

TMS 2013 Industrial Aluminum Electrolysis

October 20-24, 2013 • Doha, Qatar

Saturday, October 19, 2013

18:00-20:00	Welcome Reception	
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Sunday, October 20, 2013

Time	Presentation Title	Presenter
7:30-8:00	Registration	
8:00-8:15	Welcome and Opening of the Course	Halvor Kvande
8:15-9:00	Introduction to the Aluminum Electrolysis Process	Halvor Kvande
9:00-9:45	Electrical Safety in Potrooms	Vinko Potocnik
9:45-10:00	Break	
10:00-11:30	Cell Energy Input and its Utilization	Barry Welch
11:30-12:30	Lunch	
12:30-13:30	Computer Control	Gary Tarcy
13:30-14:30	Heat Balance Fundamentals	Halvor Kvande
14:30-14:45	Break	
14:45-15:45	Heat Balance Fundamentals (continued)	Halvor Kvande
15:45-16:30	Group Work on Heat Balance	Halvor Kvande

Monday, October 21, 2013

Time	Presentation Title	Presenter
8:00-9:15	Crust and Alumina Powder Dissolution and Cell Feeding	Barry Welch
9:15-10:00	Impact of Alumina Properties on Pot Operations	Steve Lindsay
10:00-10:15	Break	
10:15-11:00	Electrolyte Compositions	Gary Tarcy
11:00-11:30	Control of Temperature and Aluminum Fluoride - Part 1: Setting Target	Barry Welch
11:30-12:30	Lunch	
12:30 -13:30	Temperature and Aluminum Fluoride Variations and Control - Part 2: Control Strategy	Barry Welch
13:30-14:00	Diagnosis and Corrections of Problem Pots	Gary Tarcy
14:00-14:30	Pot Operational Diagnostics	Alton Tabereaux
14:30-14:45	Break	
14:45-15:45	Pot Operational Diagnostics (continued)	Alton Tabereaux
15:45-16:30	Group Work on Problem Pots	Alton Tabereaux/Gary Tarcy

Tuesday, October 22, 2013		
Time	Presentation Title	Presenter
8:00-9:15	Current Efficiency, Theory and Practice for Continuous Improvements	Gary Tarcy
9:15-10:00	Measurement Techniques for Pot Analysis	Vinko Potocnik
10:00-10:15	Break	
10:15-11:30	Measures to Control Metal Purity in Pre-bake Reduction Cells	Stephen Lindsay
11:30-12:30	Lunch	
13:00	Plant Tour to the Qatalum Smelter	All
Wednesday, October 23, 2013		
Time	Presentation Title	Presenter
8:00-9:00	Reduction Cell Busbars at Increased Amperage	Vinko Potocnik
9:00-9:45	Anode Cover	Steve Lindsay
9:45-10:00	Break	
10:00-11:00	Anodes in Cells - Part 1: Their Reaction and Consumption	Barry Welch
11:00-11:30	Anode Effect Mechanism and PFC Emission Rates	Alton Tabereaux
11:30-12:30	Lunch	
12:30-14:00	Anodes in Cells - Part 2: Problems, Dust Spikes and Operating Issues	Barry Welch
14:00-14:30	Fluoride Emissions - Source, Generation Capture and Minimisation	Barry Welch
14:30-14:45	Break	
14:45-15:45	Fluoride Emissions Control	Steve Lindsay
15:45-16:30	Cell Shutdown and Restart	Alton Tabereaux
18:00-22:00	Graduation Dinner	All
Thursday, October 24, 2013		
Time	Presentation Title	Presenter
8:00-8:45	Measures to Manage Pot Complement	Steve Lindsay
8:45-9:45	The Way Forward - Challenges and Opportunities in Aluminum Production	Halvor Kvande
9:45-10:00	Break	
10:00-11:00	Practical Cell Operational Problems - Questions from the Participants, Discussion and Sharing of Experiences	All
11:00-11:30	Summary of the Course - Did You Learn Something Useful?	Halvor Kvande
11:30-12:30	End of the Course and Lunch	