

Monday, June 17, 2019	
7:00 am - 5:00 pm	Registration
8:00 am - 10:00 am	1. Welcome & Introduction (15min, SB) 2. Overview of Emissions (20min, DW) 3. Emission Fundamentals - A. Fluoride Emissions & Dry Scrubbing Basics (60min, SL) B. Group Discussion - Fluoride Emissions
10:00 am - 10:15 am	<i>Break</i>
10:15 am - 12:00 pm	3. Emission Fundamentals, cont'd C. Sulfur Emissions (45min, SB) ==short break== 4. Dry Scrubber Design - A. Basics of Pot Ventilation (30min, SB) B. Key Operating Areas (30min, DW)
12:00 pm - 1:00 pm	<i>Lunch</i>
1:00 pm - 2:30 pm	5. Pot Ventilation & Scrubber Technologies - A. Dry Scrubbers Technology & Designs (60min, SL) B. Gas Flows (30min, SL)
2:30 pm - 2:45 pm	<i>Break</i>
2:45 pm - 3:45 pm	5. Pot Ventilation & Scrubber Technologies, cont'd - C. Alumina Flows (30min, SL)
3:45 pm - 4:00 pm	<i>Break</i>
4:00 pm - 5:45 pm	6. Guest Lecture - A. <i>Environmental Improvements at TRIMET</i> (60min, Dr. Elmar Sturm) B. <i>Group Discussions – Attendees to share their own major control challenges</i>
6:30 pm - 8:00 pm	Welcome Reception & BBQ sponsored by TRIMET
Tuesday, June 18, 2019	
7:00 am - 5:00 pm	Registration
8:00 am - 10:00 am	7. Dry Scrubber Operation - A. Impact of Alumina Properties (60min SL) ==Short break== B. Operational Considerations & Challenges (60min, SL)
10:00 am - 10:15 am	<i>Break</i>
10:15 am - 11:45 am	7. Dry Scrubber Operation, cont'd B. Operational Considerations & Challenges, cont'd (30min, SL) ==Short break at 11 AM== C. Emission Monitors (60min DW)
12:00 pm - 1:00 pm	<i>Lunch</i>
1:00 pm - 3:00 pm	7. Dry Scrubber Operation, cont'd D. Performance Metrics (60min, SL) ==Short break== E. Alumina Properties and Particle Attrition (60min, SL)
3:00 pm - 3:15 pm	<i>Break</i>

INSTRUCTOR LEADS

SB - Mr Stephan Broek • SL - Mr Steve Lindsay • DW - Dr. David S. Wong

3:15 pm - 4:45 pm	8. SO₂ Wet Scrubbers (75min, SB) A. Introduction & Key Areas B. Operation & Control - Designs, Types, Operational Aspects ==short break==
4:45 pm - 5:15 pm	9. Management of Potroom Fugitive Emissions (30min, DW) - Fluorides, Particulates, PFCs, Impact of Operations, Emission Controls, Maintenance, Process Control, Audits
5:15 pm - 6:00 pm	10. Group Discussions – Attendees to share their own major control challenges
Wednesday, June 19, 2019	
8:00 am	Registration / Bus departs at 8 am
8:30 am - 12:00 pm	11. Plant Tour at TRIMET, Hamburg
12:00 pm - 1:00 pm	Lunch
1:00 pm - 2:00 pm	12. Management of Potroom Fugitive Emissions, cont'd (60min, DW) - Fluorides, Particulates, PFCs, Impact of Operations, Emission Controls, Maintenance, Process Control, Audits
2:00 pm - 2:15 pm	Break
2:15 pm - 3:15 pm	13. PFC Emissions (60min, DW)
3:15 pm - 3:30 pm	Break
3:30 pm - 5:00 pm	14. Process Calculations for Environmental Engineering (90min, SB)
5:00 pm - 5:45 pm	15. Guest lecture - Environmental Practices for GTCs at Hydro Aluminium (45min, Dr. Are Dyroy)
Thursday, June 20, 2019	
7:00 am - 5:00 pm	Registration
8:00 am - 10:00 am	16. Guidelines for Engineering, Procurement, & Construction of Scrubber Technologies (60min, SB) ==Short break== 17. Advancements & Developments in Scrubber Emission Controls (60min, SB) Drivers, Pot Gas Cooling, Advanced Filter Bags, Compact GTCs, etc.
10:00 am - 10:15 am	Break
10:15 am - 12:00 pm	18. Advancements & New Developments in Potroom Emission Controls (20min, DW) - Draft, Spent Anode Controls == Short break== 19. Common Problems with Potroom Roof Emissions (70min, SL) Attendee preparation time
12:00 pm - 1:00 pm	Lunch
1:00 pm - 2:30 pm	20. Attendee Presentations to Group - Emission Management Plans for Key Issues Faced, OR on a Selected Topic
2:30 pm - 2:40 pm	Break
2:40 pm - 3:40 pm	Attendee Presentations, cont'd
3:40 pm - 4:00 pm	Break
4:00 pm - 5:00 pm	21. Graduation Ceremony

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