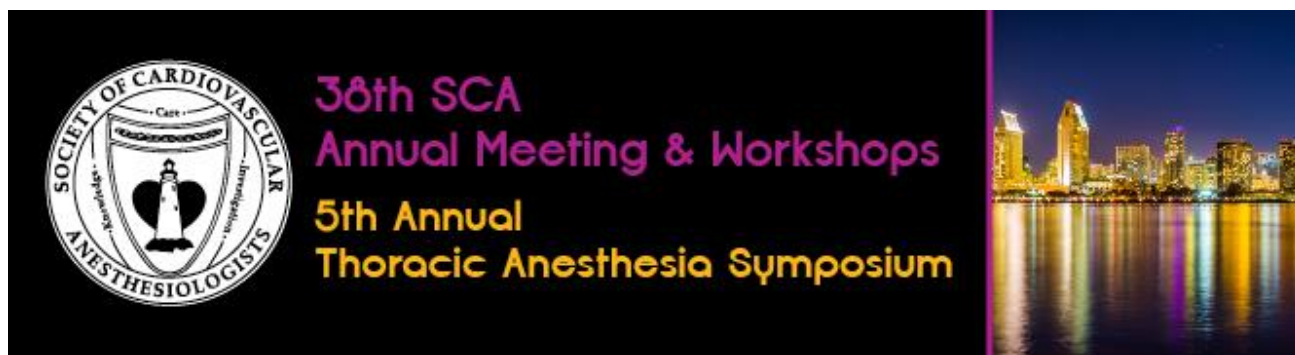




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PRELIMINARY PROGRAM AT A GLANCE

Saturday, April 2

8:00-10:00 am Making a Difference in...

Moderator: *Andrew D. Shaw, MB FRCA FCCM*

Neuroprotection – *Hilary P. Grocott, MD FRCPC FASE*

Patient Safety – *Jonathan B. Mark, MD*

Perioperative 3D TEE – *G. Burkhard Mackensen, MD PhD FASE*

Red Cell Transfusion – *Keyvan Karkouti, MD MSc FRCPC*

At the conclusion of this session, participants will be better able to:

1. Describe the spectrum of adverse neurologic outcomes after cardiac surgery.
2. State the risk factors and etiology of neurologic injury.
3. List current strategies to optimize neurologic outcome after cardiac surgery.
4. Recognize how integrating cerebral monitoring can help guide neuroprotection.
5. Discuss the complementary value of 3D in addition to 2D TEE.
6. State the utility of 3D TEE in the care of cardiovascular patients.
7. Demonstrate the value of 3D TEE in expanding the diagnostic capabilities of cardiac ultrasound.
8. Illustrate the role of 3D TEE in procedural image guidance for structural heart disease.

8:00-11:00 am Workshop 1: Advanced Transesophageal Echocardiography (TEE)

Moderators: *Jonathan Ho, MD; Stanton K. Shernan, MD FAHA FASE*

Right Ventricle – *Feroze Mahmood, MD*

Mitral Valve – *Nikolaos J. Skubas, MD DSc FACC FASE*

Cardiac Deformation – *Jacques (Prince) Neelankavil, MD*

Hands-on Stations

Right Ventricle – *Feroze Mahmood, MD; Gabriela Roca, MD*

Mitral Valve – *Nikolaos J. Skubas, MD DSc FACC FASE*

Cardiac Deformation – *Nelson Burbano, MD; George Gellert, MD*

Left Ventricle – *Kimberly Howard-Quijano, MD MS*

At the conclusion of this session, participants will be better able to: TBD.

8:00-11:00 am Workshop 2: Coagulation & Transfusion

Moderators: *Gregory A. Nuttall, MD; Mark A. Taylor, MD FASE*

Point of Care Testing and Transfusion Algorithms in Cardiac Surgery – *Keyvan Karkouti, MD MSc FRCPC*

Massive Transfusion Protocols: Advantages/Complications – *Michael A. Mazzeffi, MD*

Blood Conservation in Cardiac Surgery-the When and How – *Aryeh Shander, MD*

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Hands-on Stations

Point of Care Testing: Qualitative vs. Quantitative Platelet Analysis – *Jason D. Kennedy, MD; Yasdet Maldonado, MD; Linda Shore-Lesserson, MD FAHA FASE*

Point of Care Testing: Anticoagulation - *Aryeh Shander, MD; Kamrouz Ghadimi, MD*

Point of Care Testing: Thromboelastography – *Michael A. Mazzeffi, MD*

Rapid Infusion – *Ellen M. Dailor, MD; Daisuke Nonaka, MD*

Cell Salvage – *Harendra Arora, MD; C. David Mazer, MD*

At the conclusion of this session, participants will be better able to: TBD.

10:00-10:30 am Morning Break

10:30 am- Decision Making in Atrial Fibrillation

12:00 pm Moderator: *Jonathan Ho, MD*

Clot or no Clot - How to Tell? – *Mias Pretorius, MBChB MSCI*

Post-Op Prophylaxis - Does Anything Work? – *Joseph P. Mathew, MD*

Surgical vs. Catheter Ablation - Which is better? – *Aman Mahajan, MD PhD*

At the conclusion of this session, participants will be better able to

1. Discuss therapeutic strategies for reducing post-operative atrial fibrillation.
2. Discuss the state of supporting data and current recommendations for prevention of post-operative atrial fibrillation.
3. Recognize echocardiographic findings used in determining the presence of intracardiac thrombus.
4. Discuss implications of thrombus in procedural decision making.
5. Discuss procedural differences between surgical and catheter based intervention for AF.
6. Recognize indications for surgical and catheter-based atrial fibrillation ablations.

10:30 am- Ethics of Extracorporeal Membrane Oxygenation (ECMO)

12:00 pm Moderator: *Yasdet Maldonado, MD*

A Bridge to What, Exactly? Decision-Making in ECMO – *Jason D. Kennedy, MD*

Can We Afford it? Does Payer Status Matter? – *Jamie Ramsay, MD*

ECMO for Organ Donors too? – *Jacob Gutsche, MD*

Patient Perspective – *Michael Crowe, PharmD*

At the conclusion of this session, participants will be better able to:

1. Identify when ECMO should be used.
2. Evaluate the role of ECMO during organ donation.
3. Summarize the financial aspects of ECMO.

11:00 am- (Fellows) Complex Case Presentations Session #1

12:00 pm

12:00- Lunch

1:00 pm

1:00-3:30 pm Cerebral and Spinal Cord Protection During Complex Cardiac and Aortic Cases

Moderator: *Albert T. Cheung, MD*

Anesthetic Management for DHCA – *Hilary P. Grocott, MD FRCPC FASE*

What Can the Surgeon do? – *Michael Fischbein, MD*

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What's the Role of CSF Drainage? – *James Anton, MD*

What's the Role of Embolic Filters? – *Hamdy M. ElSayed-Awad, MD*

What's the Role of NIRS? – *Mark A. Taylor, MD FASE*

At the conclusion of this session, participants will be better able to:

1. List what neurologic complications can and cannot be detected by NIRS.
2. Recall existing clinical evidence that supports the efficacy of NIRS for preventing neurologic complications of aortic operations.
3. Identify the clinical conditions that can affect the value of cerebral oximetry measured by NIRS.
4. Describe what procedures are associated with a risk for thromboembolic stroke.
5. List which embolic filters are available commercially and which are under investigation.
6. State the clinical evidence to support the use of embolic filters to prevent cerebral thromboembolism.
7. Describe what procedures are associated with a risk of spinal cord ischemia.
8. Recall the clinical evidence that supports the efficacy of CSF drainage to prevent and treat spinal cord ischemia.
9. Identify the risks associated with CSF drainage.
10. Describe how the decision is made to use selective antegrade cerebral perfusion versus DHCA for aortic arch operations.
11. List surgical techniques to prevent cerebral thromboembolism.
12. State how a surgical decision is made whether to re-implant intercostal or segmental arteries during open thoracoabdominal aortic aneurysm repair.

1:00-3:30 pm Decision Making in Perioperative Heart Failure

Moderator: *Sasha Shillcutt, MD FASE*

Case Presentations: Making the Diagnosis – *Nicholas W. Markin, MD*

Intraoperative Heart Failure- Now Get out of That – *James Anton, MD*

Mechanical Assist for all Failing hearts? – *Annemarie Thompson, MD*

Pro-Con Debate: LVADs for the Heart Failure Epidemic

Pro: DT is the Solution – *Gert (Victor) D. Pretorius, MBChB*

Con: VADs should only be used as Bridge to Transplant- *Srdjan Jelacic, MD*

At the conclusion of this session, participants will be better able to:

1. Discuss current medical management strategies for intraoperative heart failure.
2. Discuss preoperative optimization of patients with heart failure.
3. Discuss the role of mechanical assist devices in the treatment of perioperative heart failure.

