

Technical program

Sunday 7 September 2008

1500	Registration opens Speakers support centre opens
1700 – 1730	Chairpersons briefing session Venue: Meeting Room 4, Darwin Convention Centre
1800	Welcome reception and opening of industry exhibition: Industry exhibition, Hall 4, Darwin Convention Centre <i>Supported by Honeywell</i>
2000	Welcome reception concludes and industry exhibition closes Registration closes Speakers support centre closes

Monday 8 September 2008

0700	Registration opens Speakers support centre opens	
0815	Industry exhibition opens	
	Venue: Auditorium 2 Chair: Steve Healy, Rio Tinto Alcan Opening plenary session <i>Supported by Rio Tinto Alcan</i>	
0830	Welcome: Steve Healy AQW 2008 Chair, Rio Tinto Alcan, QLD	
0845	Welcome to Country	
0855	Official opening	
0910	Keynote presentation #1 Where we are, where do we go from here? Steve Hodgson Rio Tinto Alcan, QLD	
1000	Morning tea: industry exhibition <i>Supported by Clear Edge Filtration</i>	
	Venue: Auditorium 2 Chair: Lyndon Armstrong, Rio Tinto Alcan Introductory plenary session: OVERVIEW	
1030	Introduction to technical presentations Lyndon Armstrong AQW 2008 Technical Chair, Rio Tinto Alcan, QLD	
1040	Rio Tinto Alcan Gove G3 experience on pre-assembled modules Richard Valenti Rio Tinto Alcan, QLD	
1100	Customer satisfaction indexes Stephen Lindsay Alcoa World Alumina, USA	
1120	Geology, mining operation and scheduling of the Paragominas Bauxite Mine Octavio Guimares Vale, Brazil	
1140	New thickener with thick paste removal system Guy Peloquin Rio Tinto Alcan, Canada	
1200	Sustainability assessment of bauxite residue management: theory, methodology and application David Cooling Alcoa World Alumina, WA	
1220	Wrap up and questions (meet the speakers)	
1230	Lunch: industry exhibition <i>Supported by Hatch Associates</i>	
	Venue: Waterfront Rooms 1 & 2 Chair: Ian Harrison, Alcoa World Alumina, WA Concurrent session: FUNDAMENTALS, SCIENCE and EDUCATION	Venue: Auditorium 2 Chair: Daniel Thomas, Worley Parsons Concurrent session: PROCESS
1330	Mobility of included soda in sodalite Peter Smith CSIRO Minerals, WA	1330 Double digestion process: an energy efficient option for treating boehmitic bauxites Sudhir Kumar Rio Tinto Alcan, Canada
1350	Analytical techniques to improve the understanding of scale adhesion fundamentals Nick Pearson Alcoa World Alumina, WA	1350 Robust multivariable predictive control technology implementation in an alumina digestion unit Jefferson Batista Alunorte, Brazil
1410	The impact of magnesium on tricalcium aluminate (TCA) filter aid properties Alexander Suss RUSAL VAMI, Russia	1410 Simulation applications for alumina refining Gill Tetley Rio Tinto Alcan, QLD, Neil Freeman Honeywell Process Solutions, WA and Robert de Roos Honeywell Process Solutions, QLD
1430	Alumina Quality Workshop and Alumina Technical Panel Bayer Education Initiatives Bogdan Skomra Alumina Technical Panel Member and AQW Education Sub-committee Chairperson, QLD	1430 New technology for indirect thick slurry heating system Mark Edwards Hatch Associates, WA
1450	Wrap up and questions (meet the speakers)	1450 Wrap up and questions (meet the speakers)
1500	Afternoon tea: industry exhibition	

