

Light Metals Research Centre PhD and MA list

PhD Theses

1. **Mark Murray Radley Dorreen**- Cell Performance and Anodic Processes in Aluminium Smelting, Studied by Product Gas Analysis. May 2000.
2. **Mark David Glucina**- A study of Cu-Al and Ni-Al alloys as inert anodes for Aluminium electrolysis. 2005.
3. **Eng Fui Siew**- The Wear Behaviour of Cathodes in Aluminium Smelting Cells. September 2007.
4. **Robert John Wallace**- Enhancement of Heat Transfer Mechanisms at the Exterior Walls of Metallurgical Furnaces Using Heat Exchanger Technology. November 2007
5. **Sankar Kesavan Namboothiri**- Investigation of an Electrolytic Process for the Production of Aluminium Using Hydrogen as the Reducing Agent. 2008
6. **Ron Etzion**- Degradation mechanisms and development of silicon carbide refractories. 2008.
7. **Pretesh Mahendrabhai Patel**- On the Effect of Formulation and Porosity on Cathode Performance in Modern Aluminium Reduction Cells. July 2009
8. **Nicholas Brian Depree** - Mathematical Modelling of an Annealing Furnace. 2009
9. **Gaurav Tandon**- Causal Factors in the Variation of the Cell Voltage in Industrial Aluminium Smelting Cells. 2010
10. **Haiaam Abbas**- Mechanism of Top Heat Loss from Aluminium Smelting Cells. 2010
11. **Linus Michael Perander** - Evolution of nano-and Microstructure During the Calcination of Bayer Gibbsite to Produce Alumina. 2010
12. **Marco Alexander Stam**- The Pursuit of Causality in Multivariate Statistical Control of Aluminium Smelting Cells. December 2010
13. **Nazatul Aini Abd Majid**- Cascade Fault Detection and Diagnosis for the Aluminium Smelting Process using Multivariate Statistical Techniques. 2011
14. **Maryam Mohamed Khalifa Al Jallaf**- Investigation of options to extend cathode life using TiB₂ granules in aluminium electrowinning cells. 2011.
15. **Mark Cooksey**- Method of measuring ohmic resistance in Aluminium reduction cells. 2012.
16. **David Sydney Wong**- Sources of Potroom Dust Emissions from Aluminium Smelters. August 2013
17. **Qinsong Zhang**- Thermochemical Behaviour and Stability of Aluminium Smelter Crust. November 2014.
18. **Yashuang Gao**- Operational and Control Decision Making for Aluminium Smelters. Dec 2014.

Masters Theses

1. **Susann Bayer**- A Study of an Anode Assembly with Focus on the Anode Connection used in Aluminium Reduction Cells. 2010.
2. **Reece Neil Oosterbeek** - Designing Orthopaedic Implants based on Magnesium – Polylactic Acid Composites, 2013.