BRIMACOMBE CONTINUOUS CASTING COURSE

Continuous Casting of Steel Billets, Blooms and Slabs

April 12 to April 16, 2027

The Course will be held at the

Pinnacle Vancouver Hotel Harbourfront
1133 West Hastings Street, Vancouver, B.C. Canada V6E 3T3

Sponsored by the Brimacombe Continuous Casting Society

www.brimacombecourse.org

COURSE LECTURE SCHEDULE

BRIMACOMBE CONTINUOUS CASTING COURSE 2027

Pinnacle Vancouver Hotel Harbourfront
1133 West Hastings Street
Vancouver, B.C. Canada V6E 3T3

Sunday, April 11th

5:30 - 8:00 p.m.	COCKTAIL RECEPTION (with light buffet) Pinnacle Vancouver Hotel Harbourfront Ballroom Foyer, 2nd Floor

Monday, April 12th

7:00 - 7:30 a.m.	Continental Breakfast and Registration Confirmation, Ballroom Foyer
7:30 - 7:45 a.m.	Welcome to Course (IVS)
7:45 - 8:00 a.m.	Tribute to Keith Brimacombe (IVS)
8:00 - 8:30 a.m.	Brief Introduction to Continuous Casting Systems (RJO)
8:30 - 9:30 a.m.	Considerations in Caster Operation (RJO)
9:30 - 9:45 a.m.	BREAK
9:45 - 10:30 a.m.	Inclusion Defects (RJO)
10:30 - 11:20 a.m.	Chemistry Control (RJO)
11:20 - 12:00 p.m.	Slags for Ladle and Tundish (RJO)
12:00 - 1:30 p.m.	LUNCH BREAK
1:30 - 2:15 p.m.	Slag-Metal Interface Phenomena (RJO)
2:15 - 2:30 p.m.	BREAK
2:30 - 3:30 p.m.	Cleanliness Control (RJO)
3:30 - 4:15 p.m.	Caster Operation to Minimize Oxide Defects (RJO)
5:00 p.m.	Walk to Marina
6:00 - 9:00 p.m.	HARBOUR CRUISE WITH COCKTAILS AND DINNER (SPOUSES/PARTNERS INCLUDED)

Tuesday, April 13th

7:00 - 7:30 a.m.	Continental Breakfast, Ballroom Foyer
7:30 - 8:30 a.m.	Caster Operation to Minimize Oxide Defects (RJO)
8:30 - 10:15 a.m.	Basic Aspects of Molds (BGT)
10:15 - 10:30 a.m.	BREAK
10:30 - 12:00 p.m.	Mold Powders (RJO)
12:00 - 1:30 p.m.	LUNCH BREAK
1:30 - 3:30 p.m.	Mold Oscillation and Initial Solidification (BGT)
3:30 - 3:45 p.m.	BREAK
3:45 - 5:30 p.m.	Fluid Flow in the Mold (BGT)

Wednesday, April 14th

7:00 - 7:30 a.m.	Continental Breakfast, Ballroom Foyer
7:30 - 8:45 a.m.	Strand Solidification on a Macroscale – Empirical Methods (IVS)
8:45 - 10:00 a.m.	Solidification on a Microscale and Related Imperfections (IAD)
10:00 - 10:15 a.m.	BREAK
10:15 - 12:00 a.m.	CASTRIP® TECHNOLOGY – Continuous Casting of Thin Strip (RBM)
12:00 - 1:30 p.m.	LUNCH BREAK
1:30 - 2:45 p.m.	Mold Heat Transfer (BGT)
2:45 - 3:30 p.m.	Below-Mold Heat Transfer (BGT)
3:30 - 3:45 p.m.	BREAK
3:45 - 4.30 p.m.	Intermixing During Grade Transitions (BGT)
4:30 - 5:30 p.m.	High-Temperature Mechanical Properties of Steel (BGT)