1:00-4:00 pm Workshop 3: Non-Cardiac U/S: Lungs, Vascular Access, FAST and more

Moderators: *Achikam Oren-Grinberg, MD; Andrew S. Weisinger, MD FASE*

The FAST Exam – *Eric Ursprung, MD*

Lung U/S – *Jacek Wojtczak, MD*

U/S for vascular access – *TBD*

Hands-on Stations

FAST – *Robina Matyal, MD; Mario Montealegre, MD; Eric Ursprung, MD*

Lung U/S – *Amit Bardia, MBBS; Massimiliano Meineri, MD; Jacek Wojtczak, MD*

Vascular Access – *Karsten Bartels, MD; Ellen M. Dailor, MD*

At the conclusion of this session, participants will be better able to: TBD.

1:00-4:00 pm Workshop 4: Case-based TEE

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Moderators: *Yasdet Maldonado, MD; Alina Nicoara, MD FASE*

Hands-on Stations

Echo in the ICU: Role in the Patient with Hemodynamic Instability – *J. Mauricio Del Rio, MD*
High Gradient Prosthetic Valves: When to Return to CPB – *Georges Desjardins, MD FRCPC FASE*
Ischemic Mitral Regurgitation: When to Fix – *Gary A. Moneiro, MD*
Paravalvular Leaks: When to Return to CPB – *Charles B. Nyman, MBBCh*
Mitral Regurgitation in HOCM: When to Address the Mitral Valve – *Kent H. Rehfeldt, MD FASE*
Imaging in Devices (ECMO, VADS): What is Real vs. Artifact? – *Mark A. Taylor, MD FASE*

At the conclusion of this session, participants will be better able to:

1. Discern whether paravalvular leaks require return to CPB.
2. Make appropriate recommendations about when to fix the mitral valve in ischemic MR.
3. Correctly interpret the clinical impact of high gradients in prosthetic valves.
4. Understand when to address MR in the patient with HOCM.
5. Identify common echo artifacts in VAD/ECMO patients.

1:15-2:15 pm Complex Case Discussion with Expert Panel

Moderators: *William (Skip) C. Culp, Jr., MD FASE; Roman Sniecinski, MD FASE*

In this session, the best fellow complex case presentation submissions will be presented orally and discussed by an expert faculty panel.

Panelists: *John A. Fox, MD; Aman Mahajan, MD PhD; Scott T. Reeves, MD MBA FACC FASE*

After attending this session, the participant will be better able to:

1. Identify unique features of complex cases and discuss systems, processes, and options for management.
2. Describe how to manage complex case presentations in cardiac surgery.
3. Manage complex cases by appreciating pathophysiology and supporting decisions based on current medical literature.

2:15-3:30 pm Problem-Based Learning Discussion: Lung Transplantation

Facilitators: *Ioanna Apostolidou, MD; Dalia A. Banks, MD FASE; Tara R. Brakke, MD FASE; Megan Chacon, MD; Albert T. Cheung, MD; Michelle Downing, MD; Susan Eagle, MD; John A. Fox, MD; Brian J. Gelfand, MD; Jonathan Ho, MD; Jacques (Prince) Neelankavil, MD; Mark T. Nelson, MD MEd; Jennie Yee Ngai, MD; Prakash A. Patel, MD; Yong G. Peng, MD PhD FASE; Jack S. Shanewise, MD FASE; Sasha Shillcutt, MD FASE; Sudhakar Subramani, MD MMED; Michele Sumler, MD; Nelson Thaemert, MD; Kevin C. Thornton, MD; J. Clint Tippet, MD; Daniel Tolpin, MD; Matthew Townsley, MD; Justin Wilson, MD*

After attending this session, the participant will be better able to:

1. Outline the anesthetic management of the patient undergoing orthotopic lung transplantation.
2. Recognize various intraoperative circulatory and ventilatory management strategies for optimization of the transplanted lung or lungs.
3. Explain postoperative decision-making and management of these patients in the CTICU.

3:30–4:00 pm Afternoon Break

4:00-5:00 pm A Career in CT Anesthesiology: Mission Possible

Moderators: *William (Skip) C. Culp, Jr., MD FASE; Roman Sniecinski, MD FASE*

Panelists: *Kathryn E. Glas, MD MBA FASE; Lori B. Heller, MD; Madhav Swaminathan, MD FASE*

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After attending this session, the participant will be better able to:

1. Identify various paths of a successful career in cardiothoracic anesthesiology.
2. Understand the process of transitioning from a fellow to a career in private practice.
3. Describe ways to balance demands of life and work as an anesthesiologist.
4. Appreciate the role of mentorship in career development.

4:00-5:30 pm Controversies in Vascular Surgery

Moderator: *Wanda M. Popescu, MD*

Spinal Cord Protection during TEVAR – *Martha M. Wynn, MD*

Pro/Con Debate: The Best Surgical Option for an Abdominal Aortic Aneurysm is an Endograft

Pro – *Bart E. Muhs, MD PhD*

Con – *Sherif Assaad, MD*

What's New in Endovascular Repair of a Thoracic Aortic Pathology? – *Charles Acher, MD*

At the conclusion of this session, participants will be better able to: TBD.

5:00-6:00 pm (Fellows) Complex Case Poster Presentations Session #2

6:00-7:00 pm (Fellows) Optional Mentor Program

(For invited mentors & mentees only)

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Sunday, April 3

6:45-8:00 am Problem-Based Learning Discussions

PBLD 1	Showing Value to Your Hospital as a Cardiovascular Anesthesiologist	Steven N. Konstadt, MD; Joseph N. Szokol, MD
PBLD 2	Pitfalls and Solutions in Invasive Arterial Pressure Measurement	Hamdy M. ElSayed Awad, MD; Jacek Wojtczak, MD
PBLD 3	Blood Management and Transfusion Avoidance	Lori B. Heller, MD Keyvan Karkouti, MD FRCPC MSc;
PBLD 4	Lung Transplantation	Daisuke Nonaka, MD; Mark Stafford-Smith, MD CM FRCPC FASE
PBLD 5	Prevention and Management of Atrial Fibrillation after CT Surgery	Noel Boyle, MD PhD; Aman Mahajan, MD PhD
PBLD 6	Hypertrophic Obstructive Cardiomyopathy	Jiapeng Huang, MD PhD; Thomas Maher, MD
PBLD 7	Perioperative Coagulopathy and Transfusion	Prakash A. Patel, MD; Ian Welsby, MD MBBS BSc FRCA

8:00-9:00 am Earl Wynands Lecture

Moderators: *Andrew Shaw, MB FRCA FCCM; Davy C.H. Cheng, MD MSc FRCPC FCAHS CCPE*

Earl Wynands lecture: Valve Sparing Aortic Surgical Procedures –*Tirone E. David, MD*

At the conclusion of this session, participants will be better able to:

1. Identify patient selection for aortic valve sparing operations.
2. Appraise intraoperative TEE evaluation of adequacy of repair.
3. Determine intraoperative TEE's long-term outcomes.

9:00-10:30 am SCA/STS: An Update on Cardiac Surgery & Perioperative Echocardiography for Mitral Regurgitation

Moderator: *Stanton K. Shernan, MD FAHA FASE*

The Cardiac Surgeon's Dilemma for Ischemic Mitral Regurgitation: Coronary Revascularization with or without Mitral Valve Repair or Replacement? – *Tirone E. David, MD*

New Concepts and Controversies in the Echocardiographic Evaluation of Functional Mitral Regurgitation Severity – *Stanton K. Shernan, MD FAHA FASE*

Percutaneous Approaches in the Treatment of Functional Mitral Regurgitation – *G. Burkhard Mackensen, MD PhD FASE*

At the conclusion of this session, participants will be better able to:

1. List surgeons' criteria for determining whether patients with ischemic mitral regurgitation should undergo coronary revascularization alone or a concurrent mitral valve procedure.
2. Explain indications for performing percutaneous approaches for the treatment of functional mitral regurgitation.

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3. Differentiate functional mitral regurgitation from other mechanisms based upon novel concepts describing the pathophysiology of this disease, and new criteria for grading severity.

**9:00 am-
12:00 pm**

Workshop 5: Transthoracic Echocardiography

Moderator: *Tara R. Brakke, MD FASE*

The Basic TTE Exam and Anatomy – *Jonathan Ho, MD*

How TTE Has Impacted My Management – *Sasha Shillcutt, MD FASE*

TEE to TTE Comparison Anatomy – *Candice R. Montzingo, MD*

Hands-on Stations

Live model – *Jonathan Ho, MD; Sasha Shillcutt, MD FASE*

Simulator – *Julian S. Bick, MD; Ravi Vivekanand Joshi, MD; Candice R. Montzingo, MD; Walker R. Thomas, BS RDCS FASE*

At the conclusion of this session, participants will be better able to: TBD.

