

ICSOBA 2012 PAPERS AND PRESENTATIONS
BELÉM, BRAZIL - 30 & 31 OCTOBER 2012

ID	JOINT PROGRAM	(Corresponding) Author
	Key Note Presentations	
JP 1	Hydro's presence in Brazil – a strategic move of a global leader in aluminium	Fernando Simões Henriques
JP 2	Brazilian aluminum industry	Ayrton Filleti
JP 3	Developments and future of the bauxite, alumina and aluminium industry in China.	Li Wangxing
JP 4	Developments in the global bauxite, alumina and aluminium industry	Kelly Driscoll
	Alumina Supply Developments	
JP 5	Prospects and challenges for developing greenfield alumina refineries outside China	Eric Lavalou et al.
JP 6	Alumina Rodon project	Carlos Antonio Hofmann Gatti Filho et al.
JP 7	CAP - Companhia de Alumina do Pará project overview	Carlos Ianchuki Ferreira
JP 8	Development of Vietnam's bauxite, alumina and aluminium industry	Tran Quoc-Khanh et al.

ID	BAUXITE PROGRAM	(Corresponding) Author
	Guyana Shield Bauxites	
BX 1	Bauxite deposits in North Brazil - What it takes to make a mine	David Sugden
BX 2	The Barro Alto bauxite deposit, a large and rich bauxite deposit recently discovered in the Goias state, central Brazil	Tadeu Veiga
BX 3	Identification of mineral texture types in Brazil's southeastern Bahia bauxites	Lêda de Oliveira Ferreira et al.
BX 4	Suriname Bakhuys Mountains bauxite resources and their commercial potential	Rita Vaseur-Madhoeban
BX 5	First Bauxite's greenfield refractory-grade bauxite mine and vertical shaft sinter plant in Guyana	Jess Hutchinson
	Bauxite Mining	
BX 6	Socio environmental management of a bauxite enterprise in a conservation sustainable area in the Brazilian Amazon	Mileba Alves Moreira
BX 7	Environmental control of Parariquara water quality, upstream and downstream of Mineração Paragominas	Elaine Cristina dos Santos Cunha et al
BX 8	Asset management and life cycle cost	Felipe Dreyer
BX 9	Dredging as an asset in bauxite mining	Jorit de Groot
BX 10	The MMD Sizer for bauxite size reduction	Andrew B. Dodman et al.
BX 11	High pressure grinding rolls for bauxite size reduction	Frank-Peter van der Meer
BX 12	The application of the RopeCon system for bauxite transport	Stefanie Reis
	Application of Analytical Techniques	
BX 13	On-line moisture measurement of bauxite ore on conveyor belts	Sidney A Viana, Renato Oiko
BX 14	Rapid X-ray diffraction (XRD) for grade control of bauxites	Uwe König et al.
BX 15	Mineralogical characterization of Brazil's south east Bahia bauxites with SEM/ED/MLA and XRD/Rietveld method	R. Neumann et al.
BX 16	X-ray diffraction (XRD) studies of kaolinites to support mineralogical quantification of high silica bauxites from the Brazilian Amazon region	Simone Paz et al.
BX 17	Bauxite XRD cluster for the prediction of mineral processing behaviour	Juliana Livi Antoniassi et al.
BX 18	Cancelled	-
	Bauxite Beneficiation	
BX 19	Reasons for bauxite beneficiation	Ricardo M. Rachel et al.
BX 20	Operating experience with the Paragominas bauxite wash plant	Fábio A. Mendes
BX 21	Bauxite tailings paste thickener design from laboratory to pilot to industrial scale	Stephen Slottee et al.
BX 22	Disposal methods for fine tailings	Joaquim Pimenta de Ávila
BX 23	Trade-off study for bauxite reject disposal	Caio Moreira van Deursen
BX 24	CBA's Mirai processing plant	Arthur Pinto Chaves et al.
BX 25	Reduction of reactive silica from bauxite	Fernanda Arruda Nogueira Silva et al.
BX 26	The application of bauxite tailings in synthesisation of geopolymer	Wanchao Liu et al.
BX 27	Cancelled	-
	Bauxite Hydraulic Transport	
BX 28	World-class piston-diaphragm pumps for bauxite pipeline transport	Ted Beekman
BX 29	Analysis of critical velocity of bauxite slurry flow through the pipeline	Rômulo Rufino et al.
BX 30	Continuous filtration of pipelined bauxite slurries	Reinhard Bott et al.
BX 31	Microbiological diversity in samples of mined bauxite and its ability to form biofilm	Marcia T.S. Lutterbach et al.
BX 32	Corrosion and corrosion-erosion evaluation and proposed mitigation treatment for bauxite slurry pipeline	Danilo Zim et al.
BX 33	Rheological behavior of bauxite slurry in presence of rheology modifiers	Paulo Martins et al.
BX 34	Study of a bauxite slurry pipeline from Vietnam's highlands to the coast	Tran Quoc-Khanh et al.