Thursday, April 15th

7:00 - 8:00 a.m.	Canadian Breakfast in the Vistas 360 (19th Floor)
8:00 - 9:30 a.m.	Crack Formation (IVS)
9:30 - 9:40 a.m.	Presentation of Course Certificates
9:40 - 10:00 a.m.	BREAK (Divide Lecture Room)
10:00 - 11:00 a.m.*	I Billet Mould Design, Operation, and Maintenance (IVS)
	II Nozzle Design and Flow Issues in Slab Casting (BGT)
11:00 - 12:00 p.m.	I Billet Mould Tapers, Oil Lubrication and Billet Quality (IVS)
	II Slab Mold Behavior (BGT)
12:00 - 1:30 p.m.	LUNCH BREAK
1:30 - 3:00 p.m.	I Mould Oscillation and Upsets in Billet Casting (IVS)
	II Slab Mold Tapers, Slag Lubrication and Quality (BGT)
3:00 - 3:15 p.m.	BREAK
3:15 - 4:15 p.m.	I Defects in Billet and Bar Products – Wrap up (IAD)
	II Online Detection of Breakouts and Slab Quality Problems (BGT)
4:15 - 5:30 p.m.	I Panel Discussion on Billet Casting (IVS/IAD)
	II Panel Discussion on Slabs/Bloom Casting (RJO/BGT)

Friday, April 16th

7:00 - 7:30 a.m.	Continental Breakfast, Ballroom Foyer
7:30 - 8:45 a.m.	Spray Cooling and Related Defects (IVS)
8:45 - 9:00 a.m.	BREAK
9:00 - 10:00 a.m.	Containment in the Submold Region (RJO)
10:00 - 10:30 a.m.	Inclusions and Product Performance (BGT)
10:30 - 11:30 a.m.	Casting Defects and Product Performance – Case Studies (RJO)
11:30 - 12:00 p.m.	Challenges in High Speed Casting (BGT)
12:00 p.m.	COURSE ENDS

NOTE: Audio and/or video taping of lectures is not permitted.

***Groups divided into billets and slabs/blooms for simultaneous sessions.**

GENERAL INFORMATION

The Course will be held at the Pinnacle Vancouver Hotel Harbourfront in downtown Vancouver. The hotel is located at 1133 West Hastings Street, Vancouver, B.C. Canada V6E 3T3. A limited block of rooms has been reserved for course attendees at a reduced rate. This special rate only applies to room reservations made on or before March 10th, 2027, so **MAKE YOUR RESERVATION EARLY!** Room reservations can most easily be made via links on our website <**www.brimacombecourse.org**>. The website also includes a phone number for the hotel. However, to obtain the special rate when making reservations by phone you must **STATE THAT YOU ARE ATTENDING THE BRIMACOMBE CONTINUOUS CASTING COURSE**. The most convenient means of transportation between the Vancouver International Airport and the Pinnacle Vancouver Hotel Harbourfront is by taxi (about $45). An alternative means is via the Canada Line SkyTrain at a cost of $9.55. The exit station is within 3 blocks of the Pinnacle Vancouver Hotel Harbourfront. You can buy tickets from the ticket vending machines located at the Canada Line Station in the airport. An informative guide to Vancouver travel and other attractions can be found at: http://www.vancouver-travel-tips.com. Many excellent restaurants are located within easy walking distance of the hotel. Western business casual is typical dress for the Course.

U.S. CITIZENS: PLEASE NOTE THAT YOU MUST POSSESS A VALID U.S. PASSPORT FOR CUSTOMS. **FOREIGN NATIONALS: PLEASE REQUEST AN INVITATION LETTER FROM US TO ENABLE VISA PROCESSING AT A CANADIAN CONSULATE IN YOUR COUNTRY.**

ADDITIONAL INFORMATION

The Brimacombe Continuous Casting Society is incorporated in the Province of British Columbia, Certificate No. S-54179. The Society cannot and will not fill out any "Vendor Forms" nor any tax-related forms for foreign countries.