**10:30–
11:00 am**

Coffee Break

**11:00 am-
12:30 pm**

Heparin and Protamine Shenanigans

Moderator: *Priya A. Kumar, MD*

Alternatives to Heparin – *Jerrold H. Levy, MD*

Heparin Induced Thrombocytopenia – *Ian Welsby, MD MBBS BSc FRCA*

Heparin Reversal and Protamine Reactions – *Gregory A. Nuttall, MD*

Heparin Sensitivity and Resistance – *Sophia Chew, MMED (Anaes) MBBS FANZCA*

At the conclusion of this session, participants will be better able to:

1. Identify Heparin Induced Thrombocytopenia (HIT), its clinical implications and management.
2. Discuss the alternatives to heparin, their utility and mechanisms of action.
3. Describe the risks and benefits of protamine for heparin reversal.
4. Identify the different types of protamine reactions, their diagnosis and management.

**11:00 am-
12:30 pm**

Demystifying the Electrophysiology (EP) Laboratory

Moderator: *Nelson Thaemert, MD*

Anesthesia in the EP lab: What could Possibly go Wrong? – *Alina Nicoara, MD FASE*

EP Primer for Non-EP Physicians: What's going on with Mapping and Ablation? – *Noel G. Boyle, MD PhD*

How Can Anesthesia Impact the Quality of Ablation? – *Aman Mahajan, MD PhD*

Coming Soon to Your EP Lab: What's New in the Pipeline? – *Charles B. Nyman, MBBSCh*

At the conclusion of this session, participants will be better able to:

1. State the anesthetic implications of electrophysiology ablation procedures, including areas for potential complications and how anesthetics can impact the procedure.
2. Describe the cardiologist's role and decision-making in diagnostic and interventional electrophysiology procedures.
3. Name new technologies, techniques and procedures emerging in the electrophysiology lab.

**11:00 am-
12:30 pm**

What Causes End-Organ Dysfunction in Cardiac Surgery?

Moderator: *Frederic (Josh) T. Billings, IV, MD*

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Oxidative Stress is the Problem – *Frederic (Josh) T. Billings, IV, MD*

Ischemia Reperfusion causes both Local and Distant Injury – *Karsten Bartels, MD*

Is it the Pump or the Sternotomy? – *Jochen (Danny) Muehlschlegel, MD FAHA*

Inflammation - Why do some People mount more of a Response than Others? – *Quintin Quinones, MD PhD*

At the conclusion of this session, participants will be better able to:

1. Describe the incidence, severity, and impact of organ dysfunction following cardiac surgery.
2. Identify modifiable risk factors for organ dysfunction following cardiac surgery.
3. Explain the mechanisms of organ injury following cardiac surgery.

12:30–1:30 pm Lunch

1:30-3:00 pm Heart, Lung, and Liver Transplantation Update

Moderator: *C. David Collard, MD MS*

Heart - How to Support a Failing Right Side – *Marco A. Aguirre, MD*

Lung - Partial Lung Assist / ECMO Instead of CPB – *Peter Von Homeyer, MD FASE*

Liver - Is ECHO Necessary in Every Case? – *Nicholas W. Markin, MD*

At the conclusion of this session, participants will be better able to:

1. Recall recent data on the management of right ventricular failure following transplantation.
2. State the use of CPB and ECMO in lung transplantation.
3. List the strengths and weaknesses of intraoperative TEE for liver transplantation.

1:30-3:00 pm SOCCA

Moderator: *Laureen L. Hill, MD MBA*

Turning the Tide on Alert Fatigue – Using Data Efficiently to Improve Patient Outcomes – *Brian W. Pickering, MBBCh BAO BA*

Enhanced Recovery in Cardiothoracic Surgery: What Patients? What Agents? What Techniques? – *Breandan Sullivan, MD*

Improving In-Hospital Cardiopulmonary Resuscitation – *James Blum, MD*

“Futility” and Resource Utilization in Cardiothoracic Critical Care – *Michael A. Mazzeffi, MD MPH*

At the conclusion of this session, participants will be better able to:

1. Recall the role of "smart" technology to improve patient care and outcomes.
2. Discuss the current state of "fast track" anesthesia in cardiothoracic surgery.
3. Describe the use of TEE, hypothermia and ECMO to improve outcomes for in-hospital cardiac arrest.
4. Outline the societal challenges related to use of advanced technologies in caring for the elderly, frail and patients near end of life.

1:30-3:00 pm A Practical Guide to Clinical Performance Measures in Cardiac Surgery

Moderator: *Tjorvi Perry, MD*

How can the STS/SCA Database Help Me with Quality? – *Robert Farivar, MD PhD*

Does Everybody Need to be Above Average? Unexpected Consequences of Performance Assessment - *Laurent G. Glance, MD*

Current State of Collecting and Reporting Clinical Performance Measures - *Rebecca A. Schroeder, MD*

At the conclusion of this session, participants will be better able to:

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1. Recall the current state of clinical performance measures: where are we as a discipline when it comes to collecting and reporting clinical performance measures?
2. Explore what clinical performance measures we should be collecting, including the ones that matter to patients and providers.
3. State how formal collaboration between the STS and the SCA to develop a comprehensive registry for cardiac surgical patients can benefit quality of patient care.
4. Explore the current appetite for clinical performance transparency between surgeons and anesthesiologists, between care providers and patients.
5. List the implications of assessing clinical performance measures in cardiac surgical patients, and how public reporting might impact care models.

1:30-4:30 pm Workshop 6: Percutaneous Valve

3:00–4:00 pm Opening of Exhibits and coffee break

4:00-5:30 pm A & A State of the Art

Moderator: *Martin London, MD*

Frailty, Aging and Cardiovascular Surgery – *Charles Brown, MD*

New Innovations in VAD and ECMO Therapy – *Robert N. Sladen, MBChB FCCM*

Sedation after Cardiac Surgery – Is One Drug Better Than Another? – *Hong Liu, MD*

At the conclusion of this session, participants will be better able to:

1. Describe the conceptualization and measurement of frailty.
2. Discuss the epidemiology of frailty in the perioperative period.
3. Explain how frailty may impact outcomes in both community-dwelling populations and perioperative populations.
4. Compare potential interventions for frail patients and gaps in knowledge regarding management of frail patients in the perioperative period.

4:00-5:30 pm Super Echo Panel Discussion

Moderators: *Kathryn E. Glas, MD MBA FASE; Sasha Shillcutt, MD FASE*

Panelists: *Donna L. Greenhalgh, MBChB FRCA FFICM; Annemarie Thompson, MD; Christopher A. Troianos, MD*

At the end of this session, the audience will have an understanding of existing knowledge regarding several current research topics:

1. Discuss various echocardiographic techniques employed to solve intraoperative echocardiographic dilemmas.
2. Define how the use of transesophageal echocardiography provided the solution to challenging clinical scenarios.
3. Provide presentation opportunities to junior faculty members.

4:00-6:00 pm Oral Research Presentations (1)

Moderator: *Mark Stafford-Smith, MD CM FRCPC*

At the conclusion of this session, the audience will have an understanding of:

1. Existing knowledge regarding several current research topics
2. Areas that remain poorly understood regarding these topics.
3. A recent research inquiry regarding these topics.

6:30–8:30 pm Gala Party

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Monday, April 4

6:45-8:00 am Problem-Based Learning Discussions

PBLD 8	Every Pressor I Can Think of and Still No BP! Managing Vasoplegia	Adam Evans MD MBA; Matthew Levin, MD
PBLD 9	Avoiding Problems with Pacemakers and ICDs	Jonathan Ho, MD; Jacques (Prince) Neelankavil, MD
PBLD 10	One-Lung Ventilation in a Patient with Fontan Circulation and Undergoing Thoracoscopic Procedure	Draginja R. Cvetkovic, MD; Galina Leyvi, MD
PBLD 11	Preventing and Managing Perioperative Delirium	Hilary R. Grocott, MD FRCPC FASE; Srdjan Jelacic, MD
PBLD 12	Can you be Too Cold? Temperature Management for DHCA	Harendra Arora, MD; Albert T. Cheung, MD
PBLD 13	ECMO: When to Start, When to Stop	Jacob Gutsche, MD; Yasdet Maldonado, MD
PBLD 14	The Adult Patient with Congenital Heart Disease	Tara R. Brakke, MD FASE; Katie Goergen, MD

8:00-10:00 am Acute and Chronic Right Heart Failure

Moderator: *G. Burkhard Mackensen, MD PhD FASE*

Right Heart Failure - Pharmacology– *Georges Desjardins, MD FRCPC FASE*

Right Heart Failure - Mechanical Assist Options – *Manuel Fontes, MD*

Perspectives of the Anesthesiologist with Emphasis on Perioperative Management – *Dalia A. Banks, MD FASE*

Perspectives of the Surgeon with Emphasis on Patient Selection & Intraoperative Technique – *Michael M. Madani, MD FACS*

At the conclusion of this session, participants will be better able to:

1. Discuss pharmacologic options that may support a dysfunctional or failing right ventricle.
2. Define and summarize the utility of mechanical circulatory support in the context of right heart failure.
3. Present a state of the art update on the perioperative management of patients undergoing pulmonary thromboendarterectomy (PTE).
4. Describe, interpret and illustrate the surgical approach to pulmonary thromboendarterectomy (PTE) and how these may affect patient management.

