Saturday, April 18

6:45 am – 7:55 am  Structured Networking Circles

7:00 am – 8:00 am  Problem Based Learning Discussions (1-6)

1. Lung Transplantation Management – Strategies, Tips and Tricks
   Peter Slinger and Kenichi Ueda

2. ECMO in Thoracic Surgery
   Rebecca Klinger and Eleanor Vega

3. How to Design and Implement a Thoracic ERAS Program at Your Hospital
   Alessia Pedoto and Amanda Kleiman

4. Patient on LVAD for Thoracic Surgery
   Wanda Popescu and Diana Anca

5. Esophagectomy
   Jagtar Singh and Ju Mei Ng

6. Airway Crisis in the Thoracic Surgical Patient
   Phil Hartigan and Stephen Collins

8:00 am – 10:00 am  Refresher Course Lectures

Moderator: Michael Eaton

Preserved EF Heart Failure
Jenny Kwak

What Do We Really Know about Preventing AKI?
Frederic T. Billings

Maximizing Neurologic Function – CPI
G. Burkhard Mackensen

Racial and Socioeconomic Disparities in Cardiovascular Care:
Past, Present and Future
Laurent Glance

Panel Discussion with Audience Participation

9:00 am – 12:00 pm  Workshop 1: Mechanical Circulatory Systems
Moderators: Kamrouz Ghadimi and Jenny Kwak

Mechanical Circulatory Support and Echocardiography

*Michael Manning*

Troubleshooting ECMO Disasters: Tips and Tricks

*Michael Mazzeffi*

New and Emerging Technologies

*James Anton*

**Station Faculty:**

LVAD (HVAD, HM3)
- James Anton
- Joseph Meltzer

ECMO
- Michael Mazzeffi
- David Chabot

CPBypass
- Michael Manning
- Karen Jones-Smith

Percutaneous MCS (TandemHeart, Impella, IABP)
- Vidya Rao
- Jacob Gutsche

9:00 am – 12:00 pm **Workshop 2: Professional Development**

Moderators: Emily Methangkool and Candice Montzingo

Where Will You Be in 5 years? Setting the Goals

*Daryl Oakes*

The Art of Saying No - Essential Time Management Skills

*Lavinia Kolarczyk*

How to Deliver a Mind-Blowing Presentation

*Mary Beth Brady*

Tips on Negotiating for What You Need and Want

*Jacques Neelankavil*

**Station Faculty:**

Networking 101 – How to Perfect Your “Elevator Pitch”

*Lavinia Kolarczyk*
- Jonathan Leff

Mentorship and Sponsorship – How to Be a Good Mentor/Sponsor and Mentee/Sponsee

*Natalia Ivascu*
Jessica Spellman

Negotiation Practicum
Andrew Shaw
Christopher Troianos
Michael Eaton
Mark Taylor
Gordon Morewood
Peter Panzica
Kathy Glas
Davy Cheng
Colleen Koch

How to Build Your Resume for Future Leadership
Daryl Oakes
Teresa Mulaikal

10:00 am – 10:30 am  Coffee Break

10:30 am – 12:00 pm  SCA/STS: My Patient is a Cyborg - Part Human, Part Machine
Moderator: Charles Nyman

The Right Device for the Right Surgeon - Surgeon-Device Compatibility: Why This Impacts Outcomes
Steve Singh

Controversies/Complications in ECMO
Annemarie Thompson

Echo Guidance to Optimize Mechanical Circulatory Support
M. Megan Chacon

Case Discussion - My MCS Patient is Failing, Now What?
Panel

10:30 am – 12:00 pm  Opioid and Benzodiazepine Free Cardiac Surgery: Where Are We?
Moderator: Mary Beth Brady

Methadone for Cardiac Surgery: Short and Long-Term Pain Management
Glenn Murphy

Regional Anesthesia
Stephanie Ibekwe

Benzodiazepines in Cardiac Surgery
Jessica Spence

Opioid-Free Cardiac Anesthesia: Is it for Everyone?
Michael Grant

Panel Discussion with Audience Participation
11:00 am – 12:00 pm  Complex Case Poster Presentations: Session 1

12:00 pm – 1:00 pm  Lunch Break

1:00 pm – 2:30 pm  **Bleeding the System Dry? Recombinant Coagulation Factors in Cardiac Surgery Patients**  
*Moderators: Candice Montzingo*

