

Programme BR2015

Monday 5 October 2015	
13:00	Registration + Opening Reception
15:00	A Welcome Opening by the hosts
Theme	From bauxite to a bauxite residue for neutralisation, revegetation and beyond
15:20	Keynote Lecture Jeremy HOWELLS <i>"Bauxite Residue: Harnessing open innovation and effective communities of innovation and practice"</i> University of Southampton (UK)
16:00	Ronan COURTNEY <i>"Neutralisation, revegetation and beyond: An overview of a decade of bauxite residue research"</i> University of Limerick (Republic of Ireland)
16:20	William MAYES¹, Ian BURKE² <i>"Risks, remediation and recovery: lessons for bauxite residue management from Ajka"</i> ¹ University of Hull (UK), ² University of Leeds (UK)
16:40	Coffee Break – Poster Session
17:10	Derek HIGGINS ¹ , Ronan COURTNEY , TERESA CURTIN ¹ , Louise CLUNE ² <i>"Use of Constructed Wetlands for treating BRDA leachate and run-off"</i> ¹ University of Limerick (Republic of Ireland), ² Rusal Aughinish Alumina
17:30	Gheorghe DOBRA¹, Laurentiu FILIPESCU², Nicolae ANGHELOVICI¹, Vicol ALISTARH¹, Sorin ILIEV¹ <i>"Bauxite residue safety disposal and friendly environmental processing permanent care at Vimetco Alum SA Tulcea"</i> ¹ Vimetco Alum Tulcea (Romania), ² University Politehnica (Romania)
17:50	Reinhard BOTT, Thomas LANGELOH <i>"Process options for the filtration and washing of bauxite residue"</i> BOKELA GmbH (Germany)
18:10	End of Monday sessions

Tuesday 6 October 2015	
Theme	Recovery of Fe, Al, Ti
	Keynote Lecture
09:00	Ken EVANS <i>"Success and challenges in the management and use of bauxite residue"</i> IAI Consultant
09:40	Efthymios BALOMENOS^{1,2} , Dimitrios PANIAS ² , Yiannis PONTIKES ³ <i>"Mud2Metal: A holistic flow sheet for the bauxite residue valorisation"</i> ¹ Auminium of Greece (Greece), ² NTUA (Greece), ³ KU Leuven (Belgium)
10:00	Brajendra MISHRA¹ , Sumedh GOSTU ² <i>"Opportunities for high volume commercial products conversion from bauxite residue"</i> ¹ Worcester Polytechnic Institute (USA), ² Colorado School of Mines (USA)
10:20	Gennadiy PODGORODETSKIY ¹ , Vladislav GORBUNOV ¹ , Andrey PANOVA ² , Sergey GORBACHEV² <i>"Complex additives on the basis of bauxite residue for intensification of iron-ore sintering and pelletising"</i> ¹ MISIS (Russia), ² UC RUSAL (Russia)
10:40	Coffee Break – Poster Session
11:10	Frank M. KAUSSEN , Bernd FRIEDRICH <i>"Soda sintering process for the mobilisation of aluminum and gallium in red mud"</i> RWTH Aachen University (Germany)
11:30	Teemu KINNARINEN¹ , Lloyd HOLLIDAY ² , Antti HAKKINEN ¹ <i>"On the recovery of caustic and alumina from bauxite residues by leaching"</i> ¹ Lappeenranta University of Technology (Finland), ² Outotec (Filters) Oy (UK)
11:50	Rinat ABDULVALIYEV, Erbulat TASTANOV, Sergey GLADYSHEV, Kulzhaiyk BEISEMBEKOVA, Nazym AKHMADIYEVA <i>"Wasteless processing of red mud by hydrogarnet technology"</i> JSC "Center of Earth Sciences, Metallurgy and Ore Beneficiation", Kazakhstan
12:10	Peter James JOYCE¹ , Andrei GORONOVSKI ¹ , Anna BJÖRKLUND ¹ , Alan TKACZYK ² <i>"Incorporating the radiological effects and environmental impact assessment of Naturally Occurring Radioactive Materials (NORM) into the life cycle environmental optimisation of Bauxite Residue (BR) valorisation"</i> ¹ KTH (Sweden), ² University of Tartu (Estonia)
12:30	Lunch