Monday 8 September 2008

	Venue: Waterfront Rooms 1 & 2 Chair: Anne Duncan, Rio Tinto Alcan Concurrent session: POSTER SESSION 1		Venue: Auditorium 2 Chair: Benny Raahauge, FLSmidth Minerals Concurrent session: QUALITY and MEASUREMENT
1530	Scale inhibition and control: results of a five year field study into unique electrochemical techniques Ron Scaddan Savcor Group Ltd, WA	1530	Impact of calciner technologies on smelter grade alumina microstructure and properties Linus Perander Light Metals Research Centre, The University Of Auckland, New Zealand
1537	Selection and optimization of synthetic flocculant for high rated decanters (deep cone thickeners) Puliyur K.N. Raghavan Bharat Aluminium Co. Ltd, BALCO, India		
1544	Determination of the sodium contribution of solvent-extractable organic compounds in Bayer liquor Thomas Smith Multitrator, QLD		
1551	Laboratory research and industrialisation test on two-stage continuous carbonisation precipitation technology for producing high grade sandy alumina Guangzhu Li Shanxi Branch Of China Aluminium Corporation, China	1550	Characterisation of scale hardness Nick Pearson Alcoa World Alumina, WA
1558	Foundations for the future: QAL's development of foundations for its future Residue Disposal Area Peter Richter Queensland Alumina, QLD		
1605	HDPS: an eco-friendly and sustainable technology Raymond-Jean Roumieu ALCENG, France		
1612	Development of an acid resistant treatment grout utilising modified bauxite refinery residues Malcolm Clark Environmental Science and Management, NSW	1610	Measurement of particle strength in alumina powders using ultrasound Peter Coghill CSIRO Minerals, NSW
1619	Dissolution of solids in process waste streams Danita Paton Queensland Alumina, QLD		
1626	Effect on aluminium solubility when acid is used to neutralise residue Andrea Sturt Rio Tinto Alcan, QLD		
1633	Heat treatment of Low Carbon Steel (LCS) tubes to improve corrosion resistance Darwin Del Aguila Rio Tinto Alcan, QLD	1630	Development of a new Attrition Index using Single Impact Denis Audet Rio Tinto Alcan, QLD
1640	What is the kinetic order of desilication? Franca Jones Nanochemistry Research Institute, WA		
1647	Wrap up and questions	1650	Wrap up and questions (meet the speakers)
1700 – 1730	Poster viewing		
1730 – 1830	Happy hour: industry exhibition <i>Supported by Albany International</i>		

Tuesday 9 September 2008

0800	Registration opens Speakers support centre opens Industry exhibition opens		
	Venue: Auditorium 2 Chair: Ivan Anich, Hatch Associates, QLD Plenary session <i>Supported by Sefar</i>		
0830	Introduction		
0840	Keynote presentation #2 The Chinese alumina industry: developments, prospects and future challenges Songqing Gu Zhengzhou Research Institute of Chalco, China		
0920	MAX HT™ 500: A second generation sodalite scale inhibitor Akshaya Patel Cytec, WA		
0940	Bayer calcination waste heat recovery Dean Illeveski Alcoa World Alumina, WA		
1000	Wrap up and questions (meet the speakers)		
1015	Morning tea: industry exhibition <i>Supported by Bechtel</i>		

	Venue: Waterfront Rooms 1 & 2 Chair: Ian Bond, Alcoa World Alumina, WA Concurrent session: PROCESS EQUIPMENT		Venue: Auditorium 2 Chair: Guy Forte, Rio Tinto Alcan, Canada Concurrent session: RESIDUE MANAGEMENT
1045	Effective Bayer liquor clarification: retrofit or new with DrM Fundabac® filter internals Goetz Bickert GBL Process Pty Ltd, NSW	1045	Transport of bauxite residue leachate through clay liners of storage impoundments: a synthesis of experimental and simulated data Geoffrey Thomas Alcoa World Alumina, WA
1105	Advanced Pregnant Liquor Purification with a new backflush filter Reinhard Bott BOKELA GmbH, Germany	1105	Bauxite residue filtration experience in Gardanne and Aluminium of Greece Alumina Plant Jean-Marc Rousseaux Rio Tinto Alcan, France
1125	Understanding material properties to obtain maximum efficiency from your filters Luc Parent Sefar BDH, Canada	1125	Co-precipitation of organics with hydrotalcite Aaron Matijasevich Queensland Alumina, QLD
1145	Application of Frame-Trak® cloth fixing technology within the production environment: the Worsley experience Terry Vallow Clear Edge Filtration, VIC	1145	Full life cycle integrated and risk-based approach for bauxite residue management Hongyu Li Rio Tinto Alcan, QLD
1205	Mineral processing technologies in the bauxite and alumina industry Stephan Buntenbach AKW Apparate and Verfahren, Germany	1205	Geochemistry of bauxite refinery residues neutralised by different methods Malcolm Clark Environmental Science and Management, NSW
1225	Wrap up and questions (meet the speakers)	1225	Wrap up and questions (meet the speakers)
1230	Lunch: industry exhibition <i>Supported by Tyco Flow Control</i>		

