

Lectures take place in the Michael DeGroote Center for Learning and Discovery (MDCL), room 1110
Coke oven game and case studies take place the McMaster University Student Centre (MUSC),
CIBC Hall, 3rd floor

Preliminary Program

Sunday, May 11

5:00-6:00 pm REGISTRATION – MDCL outside room 1110

6:00-7:00 Introduction to Cokemaking – Jodi Kesik, ArcelorMittal Dofasco
For those who have little or knowledge of cokemaking

7:00-9:00 REGISTRATION and WELCOME RECEPTION – The University Club

Monday, May 12

7:30-8:15 REGISTRATION and BREAKFAST – MDCL outside room 1110

AM SESSION Chair: Neslihan Dogan, Delft University of Technology/McMaster University

8:15-8:30 Opening Remarks and Course Orientation – Jodi Kesik, ArcelorMittal Dofasco and Neslihan Dogan, Delft University of Technology/McMaster University

8:30-9:30 The History of Cokemaking – Ted Todoschuk, TwithT Consulting

9:30-9:40 Q&A period

9:40-10:40 Coal from Ground to Coke Plant – Maria Dooley, Teck Coal Limited

10:40-10:50 Q&A period

10:50-11:05 BREAK

11:05-12:05 Fundamentals of Coal and Coke Characterization – Graeme Scott, ArcelorMittal Dofasco

12:05-12:15 Q&A period

12:15-1:30 LUNCH

PM SESSION Chair: Jarred Kapush, Algoma Steel

1:30-2:30 Design of Coal Blend for Required Coke Properties – Ted Todoschuk, TwithT Consulting

2:30-2:40 Q&A period

2:40-3:00 BREAK

3:00-4:00 Coke Oven Computer Game and Cokemaking Rules of Thumb – Ted Todoschuk, TwithT Consulting

4:00-4:10 Q&A period

7:00-10:00 Coke Oven Computer Game, MUSC, CIBC Hall – Ted Todoschuk, TwithT Consulting and Graeme Scott, ArcelorMittal Dofasco (with bar service and snacks)

Tuesday, May 13

7:30-8:30 BREAKFAST – MDCL

AM SESSION Chair: Jodi Kesik, ArcelorMittal Dofasco

8:30-9:30 Coke in the Blast Furnace – Husain Tapia, ArcelorMittal Dofasco

9:30-9:40 Q&A period

9:40-10:40 Theory of Carbonization – Ted Todoschuk, TwithT Consulting

10:40-10:50 Q&A period

10:50-11:05 BREAK

11:05-12:05 Principles of Coke Oven Design – TBD

12:05-12:15 Q&A period

12:15-13:30 LUNCH

PM SESSION Chair: Ted Todoschuk, ArcelorMittal Dofasco

13:30-2:30 Recent Trends in Cokemaking Heat Recovery Processes – John Quanci, SunCoke Energy

2:30-2:40 Q&A period

2:40-3:00 BREAK

3:00-4:00 Non-Recovery Cokemaking Case Studies – John Quanci, SunCoke Energy

4:00-4:10 Q&A period

7:00-10:00 Coke Oven Computer Game, MUSC, CIBC Hall – Ted Todoschuk, TwithT Consulting and Graeme Scott, ArcelorMittal Dofasco (with bar service and snacks)

Wednesday, May 14

7:30-8:30 BREAKFAST – MUSC, CIBC Hall

AM SESSION CASE STUDIES - MUSC, CIBC Hall. Chair: Jodi Kesik, ArcelorMittal Dofasco

8:30-9:30 Control of Battery Heating – Michael Boccalon, Stelco

9:30-9:40 Q&A period

9:40-10:40 Recovery Cokemaking Case Study – Jodi Kesik, ArcelorMittal Dofasco and Lyle Moore, ArcelorMittal Dofasco

10:40-11:00 BREAK

11:00-12:30 Recovery Cokemaking Case Study (continued)

12:30-1:30 LUNCH - MDCL

PM SESSION Chair: Carter Dumont, Stelco

1:30-2:30 Introduction to the By-product Plant – Carter Dumont, Stelco

2:30-2:40 Q&A period

2:40-3:00 BREAK

3:00-4:00 Environmental Issues Facing the Coking Industry into the 21st Century – Julie Wedzinga, Stelco

4:00-4:10 Q&A period

5:30 BANQUET DINNER Cokemaking Game Awards Presentation – bus departure from MUSC to Burlington Golf & Country Club (**No blue jeans.** Alcoholic drink tickets provided and cash bar available.)

9:00 Bus departure to McMaster

Thursday, May 15

7:30-8:30 BREAKFAST – MDCL

AM SESSION Chair: Jason Halko, Elk Valley Resources

8:30-9:30 Removal of Sulphur and Ammonia from Coke Oven Gas – Matt Cowan, Stelco

9:30-9:40 Q&A period

9:40-10:40 Effects of Gas Quality on Operations – Greg Elder, Consultant

10:40-10:50 Q&A period

10:50-11:05 BREAK

11:05-12:05 Tar and Light Oil Recovery – Brianna Zekl, Stelco

12:05-12:15 Q&A period

12:15-13:30 LUNCH – CIBC Hall

PM SESSION CASE STUDY - MUSC, CIBC Hall

1:30-3:00 By-product Operation Case Study – Carter Dumont, Stelco and Greg Elder, Consultant

3:00-3:15 BREAK

3:15-4:45 By-product Operation Case Study (continued)

Friday, May 16

7:30-8:30 BREAKFAST - MDCL

AM SESSION Chair: Ted Todoschuk, TwithT Consulting

8:30-9:30 Prolonging Asset Life – Yannick Hergalant, ArcelorMittal Maizières Research | CPM Forbach

9:30-9:40 Q&A period

9:40-10:20 Future Decarbonization Strategy: 2050 – Graeme Scott, ArcelorMittal Dofasco

10:20-10:30 Q&A period

10:30-10:40 BREAK

10:40-11:20 Market Conditions Coal/Coke: Current and Future – Jason Halko, Elk Valley Resources

11:20-12:15 Panel Discussion – Graeme Scott, Jason Halko, Carter Dumont, Yannick Hergalant

12:15-12:30 Closing Remarks – Jodi Kesik and Neslihan Dogan

12:30 LUNCH

PM SESSION

1:00-4:30 OPTIONAL PLANT TOURS

ArcelorMittal Dofasco – Driving tour of coal handling and cokemaking facilities, followed by a ground-level walking tour of No. 3 Coke Plant/By-Products Plant. Long sleeved shirts, long pants and closed-toed shoes are required. PPE will be provided on-site.

Stelco Hamilton Works – A walking tour of the Battery, By-Product Plant and the new Wastewater Treatment Plant. Long sleeved shirts, long pants and closed-toed shoes are required. PPE will be provided on-site.