ID	ALUMINA PROGRAM	(Corresponding) Author
	Energy Efficiency	
AA 1	Improving earnings through a certified energy management system	Damien Clancy
AA 2	History and current status of bauxite digestion	Alessio Scarsella et al.
AA 3	Utilizing waste energy for evaporation in the Bayer process	Hans Haraldsen et al.
AA 4	Cost and energy efficient pumping of bauxite slurry in sweetening processes	Heinz M. Nägel
AA 5	CircoCal™ - Pushing energy efficiency to its limit in circulating fluid bed calcination	Cornelis Klett et al.
AA 6	Changing the energy matrix in Alunorte	Felipe Picanço et al.
	Bayer Processing	
AA 7	Cost approach in daily management system	Eliane Allegrini et al.
AA 8	Break point studies - Effect of bauxite quality	Sankar Sankaranarayanan et al.
AA 9	Alumina extraction versus size distribution of ground bauxite	Caio Moreira van Deursen
AA 10	Rio Tinto Alcan journey in solid/liquid separation	Antonio Pucci et al.
AA 11	Performance Evaluation of CYFLOC™ ULTRA HX-5300 – A new HXPAM red mud flocculant applied in CBA	Renata Vinhas et al.
AA 12	The effect of additives on gibbsite auto-precipitation and bauxite residue flocculation when processing goethitic bauxites	Keddon André Powell et al.
AA 13	Utilizing Nalco RRA polymer technology to improve the red mud clarification process at CBA alumina plant in Brazil	Mauro Pinto dos Reis et al.
AA 14	Study of filter aid recovery from Bayer process	Lucélia Gonçalves Moraes et al.
AA 15	Precipitation control upgrade at Votorantim Metais - CBA's alumina refinery	Daniel Cavichioli
AA 16	Towards plug flow in a vertical agitated tank	Detlef Klatt et al.
AA 17	Alumina recovery estimation through material balance in Alumar refinery	François Santana et al.
	Alumina From Non-Bauxite Ores	
AA 18	The Orbite process: An integrated acid-based technology for extracting alumina from clay and alternative feedstock	Marie-Maxime Gilbert, Dennis Primeau
AA 19	Comparison of acidic and alkaline technologies for producing alumina from low grade ores	Alexander Senyuta et al.
	Bauxite Residue Storage	
AA 20	Red mud dewatering options	Quentin Avery, Tom Laros
AA 21	Enabling economical dry stacking of bauxite residue by efficient deliquoring and washing with a membrane filter press	Antti Häkkinen, et al.
AA 22	High efficiency and design optimization in red mud filtration with automatic filter press	Daive Collini et al.
AA 23	Dry storage technology: Strength and pore pressure development and compactability of tailings	Joaquim Pimenta de Ávila et al.
AA 24	Disposal of fly ash with bauxite residue (red mud): Studies on leaching, flow and hardening behaviour	Sankar Sankaranarayanan et al.
AA 25	Bauxite residue remediation and carbon sequestration from flue gas	Luis Alves Venancio et al.
AA 26	Monitoring vegetation and soil development on bauxite residue sand	Mark Dobrowolski, Martin Fey
AA 27	Transforming bauxite residue mud into soil for rehabilitation	Martin Fey, Mark Dobrowolski
AA 28	Closure plan of an alumina residue deposit – case study of Alunorte deposit	Joaquim Pimenta de Ávila et al.
	Bauxite Residue Utilisation	
AA 29	Mineralogy and chemistry of red mud from Bayer-processed Amazon bauxites	Marcondes Lima da Costa et al.
AA 30	Physical-chemical characterization of Venezuelan bauxite residues - Valorization options	Brenda Omaña
AA 31	Remediation of red mud using an innovative approach	Marie-Maxime Gilbert, Dennis Primeau
AA 32	Extraction of titanium compounds from Bayer process residue	Danielly da Silva Quesma et al.
AA 33	Direct reduced iron (DRI) from red mud - A green technology	B. Bhoi et al.
AA 34	Red mud sulfuric acid neutralization: Elaboration of process routes to return sodium and alumina into Bayer process	Alexander Suss et al.
AA 35	Influence of the addition of red mud from Bayer process in polymer matrixes of isophthalic polyester.	Mauro Aires de Oliveira et al.
AA 36	Potential of bauxite residue in developing innovative materials for engineering application	Dr. Mohini Saxena