Tuesday 9 September 2008

	Venue: Auditorium 2 Chair: Qi Dai, Cytec Industries Inc., USA Concurrent session: PRECIPITATION & IMPURITIES		Venue: Waterfront Rooms 1 & 2 Chair: Gerald Roach, Alcoa World Alumina Concurrent session: POSTER SESSION 2
1330	Development of a laboratory semi-continuous gibbsite precipitator Iztok Livk CSIRO Minerals, WA	1330	Factors affecting TAA determination for bauxite characterisation Peter Smith Parker CRC CSIRO Minerals, WA
		1337	A local partnership: Rio Tinto Alcan and GHD deliver environmental and engineering services at RTA's Yarwun Refinery Joanna Lee GHD, QLD and Natalie Madden Rio Tinto Alcan Yarwun, QLD
1350	The development of an on-line ultrasonic particle size analyser for Bayer liquors Peter Coghill CSIRO Minerals, NSW	1344	Alkalinity and acid neutralizing capacity (ANC) of constituents in Bayer refinery neutralized wastewater Jeffrey Tsang Charles Darwin University, NT
		1351	Characterisation of bauxite residue and seawater neutralised bauxite residue using vibrational spectroscopic techniques Sara Palmer Queensland University of Technology, QLD
1410	Co-oxidation of refractory Bayer organics using sodium malonate derivatives and wet air oxidation James Tardio RMIT University, VIC	1358	Steam slurry pump strategic maintenance approach Geoff Rohde Queensland Alumina, QLD
		1405	Improved filtration and washing of Al-Hydrate product: cost savings by modern filter design Juergen Hahn BOKELA GmbH, Germany
1430	Mechanisms of degradation of hydrate yield inhibitors by wet oxidation Joanne Loh CSIRO Minerals, WA	1412	Improved filtration and washing capacities of fine and coarse seed hydrate with the new high capacity disc filters type 'Krauss-Maffei SSFE' Dirk-Eckhard Keller KMPT AG, Germany
		1419	Increase of productivity operating with two coarse seed filters in parallel Cleto Maués Alunorte, Brazil
1450	Questions and wrap up (meet the speakers)	1426	The solubility of titanate minerals in synthetic Bayer liquors Franca Jones Nanochemistry Research Institute, WA
		1433	Removing inorganic contaminants from human drinking water using modified red mud David McConchie Southern Cross University, NSW
1500	Afternoon tea and poster viewing: industry exhibition	1440	Strength and sulphate resistance of cement mortars containing neutralised bauxite refinery residue (Bauxsol™) Malcolm Clark Environmental Science and Management, NSW
			View poster display – all delegates
1530	Venue: Waterfront Rooms 1 & 2 Chair: Bogdan Skomra, QAL, QLD Concurrent session: EMISSIONS	1530	Venue: Auditorium 2 Chair: Jorge Aldi, Alunorte, Brazil Concurrent session: PROCESS OPTIMISATION
1550	Variability and uncertainties in the air emissions inventory from the Worsley Alumina Refinery Peter Forster ChemSearch Consulting, WA	1530	Increasing the Effectiveness and Selectivity of Crystal Growth Modifiers John Kildea NALCO, NSW
1610	Humidity and ammonia interference study for modified and non-modified gold based mercury vapour sensor for alumina refineries Ylias Sabri RMIT University, VIC	1550	Lifecycle activities for safety instrumented systems in an alumina refinery Greg Daniels Rio Tinto Alcan Gove, NT
1630	Reduction of alkali emissions exiting the vent of holding tanks at QAL Tony Leong Queensland Alumina, QLD	1610	Precipitation kinetic parameter estimation Michael Kiriazis Queensland Alumina Ltd, QLD
1650	Ozonation for destruction of odorants in alumina refinery condensate Peter Anderson Rio Tinto Alcan Yarwun, QLD	1630	Hyperbaric bauxite filtration: New ways in bauxite transportation Rainer Prader Andritz AG, Brazil
1700	Questions and wrap up (meet the speakers)	1650	Questions and wrap up (meet the speakers)
1700	Sessions conclude Registration closes Speakers support centre closes Industry exhibition closes		
1830 – 2030	Paradise at the Point cocktail evening Pee Wee's at the Point <i>Supported by FLSmidth</i>		

Wednesday 10 September 2008

0430 – 2130	Technical tour: Rio Tinto Alcan's Gove operations site visit This tour is fully booked.
0830 – 1300	Territory Wildlife Tour: the Territory's wildest wildlife experience This tour is fully booked.

