CSCS Program 2025

Fri Oct 24 – 8:00-9:00am - CSCS Board of Directors Meeting

Fri Oct 24 - 11:15 -12:15 pm
225 - SPECIAL SESSION: REDEFINING PRECISION: THE CANADIAN ROBOTIC HEART SURGERY IMPERATIVE

Session Description
As robotic technology transforms cardiac surgery worldwide, Canada faces a critical inflection point. This special session brings together national leaders to examine the current robotic cardiac surgery footprint in Canada, the urgency of scaling access and innovation, and the pathway toward a coordinated, national robotic heart surgery consortium. Through expert insights and strategic visioning, this session will challenge attendees to rethink surgical precision, equity of access, and Canada's global competitiveness in robotic cardiovascular innovation.

Learning Objectives

1. **Assess the current state and institutional distribution of robotic cardiac surgery programs across Canada, including existing capabilities, case volumes, and barriers to adoption.**
2. **Understand the strategic, clinical, and economic imperatives for scaling robotic cardiac surgery nationally, with emphasis on patient access, outcomes, and healthcare system sustainability.**
3. **Explore the framework and objectives of a proposed CSCS/CCS Robotic Heart Surgery Consortium, and identify opportunities for collaboration, data sharing, and national leadership.**

Co-Chairs:
Dr. Richard Cook
Dr. Michel Pellerin
Dr. Carolyn Teng

- The Robotic Footprint in Canada: Where are we Now?

Dr. Denis Bouchard

- Urgency to Scale: Why Canada Must Accelerate in Robotic Cardiac Surgery

Dr. Bob Kiaii

- Toward a National Vision: Launching a CSCS/CCS Robotic Heart Surgery Consortium

Dr. Daniel Burns
Dr. Derrick Tam
Dr. Michael Chu

Fri Oct 24 – 12:00-2:00pm – Annual General Meeting – Venue TBC

Fri Oct 24 - 2:00-3:00pm
245 - CARDIAC SURGERY ORAL/PODIUM PRESENTATIONS 1
Session Description
This abstract oral session showcases top-ranked and high-impact research in cardiac surgery, featuring emerging clinical data, landmark trial results, and important subgroup analyses. Presentations span the spectrum of innovation — from randomized trials to long-term surgical outcomes — offering attendees a snapshot of the most compelling science in the field.

Learning Objectives

1. **Critically appraise recent advances in clinical and translational cardiac surgery research, including randomized trials and long-term outcome studies.**
2. **Identify key sex-based and population-specific insights from contemporary cardiac surgery datasets and subgroup analyses.**
3. **Discuss the implications of new data on surgical decision-making, patient selection, and long-term outcomes in valve and atrial procedures.**

Co-Chairs:
Dr. Emmanuel Moss
Dr. Steve Singh

A pilot randomized controlled trial of direct oral anticoagulants compared to warfarin early after cardiac surgery
Ricky Turgeon

Fate of the pulmonary autograft : A look into the third decade after the Ross procedure
Vincent Chauvette

Left atrial appendage occlusion during cardiac surgery to prevent stroke (LAAOS-III): Sex differences sub study
Renee Fournier

Surgical outcomes of ischemic mitral regurgitation in females compared to males: A multi-center retrospective cohort study
Kenza Rahmouni El Idrissi (Paul Cartier Awardee)

Clinical outcomes and hemodynamic performance of the sutureless Perceval aortic valve: A 10-year single-center experience
Shubh Patel

MIST trial results
Marc Ruel

Fri Oct 24 - 3:15-4:15pm
255 - CARDIAC SURGERY ORAL/PODIUM PRESENTATIONS 2
Session Description
This session features top-ranked, cutting-edge research that is redefining contemporary cardiac surgical practice. From long-term outcomes in major trials to emerging mechanistic insights into vascular biology and innovation in intraoperative imaging, these abstracts represent some of the most impactful science being generated in Canada and beyond. Attendees will gain exposure to data that are poised to shape surgical decision-making, guideline development, and translational discovery.

