Alumina Calciner at CBA | Metso Outotec |
| | 11:55 | AA22 | Jock Armstrong | A Fresh Water Free Refinery | Worley |
| | 12:10 | | Q & A Session (chair: Carlos Suarez) | | |
| | 12:30 | | B&A Best paper award | | |

ICSOBA 2021

ALUMINIUM & CARBON STREAM DAY 3



ICSOBA 2021 : Day 3, 24 November – Start time is "Bahrain Time"

| Start time | Code | Speaker | Title | Affiliation | |
|-------------|-------|------------------------|---|---|---------------------------------------|
| AL&CB-09 | 9:30 | | Company Presentation | ABC Flex | |
| | 9:35 | Vinko Potocnik | Speaker's introduction by Session Chair | | |
| | 9:40 | AL24 | Pierre Marcellin | Protection Against Open Circuit in ALPSYS Pot Control System | Rio Tinto Aluminium |
| | 9:55 | AL25 | Qing Wei | System Development and Application for Preventing the Explosion of Aluminium Reduction Cell Bypass Shunts | Zhengzhou Institute of CHALCO |
| | 10:10 | AL26 | Venkatannababu Thalagani | Heat Dissipation Study in Hall- Héroult Cells During Power Outage | Aditya Birla Science and Technology |
| | 10:25 | AL27 | Mykolas Vainauskas | Aluminium Sector Greenhouse Gas Emissions Over the Last Two Decades | International Aluminium Institute |
| | 10:40 | | | Q & A Session (chair: Vinko Potocnik) | |
| AL&CB-10 | 11:00 | | Company Presentation | Epiq | |
| | 11:05 | Michel Reverdy | Speaker's introduction by Session Chair | | |
| | 11:10 | AL28 | Salah Al Hassan | Towards Sustainable Zero Waste in Alba | Aluminium Bahrain |
| | 11:25 | AL29 | James Read | Excess Bath Material - Sustainable Solutions to an Environmental Liability | Bathco |
| | 11:40 | AL41 | Bijon Kumar Saha | Right Time to Invest in India for Greenfield Aluminium Smelters | Engineers India Limited |
| | 11:55 | AL31 | Jan Paepcke | Challenging Tailormade Solutions, Implementing New Conveying Equipment into Existing Systems | Claudius Peters |
| | 12:10 | | | Q & A Session (chair: Michel Reverdy) | |
| 14:00-14:30 | | | Alba Smelter Virtual Tour | | |
| 14:30-16:30 | | | Keynote sessions C | | |
| AL&CB-11 | 16:40 | | Company Presentation | Nalco | |
| | 16:45 | | Company Presentation | Tokai Cobex | |
| | 16:50 | B.K. Kakkar | Speaker's introduction by Session Chair | | |
| | 16:55 | AL32 | Anders Sørhuus | Pot Integrated ABART(PIA) Gas Treatment | REEL Group, Norway |
| | 17:10 | AL33 | Yasar Kocaefe | CFD Modelling of Particle-Laden Gas Flow and Filtration Through a Porous Medium | Université du Québec à Chicoutimi |
| | 17:25 | AL34 | Tatiana Penkova | Tools for Detecting Process Disruptions in Aluminium Production Based on Data Mining Techniques | Rusal |
| | 17:40 | AL35 | Bibhudatta Mohanty | Pot Abnormality Tracking System (PAT) For Critical Pot Detection | Vedanta Aluminium Limited, Jharsuguda |
| | 17:55 | | | Q & A Session (chair: B.K. Kakkar) | |
| AL&CB-12 | 18:15 | | Company Presentation | Tokai Cobex | |
| | 18:20 | André-Felipe Schneider | Speaker's introduction by Session Chair | | |
| | 18:25 | AL36 | Rajiv Kumar Yadav | Analytics-Driven Control for Anode Effect Reduction in 85 kA Pot | Aditya Birla Group |
| | 18:40 | AL38 | Rauan Meirbekova | Portable Elemental Analysis Device for Real-Time Chemical Analysis of Aluminium | DT Equipment Iceland |
| | 18:55 | AL39 | Berglind Höskuldsdóttir | Profitability Increase in Aluminium Smelter Potroom Using Real-Time Elemental Analysis from Liquid Metal based on LP-LIBS | DT Equipment Iceland |
| | 19:10 | AL40 | Mark Bumford | Operational Advances in Melting/Holding Furnace with In-Furnace Cameras and Laser Level Systems | RIA |
| | 19:25 | | | Q & A Session (chair: André-Felipe Schneider) | |
| | 19:45 | | | AL&CB Best paper award | |

Thank you for your attention!

**We look forward to seeing
you all online for ICSOBA-2021.**

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