



Control of
POTLINE SCRUBBER
& FUGITIVE EMISSIONS
 for Aluminum Smelters Course

May 15–18, 2016 • Abu Dhabi, United Arab Emirates

Course Schedule

Schedule as of April 18, 2016

Sunday, May 15

07:00 – 08:00	Registration	
08:00 – 08:15	Welcome and Course Introduction	Hyland
08:15 – 08:35	Overview of Emissions	Hyland
	Emission Fundamentals	
	<i>A. Fluoride Generation & Scrubbing Basics & Particulates</i>	
08:35– 10:00	<i>B. Group Discussion - Key Factors for F Generation</i>	Hyland, Wong
10:00 – 10:15	Break	
	Pot Ventilation & Scrubber Technologies	
10:15 – 11:15	<i>A. Dry Scrubbers Technology and Design</i>	Lindsay
	Emission Fundamentals	
11:15 – 12:00	<i>C. Sulphur Emissions</i>	Broek
12:00 – 13:00	Lunch (provided)	
	Emission Fundamentals, continued	
13:00 – 13:15	<i>C. Sulphur Emissions</i>	Broek
	Dry Scrubbing Design	
	<i>A. Cell Ventilation</i>	
13:15 – 14:30	<i>B. Key Operating Areas</i>	Broek, Wong
14:30 – 14:40	Break	
	Dry Scrubbing, continued	
	<i>C. Gas Flows</i>	
14:40 – 15:40	<i>D. Alumina Flows</i>	Lindsay
15:40 – 16:00	Break	
16:00 – 17:00	Group Discussion- Major Control Challenges	
17:00 – 19:00	Welcome Reception	

Monday, May 16

08:00 – 10:00	Dry Scrubber Operation <i>A. History of Dry Scrubbers</i> <i>B. Operational Considerations & Challenges, Control of Gas Flows</i>	Broek, Lindsay
10:00 – 10:15	Break	
10:15 – 12:00	Dry Scrubber Operation, continued <i>C. Control of Alumina Flows, Performance of KPIs for Control</i>	Lindsay
12:00 – 13:00	Lunch (provided)	
13:00 – 14:30	Dry Scrubber Operation, continued <i>D. Impact of Alumina Properties and Specifications vs. HF vs. Scrubbing</i>	Hyland
14:30 – 14:40	Break	
14:40 – 15:40	Dry Scrubber Operation, continued <i>E. Emission Monitors</i>	Wong
15:40 – 16:00	Break	
16:00 – 17:00	Group Discussion- Managing Higher Amperage and/or Higher Gas Temperatures	

Tuesday, May 17

07:30 – 08:00	Board Bus for Tour (Hotel Lobby)	
08:00 – 12:00	Tour of EGA Al Taweelah Operations (transportation provided)	
12:00 – 13:00	Lunch (provided)	
13:00 - 14:30	Management of Potroom Fugitive Emissions <i>A. Fluorides, Particulates, PFCs, Impact of Operations, Emission Controls, Maintenance, Process Control, Audits</i>	Wong
14:30 – 14:40	Break	
14:40 – 15:40	SO ₂ Wet Scrubbers <i>A. Principles and Key Areas</i> <i>B. Designs, Types, Operational Aspects</i>	Broek
15:40 – 16:00	Break	
16:00 – 17:00	Group Discussion- What If Controls Required for Other Smelting Emissions?	

Wednesday, May 18

08:00 – 09:00	Guidelines for Engineering, Procurement & Construction of Scrubber Technologies	Broek
	Advancements & Developments in Scrubber Emissions Controls	
09:00 – 10:00	<i>A. Drivers, Pot Gas Cooling, Advanced Filter Bags, Compact GTCs</i>	Broek
10:00 – 10:15	Break	
10:15 – 10:35	Advancement in Potroom Emissions Controls	
	<i>A. Draft, Spent Anode Controls</i>	Wong
10:35 – 11:45	Common Problems in Potroom Roof Emissions	Lindsay
11:45 – 12:00	Preparation for Attendee Presentations	
12:00 – 13:00	Lunch (provided)	
13:00 – 14:30	Attendee Presentations- Emission Management Plans for Key Issues Faced (Interactive Discussion)	
14:30 – 14:40	Break	
14:40 – 15:40	Conclusion of Attendee Presentations and Graduation Ceremony	
15:40	Course Concludes	