INSTRUCTORS

Dr. Indira V. Samarasekera: Senior Advisor, Bennett Jones LLP. Member of the National Academy of Engineering. Previously President and Vice-Chancellor, University of Alberta and Vice President Research, University of British Columbia. Expert in heat flow and stress analysis with extensive experience in mould design and its effect on quality.

Dr. Brian G. Thomas: Professor of Mechanical Engineering, Colorado School of Mines at Golden, Colorado, and Director of the Continuous Casting Centre. Over 35 years of experience conducting research on the continuous casting of steel. Expert in computational modeling.

Dr. Ronald J. O'Malley: Professor and also Director of the Kent D. Peaslee Steelmaking Manufacturing Research Center, Missouri University of Science & Technology. Previous positions: Researcher, Armco Inc.'s Technology Center, Chief Metallurgist at Nucor Steel–Decatur LLC. AIST Distinguished Member and Fellow. Expertise in clean steel and thin-slab continuous casting technologies.

Mr. Ian A. Deeks: Consultant. Industry expert with over 40 years practical plant experience in steelmaking and casting, including Area Manager Casting at Stelco Hamilton, Day Supervisor Casting & Plant Metallurgist at Nucor Steel Darlington.

Dr. Rama B. Mahapatra: Chief Process Technologist. Developed and commercialized thin strip casting technology in Australia, USA, Mexico and China as part of BlueScope Steel and Nucor CASTRIP teams. Currently involved in licensing of CASTRIP technology, providing technical support & training of CASTRIP Licensees.

REGISTRATION

REGISTRATION FOR THE COURSE CAN ONLY BE MADE BY SUBMITTING THE FORM POSTED ON OUR WEBSITE: www.brimacombecourse.org. Once the Course classroom fills up to capacity, the Registration form will be removed from our website and there will be no other way to register. When you register for the course, both an information letter and an invoice will be emailed to you. For registration to be complete, the full fee must be sent to the address given below by March 10, 2027. Payment can be either by cheque or by wire transfer. Upon payment, a confirmation number will be issued, and the registration process is complete. **A confirmation number is required for admittance**. If the fee is not prepaid, the application will be cancelled on March 11th, 2027. Registration after March 11th is subject to space availability and must be accompanied by the fee. A cancellation charge of 20% of the fee will be levied for withdrawal of a registration after March 11th. The Brimacombe Continuous Casting Society reserves the right to cancel or reschedule the course.

THE BRIMACOMBE CONTINUOUS CASTING SOCIETY
Mary Jansepar
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CANADA
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Continuous Casting of Steel Billets, Blooms and Slabs

TIME Monday, April 12 to Friday, April 16
7:00 a.m. to 6:00 p.m.

PLACE Pinnacle Vancouver Hotel Harbourfront
1133 West Hastings Street
Vancouver, B.C. Canada V6E 3T3

FEE **Either** $7,000 CDN or $5,000 US

WHO WILL BENEFIT

The Brimacombe Continuous Casting Course is designed for people who are concerned with controlling and improving the quality and production rate of continuously cast steel shapes. Persons who will benefit include shop floor operating personnel, quality control and research personnel, management personnel and individuals in support industries associated with continuous casting.

COURSE DESCRIPTION

Topics to be covered include chemical interactions, steel cleanliness, transfer operations, fluid flow, tundish metallurgy, mould design/behaviour, spray systems, heat extraction, solidification, segregation, electromagnetic stirring, crack formation and newer technologies such as thin slab casting. The Course offers a practical understanding of the continuous-casting process and quality based on fundamental principles and deals with problems commonly experienced in production. Much of what will be presented and discussed is based on our research, some of it unpublished, which spans a forty-year time period.

CORRESPONDENCE AND INFORMATION

The Brimacombe Continuous Casting Society
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Website: www.brimacombecourse.org

COURSE CO-DIRECTORS:

Dr. Indira V. Samarasekera
Dr. Brian G. Thomas

*** The Brimacombe Continuous Casting Society is a Canadian non-profit organization. ****