Learning Objectives

1. **Evaluate recent clinical trial results and cohort studies that influence contemporary approaches to coronary, valve, and endocarditis surgery.**
2. **Understand novel intraoperative and diagnostic techniques, including the use of intravascular ultrasound for complex aortic pathology.**
3. **Explore emerging mechanistic research on ethnic disparities in cardiovascular disease and their potential implications for precision medicine in cardiac surgery.**

Co-Chairs:
Dr. Vincent Chan
Dr. Holly Mewhort
Dr. Corey Adams

Intravascular ultrasound for intraoperative assessment of malperfusion in acute type a dissection repair
Matthew Valdis

Improved outcomes with off-pump CABG: The CORONARY study results in Canada at 5 years
Andre Lamy

Early surgery in endocarditis with ischemic and hemorrhagic strokes
Panth Shah

NEWTON-CABG primary results
Subodh Verma

Impairment in vascular regenerative and reparative cell flux in South Asians: A novel mechanism of enhanced atherosclerotic risk
Syed Mohammad Ali Hassan

Long-term outcomes of the Ross procedure versus mechanical or bioprosthetic aortic valve replacement
Marie-Ange Fleury

Fri Oct 24 - 4:30-5:30pm
265 - LEGACY & LEADERSHIP: MASTERCLASS IN CARDIAC SURGERY STATE-OF-THE-ART LECTURES FROM ICONS WHO SHAPED THE FIELD
Session Description
This masterclass brings together legends of cardiovascular medicine and surgery — pioneers whose ideas, integrity, and innovations have shaped the very foundation of our field. Through state-of-the-art reflections, this session offers a rare opportunity to learn from those whose leadership and legacy continue to inspire generations of heart surgeons and clinicians.

Learning Objectives

1. **Draw lessons in leadership, mentorship, and resilience from the lived experiences of iconic figures in cardiac surgery and cardiology.**
2. **Understand the cultural and clinical pillars that drive excellence in multidisciplinary cardiac surgical care.**
3. **Gain historical perspective on surgical innovation, and its relevance to shaping the next era of progress in cardiovascular medicine.**

Co-Chairs:
Dr. Subodh Verma
Dr. François Dagenais
Dr. Maral Ouzounian

- Reflections of a Legend

Dr. Eugene Braunwald

- The Heart of the Matter: Building a Culture of Teamwork in Cardiac Surgery

Dr. Thoralf Sundt

- Incisions, Innovations, and Impact: Views from a Seasoned Heart Surgeon

Dr. Tirone David

Fri Oct 24 – 7:00-9:00pm – CSCS Presidents Dinner (Chateau Frontenac)

Sat Oct 25 - 8:30-9:30am
Session 4: INNOVATION AT THE CROSSROADS OF TRADITION

This high-impact session brings together global leaders in coronary and valve surgery to define what excellence looks like in 2025 and beyond. With a focus on outcomes that truly matter, evolving trends in mitral surgery, and a critical appraisal of transit time flow measurement, this session offers essential insights for every practicing cardiac surgeon striving for precision, quality, and innovation in care.

Learning Objectives

1. **Identify the contemporary benchmarks and evolving metrics that define excellence in coronary artery bypass grafting (CABG) outcomes.**
2. **Review key advances, controversies, and data from the past year in mitral valve surgery, including innovations in technique and patient selection.**
3. **Evaluate the current evidence and limitations surrounding the use of transit time flow measurement in intraoperative graft assessment**

Co-Chairs:
Dr. Pierre Voisine
Dr. Janet Ngu
Dr. Paul Fedak

- Defining Excellence in 2025: Outcomes that Matter in CABG

Dr. Joseph Sabik

- Year in Review in Mitral Surgery

Dr. Marc Gillinov

- Transit Time Flow: Data, Dogma, and the Drive for Evidence

Dr. Mario Gaudino

Sat Oct 25 - 10:00-11:00am
Session 5: VALVULAR HEART DISEASE: MAKING SENSE OF A CHANGING LANDSCAPE AND EVOLVING GUIDELINES

Session Description
Valvular heart disease is undergoing a rapid transformation, driven by evolving evidence, updated guidelines, and expanding interventional options. This session brings together international thought leaders to distill the most critical updates from the 2025 guidelines and highlight key clinical trials reshaping the management of structural valve disease. A moderated panel will explore the implications for surgical practice and heart team collaboration in this dynamic landscape.