10:00-10:30 am Coffee Break with Exhibits

10:30-11:30 am Keynote Lecture

Moderator: *Linda Shore-Lesserson, MD FAHA FASE*

Moving from a volume-based practice to a value-based practice – *Joanne Conroy, MD*

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11:30-11:50 am **Annual Business Meeting and Distinguished Service Award presentation**

11:50 am-12:15 pm **ASA Update**
Speaker: *Stanley W. Stead, MD*

1:30-3:00 pm **Board of Directors TEE Pros/Cons**
Moderator: *Madhav Swaminathan, MD FASE*

TEE for All?

Pro - *Albert C. Perrino, MD*

Con - *Stanton K. Shernan, MD FAHA FASE*

3D TEE Changes Outcomes?

Pro - *G. Burkhard Mackensen, MD PhD FASE*

Con – *Kathryn E. Glas, MD MBA FASE*

At the conclusion of this session, participants will be better able to:

1. Delineate the rationale for using TEE in surgical patients with cardiovascular disease.
2. State the advantages and disadvantages of an approach that encourages the use of TEE for all surgical patients.
3. Discuss the value of 3D TEE in influencing outcomes after cardiac surgery.

1:30-3:00 pm **What Does Elderly Mean for Cardiac Surgery in 2016?**
Moderator: *Donna L. Greenhalgh, MBChB FRCA FFICM*

Physiology of Aging – *Joerg Ender, MD*

When Are You Too Old to Have Heart Surgery? – *Fabio G. Guarracino, MD*

Enough Already? When is it Time to Change the Emphasis of Care in the ICU? – *S. Nick Fletcher, MBBS FRCA*

At the conclusion of this session, participants will be better able to:

1. Describe the physiology of aging and the difference of this population compared to the younger generation exploring the mitochondrial differences & oxygen capacity.
2. State the limitations of having cardiac surgery, when are you too old? Should we be limiting the age to have cardiac surgery? Describe the problems associated with the elderly in cardiac surgery & strategies to help overcome them.
3. Define when the limits have been reached & enough is enough. Decision making in the ICU & treating patients with dignity when the outcome is poor & we are prolonging death.

1:30-3:00 pm **New Coagulation Factor Drugs (PCCs, Riastap, etc.)**
Moderator: *Roman Sniecinski, MD FASE*

For Reversing NOACs – *Ian Welsby, MD MBBS BSc FRCA*

For Treating Bleeding – *Kenichi Tanaka, MD*

Economics – *Steven N. Konstadt, MD*

At the conclusion of this session, participants will be better able to:

1. Describe the mechanism of action of the new oral anticoagulant drugs (NOACs) and recognize what interventions may be most appropriate for reversing their effects.
2. Apply the administration of coagulation factor drugs such as PCCs and fibrinogen concentrate to the treatment of coagulopathy following complex cardiac surgery.

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3. Assess the risks and benefits of the new coagulation factor drugs in terms of clinical care as well as from an economic standpoint.

3:00-3:30 pm Coffee Break with Exhibitors

3:30-5:00 pm Acute Kidney Injury

Moderator: Andrew S. Weisinger, MD FASE

Acute Kidney Injury following Cardiac Surgery: Pathobiology and Diagnosis – *Frederic (Josh) T. Billings, IV, MD*

Renoprotective Pharmacological Agents are Useful in Cardiac Surgery

Pro - *Robert N. Sladen, MBChB FCCM*

Con - *Mark Stafford-Smith, MD CM FRCPC FASE*

At the conclusion of this session, participants will be better able to:

1. Define acute kidney injury and how it relates to cardiac surgery.
2. Recognize both the diagnostic systems of Risk, Injury, Failure, Loss, End-Stage Renal Disease (RIFLE) and acute Kidney Injury Network (AKIN).
3. State the pathogenesis of AKI. Tell the differences in volume responsive and non-volume responsive AKI.
4. Identify how to use various biomarkers to identify and diagnose AKI related to cardiac surgery.
5. State the various pharmacological agents that have been shown to improve renal outcomes.
6. Explain which pharmacological agents are protective and which ones may also be therapeutic once an insult has occurred.
7. Discuss the various pathophysiologic mechanisms by which these agents are thought to exert their effects.
8. Recognize why renoprotective pharmacologic agents may not treat or prevent acute kidney injury associated with cardiac surgery.

3:30-5:00 pm Do Cardiac Anesthesiologists Really Make a Difference and at What Cost?

Moderator: *Tjorvi Perry, MD*

What is a Cardiac-Trained Anesthesiologist? Have we Lost Sight of the Floor? – *Bryan G. Maxwell, MD*

If Only Everyone Was as Well-Trained as Me: Exploring the Impact of Performance on Clinical Outcomes in the Cardiac Surgical Patient – *Laurent G. Gance, MD*

Reconciling the Cost of a Cardiac Anesthesiologist: How Much is Too Much? – *Christopher A. Troianos, MD*

At the conclusion of this session, participants will be better able to:

1. Define to what standard we hold practicing cardiac anesthesiologists; during training, during their career.
2. List the benefits and risks of setting a performance bar, and how setting a bar might impact current practice models.
3. Retell how we are defining low and high performing anesthesiologists?
4. State how we might turn our low performers into high performers, and how we might ensure that our high performers remain high performing.
5. Define the value (quality/cost) of a cardiac anesthesiologist; will salaries top out? Will reimbursement rates drive value? How might alternative payment models impact the value of a cardiac anesthesiologist?

3:30-5:30 pm Oral Research Presentations (2)

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Moderator: *Thomas Floyd, MD CM FRCPC*

At the conclusion of this session, the audience will have an understanding of:

1. Existing knowledge regarding several current research topics
2. Areas that remain poorly understood regarding these topics.
3. A recent research inquiry regarding these topics.

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PRELIMINARY PROGRAM AT A GLANCE

Tuesday, April 5

6:45-8:00 am Problem-Based Learning Discussions

PBLD 15	Trials and Tribulations of Initiating CPB	Eugene A. Hessel, II MD; Oksana Klimkina, MD
PBLD 16	Descending Thoracic Aortic Repair: Aortic Transection	Johannes Dorfling, MD; J. Thomas Murphy, MD
PBLD 17	Mitral Repairs Minimally Invasive – Maximum Headache?	Ellen M. Dailor, MD; Ludmil (Lou) Mitrev, MD
PBLD 18	LVAD Looks Great. Right Heart - Not so Much	Theresa A. Gelzinis, MD; Erin A. Sullivan, MD
PBLD 19	Pre-Op Clinic for SDA Cardiac Surgery: First Step Toward the Perioperative Surgical Home	Andrew Goldberg, MD; George Silvay, MD PhD
PBLD 20	High Risk Lead Extractions: Who, Where and How?	Michael Barron, MD; Lilibeth Fermin, MD
PBLD 21	Negotiating Payments for Anesthesia Services with Bundling and Capitation.	Solomon Aronson, MD MBA FACC FAHA FASE; Nelson Thaemert, MD

8:00-10:00 am Town Hall Debate

Moderator: *Scott T. Reeves, MD MBA FACC FASE*

Current State of Advanced Perioperative TEE Certification by the National Board of Echocardiography – *Stanton K. Shernan, MD FAHA FASE*

Perioperative Ultrasound Training in Anesthesiology - A Call to Action – *Feroze Mahmood, MD*

SCA Sponsored Subspecialty Certification in Cardiothoracic and Vascular Anesthesiology – *Mark Stafford-Smith, MD CM FRCPC FASE*

Training and Certification in Cardiothoracic and Vascular Anesthesiology – *Solomon Aronson, MD MBA FACC FACCP FAHA FASE; Donna L. Greenhalgh, MBChB FRCA FFICM; Steven N. Konstadt, MD; Annemarie Thompson, MD; Michael S. Wall, MD FCCM; Andrew S. Weisinger, MD FASE*

At the conclusion of this session, participants will be better able to:

1. Should advanced TEE (re)certification be required for credentialing to provide cardiac anesthesia to adults?
2. Should perioperative ultrasound training be required of residents graduating anesthesia programs?
3. Should there be a subspecialty qualification in adult cardiac anesthesia?
4. Should there be more critical care training offered in CT anesthesia fellow programs?

