

ICSOBA best paper winners

The International Committee for Study of Bauxite, Alumina, and Aluminium (ICSOBA) hosted its 43rd International Conference and Exhibition, in Nanning, Guangxi, China.

This year's conference saw nearly 700 participants, 602 attending onsite and 62 joining online. The programme included 13 keynote presentations and 220 technical papers, and was for the first time held over four days with five parallel streams.

A total of 11 Best Paper awards were presented to authors across the Bauxite, Alumina, Bauxite Residue, Electrodes, Aluminium, and Casthouse Operation subjects.

CASTHOUSE OPERATION:



Applications and Technological Breakthroughs of a 60-Tonne Double-Chamber Furnace in Aluminium Recycling Industry; By Gaston Riverin, David Gagnon, Denis Bouchard, Xianzhong Zhu, Guangsong Yu and Zhengying Han; of Rio Tinto, Saguenay, Canada, Suzhou Longray Thermal Technology, Suzhou, China, and China Nonferrous Metals Processing Technology (CNPT), Luoyang, China.

ALUMINIUM ELECTROLYSIS:



Optimizing Aluminium Reduction Cell Start-up — A Semi-Conventional Approach at Sohar Aluminium; by Agnello Borim, Ciro Kato, Abdullah Al Dhahli, Swapnil Sahu and Abdullah Al Yarubi; Sohar Aluminium Company, Sultanate of Oman.



An Equation for Bubble-Induced Voltage Drop on Slotted and Non-Slotted Anodes; Vanderlei Gusberti and Dagoberto Schubert Severo; CAETE Engenharia, Brazil.



Application Research of Nano-Ceramic-Based Anti-Oxidation Technology for Anodes and Stubs in Aluminium Electrolysis Cells; Boyi Wang; Hunan Bable Material Technology, Changde, China.

ELECTRODES:



An Optimized Mixing Approach for Improved Anode; Fabien Gaudière, Christophe Bouché, Salima Belbachir and Quentin Bernabé; Fives Solios, France and Université de Haute Alsace, France.

BAUXITE:



Thermal Denaturing and Study of Bauxite Organics; John Clark, Sharon Smith, Silmarilly Bahfenne and Jonathan Thabano; Rio Tinto Aluminium Pacific Operations, Australia.



Operational Excellence in Rodding Plant: A Path to Control Sodium in Anode Butts; Mohammad Al Shaibani and Zobia Husain Farzanah; Emirates Global Aluminium, United Arab Emirates.

BAUXITE RESIDUE:

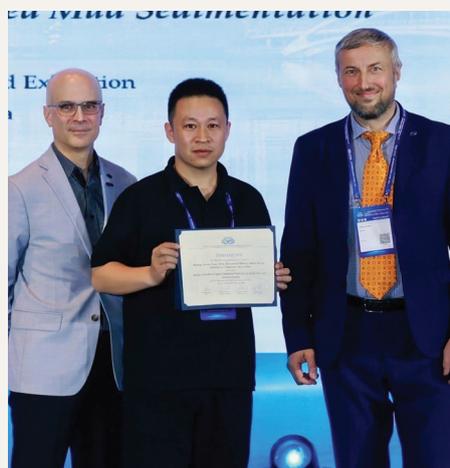


Bauxite Residue CO₂ Mineral Sequestration Assessment; Ab Rijkeboer, Carl Firman, David Cochrane and Ken Evans; Rinalco, Wassenaar, Netherlands, Independent Consultant Bunbury, Western Australia and International Aluminium Institute, UK.

ALUMINA:



Washer Overflow Liquor Chemistry Prediction by Using Mud Level Instrumentation; Rodrigo Neves, Diego Silva, Mohammed Miharaj, Sourav Biswas, Abdullah Al-Otaibi and Akram Khan; Ma'aden, Saudi Arabia.



Improving the Alkali Recovery Efficiency of Red Mud Sedimentation System; Deming Yin, Yuguo Chen and Zhiguo Li; Shenyang Aluminum and Magnesium Engineering & Research Institute (SAMI), Shenyang, China.



Crystallization and Separation of Potassium-Containing Salts in Sodium Aluminate Solution; Jilong Liu, Xiaolin Pan and Haiyan Yu; Northeastern University - School of Metallurgy, Shenyang, China.