The ACT is Still 300! Managing Heparin Resistance  
*Alycia Wanat-Hawthorne*

The Patient is Still Bleeding! Diagnosing Coagulopathy in the Cardiac O.R.  
*Brittney Williams*

Factor Concentrates are Better than Blood Products for Bleeding in Cardiac Surgery  
*Neil Blumberg*

Blood Products are Better than Factor Concentrates for Bleeding in Cardiac Surgery  
*Nicole Acquisto*

Panel Discussion with Audience Participation

1:00 pm – 2:30 pm  **Promoting Leadership in Cardiac Anesthesia**  
*Moderators: Heather Lander and Sasha Shillcutt*

The Emotionally Intelligent Leader  
*Sasha Shillcutt*

How to Send the Elevator Down – QA on Mentorship and Sponsorship  
*Colleen Koch*

Lessons from the Top – Panel Discussion with Society Leaders  
*Michael Eaton, Kathryn Glas, Andrew Shaw, Christopher Troianos*

Panel Discussion with Audience Participation

1:00 pm – 3:30 pm  **Fellow & Resident Program**

A Career in Cardiothoracic Anesthesiology: Mission Possible  
*Heather Lander, William Culp, Reed Harvey, Rebecca Aron, Bruce Bollen, John Fox*

2:00 pm – 3:30 pm  **Fellow & Resident PBLD: Left heart catheterization with ECMO support**

2:30 pm – 3:30 pm  **Social Media for the Cardiac Anesthesiologist**  
*Moderator: Emily Methangkool*

Getting Started in Social Media - Dos and Don'ts  
*Emily Methangkool*
Creating and Maintaining a Digital Presence
*Sheela Pai Cole*

Spreading Your Research - Opportunities for Networking and Education
*Jiapeng Huang*

Panel Discussion with Audience Participation

**2:30 pm – 3:30 pm**

**Cardiac Surgery in 2030 - Looking Back to Predict the Future**
*Moderator: Charles Nyman*

- Looking Back to Look Forward: A Surgeon’s Prediction for 2030
  *R. Morton Bolman*

- An Anesthesiologist’s Prediction for 2030
  *Davy Cheng*

**2:30 pm – 5:30 pm**

**Workshop 3: Perioperative Ultrasound: POCUS - It Seems to be EVERYWHERE! Here’s How to Use It**
*Moderators: Bradley Coker and Shahzad Shaefi*

- How POCUS and TTE Have Expanded My Practice
  *Megan Kostibas*

- POCUS: The Present, the Future, and SCA Perioperative Ultrasound Program
  *M. Megan Chacon*

**Station Faculty:**
- **FAST Examination**
  *Laeben Lester*
  *Ravi Joshi*

- **FOCUS Cardiac Examination**
  *Georges Desjardins*
  *Megan Kostibas*

- **CPR and TEE**
  *Walker Thomas*
  *Massimiliano Meineri*

- **Vascular Access**
  *Stephanie Ibekwe*
  *Jochen Steppan*

- **The Basic TTE Exam and Comparison TEE Views**
  *M. Megan Chacon*
  *Sajid Shahul*

- **Lung-Hypoxia/Dyspnea**
  *Nicholas Markin*
  *Vidya Rao*
2:30 pm – 5:30 pm  Workshop 4: ERACS: Design the System, Tailor the Anesthesia, and Enhance Your Patient’s Recovery  
Moderators: Michael Grant and James Anton  

Introductions & Workshop Overview  
James Anton  

An Overview of ERP for Cardiac Surgery  
Michael Grant  

Station Faculty:  
Program Development & Implementation  
Daniel Engelman  
Alexander Gregory  

Opioid-Sparing, Multimodal Analgesia and Delirium Prevention  
Michael Grant  
Rafael Cabrales  

Prevention of Acute Kidney Injury – Goal-Directed Perfusion & Acute Kidney Injury Algorithm  
Viachaslau Barodka  
Michael Manning  

Regional Analgesia Workstation  
Jean Pierre Ouanes  
Jeff Gadsden  

3:30 pm – 4:00 pm  Coffee Break  

4:00 pm – 5:00 pm  Complex Case Discussion with Expert Panel  
Moderators: Tara Brakke and Jacques Neelankavil  
Panelists: Matthew Fischer, John Fox, Ratna Vadlamudi  