10:00-
10:30 am

Coffee Break

10:30 am-
12:00 pm

Red Cell Transfusion Controversies

Moderator: *J. Mauricio Del Rio, MD*

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Liberal and Conservative Transfusion Triggers - What do they Mean? – *C. David Mazer, MD*
The Storage Lesion - Real Threat or Mythical Beast? – *Elliott Bennett-Guerrero, MD*
Preoperative Hemoglobin Management Strategies – *Lori B. Heller, MD*

At the conclusion of this session, participants will be better able to:

1. State the pathophysiologic implications, clinical applications and current evidence regarding the use of different transfusion triggers in cardiac surgery.
2. Apply recent evidence about the effects of storage in red blood cells and the potential implications for perioperative transfusion in cardiac surgery.
3. Use diverse strategies for preoperative hemoglobin optimization in the setting of contemporary cardiac surgery.
4. Determine how to improve preoperative anemia.

**10:30 am-
12:00 pm**

Focus on the Tricuspid Valve

Moderator: *Tara R. Brakke, MD FASE*

Structure and Function of the Tricuspid Valve – *Sreekanth Cheruku, MD*
How to Assess Tricuspid Regurgitation? – *Carlos Galhardo, MD*
What Causes Functional TR? – *Nikolaos J. Skubas, MD DSc FACC FASE*
Rapid Fire Pro/Con

Don't Touch It! It Will Get Better On Its Own – *Chirojit Mukherjee, MD PhD*
No It Won't - Go Ahead and Fix It – *Kent H. Rehfeldt, MD FASE*

At the conclusion of this session, participants will be better able to:

1. Identify tricuspid valve anatomy and understand its structure and function.
2. Classify the severity of the tricuspid regurgitation using echocardiography and the surgical recommendations associated with insufficiency.
3. Evaluate the causes of tricuspid regurgitation and the benefits and outcomes associated with surgical intervention versus no intervention.

12:00-1:30 pm Lunch

1:30-3:00 pm Navigating the Financial Mine Field

Moderator: *C. David Collard, MD MS*

Evolving Bundled Payment Systems – *Christopher A. Troianos, MD*
It's a Dog Eat Dog World - What to Do If Your Group Gets Taken Over – *Joseph W. Szokol, MD*
Negotiating for a Slice of the Pie – *Stanley W. Stead, MD*

At the conclusion of this session, participants will be better able to:

1. Explain bundled payment systems and their financial impact.
2. State how you and your group can position yourself in a rapidly changing healthcare environment.
3. Recognize how to position yourself at the contracting table (instead of being on the menu).

1:30-3:00 pm Research Session: Outside the Box Ideas in Cardiovascular Medicine: Hormesis, Turtle Hearts and Mathematical Models

Moderator: *Paul M. Heerdt, MD PhD FCCP*

A Little Bad May Be Good: Hormesis and Adaptive Responses in Health and Disease – *Mihai V. Podgoreanu, MD FASE*
Turtle Hearts on YouTube? Lessons Learned from 3-Chambered Hearts – *Paul M. Heerdt, MD PhD FCCP*

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Practical Application of Cardiovascular Modeling and Simulation – *Marc L. Dickstein, MD*

At the conclusion of this session, participants will be better able to:

1. Recognize the concept of hormesis in which exposure to low levels or doses of numerous environmental stressors (e.g., ischemia, hypoxia, heat, cold, exercise, intermittent fasting, radiation, electricity, toxins, chemicals, or drugs) stimulate a wide range of preconditioning or adaptive responses that may profoundly affect the outcomes of cardiothoracic and vascular surgical interventions.
2. Recall the molecular and structural characteristics of turtle hearts that may have real or potential bearing on human cardiac functional reserve.
3. Assess the utility of computational models that integrate a range of factors dictating cardiovascular function into a user-controlled interface for predicting the physiological response to disease, drugs, surgery, and mechanical support.

1:30-3:00 pm Controversies in Interventional Cardiology

Moderator: *Wendy L. Pabich, MD*

TAVR vs SAVR? – *Lebron Cooper, MD*

PCI vs CABG – *Davy C.H. Cheng, MD MSc FRCPC FCAHS CCPE*

Lead Extractions - Where and How Should These Happen? – *Nelson Thaemert, MD*

At the conclusion of this session, participants will be better able to:

1. Identify the risks and benefits associated with TAVR as compared to SAVR.
2. Identify which coronary lesions are potentially amenable to PCI vs. those that are best served by surgical intervention.

3:00-3:30 pm Coffee Break and Exhibits

3:30-5:00 pm The Role of Human Factors in CPB Disasters

Moderator: *Glenn P. Gravlee, MD*

CPB-Related Aortic Dissection: Why It Happens and What We Need to Know – *Eugene A. Hessel, II, MD*

Transitions of Care between Groups: What is Best Practice? – *Sarah Parker, PhD*

Perfusion Emergencies and What the Anesthesiologist Can Do to Help – *KimDeLaCruz, CCP FPP*

A Surgeon's Perspective on Teamwork during CPB – *TBD*

At the conclusion of this session, participants will be better able to:

1. Recognize the influence of human error on patient outcomes.
2. Describe methods and techniques to treat peri-bypass aortic dissections.
3. Describe high performance teams for managing cardiopulmonary bypass.
4. Explain the circumstances that can lead to perfusion disasters or emergencies.

3:30-5:00 pm Adult Congenital Heart Disease (ACHD): Special Considerations for Patients with CHD Surviving into Adulthood

Moderator: *Gregory M. Janelle, MD FASE*

Current Outcomes and Expectations for Patients with Common Congenital Heart Lesions – *Dean B. Andropoulos, MD*

Anesthetic Considerations for:

Adults with CHD Presenting for Redo-Cardiac Surgical Procedures – *Susan Eagle, MD*

Adults with CHD Presenting for Non-Cardiac Surgery – *Andrew D. Pitkin, FRCA MRCP*

Adults with CHD Presenting to Labor and Delivery – *Laurie R. Davies, MD*

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At the conclusion of this session, participants will be better able to:

1. List the current expectations for survival from common congenital heart lesions.
2. Discuss the prevalence of and anesthetic considerations for children with prior congenital cardiac surgery presenting as adults for additional cardiac surgery.
3. Examine the prevalence of and anesthetic considerations for adults with congenital heart surgery presenting for non-cardiac surgery.
4. Discuss the prevalence of and anesthetic considerations for the peri-partum management of ACHD patients.

3:30-5:00 pm Controversies in Thoracic Anesthesiology

Moderator: *E. Andrew Ochroch, MD MSCE*

Fluid Management - How Much is Too Much? – *Jens Lohser, MD MSc FRCPC*

Epidural vs. Paravertebral vs. Wound Infusion – *Jay S. Grider, DO PhD*

The Perioperative Thoracic Surgical Home – *J. Mauricio Del Rio, MD*

2014 AATS Guidelines for the Prevention and Management of Perioperative Atrial Fibrillation and Flutter for Thoracic Surgical Procedures—*David Amar, MD*

At the conclusion of this session, participants will be better able to:

1. State the risks of under- and over-resuscitation during thoracic surgery.
2. Implement a state of the art analgesic plan for patients undergoing thoracic surgery.
3. Plan out a smooth perioperative course for the patient undergoing thoracic surgery and see how a dedicated patient management stream can optimize outcomes.
4. Employ state-of-the-art perioperative management of pulmonary hypertension.
5. Define and summarize the utility of extracorporeal membrane oxygenation (ECMO) in the context of right heart failure.

5:00-6:00 pm Echo Jeopardy!

Moderators: *Feroze Mahmood, MD; Andrew D. Maslow, MD; Peter J. Panzica, MD*

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PRELIMINARY PROGRAM AT A GLANCE

Wednesday, April 6

6:45-8:00 am Problem-Based Learning Discussions

PBLD 22	The Patient with Pulmonary Hypertension for Non-Cardiac Surgery	Mary Beth Brady, MD FASE; Jochen Steppan, MD
PBLD 23	Secondary Tricuspid Regurgitation: Fix it or Leave it Alone?	Ravi Vivekanand Joshi, MD; Kent H. Rehfeldt, MD FASE
PBLD 24	The Patient with LVAD for Non-Cardiac Surgery	Sheela Pai Cole, MD; Lindsay Raleigh
PBLD 25	Fast Track and Enhanced Recovery in Cardiac Surgery	Joerg Ender, MD; Kathirvel Subramaniam, MD MPH
PBLD 26	Managing the Patient Taking the New Oral Anticoagulants	Elliott Bennett-Guerrero, MD; Ravi S. Gill, MD

8:00-11:00 am 8:00-11:00 am Workshop 7: Cardiopulmonary Bypass

Moderators: *Eugene A. Hessel, II, MD; Gregory M. Janelle, MD FASE; Kenneth Shann, CCP*

Hands-on Stations

Ron Angona, CCP MS; Kim DeLaCruz, CCP FPP; Julio Ovando, CCP; Kenneth Shann, CCP

At the conclusion of this session, participants will be better able to:

1. Describe the basic components of the cardiopulmonary bypass circuit, including components, reservoir types, mini-circuits, oxygenators, etc.
2. State evidence-based perfusion goals, including but not limited to parameters such as optimal pressure, flow, temperature, etc.
3. Describe the roles of the cardiac perfusionist, anesthesiologist, and surgeon during cardiopulmonary bypass emergencies.
4. Practice simulation-based scenarios commonly encountered during cardiac surgery (e.g. weaning from bypass).
5. Practice simulation-based cardiopulmonary bypass catastrophes.

