

**5th International Conference on Electrodes and Support Services
for Primary Aluminium Smelters
Reykjavik 10-12 May 2011**

5th Conference 2011

Opening Ceremony (Tuesday 10th, 8:30)

Chairman: Thorsteinn Ingi Sigfusson, Innovation Center Iceland

- **Keynote Presentation**
- Chris Bayliss, International Aluminium Institute
- Aluminium for future generations – A long term, global perspective.

- **Session 1. Modern Rodding Plants (Tuesday 10th, 10:50)**
Chairman: Ingolfur Thorbjornsson, Innovation Center Iceland.
 2. Navin Indraj and Helio Guedes, Qatalum. Start-up of a modern ASP – The Qatalum experience.
 3. Barry Woodrow, VHE. Minimising the voltage drop in the rodding process..
 4. Stephen Lindsay, Alcoa. Crushed tapped bath quality.

- a. **Session 2. Anode Butts and Rods Transportation, Cleaning and Recycling (Tuesday 10th, 13:30)**
Chairman: Thröstur Gudmundsson, HRV Engineering.
 1. Geir Hlödversson, Alcoa Fjarðaál. Utilisation of by-products.
 2. Stephen Lindsay, Alcoa. Composition of Anodes Cover Material.
 3. Odd Einar Frosta, Norsk Hydro. Butts handling – Consequences for the Electrolysis, the Anode service and the Past plant.
 4. Armin Vogel, Steinert Electromagnetbau. Improving bath quality and smelter efficiency using innovative sorting technologies for carbon and metal removal.

- b. **Session 3. Anodes and Cathodes – Optimal Assembly (Wednesday 11th, 8:30)**
Chairman: Halldor Gudmundsson, Nordural
 1. Stanislav Pietrzyk, AGH University of Science and Technology. Aluminium Carbide formation on cathode carbon lining in Hall-Herault cells.
 2. Sigmund Gjoerven, IMPEC. Anode slot cutting.
 3. Erik A Jensen, EAJ Consulting. Effect of slotted anodes on pot performance.
 4. Italo dal Porto, HMR Hydeq AS. HMR's automated stud repair line.

- c. **Session 4. Cathode repair (Wednesday 11th, 10:30)**
Chairman: Daniel Audunsson, RioTinto Alcan Iceland.
 1. Erik A Jensen, EAJ Consulting. Electrically preheating cathode blocks and collector bars prior to sealing with cast iron by passing an alternating current through the collector bar.
 2. Ghazanfar Abbas, SGL Carbon. Cathode blocks for Primary Aluminium Smelting.
 3. Siegmur U Baltuch, Air Therm. CFD simulation and physical modelling as predictive tools in optimization of rodding shop ventilation.
 4. Ole Stadum, Sandvik. Economical and safe electric preheating in rodding shops.

- d. **Session 5. Increasing Productivity – Decreasing Impact on Environment (Wednesday 11th, 13:00)**
Chairman: Geir Hlodversson, Alcoa Fjarðaál.
 1. Gunnar Ari Gudmundsson, RioTinto Alcan Iceland. Low PFC at ISAL
 2. Lorene Fort, Carbone Savoie. Eco Friendly NeO₂ Paste for Cathodes.
 3. Thorsteinn Viglundsson, Samal. Environmental profile of the Icelandic Aluminium Industry.
 4. Rene von Kaenel, Kan-Nak SA. Energy savings by using new Cathode Designs

- e. **Session 6. Industry Trends (Thursday 12th, 8:30)**
Chairman: Gauti Hoskuldsson, Nordural
 1. Bjarni Palsson, Landsvirkjun. Iceland Deep Drilling Project.
 2. Throstur Gudmundsson and Simon Thorleifsson, HRV Engineering. Icelandic Aluminium Industry – Past, Present and Future.