

May 11-16, 2025

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

## 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 no knowledge of cokemaking

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

### Monday, May 12

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

**AM SESSION** Chairs: Ted Todoschuk, TwithT Consulting (retired from ArcelorMittal Dofasco) and  
Chris DiGiovanni, CanmetMATERIALS/McMaster University

8:15-8:30 Opening Remarks and Course Orientation – Jodi Kesik, ArcelorMittal Dofasco and  
Hatem Zurob, 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, Elk Valley Resources

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: Jason Halko, Elk Valley Resources

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 (with bar service and snacks) in MUSC, CIBC Hall – Ted Todoschuk,  
TwithT Consulting and Graeme Scott, ArcelorMittal Dofasco

## Tuesday, May 13

7:30-8:30 AM 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 – Mike Boccalon, Stelco Inc.

12:05-12:15 Q&A period

12:15-1:30 LUNCH

**PM SESSION** Chair: Ted Todoschuk, TwithT Consulting

1:30-2:30 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 (with bar service and snacks) in MUSC, CIBC Hall – Ted Todoschuk, TwithT Consulting and Graeme Scott, ArcelorMittal Dofasco (with bar service and snacks)

## Wednesday, May 14

7:30-8:30 AM 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 Inc.

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

**PM SESSION** Chair: Carter Dumont, Stelco Inc. – MDCL 1110

1:30-2:30 Introduction to the By-product Plant – Dean Dussault, Stelco Inc.

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 Inc.

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 or t-shirts**. Cash bar available.)

9:00 Bus departure to McMaster

## Thursday, May 15

7:30-8:30 AM 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 Inc.

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 Inc.

12:05-12:15 Q&A period

12:15-1:30 LUNCH – MUSC, CIBC Hall

### PM SESSION CASE STUDY - MUSC, CIBC Hall

1:30-3:00 By-product Operation Case Study – Carter Dumont, Stelco Inc. 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 AM 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 Coke Oven Game results / Closing Remarks – Ted Todoschuk, Jodi Kesik, Hatem Zurob and Chris DiGiovanni

12:30 LUNCH

### PM SESSION

1:00-4:30 OPTIONAL PLANT TOURS – pre-registration required

Buses depart from McMaster University Student Centre at 1:00 pm

**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.