8:00-11:00 am Workshop 8: 3D TEE

Moderator: *Sasha Shillcutt, MD FASE*

Introduction to 3D imaging modalities and live 3D acquisition – *Nicholas W. Markin, MD*

Gated 3D imaging: 3D full volume and color flow imaging – *Candice R. Montzingo, MD FASE*

Common Applications and 3D work flow in the OR – *Jacques (Prince) Neelankavil, MD FASE*

Hands-on Stations

Station 1: GE System (Basic) – *Megan Chacon, MD*

Station 2: GE System (Basic) – *Peter Neuburger, MD*

Station 3: GE System (Intermediate) – *Jacques (Prince) Neelankavil, MD FASE*

Station 4: Siemens System (Basic) – *J. Mauricio Del Rio, MD*

Station 5: Philips System (Basic) – *Logan Kosarek, MD*

Station 6: Philips System (Basic) – *Erik Anderson, MD; Candice R. Montzingo, MD FASE*

Station 7: Philips System (Intermediate) – *Ricardo Cardenas, MD*

Station 8: Philips System (Intermediate) – *Walker R. Thomas, BS RDCS FASE*

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Station 9: Philips System (Intermediate) – *Nicholas w. Markin, MD*

Station 10: Q Lab (off cart laptop, Advanced) – *Georges Desjardins, MD FRCPC FASE*

At the conclusion of this session, participants will be better able to: TBD.

8:00-11:00 am Workshop 9: Fellow Transesophageal Echocardiography Review Session

Moderators: *William (Skip) C. Culp, Jr., MD FASE; Roman Sniecinski, MD FASE*

8:00-8:30 am Artifacts and Pitfalls - *Nikolaos J. Skubas, MD DSc FASE*

At the conclusion of this session, participants will be better able to:

1. Identify common echocardiographic artifacts and pitfalls.
2. Identify the assumptions of the ultrasound system and how violations of these assumptions result in artifact formation.

8:30-9:00 am Ultrasound Physics – *Kent H. Rehfeldt, MD FASE*

At the conclusion of this session, participants will be better able to:

1. Recognize the principles and physical properties of ultrasound.
2. Understand the different ultrasound modalities, their strengths, and their limitations.
3. Utilize physics principles to optimize images while minimizing artifacts.

9:00-9:30 am Hemodynamic Calculations - *Mary Beth Brady, MD FASE*

At the conclusion of this session, participants will be better able to:

1. Apply the modified, simplified Bernoulli equation to calculate gradients and valve area.
2. Compute stroke volume and cardiac output utilizing 2D and Doppler technology.
3. Calculate intracardiac pressures.
4. List benefits and limitations of these techniques.

9:30-9:45 am Break

9:45-10:15 am Congenital Heart Defects - *Kathryn Rouine-Rapp, MD*

At the conclusion of this session, participants will be better able to:

1. Describe and identify VSD, ASD, and other common congenital heart lesions.
2. Describe the intraoperative TEE exam necessary to evaluate congenital heart lesions.
3. Describe the pathophysiology of common congenital heart lesions.

10:15-10:45 am Diastology - *Wanda M. Popescu, MD*

At the conclusion of this session, participants will be better able to

1. Use transmitral Doppler to assess diastolic function.
2. Use tissue Doppler to assess diastolic function.
3. Differentiate grades of diastolic dysfunction.

10:45-11:00 am Closing Remarks, Panelist Q&A

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PRELIMINARY PROGRAM AT A GLANCE

Problem-Based Learning Discussions

PBLD Coordinator: *Michael P. Eaton, MD*

SUNDAY, APRIL 3, 2016 • 6:45 AM - 8:00 AM		
PBLD 1	Showing Value to Your Hospital as a Cardiovascular Anesthesiologist	Steven N. Konstadt, MD; Joseph N. Szokol, MD
PBLD 2	Pitfalls and Solutions in Invasive Arterial Pressure Measurement	Hamdy M. ElSayed Awad, MD; Jacek Wojtczak, MD
PBLD 3	Blood Management and Transfusion Avoidance	Lori B. Heller, MD Keyvan Karkouti, MD FRCPC MSc;
PBLD 4	Lung Transplantation	Daisuke Nonaka, MD; Mark Stafford-Smith, MD FRCPC FASE CM
PBLD 5	Prevention and Management of Atrial Fibrillation after CT Surgery	Noel Boyle, MD PhD; Aman Mahajan, MD PhD
PBLD 6	Hypertrophic Obstructive Cardiomyopathy	Jiapeng Huang, MD PhD; Thomas Maher, MD
PBLD 7	Perioperative Coagulopathy and Transfusion	Prakash A. Patel, MD; Ian Welsby, MD MBBS BSc FRCA
MONDAY, APRIL 4, 2016 • 6:45 AM - 8:00 AM		
PBLD 8	Every Pressor I Can Think of and Still No BP! Managing Vasoplegia	Adam Evans MD MBA; Matthew Levin, MD
PBLD 9	Avoiding Problems with Pacemakers and ICDs	Jonathan Ho, MD; Jacques (Prince) Neelankavil, MD
PBLD 10	One-Lung Ventilation in a Patient with Fontan Circulation and Undergoing Thoracoscopic Procedure	Draginja R. Cvetkovic, MD; Galina Leyvi, MD
PBLD 11	Preventing and Managing Perioperative Delirium	Hilary R. Grocott, MD FRCPC FASE; Srdjan Jelacic, MD
PBLD 12	Can you be Too Cold? Temperature Management for DHCA	Harendra Arora, MD; Albert T. Cheung, MD
PBLD 13	ECMO: When to Start, When to Stop	Jacob Gutsche, MD; Yasdet Maldonado, MD
PBLD 14	The Adult Patient with Congenital Heart Disease	Tara R. Brakke, MD FASE; Katie Goergen, MD

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TUESDAY, APRIL 5, 2016 • 6:45 AM - 8:00 AM		
PBLD 15	Trials and Tribulations of Initiating CPB	Eugene A. Hessel, II MD; Oksana Klimkina, MD
PBLD 16	Descending Thoracic Aortic Repair: Aortic Transection	Johannes Dorfling, MD; J. Thomas Murphy, MD
PBLD 17	Mitral Repairs Minimally Invasive – Maximum Headache?	Ellen M. Dailor, MD; Ludmil (Lou) Mitrev, MD
PBLD 18	LVAD Looks Great. Right Heart - Not so Much	Theresa A. Gelzinis, MD; Erin A. Sullivan, MD
PBLD 19	Pre-Op Clinic for SDA Cardiac Surgery: First Step Toward the Perioperative Surgical Home	Andrew Goldberg, MD; George Silvay, MD PhD
PBLD 20	High Risk Lead Extractions: Who, Where and How?	Michael Barron, MD; Lilibeth Fermin, MD
PBLD 21	Negotiating Payments for Anesthesia Services with Bundling and Capitation.	Solomon Aronson, MD MBA FACC FAHA FASE; Nelson Thaemert, MD
WEDNESDAY, APRIL 6, 2016 • 6:45 AM - 8:00 AM		
PBLD 22	The Patient with Pulmonary Hypertension for Non-Cardiac Surgery	Mary Beth Brady, MD FASE; Jochen Steppan, MD
PBLD 23	Secondary Tricuspid Regurgitation: Fix it or Leave it Alone?	Ravi Vivekanand Joshi, MD; Kent H. Rehfeldt, MD FASE
PBLD 24	The Patient with LVAD for Non-Cardiac Surgery	Sheela Pai Cole, MD; Lindsay Raleigh
PBLD 25	Fast Track and Enhanced Recovery in Cardiac Surgery	Joerg Ender, MD; Kathirvel Subramaniam, MD MPH
PBLD 26	Managing the Patient Taking the New Oral Anticoagulants	Elliott Bennett-Guerrero, MD; Ravi S. Gill, MD

Problem-Based Learning Discussions Learning Objectives:

PBLD 1: Showing Value to Your Hospital as a Cardiovascular Anesthesiologist
Steven N. Konstadt, MD; Joseph N. Szokol, MD

At the conclusion of this session, participants will be better able to: TBD.

PBLD 2: Pitfalls and Solutions in Invasive Arterial Pressure Measurement
Hamdy M. ElSayed Awad, MD; Jacek Wojtczak, MD

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At the conclusion of this session, participants will be better able to: TBD.

PBLD 3: Blood Management and Transfusion Avoidance
Lori B. Heller, MD; Keyvan Karkouti, MD MSc FRCPC

At the conclusion of this session, participants will be better able to: TBD.

