



October 2–6, 2017 • Hilton Reykjavík Nordica • Reykjavík, Iceland
Course Agenda

As of September 8, 2017

Monday, October 2		
<i>Time</i>	<i>Title of Presentation</i>	<i>Presenter</i>
07:30–08:00	Registration	
08:00–08:15	Welcome and Opening of the Course	Halvor Kvande
08:15–09:15	The Development of the Hall-Héroult Cell Technology	Halvor Kvande
09:15–10:00	Obtaining Electricity	Alton Tabereaux
10:00–10:15	Break	
10:15–12:00	Controlling Laws Influencing Aluminum Electrowinning	Barry Welch
12:00–13:00	Lunch	
13:00–13:45	Typical Operating Cell Conditions—Electrolyte Chemistry and Temperature for Maximum Efficiency	Halvor Kvande
13:45–14:30	Alumina Feeding and Dissolution	Stephen Lindsay
14:30–14:45	Break	
14:45–15:30	History of Smelter Cell Control	Barry Welch
15:30–16:30	Cell Control and Alumina Feeding Management	Barry Welch

Tuesday, October 3		
<i>Time</i>	<i>Title of Presentation</i>	<i>Presenter</i>
08:00–09:00	Work Practices—Anode Change and Anode Covering	Stephen Lindsay
09:00–10:00	Work Practices—Anode Effect Minimization	Alton Tabereaux
10:00–10:15	Break	
10:15–11:00	Cathode Materials Used for Cell Construction	Halvor Kvande
11:00–12:00	Leading to Cathode Failure: Degradation Processes of Materials	Barry Welch
12:00–13:00	Lunch	
13:00–14:00	Travel to Nordural Smelter	All
14:00–16:30	Plant Visit at Nordural	All
16:30	Meal at the Smelter and Return to Hotel	All

Wednesday, October 4		
<i>Time</i>	<i>Title of Presentation</i>	<i>Presenter</i>
08:00–10:00	Root Cause Analysis of Changes in Key Performance Indicators	All
10:00–10:15	Break	
10:15–12:00	Prebake Anodes A. The Design & Production of Assembled Anodes B. Anodes—Oxidation of Anode Carbons & Their Impurities C. Anodes in the Operating Environment: Problems, Dust, Spikes & Operating Issues	Barry Welch
12:00–13:00	Lunch	
13:00–14:30	Uses of Aluminum and its Quality Requirements	Stephen Lindsay

14:30–14:45	Break	
14:45–15:45	Cell Noise and Operational Diagnostics	Alton Tabereaux
15:45–16:30	Group Work on Problem Pots	Alton Tabereaux

Thursday, October 5

<i>Time</i>	<i>Title of Presentation</i>	<i>Presenter</i>
08:00–09:00	Impact of Alumina Properties on Pot Operations	Stephen Lindsay
09:00–10:00	PFC and CO ₂ Emissions and their Reduction	Halvor Kvande
10:00–10:15	Break	
10:15–11:00	Work Practices—Minimization of Low Voltage Anode Effects	Alton Tabereaux
11:00–12:00	Maximizing Pots in Operation	Stephen Lindsay
12:00–13:00	Lunch	
13:00–14:30	Fluoride Emissions Control	Stephen Lindsay
14:30–14:45	Break	
14:45–15:30	Cell Start-up and Cell/Potline Restart	Alton Tabereaux
15:30–16:30	Nordural's Capacity Creep Project and Implementation of the Star Probe for Bath Chemistry Control	Gauti Höskuldsson
18:00	Graduation Dinner	All

Friday, October 6

<i>Time</i>	<i>Title of Presentation</i>	<i>Presenter</i>
08:00–08:45	Energy Balance of Aluminum Reduction Cells and Ways of Specific Power Consumptions Reduction	Halvor Kvande
08:45–10:00	Energy and the Environment: Optimizing the Cell Control Targets for Low Energy, Zero Emissions	Barry Welch
10:00–10:15	Break	
10:15–12:00	To Be Determined	
12:00–13:00	Lunch	
13:00–14:30	Practical Cell Operational Problems—Questions from the Participants and Discussion and Sharing of Experiences	All
14:30–14:45	Break	
14:45–16:00	The Future—A Panel Discussion	All
16:00	Course Adjourn	