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	Smelter Developments	
AL 1	Achieving low greenhouse gases emission with DUBAL's high amperage cell technology	Abdalla Al Zarouni et al.
AL 2	An update on AP-60 reduction technology	Bernard Allais
AL 3	Cancelled	-
AL 4	Development of the RA-300 & RA-400 pre-bake technologies for use at new aluminium smelters	Victor Buzanov et al.
AL 5	EMAL's success start up, steady, stable and fast	Abdulla Al Riyami
AL 6	An integrated approach for the brownfield debottlenecking of primary aluminum smelters	André Felipe Schneider et al.
AL 7	Production growth and future challenges in Aluminium Bahrain (Alba)	Nabeel Al Jallabi, et al.
AL 8	D18+: Modernization of DUBAL's original potlines	Sergej Akhmetov et al.
AL 9	Cancelled	-
AL 10	Value of integrated implementation of information and control systems in a greenfield smelter project	Hugues Tremblay
	Soderberg Technology	
AL 11	Development of the eco-friendly VSS technologies required for the modernization of aluminium smelters in Russia	Victor Buzanov et al.
AL 12	Feed control for vertical stub Soderberg side break pots based on digital filters	Nilton Nagem et al.
AL 13	Shawinigan HS Soderberg potlines restart	Claude Fradett et al.
	Equipment Development	
AL 14	Extended surface filters for smelter gas treatment centers (GTC) to increase capacity and allow higher temperatures	Michael Neate, Brad curell
AL 15	Gravity ventilation in potrooms a case study for greenfield and brownfield smelters	Niek Mentink
AL 16	Segregation effects during transport and storage: New options for large storage units	Arne Hilck et al.
AL 17	Gas-solid flow applications for powder handling in industrial processes operations	Paulo Douglas S. de Vasconcelos et al.
AL 18	The Achilles heel of a smelter: Preventive maintenance of transport vehicles	Maarten Meijer, Stef Sep
AL 19	Recycling materials through rotary crushing and material separation in the aluminium smelter	David Roth, Brian Best
	Pot Operation	
AL 20	Statistical method to predict anode effect events	Eliezer Batista et al.
AL 21	Cancelled	-
AL 22	Measuring bath properties using the STARprobe	Mark Dupuis et al.
AL 23	Implementation of STARprobe measurements & integrated pot control at Alumar	Ari Silva et al.
AL 24	Present progress in fast XRD analysis applying the Rietveld method for bath control	Karsten Knorr
AL 25	Aluminas: New approaches to understanding smelter performance	James Metson
AL 26	Phase quantification of alumina using Rietveld-XRD analysis	Frank Feret
	Carbon Technology	
AL 27	Non-conventional structural analyses of anode backing furnaces to extend their life	Urubatan de Souza Dias, Alexandre Aquino
AL 28	Anode baking process optimization	Cassio Linhares et al.
AL 29	History and development of intensive mixing technology for carbon paste preparation	Berthold Hohl
AL 30	Cooling of anode paste for aluminium production	Ilio Pellegrino Filho
AL 31	Advanced fume treatment technologies for paste plants and baking furnaces	Johannes Schedler, Heimo Thalhammer
AL 32	Performance of graphitized cathode blocks from several suppliers	Joao Alberto Martins, Mateus Oliveira Ladeira
AL 33	Influence of the sulphur content on wear of the carbon anodes in Hall - Heroult process	Stanislaw Pietrzyk, Jomar Thonstad
AL 34	Improvements on analysis of pet coke at VM-CBA and Petrocoque S.A.	Jean Carlos Pardo et al.
AL 35	Comparison of different methods to analyze carbon materials	Geraldo Fernandes, Marcos Moura Silva