PBLD 4: Lung Transplantation
Daisuke Nonaka, MD; Mark Stafford-Smith, MD FRCPC FASE CM

At the conclusion of this session, participants will be better able to: TBD.

PBLD 5: Prevention and Management of Atrial Fibrillation after CT Surgery
Noel G. Boyle, MD PhD; Aman Mahajan, MD PhD

At the conclusion of this session, participants will be better able to: TBD.

PBLD 6: Hypertrophic Obstructive Cardiomyopathy
Jiapeng Huang, MD, PhD; Thomas Maher, MD

At the conclusion of this session, participants will be better able to: TBD.

PBLD 7: Perioperative Coagulopathy and Transfusion
Ian Welsby, MD MBBS BSc FRCA; Prakash A. Patel, MD

At the conclusion of this session, participants will be better able to: TBD.

PBLD 8: Every Pressor I Can Think of and Still No BP! Managing Vasoplegia
Adam Evans, MD MBA; Matthew Levin, MD

At the conclusion of this session, participants will be better able to: TBD.

PBLD 9: Avoiding Problems with Pacemakers and ICDs
Jonathan Ho, MD; Jacques (Prince) Neelankavil, MD

At the conclusion of this session, participants will be better able to: TBD.

PBLD 10: One-Lung Ventilation in a Patient with Fontan Circulation Undergoing Thoracoscopic Procedure
Draginja R. Cvetkovic, MD; Galina Leyvi, MD

At the conclusion of this session, participants will be better able to: TBD.

PBLD 11: Preventing and Managing Perioperative Delirium
Hilary P. Grocott, MD FRCPC FASE; Srdjan Jelacic, MD

At the conclusion of this session, participants will be better able to: TBD.

PBLD 12: Can you be Too Cold? Temperature Management for DHCA
Harendra Arora, MD; Albert T. Cheung, MD

At the conclusion of this session, participants will be better able to: TBD.

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- PBLD 13:** **ECMO: When to Start, When to Stop**
Jacob Gutsche, MD; Yasdet Maldonado, MD
- At the conclusion of this session, participants will be better able to: TBD.
- PBLD 14:** **The Adult Patient with Congenital Heart Disease**
Tara R. Brakke, MD FASE; Katie Goergen, MD
- At the conclusion of this session, participants will be better able to: TBD.
- PBLD 15:** **Trials and Tribulations of Initiating CPB**
Eugene A. Hessel, II, MD; Oksana Klimkina, MD
- At the conclusion of this session, participants will be better able to: TBD.
- PBLD 16:** **Descending Thoracic Aortic Repair: Aortic Transection**
Johannes Dorfling, MD; Thomas Murphy, MD
- At the conclusion of this session, participants will be better able to: TBD.
- PBLD 17:** **Mitral Repairs Minimally Invasive – Maximum Headache?**
Ellen M. Dailor, MD; Ludmil (Lou) Mitrev, MD
- At the conclusion of this session, participants will be better able to: TBD.
- PBLD 18:** **LVAD Looks Great. Right Heart – Not so Much**
Theresa A. Gelzinis, MD; Erin A. Sullivan, MD
- At the conclusion of this session, participants will be better able to: TBD.
- PBLD 19:** **Pre-Op Clinic for SDA Cardiac Surgery: First Step Toward the Perioperative Surgical Home**
Andrew Goldberg, MD; George Silvay, MD PhD
- At the conclusion of this session, participants will be better able to: TBD.
- PBLD 20:** **High Risk Lead Extractions: Who, Where and How?**
Michael Barron, MD; Lilibeth Fermin, MD
- At the conclusion of this session, participants will be better able to: TBD.
- PBLD 21:** **Negotiating Payments for Anesthesia Services with Bundling and Capitation**
Solomon Aronson, MD MBA FACC FAHA FASE; Nelson Thaemert, MD
- At the conclusion of this session, participants will be better able to: TBD.
- PBLD 22:** **The Patient with Pulmonary Hypertension for Non-Cardiac Surgery**
Mary Beth Brady, MD FASE; Jochen Steppan, MD
- At the conclusion of this session, participants will be better able to: TBD.
- PBLD 23:** **Secondary Tricuspid Regurgitation: Fix it or Leave it Alone?**
Ravi Vivekanand Joshi, MD; Kent H. Rehfeldt, MD FASE

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At the conclusion of this session, participants will be better able to: TBD.

PBLD 24: The Patient with LVAD for Non-Cardiac Surgery

Sheela Pai Cole, MD; Lindsay Raleigh

At the conclusion of this session, participants will be better able to: TBD.

PBLD 25: Fast Track and Enhanced Recovery in Cardiac Surgery

Joerg Ender, MD; Kathirvel Subramaniam, MD MPH

At the conclusion of this session, participants will be better able to: TBD.

PBLD 26: Managing the Patient Taking the New Oral Anticoagulants

Elliott Bennett-Guerrero, MD; Ravi S. Gill, MD

At the conclusion of this session, participants will be better able to: TBD.

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PRELIMINARY PROGRAM AT A GLANCE

Workshops

Workshop Coordinator: Michael P. Eaton, MD

Saturday, April 2

8:00-11:00 am Workshop 1: Advanced Transesophageal Echocardiography (TEE)

Moderators: Jonathan Ho, MD; Stanton K. Shernan, MD FAHA FASE

Right Ventricle – Feroze Mahmood, MD

Mitral Valve – Nikolaos J. Skubas, MD DSc FACC FASE

Cardiac Deformation – Jacques (Prince) Neelankavil, MD

Hands-on Stations

Right Ventricle – Feroze Mahmood, MD; Gabriela Roca, MD

Mitral Valve – Nikolaos J. Skubas, MD DSc FACC FASE

Cardiac Deformation – Nelson Burbano, MD; George Gellert, MD

Left Ventricle – Kimberly Howard-Quijano, MD MS

At the conclusion of this session, participants will be better able to: TBD.

8:00-11:00 am Workshop 2: Coagulation & Transfusion

Moderators: Gregory A. Nuttall, MD; Mark A. Taylor, MD FASE

Point of Care Testing and Transfusion Algorithms in Cardiac Surgery – Keyvan Karkouti, MD MSc FRCPC

Massive Transfusion Protocols: Advantages/Complications – Michael A. Mazzeffi, MD

Blood Conservation in Cardiac Surgery-the When and How – Aryeh Shander, MD

Hands-on Stations

Point of Care Testing: Qualitative vs. Quantitative Platelet Analysis – Jason D. Kennedy, MD; Yasdet Maldonado, MD; Linda Shore-Lesserson, MD FAHA FASE

Point of Care Testing: Anticoagulation - Aryeh Shander, MD; Kamrouz Ghadimi, MD

Point of Care Testing: Thromboelastography – Michael A. Mazzeffi, MD

Rapid Infusion – Ellen M. Dailor, MD; Daisuke Nonaka, MD

Cell Salvage – Harendra Arora, MD; C. David Mazer, MD

At the conclusion of this session, participants will be better able to: TBD.

1:00-4:00 pm Workshop 3: Non-Cardiac U/S: Lungs, Vascular Access, FAST and more

Moderators: Achikam Oren-Grinberg, MD; Andrew S. Weisinger, MD FASE

The FAST Exam – Eric Ursprung, MD

Lung U/S – Jacek Wojtczak, MD

U/S for vascular access – TBD

Hands-on Stations

FAST – Robina Matyal, MD; Mario Montealegre, MD; Eric Ursprung, MD

Lung U/S – Amit Bardia, MBBS; Massimiliano Meineri, MD; Jacek Wojtczak, MD

Vascular Access – Karsten Bartels, MD; Ellen M. Dailor, MD

At the conclusion of this session, participants will be better able to: TBD.

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PRELIMINARY PROGRAM AT A GLANCE

1:00-4:00 pm **Workshop 4: Case-based TEE**
Moderators: *Yasdet Maldonado, MD; Alina Nicoara, MD FASE*

Hands-on Stations

Echo in the ICU: Role in the Patient with Hemodynamic Instability – *J. Mauricio Del Rio, MD*
High Gradient Prosthetic Valves: When to Return to CPB – *Georges Desjardins, MD FRCPC FASE*
Ischemic Mitral Regurgitation: When to Fix – *Gary A. Moneiro, MD*
Paravalvular Leaks: When to Return to CPB – *Charles B. Nyman, MBBCh*
Mitral Regurgitation in HOCM: When to Address the Mitral Valve – *Kent H. Rehfeldt, MD FASE*
Imaging in Devices (ECMO, VADS): What is Real vs. Artifact? – *Mark A. Taylor, MD FASE*

At the conclusion of this session, participants will be better able to:

6. Discern whether paravalvular leaks require return to CPB.
7. Make appropriate recommendations about when to fix the mitral valve in ischemic MR.
8. Correctly interpret the clinical impact of high gradients in prosthetic valves.
9. Understand when to address MR in the patient with HOCM.
10. Identify common echo artifacts in VAD/ECMO patients.

