

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

## Program

### Sunday, May 14

- 5:00-6:00 pm REGISTRATION – MDCL outside room 1110
- 6:00-7:00 Introduction to Cokemaking - Lyle Moore, ArcelorMittal Dofasco  
For those who have little or knowledge of cokemaking
- 7:00-9:00 REGISTRATION and WELCOME RECEPTION – The University Club

### Monday, May 15

- 7:30-8:30 REGISTRATION and BREAKFAST – MDCL outside room 1110
- AM SESSION** Chair: Neslihan Dogan, McMaster University
- 8:15-8:30 Opening Remarks and Course Orientation – Jodi Kesik, ArcelorMittal Dofasco and Neslihan Dogan, McMaster University
- 8:30-9:30 The History of Cokemaking – Ted Todoschuk, ArcelorMittal Dofasco
- 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 – Hardarshan Valia, Coal Science Inc.
- 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 – Graeme Scott, ArcelorMittal Dofasco and Ted Todoschuk, ArcelorMittal Dofasco
- 4:00-4:10 Q&A period
- 7:00-10:00 Coke Oven Computer Game, MUSC, CIBC Hall – Graeme Scott, ArcelorMittal Dofasco and Ted Todoschuk, ArcelorMittal Dofasco (with bar service and snacks)

## Tuesday, May 16

7:30-8:30 BREAKFAST – MDCL

**AM SESSION** Chair: Jodi Kesik, ArcelorMittal Dofasco

8:30-9:30 Coke in the Blast Furnace – Ted Todoschuk, ArcelorMittal Dofasco

9:30-9:40 Q&A period

9:40-10:40 Theory of Carbonization – Ted Todoschuk, ArcelorMittal Dofasco

10:40-10:50 Q&A period

10:50-11:05 BREAK

11:05-12:05 Principles of Coke Oven Design – Jodi Kesik, ArcelorMittal Dofasco

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 – Graeme Scott, ArcelorMittal Dofasco and Ted Todoschuk, ArcelorMittal Dofasco (with bar service and snacks)

## Wednesday, May 17

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 Bocalon, Stelco and Chris Hagan, 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 – Abdul Hassan, ArcelorMittal Dofasco

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.)

10:00 Bus departure to McMaster/downtown hotels

## Thursday, May 18

7:30-8:30 BREAKFAST – MDCL

**AM SESSION** Chair: Jason Halko, Teck Coal Limited

8:30-9:30 Removal of Sulphur and Ammonia from Coke Oven Gas – Carter Dumont, 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

**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 19

7:30-8:30 BREAKFAST - MDCL

**AM SESSION** Chair: Ted Todoschuk, ArcelorMittal Dofasco

8:30-9:30 Coke Oven Energy Balance and Recovery – Ian Cameron, Hatch

9:30-9:40 Q&A period

9:40-10:40 Prolonging Asset Life – Yannick Hergalant, ArcelorMittal Maizières Research | CPM Forbach

10:40-10:50 Q&A period

10:50-11:00 BREAK

11:00-12:00 Future Decarbonization Strategy: 2050 – Graeme Scott, ArcelorMittal Dofasco

12:00-12:10 Q&A period

12:10-12:15 Closing Remarks – Jodi Kesik, ArcelorMittal Dofasco and Neslihan Dogan, McMaster University

12:15 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.