

ICSOBA 2023

Aluminium Electrolysis

Short Course

PROGRAM				1 to 3 November, Dubai		
Day	Start	End	Subject	Presenter	Duration (min)	Lecture #
1	9:00	10:00	Introduction to the Aluminium Electrolysis Process	Marc Dupuis	60	1
	10:00	10:45	Current Efficiency	Jeff Keniry	45	2
	10:45	11:00	Break		15	
	11:00	12:00	Pot Control	Vinko Potocnik	60	3
	12:00	12:45	Characterization of Materials I	Frank Feret	45	4
	12:45	13:45	Lunch		60	
	13:45	14:45	Heat and Mass Balance Fundamentals	Vanderlei Gusberti	60	5
	14:45	15:30	KPI of the Most Recent Cell Technologies	Marc Dupuis	45	6
	15:30	15:45	Break		15	
	15:45	16:45	Operation at High Current Density	Jeff Keniry	60	7
16:45	18:00	Heat and Mass Balance Fundamentals - Exercises	Vanderlei Gusberti	75	8	
2	9:00	10:00	Cathode Lining Modelling and Design	Dagoberto Severo	60	9
	10:00	10:45	The Busbar in Reduction Cells	Vanderlei Gusberti	45	10
	10:45	11:00	Break		15	
	11:00	12:00	MHD for Reduction Cells	Vinko Potocnik	60	11
	12:00	12:45	Characterization of Materials II	Frank Feret	45	12
	12:45	13:45	Lunch		60	
	13:45	14:45	Cathode Lining Failure and Autopsies	Dagoberto Severo	60	13
	14:45	15:30	Amperage Increase Strategies	Vinko Potocnik	45	14
	15:30	15:45	Break		15	
	15:45	16:25	Hall-Herould Numerical Models Development	Marc Dupuis	40	15
	16:25	17:20	Anode Assemblies	Jeff Keniry	55	16
	17:20	18:00	Anode Effects and PFC Emissions	Pablo Navarro	40	17
19:30	23:00	Wooden Cruise with Dinner at Dubai Festival City	Social Event			
3	9:00	10:00	Electrical Safety in Potrooms	Vinko Potocnik	60	18
	10:00	10:45	Preheating of Cells	Dagoberto Severo	45	19
	10:45	11:00	Break		15	
	11:00	11:45	Startup of Cells - Bathup and Normalization	Jeff Keniry	45	20
	11:45	12:45	Pot Operations	Pablo Navarro	60	21
	12:45	13:45	Lunch		60	
	13:45	14:30	Fluoride Emissions	Pablo Navarro	45	22
	14:30	15:15	Exhaust Gases and Ventilation	Vanderlei Gusberti	45	23
	15:15	15:30	Break		15	
	15:30	16:15	Measurements in Cells	Dagoberto Severo	45	24
16:15	17:00	Power Modulation	Vanderlei Gusberti	45	25	
17:00	18:00	Operational Diagnostics of Problem Pots	Vinko Potocnik	60	26	

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