4:00 pm – 5:30 pm  Descending Thoracic Aorta Emergencies: Surgical and Anesthesia Care Best Practice  
Moderator: Raghavendra Govinda  

Treatment Options for the Descending Thoracic Aorta in Patients with Acute Type B Dissections  
Michael Singh  

Surgical Management of the Patient with Ruptured Descending Aortic Aneurysms: Endo VS Open  
Thomas Lindsay  

Optimizing Outcomes in Emergency Surgery on the Descending Aorta  
Adrienne Warrick  

Panel Discussion with Audience Participation
4:00 pm – 5:30 pm  Evaluation and Decision Making in Mitral Valve Repair

Moderator: Paul Lennon

Case Presentation
Paul Lennon

2D/3D Imaging of the Repaired Mitral Valve
Julie Wyrobek

A Less than Perfect Mitral Valve Repair: What’s Next?
Steven Bolling

Anesthetic Management When a Mitral Valve Repair is Not Perfect
Kimberly Howard-Quijano

5:00 pm – 6:00 pm  Complex Case Poster Presentations: Session 2

Sunday, April 19

7:00 am – 8:00 am  Problem Based Learning Discussions (7-12)

7. Perfusion Secrets - What You Should Know but Probably Don't
   Vidya Rao and David Chabot

8. Managing the Adult Congenital Patient for Elective Surgery: Including a Surgeon's Perspective
   Alexander Mittnacht and Luca Vricella

9. The Economics of Cardiac Anesthesia: From Bundled Payments to Pay-for-Performance and Everything In Between
   Amanda Rhee and Peter Panzica

10. Management of Challenging Arrhythmias - Unravelling This Puzzle
    Jacques Neelankavil and Candice Montzingo

11. Severe Pulmonary Hypertension and Noncardiac Surgery - No Need to Be Afraid
    Jochen Steppan and Joanthan Leff

    Yasdet Maldonado and Tjorvi Perry

8:00 am – 9:00 am  Earl Wynands Lecture

Moderator: Michael Eaton

Resuscitation Ethics: Why Do We Bother!?
Peter Brindley

9:00 am – 10:30 am  ERACS: From Ideas to Implementation

Moderator: Ratna Vadlamudi
ERACS Outside of the OR
Emily Teeter

ERACS: The Surgeon's Perspective
Daniel Engelman

ERACS: Cost in the Perioperative Period
Michael Grant

Team-Based Approaches to Enhanced Recovery
Patricia Keegan

9:00 am – 12:00 pm Workshop 5: Interventional Workshop — Hands-on Workshop with the Experts: Learn the Secrets, Play with the Toys
Moderators: Nadia Hensley and Nelson Thaemert
Station Faculty:
PBLD: Transcatheter Valves -- Where Can We Put Them?
James (Jake) Abernathy
Choy Lewis
LAA Occlusion Equipment and Imaging
Trevor Szymanski
Erik Anderson
TAVR Equipment
Nadia Hensley
Mitraclip PBLD
Carly Peterson
James Lee
Mitraclip Qlab Analysis
Michele Sumler
M. Megan Chacon
Mitraclip Equipment
Charles Nyman

10:30 am – 11:00 am Coffee Break with Exhibitors

11:00 am – 12:30 pm Approaching Adult Congenital Heart Disease – From Uncertain to Fearless!
Moderator: Mary Beth Brady, Jochen Steppan

The Surgical History of Congenital Heart Disease – Why These Numbers Continue to Increase
Luca Vricella
Perioperative Echocardiography Pearls for the Adult with Congenital Heart Disease
Wanda Miller-Hance

Management Strategies for the Anesthesiologist Taking Care of Adults with Congenital Heart Disease
Alexander Mittnacht

Postoperative Care of Patients with Adult Congenital Heart Disease – Management in the ICU and Long-Term Outcomes
Jill Cholette

11:00 am – 12:30 pm Super Echo Panel
Moderators: Kathryn Glas and Ratna Vadlamudi
Panelists: Donna Greenhalgh and Nicholas Markin