Learning Objectives

1. **Summarize the major updates in the 2025 valvular heart disease guidelines, with an emphasis on practical implications for surgical and transcatheter decision-making.**

2. **Review landmark clinical trials and innovations in structural valve interventions over the past year, including their impact on treatment algorithms.**
3. **Discuss the evolving role of the multidisciplinary heart team, particularly in the context of patient selection, timing of intervention, and emerging technologies.**

Co-Chairs:
Dr. Bill Kent
Dr. Rashmi Nedadur
Dr. Chris White

- What's New and What Matters: 2025 Valvular Heart Disease Guideline Updates for Every Clinician

Dr. Michael Borger

- Structural Valve Disease: Interventions and Trials – A Year in Review

Dr. Marc Pelletier

Panel Discussion
Dr. Renzo Cecere

Sat Oct 25 - 11:00-12:00am
Session 6: WILFRED BIGELOW LECTURE AND PAUL CARTIER AWARD
Session Description
The Wilfred Bigelow Lecture is the flagship address of the Canadian cardiac surgery community, awarded to a visionary leader whose work has transformed the field. This year, Dr. Michael Borger delivers a compelling address on innovation at the boundaries of heart surgery—where disruption, progress, and precision converge. The session also celebrates the next generation of surgical excellence with the presentation of the Paul Cartier Award to an outstanding emerging investigator.

Learning Objectives

1. **Explore the role of disruptive innovation in advancing the frontiers of cardiac surgery, with insights from a global leader in complex valve and aortic disease.**
2. **Reflect on the foundational principles of leadership, creativity, and transformation that have defined landmark contributions to the field.**
3. **Recognize the importance of nurturing early-career clinician-scientists, as exemplified by the Paul Cartier Award recipient's contributions to surgical science.**

- Unleashing Progress in Heart Surgery: Disruption at the Edge of Innovation

Dr. Michael Borger

Paul Cartier Award
Kenza Rahmouni El Idrissi

Sat Oct 25 – 12:30-2:00pm – CSCS Lunch

Sat Oct 25 - 2:00-3:00pm
Session 7: CONTEMPORARY ISSUES IN CARDIAC SURGERY
Session Description
This session highlights some of the most pressing and evolving topics in cardiac surgery today, from the renewed momentum surrounding the Ross procedure to frontline approaches in acute aortic dissection. Experts will also present a vision for creating high-performing Aortic Surgery Centers of Excellence, offering a practical roadmap to optimize care delivery and outcomes in complex aortic disease.
Learning Objectives

1. **Review recent scientific evidence and clinical practice updates** related to the Ross procedure and its growing role in modern valve surgery.
2. **Learn advanced surgical strategies and expert insights** for managing acute type A aortic dissection, including decision-making under pressure.
3. **Understand the structural and clinical components** of building high-impact Aortic Surgery Centers of Excellence across diverse healthcare settings.

Co-Chairs:
Dr. Marina Ibrahim
Dr. Michael Moon
Dr. David Latter

- 2025 Ross Update: Science, Practice, and Advocacy

Dr. Jean Perron

- Type A Aortic Dissections: My Approach and Lessons Worth Sharing

Dr. Eric Roselli

- Aortic Surgery Centers of Excellence: A Roadmap to Better Outcomes

Dr. Jennifer Chung

Sat Oct 25 - 3:15-4:15pm
Session 8: NAVIGATING COMPLEX REDO AND SALVAGE VALVE SURGERY
Session Description
Redo and salvage valve surgeries are among the most technically demanding and clinically nuanced procedures in cardiac surgery. This session features leading experts sharing their approach to high-risk reoperations, including open valve surgery after failed percutaneous interventions, complex root reconstructions, and the Commando procedure. Attendees will gain critical insights into surgical risk, timing, and intraoperative decision-making when the stakes are highest.
Learning Objectives

1. **Analyze the challenges and operative strategies** for open valve surgery in patients with prior transcatheter or deemed inoperable interventions.
2. **Gain a deeper understanding of the indications, techniques, and outcomes** associated with the Commando procedure and other complex mitral-aortic interventions.
3. **Explore data-driven and experience-based approaches** to redo aortic root surgery, including risk mitigation in high-complexity cases.

Co-Chairs:
Dr. Bobby Yanagawa
Dr. Kevin LaChapelle

- Open Valve Surgery After Failed Percutaneous Intervention in Presumed Inoperable Patients: Dilemmas and Surgical Approach

Dr. Talal Al-Atassi

- The Commando Procedure: When, Where, Why—and What Are the Outcomes?

Dr. Michael Chu

- Redo Roots: Navigating the Sharks—Data, Experience, and Surgical Complexity

Dr. Nimesh Desai