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Theme	Cement, concrete, ceramics and novel applications
13:30	Marcel SCHLAF , Elham KARIMI, Véronique JOLLET, Christopher GISSANE <i>"Synergistic co-processing of red mud with Pyrolysis Bio-Oil: from neutralisation to catalysis"</i> University of Guelph (Canada)
13:50	Justin HARGREAVES¹ , Ian PULFORD ¹ , Abdulrahman ALHARTHI ¹ , Vidya BATRA ² , Malini BALAKRISHNAN ² , Nidhi GUPTA ² <i>"The application of red mud as a pre-catalyst for the formation of functionalised carbons"</i> ¹ University of Glasgow, ² TERI(India)
14:10	Gábor MUCSI¹ , Roland SZABÓ ¹ , Ádám RÁCZ ¹ , Zoltán MOLNÁR ¹ , Ferenc KRITÁLY ¹ , Sanjay KUMAR ² <i>"Influence of red mud on the properties of geopolymer derived from mechanically activated lignite fly ash"</i> ¹ University of Miskolc (Hungary), ² CSIR NML (India)
14:30	Rodica ZAVOIANU¹ , Anca CRUCEANU ¹ , Octavian Dumitru PAVEL ¹ , Luminita Eleonora MARA ² , Teodor VELEA ² , Ruxandra BIRJEGA ³ <i>"Alternative valorisation of red mud as catalyst for sulphide oxidation in wastewater"</i> ¹ University of Bucharest (Romania), ² IMNR (Romania), ³ National Institute of Plasma (Romania)
14:50	Intensified poster presentation session
15:20	Coffee Break – Poster Session
15:50	Tobias HERTEL , Lukas ARNOUT, Arne PEYS, Lieven PANDELAERS, Bart BLANPAIN, Yiannis PONTIKES <i>"A proposal for a 100% use of bauxite residue: the process, results on the novel Fe-rich binder and how this can take place within the alumina refinery"</i> KU Leuven (Belgium)
16:10	Sanjay KUMAR , Rakesh KUMAR <i>"Synergising red (mud) and grey (ash) for greener geopolymers"</i> CSIR – National Metallurgical Laboratory (India)
16:30	Tibor KOVÁCS ^{1,2} , Miklós HEGEDŰS ¹ , Zoltán SAS¹ , Gergő BÁTOR ² , Edit TÓTH-BODROGI ¹ , János SOMLAI ¹ <i>"Study of reusability of red mud in clay based building materials, on radiological point of view (gamma dose, exhalation, leachability)"</i> ¹ University of Pannonia (Hungary), ² Social Organisation for Radioecological Cleanliness (Hungary)
16:50	Wanchao LIU <i>"The developing of red mud utilisation in China"</i> CHALCO (China)
17:10	End of Tuesday sessions
18:30	Visit to Beguinage
19:30	Symposium Dinner, IAI and CR3 addressing the participants

Wednesday 7 October 2015	
Theme	Recovery of minor elements and REE
09:00	Keynote Lecture Koen BINNEMANS <i>"Rare earths: essential elements for the transition to a low-carbon economy"</i> KU Leuven (Belgium)
09:40	Lamprini-Areti TSAKANIKI, Maria OCHSENKUEHN-PETROPOULOU , <i>"Separation and recovery of rare earths after red mud leaching by cation - Exchange Chromatography"</i> NTUA (Greece)
10:00	Chenna Rao BORRA , Jasper MERMANS, Bart BLANPAIN, Yiannis PONTIKES, Koen BINNEMANS, Tom VAN GERVEN <i>"Selective leaching of rare earths from bauxite residue after sulphation roasting"</i> KU Leuven (Belgium)
10:20	Coffee Break – Poster Session
10:50	Platon GAMALETOS ^{1,2,3} , Athanasios GODELITSAS ² , Takeshi KASAMA ³ , Theodore MERTZIMEKIS ² , Alexei KUZMIN ⁴ , Jörg GÖTTLICHER ⁵ , Ralph STEININGER ⁵ , Yiannis PONTIKES ⁶ <i>"The nature of Thorium in bauxite and bauxite residue from Greece"</i> ¹ NTUA (Greece), ² University of Athens (Greece), ³ Technical University of Denmark, ⁴ University of Latvia (Latvia), ⁵ Karlsruhe Institute of Technology (Germany), ⁶ KU Leuven (Belgium)
11:10	Joris ROOSEN ^{1,2} , Stijn VAN ROOSEDAEL ¹ , Chenna Rao BORRA ¹ , Tom VAN GERVEN ¹ , Steven MULLENS ² , Koen BINNEMANS ¹ <i>"Separation of Scandium from leachates of Greek bauxite residue by adsorption with functionalised chitosan-silica hybrid materials"</i> ¹ KU Leuven (Belgium), ² VITO (Belgium)
11:30	Panagiotis DAVRIS , Efthymios BALOMENOS, Dimitrios PANIAS, Ioannis PASPALIARIS <i>"The use of ionic liquids for rare earth element extraction from bauxite residue"</i> NTUA (Greece)
11:50	Bieke ONGHENA , Chenna Rao BORRA, Tom VAN GERVEN, Koen BINNEMANS <i>"Selective recovery of Scandium(III) from bauxite residue leachates by solvent extraction with a carboxyl-functionalised ionic liquid"</i> KU Leuven (Belgium)
12:10	Lunch
Theme	Recovery of minor elements and REE
13:10	Éva UJACZKI ^{1,2} , Yannick S ZIMMERMANN ^{1,3} , Viktória FEIGL ² , Markus LENZ ^{1,4} <i>"Recovery of rare earth elements from Hungarian red mud with combined acid leaching and liquid-liquid extraction"</i> ¹ Institute for Ecopreneurship (Switzerland), ² Budapest University of Technology and Economics (Hungary), ³ RWTH Aachen University (Germany), ⁴ Wageningen University (The Netherlands)
13:30	Şerif KAYA ¹ , Yavuz Ali TOPKAYA ¹ , Carsten DIETRICH ² <i>"Hydrometallurgical extraction of Scandium from Lateritic Nickel Ores"</i> ¹ METU (Turkey), ² MEAB GmbH (Germany)
13:50	Olga PETRAKOVA , Andrey PANOV, Sergey GORBACHEV, Oleg MILSHIN <i>"Improved efficiency of red mud processing through scandium oxide recovery"</i> UC RUSAL (Russia)
14:10	Intensified poster presentation session
14:40	Coffee Break – Poster Session
15:10	Panel discussion
15:40	Award
15:00	Closing session
16:15	Finale coffee session