11:00 am – 12:30 pm RV Failure after LVAD - What Do We Do Now?
Moderator: Sreekanth Cheruku
Assessing RV Function after LVAD: TEE to the Rescue
Karsten Bartels
Medical Management of RV Failure after LVAD: Optimizing Preload, Afterload and Contractility
Daryl Oakes

PVADs and BiVADs: When Medical Management Fails
Ravi Joshi

12:30 pm – 1:30 pm Lunch Break with Exhibitors

12:30 pm – 1:30 pm Scientific Program Poster Presentations: Session 1

1:30 pm – 3:00 pm The Surgical Management of Atrial Fibrillation
Moderator: Jacques Neelankavil
Surgical Approaches for the Treatment of Atrial Fibrillation
Nick Markin
Left Atrial Appendage Closure: What are the Devices and What's the Evidence?
David Huang
Current Status of Transcatheter Ablation for Atrial Fibrillation: A Cardiologist’s Perspective
Eric Buch

1:30 pm – 3:00 pm Resilience: Building Skills to Endure Hardship
Moderators: Candice Montzingo and Sasha Shillcutt

Personal Stories
Jonathan Ho
Jonathan Mark
Panel Discussion

1:30 pm – 3:00 pm  Updates in Aortic Surgery: Root to Arch  
**Moderator: Raghavendra Govinda**

- NIRS, BIS, EEG-What Should We Be Using for Neuro Monitoring in Aortic Surgery?  
  **Choy Lewis**

- Risky Business? Risks and Outcomes in Aortic Root Surgery  
  **Prashanth Vallabhajosyula**

- Antegrade vs Retrograde Cerebral Perfusion-Do We Have a Consensus?  
  **Bradley Leshnower**

2:30 pm – 5:30 pm  Workshop 6: Advanced TEE – Quantification for the Qualified – Advanced Echo Modalities for Practical Use  
**Moderators: Jennifer Hargrave and Kimberly Howard-Quijano**

- Contrast Echocardiography  
  **Richard Sheu**

- Advanced TEE Case Discussions  
  **Alina Nicoara**

**Station Faculty:**

- Right Ventricle Quantification  
  **Alina Nicoara**  
  **Feroze Mahmood**

- Mitral Valve Measurements  
  **Douglas Shook**  
  **Stanton Sherman**

- Cardiac Deformation  
  **Kathirvel Subramanian**  
  **Andra Duncan**

- 3D Aortic Valve Assessment  
  **Nikolaos Skubas**  
  **Richard Sheu**

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

3:00 pm – 5:30 pm  Best of Meeting Oral Abstract & SCA Early Career Investigator Award Presentations  
**Moderator: Mihai Podgoreanu**

3:30 pm – 5:30 pm  ECMO A to Z
Moderator: Jenny Kwak

Balancing Act: The Art of Coagulation
Anahat Dhillon

Nuts and Bolts of ECMO
Karsten Bartels

ECMO Centers of Excellence: Do We Go There?
Vadim Gudzenko

A Deeper Dive into the Finances of ECMO
Gordon Morewood

3:30 pm – 5:30 pm Complications in Cardiac Anesthesia - Human Factors, Systems Engineering, Patient Factors
Moderator: Nadia Hensley

Introduction to Patient Safety and Just Culture
James Abernathy

Advantages/Disadvantages of Adverse Event Reporting Systems to Identify Signals
Amanda Rhee

How Do I Use Incident Analysis to Improve Safety?
Joyce Wahr

Best Practices in Morbidity and Mortality Conferences to Promote Safe Culture
Atilio Barbeito

5:30 pm – 6:30 pm Opening Reception

Monday, April 20

7:00 am – 8:00 am Problem Based Learning Discussions (PBLDs 13 – 18)

13. Nuts and Bolts of EP Ablations: Experts Share Their Secrets...and Their Fears
Diana Anca and Linda Shore-Lesserson

Megan Kostibas and Shahzad Shaefi

15. The Guidelines for Valvular Heart Disease - How to Make Sense of It All
Michele Sumler and Stanton Shernan

Prakash Patel and Kamrouz Ghadimi
17. Destination to Where: Ethical Dilemmas in Mechanical Circulatory Support
   *Elvera Baron and Michael O’Connor*

18. Perioperative Pain Management in Cardiothoracic Surgery in the Opioid Epidemic Era
   *Negmeldeen Mamoun and J. Mauricio Del Rio*