Sunday, April 3

9:00 am-12:00 pm **Workshop 5: Transthoracic Echocardiography**
Moderator: *Tara R. Brakke, MD FASE*

The Basic TTE Exam and Anatomy – *Jonathan Ho, MD*
How TTE Has Impacted My Management – *Sasha Shillcutt, MD FASE*
TEE to TTE Comparison Anatomy – *Candice R. Montzingo, MD*

Hands-on Stations

Live model – *Jonathan Ho, MD; Sasha Shillcutt, MD FASE*
Simulator – *Julian S. Bick, MD; Ravi Vivekanand Joshi, MD; Candice R. Montzingo, MD; Walker R. Thomas, BS RDCS FASE*

At the conclusion of this session, participants will be better able to: TBD.

1:30-4:30 pm **Workshop 6: Percutaneous Valve**
Moderators: *Tjorvi Perry, MD; Nelson Thaemert, MD*

Complex Case Discussion: TAVR – *Tjorvi Perry, MD*
Complex Case Discussion: MitraClip – *G. Burkhard Mackensen, MD PhD FASE*

Hands-on Stations

Product Discussion: Technology Overview: What's New? – *Joseph Devin Roberts, MD*
Problem-Based Learning Discussion: TAVR Planning: Sedation vs. GA – *John (Yianni) G.T. Augoustides, MD FAHA FASE; Mary Beth Brady, MD FASE, Charles B. Nyman, MBBCh*
Hands-on Imaging Session: Manipulating Data Sets for Decision-Making – *Megan Chacon, MD; Brian J. Gelfand, MD*

At the conclusion of this session, participants will be better able to: TBD.

Wednesday, April 6

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8:00-11:00 am **Workshop 7: Cardiopulmonary Bypass**

Moderators: *Eugene A. Hessel, II, MD; Gregory M. Janelle, MD FASE; Kenneth Shann, CCP*

Hands-on Stations

Ron Angona, CCP MS; Kim DeLaCruz, CCP FPP; Julio Ovando, CCP; Kenneth Shann, CCP

At the conclusion of this session, participants will be better able to:

6. Describe the basic components of the cardiopulmonary bypass circuit, including components, reservoir types, mini-circuits, oxygenators, etc.
7. State evidence-based perfusion goals, including but not limited to parameters such as optimal pressure, flow, temperature, etc.
8. Describe the roles of the cardiac perfusionist, anesthesiologist, and surgeon during cardiopulmonary bypass emergencies.
9. Practice simulation-based scenarios commonly encountered during cardiac surgery (e.g. weaning from bypass).
10. Practice simulation-based cardiopulmonary bypass catastrophes.

8:00-11:00 am **Workshop 8: 3D TEE**

Moderator: *Sasha Shillcutt, MD FASE*

Introduction to 3D imaging modalities and live 3D acquisition – *Nicholas W. Markin, MD*

Gated 3D imaging: 3D full volume and color flow imaging – *Candice R. Montzingo, MD FASE*

Common Applications and 3D work flow in the OR – *Jacques (Prince) Neelankavil, MD FASE*

Hands-on Stations

Station 1: GE System (Basic) – *Megan Chacon, MD*

Station 2: GE System (Basic) – *Peter Neuburger, MD*

Station 3: GE System (Intermediate) – *Jacques (Prince) Neelankavil, MD FASE*

Station 4: Siemens System (Basic) – *J. Mauricio Del Rio, MD*

Station 5: Philips System (Basic) – *Logan Kosarek, MD*

Station 6: Philips System (Basic) – *Erik Anderson, MD; Candice R. Montzingo, MD FASE*

Station 7: Philips System (Intermediate) – *Ricardo Cardenas, MD*

Station 8: Philips System (Intermediate) – *Walker R. Thomas, BS RDCS FASE*

Station 9: Philips System (Intermediate) – *Nicholas w. Markin, MD*

Station 10: Q Lab (off cart laptop, Advanced) – *Georges Desjardins, MD FRCPC FASE*

At the conclusion of this session, participants will be better able to: TBD.

8:00-11:00 am **Workshop 9: Fellow Transesophageal Echocardiography Review Session**

Moderators: *William (Skip) C. Culp, Jr., MD FASE; Roman Sniecinski, MD FASE*

8:00-8:30 am **Artifacts and Pitfalls - Nikolaos J. Skubas, MD DSc FASE**

At the conclusion of this session, participants will be better able to:

3. Identify common echocardiographic artifacts and pitfalls.
4. Identify the assumptions of the ultrasound system and how violations of these assumptions result in artifact formation.

8:30-9:00 am **Ultrasound Physics – Kent H. Rehfeldt, MD FASE**

At the conclusion of this session, participants will be better able to:

4. Recognize the principles and physical properties of ultrasound.
5. Understand the different ultrasound modalities, their strengths, and their limitations.

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6. Utilize physics principles to optimize images while minimizing artifacts.

9:00-9:30 am Hemodynamic Calculations - *Mary Beth Brady, MD FASE*

At the conclusion of this session, participants will be better able to:

5. Apply the modified, simplified Bernoulli equation to calculate gradients and valve area.
6. Compute stroke volume and cardiac output utilizing 2D and Doppler technology.
7. Calculate intracardiac pressures.
8. List benefits and limitations of these techniques.

9:30-9:45 am Break

9:45-10:15 am Congenital Heart Defects - *Kathryn Rouine-Rapp, MD*

At the conclusion of this session, participants will be better able to:

4. Describe and identify VSD, ASD, and other common congenital heart lesions.
5. Describe the intraoperative TEE exam necessary to evaluate congenital heart lesions.
6. Describe the pathophysiology of common congenital heart lesions.

10:15-10:45 am Diastology - *Wanda M. Popescu, MD*

At the conclusion of this session, participants will be better able to

4. Use transmitral Doppler to assess diastolic function.
5. Use tissue Doppler to assess diastolic function.
6. Differentiate grades of diastolic dysfunction.

10:45-11:00 am Closing Remarks, Panelist Q&A

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Fellow/Junior Faculty Program

Saturday, April 2

11:00 am-12:00 pm **Complex Case Presentations Session #1**

1:15-2:15 pm **Complex Case Discussion with Expert Panel**

Moderators: *William (Skip) C. Culp, Jr., MD FASE; Roman Sniecinski, MD FASE*

In this session, the best fellow complex case presentation submissions will be presented orally and discussed by an expert faculty panel.

Panelists: *John A. Fox, MD; Aman Mahajan, MD PhD; Scott T. Reeves, MD MBA FACC FASE*

After attending this session, the participant will be better able to:

4. Identify unique features of complex cases and discuss systems, processes, and options for management.
5. Describe how to manage complex case presentations in cardiac surgery.
6. Manage complex cases by appreciating pathophysiology and supporting decisions based on current medical literature.

2:15-3:30 pm **Problem-Based Learning Discussion: Lung Transplantation**

Facilitators: *Ioanna Apostolidou, MD; Dalia A. Banks, MD FASE; Tara R. Brakke, MD FASE; Megan Chacon, MD; Albert T. Cheung, MD; Michelle Downing, MD; Susan Eagle, MD; John A. Fox, MD; Brian J. Gelfand, MD; Jonathan Ho, MD; Jacques (Prince) Neelankavil, MD; Mark T. Nelson, MD MEd; Jennie Yee Ngai, MD; Prakash A. Patel, MD; Yong G. Peng, MD PhD FASE; Jack S. Shanewise, MD FASE; Sasha Shillcutt, MD FASE; Sudhakar Subramani, MD, MMED; Michele Sumler, MD; Nelson Thaemert, MD; Kevin C. Thornton, MD; J. Clint Tippet, MD; Daniel Tolpin, MD; Matthew Townsley, MD; Justin Wilson, MD*

After attending this session, the participant will be better able to:

4. Outline the anesthetic management of the patient undergoing orthotopic lung transplantation.
5. Recognize various intraoperative circulatory and ventilatory management strategies for optimization of the transplanted lung or lungs.
6. Explain postoperative decision-making and management of these patients in the CTICU.

4:00-5:00 pm **A Career in CT Anesthesiology: Mission Possible**

Moderators: *William (Skip) C. Culp, Jr., MD FASE; Roman Sniecinski, MD FASE*

Panelists: *Kathryn E. Glas, MD MBA FASE; Lori B. Heller, MD; Madhav Swaminathan, MD FASE*

After attending this session, the participant will be better able to:

5. Identify various paths of a successful career in cardiothoracic anesthesiology.
6. Understand the process of transitioning from a fellow to a career in private practice.
7. Describe ways to balance demands of life and work as an anesthesiologist.
8. Appreciate the role of mentorship in career development.

5:00-6:00 pm **Complex Case Poster Presentations Session #2**

6:00-7:00 pm **Optional Mentor Program**

(For invited Mentors & Mentees only)

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Wednesday, April 6

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