Intensified Poster presentation Session on 6th October

Sedat ARSLAN¹, Havvanur UÇBEYİAY², Bekir ÇELİKEL¹, Meral BAYGÜL¹, Seyit AVCU¹, Gökhan Kürsat DEMİR¹
"ETI Aluminium red mud characteristics and evaluation of dewatering performance"
¹ETI Aluminium (Turkey), ²Necmettin Erbakan University (Turkey)

György BÁNVÖLGYI

"Opportunities within the alumina refineries to make bauxite residue easy to downstream use"
Senior Process Consultant

Brenda OMAÑA SANZ, Arnaud GAUTHIER

"Re-use options of Venezuelan bauxite residue: potential applications in acid mine drainage remediation"
University Lille (France)

Panagiotis ANGELOPOULOS , **Maria TAXIARCHOU**

"Thin-layer modelling of red mud drying"
NTUA (Greece)

Ivana SMIČIKLAS¹, Mihajlo JOVIĆ¹, Marija ŠLJIVIĆ-IVANOVIĆ¹, Aleksandra MILENKOVIĆ¹, Slavko SMILJANIĆ²

"Metal speciation in bauxite residue with implications to its use as an immobilisation agent"
¹Vinča Institute of Nuclear Sciences (Serbia), ²University of East Sarajevo (Bosnia and Herzegovina)

Valérie CAPPUYNS

"Use of red mud in soil remediation: review of applications and challenges"
KU Leuven (Belgium)

Juraj LADOMERSKY, Emília HRONCOVÁ

"Two stage bauxite residue utilisation method"
Matej Bel University (Slovakia)

Zoltán SAS, Miklós HEGEDŰS, János SZÁNTÓ, János SOMLAI, Tibor KOVÁCS

"Radon/thoron exhalation characteristic of heat treated red mud, relationship between internal structure features, possibilities of reduction"
University of Pannonia (Hungary)

Intensified Poster presentation Session on 7th October

Frank KAUBEN, Ioannis SOFRAS, Bernd FRIEDRICH

"Carbothermic reduction of red mud in an EAF and subsequent recovery of aluminum from the slag by pressure leaching in caustic solution"
RWTH Aachen University (Germany)

Jon GREEN, Terry GREEN

"Bauxite residue and other waste materials in light weight aggregate production using a trefoil kiln"
IMTEK, University of Freiburg (Germany)

Amy VAN DEN BULCK, Yiannis PONTIKES

"New hydrothermal methods for the transformation of iron oxides in bauxite residue into magnetite"
KU Leuven (Belgium)

Maximilian HERBECK, Christian ADAM

"Substance separation by reductive fusion of red mud"
Thermochemical Residues Treatment and Resource Recovery, BAM (Germany)

Jianmin ZENG, Aoping HE, Xiaole ZENG, Haihong ZHAN, Deguang Cao

"Experimental Investigation on recovery of Fe-Ni alloy from Bayer red mud and laterite Nickel"
Guangxi University (China)

Vladimir RYCHKOV, Evgeny KIRILLOV, **Sergey KIRILLOV**, Gregory BUNKOV, Maxim MASHKOVCEV, Maxim BOTALOV, Vladimir Semenishchev

"Carbonate treatment and sorption of scandium from red mud"
Ural Federal University (Russia)

Wenzhong ZHANG, Risto HARJULA, Risto KOIVULA

"Preliminary investigation of rare earth separation by titanium phosphate materials"
University of Helsinki (Finland)