**Information:**

**Daily Lectures:**
Monday, Tuesday, Thursday and Friday
Michael G. DeGroote Centre for Learning, (MDCL) Room 1110
Wednesday
Michael G. DeGroote Centre for Learning, (MDCL) Room 1105

**Blast Furnace Game:**
MUSC, CIBC Hall

**Case Study:**
MUSC, CIBC Hall

**Meals:**

**Lunches:**
Monday, Tuesday and Thursday (MDCL) outside lecture room 1110.
Wednesday MUSC CIBC Hall
Friday - Box lunch outside lecture room 1110

**Social Events:**

**Welcome Reception:**
Sunday, 7:00 p.m., The University Club of McMaster

**BBQ:**
Tuesday, 5:30 p.m., “TwelvEighty” Restaurant, McMaster University Student Centre, Room B118

**Banquet:**
Wednesday, 5:30 p.m., bus leaving from Les Prince Hall, to Burlington Country and Golf Course.

Attire: Business Casual—No Jeans

**Alcoholic Beverages:**
Two free tickets included and cash bar thereafter.

**Meals for University Residents Only:**

**Breakfasts:** Monday—Friday 7:00: 8:30 am, “Centro” at Commons Building (2nd Floor)

**Dinners:** Monday and Thursday: 5:30-6:45 pm “Centro” at Commons Building (2nd Floor)

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**FINAL PROGRAM**

**Organizing Committee Members**

John D’Alessio (Chair)
U. S. Steel Canada
Devbrat Dutta
Essar Algoma
Adelmo Monaco
ArcelorMittal Dofasco
Shawn Tilbury
ArcelorMittal Dofasco

Darcy Palmer
U. S. Steel Canada
Joe Poveromo
Raw Materials & Ironmaking
Ken Coley (Secretary)
McMaster University

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[American Iron and Steel Institute](http://training.mcmaster.ca/index.html)

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**Sunday, May 8, 2016**

04:30-07:30 Accommodation and Course Registration, Les Prince Hall, Main Lobby.
06:00-07:00 Introduction to Iron Making, (Optional Lecture) T29 (For those who have no background in high school chemistry and/or have no knowledge of the Blast Furnace).
07:00-09:00 Reception - The University Club of McMaster

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**Monday, May 9, 2016**

**Chair: Adelmo Monaco**

08:15-09:15 Registration - MDCL Room 1116
09:15-09:30 Opening Remarks and Course Orientation, John D’Alessio and Ken Coley
09:30-10:45 The History of Ironmaking, John Ricketts, ArcelorMittal
10:45-11:00 BREAK
11:00-12:15 Blast Furnace Reactions, Bob Ningtigal, University of Wollongong (retired from BlueScope Steel)
12:15-12:30 Questions and Answer Period
12:30-01:30 LUNCH

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**Wednesday, May 11, 2016**

**Chair: Shawn Tilbury**

08:00-09:00 The Science and Technology of Blast Furnace Slags, John D’Alessio, U.S. Steel Canada
09:00-09:15 BREAK
09:15-10:15 Day to Day Blast Furnace Operation Art Cheng, Cheng Technical Services LLC
10:15-10:30 BREAK

**Tuesday, May 10, 2016**

**Chair: Darcy Palmer**

08:30-09:45 Blast Furnace Design I, Dave Berduisco, Paul Wurth S.A.
09:45-10:00 BREAK
10:00-10:45 Blast Furnace Design II, Peter Martin, Primetals Technologies.
10:45-11:00 BREAK
11:00-12:00 Iron-Bearing Burden Materials, Marcelo Andrade, ArcelorMittal USA
12:00-12:15 Question and Answer Period
12:15-01:15 LUNCH
**Thursday, May 12, 2016**

**Chair: Devbrat Dutta**

08:00-09:00 Fuel Injection in the Blast Furnace, Don Zuke, ArcelorMittal Steel

09:00-09:15 BREAK

09:15-10:15 Maintenance Reliability Strategies in an Ironmaking Facility, Johan van Ikelen, van Ikelen Blast Furnace Consultant

10:15-10:30 BREAK

10:30-11:30 Ironmaking/Steelmaking Interface, Mike Price, ArcelorMittal

11:30-11:45 Question and Answer Period

11:45-01:00 LUNCH

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**Friday, May 13, 2016**

**Chair: Joe Poveromo**

01:00-02:00 Ironmaking Refractories, Floris van Laar, Allied Mineral Technical Services, Inc.

02:00-02:15 BREAK

02:30-03:30 Casthouse Practice and Blast Furnace Casthouse Rebuild, Barry Hyde, Hatch

03:30-03:45 Question and Answer Period

03:45-04:45 Blast Furnace Modelling and Visualization, Chenn Zhou, Purdue University Calumet (ID class)

07:00-10:00 Blast Furnace Game - John Busser, Hatch (MUSC–CIBC Hall)

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**Chair: John D’Alessio**

08:00-09:00 Future Trends in Ironmaking, Joe Poveromo, Raw Materials & Ironmaking Global Consulting

09:00-10:00 Chinese Blast Furnace Practice, Dennis Lu, ArcelorMittal USA

10:00-10:15 BREAK

10:15-11:15 Recent Progresses of Practical Blast Furnace Operations in Japan and Innovative Trials for the Future, Taihei Nouchi, JFE Steel Corporation

11:15-11:30 BREAK

11:30-12:15 Ironmaking in Western Europe, Hans Bodo Lüngen, Steel Institute VDEh

12:15-12:30 Question and Answer Period

12:30-12:45 Closing Remarks, John D’Alessio, U.S. Steel Canada

12:45 LUNCH

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**Optional Plant Tour**

Bus leaving at 1:30 from Les Prince Hall to approximated. 4:30 p.m. (Including traveling time)

ArcelorMittal Dofasco: Driving tour of the Primary division and walking tour of #3 Blast Furnace.

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**Parking:**

Parking Fee: Residents and non-resident attendees will be charged $72.00 (Sunday-Friday) if purchased at course registration or course registration desk. McMaster University Parking fee: $20.00 per day.