Thursday 11 September 2008

0800	Registration opens Speakers support centre opens Industry exhibition opens	
	Venue: Auditorium 2 Chair: David Holmyard, Rio Tinto Alcan, QLD Plenary session	
0830	Introduction	
0840	Keynote presentation #3	
0920	Containing costs of refinery construction Peter McIntosh Australus Management Services, WA	
0940	Doubling the capacity of 50 year old CCD circuits at low cost in Jamaica Ron Kahane Kahane Consulting, WA	
1000	Implementing seawater neutralisation at Gove John Anderson Rio Tinto Alcan, QLD	
1000	Wrap up and questions (meet the speakers)	
1010	Morning tea: industry exhibition	
	Venue: Waterfront Rooms 1 & 2 Chair: Mike Sisley, QAL, QLD Concurrent session: EQUIPMENT OPTIMISATION	Venue: Auditorium 2 Chair: S. Sankaranarayanan, Hindalco Industries, India Concurrent session: SCALING
1040	Integrated evaluation for optimisation of solid dewatering & handling operations: Potential applications and benefits for the alumina industry Goetz Bickert The University of New South Wales, NSW	1040 Electrochemical scale inhibition: How a cathodic current prevents scaling Raymond Breault Rio Tinto Alcan, Canada
1100	Agitators in alumina industry: the design criteria that make your plant work ... or not Florent Bouquet Milton Roy Mixing, France	1100 A fundamental study of gibbsite scale nucleation on mild steel Craig Klauber CSIRO Minerals, WA
1120	Filtration of bauxite after pipeline transport: big challenges - proper solutions Reinhard Bott BOKELA GmbH, Germany	1120 Characteristics of incrustations formed in high temperature tube digestors Alexander Suss RUSAL VAMI, Russia
1140	Flow modelling of Lunkenheimer valves Nigel Hardie Tyco Flow Control, QLD and Lachlan Graham CSIRO, VIC	1140 Dynamic adsorption isotherm measurements applied to known organic precipitation inhibitors and scale control studies Anne Brisach-Wittmeyer University of Sherbrooke, Canada
1200	Questions and wrap up (meet the speakers)	1200 Questions and wrap up (meet the speakers)
1215-1330	Lunch: industry exhibition (exhibitors' draws & wrap-up) <i>Supported by Worley Parsons</i>	
1330	Industry exhibition closes (exhibitors commence dismantle)	
	Venue: Auditorium 2 Chair: Lyndon Armstrong, Rio Tinto Alcan, QLD Final plenary session: VALUE DEVELOPMENTS <i>Supported by FLSmidth Minerals</i>	
1330	Increasing alumina precipitation yield using soda control John Besida Alcoa World Alumina, WA	
1350	The operator of the future.....is here now! Mark Richards I&E Systems	
1410	Prospecting for microbes Claire Streton-Joyce Charles Darwin University, NT	
1430	Design, simulation and operation of the Miltonia Beneficiation Circuit Francisco Edvan Vale, Brazil	
1450	Keynote presentation #4 Waste utilisation - the key to industry win-win David Cooling Alcoa World Alumina, WA	
1530	Session concludes	
1530 - 1600	Afternoon tea	
1600	Registration closes Speakers support centre closes	
1800 - 2300	AQW Gala Dinner SKYCITY Darwin lawns <i>Supported by Rio Tinto Alcan</i> Includes formal closing acknowledgements, prizes awarded for best paper & poster and handover of AQW 2011 to BHP Billiton	

Friday 12 September 2008

0900	Registration opens Time is available for networking & industry meetings, as organised by delegates
1130 - 1300	Farewell lunch for all delegates, featuring Margaret River wines (foretaste of AQW 2011)