**8:00 am – 10:00 am Artificial Intelligence: The Dawn of a New Era in the Cardiac Operating Room**

*Moderator: Mihai Podgoreanu*

A Framework for Artificial Intelligence in the Perioperative Period
*Ira Hofer*

From Rich Digital Health Datasets to Actionable Intraoperative Knowledge – The Promise and Challenges of AI Arriving to an OR Near You
*Maxime Cannesson*

Building the ICU of the Future: Syndrome Surveillance and Clinical Decision Support in the Intensive Care Unit
*Tim Buchman*

Applied Deep Learning Algorithms in the Perioperative Period
*Vesela Kovacheva*

**10:00 am – 10:30 am Coffee Break with Exhibitors**

**10:30 am – 11:00 am ASA Update**

*Moderator: Stanton Sherman*

**11:00 am – 12:00 pm Keynote Lecture**

*Moderator: Stanton Sherman*

Using Data Science to Improve CV Surgical Outcomes
*Robert Califf*

**12:00 pm – 12:30 pm Business Meeting & Awards**

*Moderator: Stanton Sherman*

**12:30 pm – 1:30 pm Lunch with Exhibitors**

**12:30 pm – 1:30 pm Scientific Program Poster Presentations: Session 2**

**1:30 pm – 3:00 pm The Complex Bleeding Cardiac Patient**

*Moderators: Michael Eaton and Kamrouz Ghadimi*

Just Say No: The Bleeding Jehovah’s Witness Patient
*Alycia Wanat-Hawthorne*

Too Small to Fail: The Bleeding Complex Congenital Patient
*Jill Cholette*
Thin but Not Too Thin: Bleeding on ECMO  
*Jack Gutsche*

Thick but Not Thick Enough: The Hypercoagulable Patient at Risk for Bleeding  
*Mike Mazzeffi*

**1:30 pm – 3:00 pm Minimally Invasive - Maximally Difficult?**  
*Moderator: Heather Lander*

Minimally Invasive Surgical Approaches - Do They Make a Difference?  
*Nelson Thaemert*

Trendsetters: The Run-Down of Innovative, Minimally Invasive Surgical Techniques and New Technology  
*Igor Gosev*

Regional Anesthesia for Minimally Invasive Approaches  
*Megan Kostibas*

When "Mini" Becomes "Maxi": The Challenging Intraoperative Decision to Convert  
*Stephanie Jones*

**1:30 pm – 3:00 pm EACTA - How to Make a Difference**  
*Moderator: Donna Greenhalgh*

Update on Renal Protection Strategies in Cardiac Surgery  
*Marc Vives*

New Vasopressors - Out of the Blue?  
*Eric de Waal*

Increasing Contractility without Increasing Myocardial VO2: Feasible?  
*Fabio Guarracino*

Frailty in Cardiac Surgery: How to Assess It & Does It Matter?  
*Miguel Garcia*

**3:00 pm – 3:30 pm Coffee Break**

**3:30 pm – 5:00 pm Evolving Roles of Cardiac Surgery and Anesthesia in the Era of Transcatheter Interventions**  
*Moderator: Sreekanth Cheruku*

The Evolving Role of the Cardiac Surgeon in Valvular Heart Disease  
*Kendra Grubb*

The Interventional Cardiac Anesthesiologist - GA, MAC or Nothing?  
*Douglas Shook*
Comparing Cost Between Catheter-Based and Open Surgical Treatments for Valvular Disease  
*Gordon Morewood*

Interventional Imaging: Time for a Specific Fellowship?  
*Feroze Mahmood*

**3:30 pm – 5:00 pm**  
**Anesthesia & Analgesia: State-of-the-Art**  
*Moderator: Nikolaos Skubas*

Association Between Postoperative Body Temperature and All-cause Mortality After Off-pump Coronary Artery Bypass Graft Surgery: A Retrospective Observational Study  
*Tae Kyong Kim*

Preoperative Echocardiography for Patients with Hip Fractures Undergoing Surgery: A Retrospective Cohort Study Using a Nationwide Database  
*Hiroshi Yonekura*

Characteristics of Dexmedetomidine Postconditioning in the Field of Myocardial Ischemia Reperfusion Injury  
*David Roth*

Panel Discussion

**3:30 pm – 5:30 pm** **Best of Meeting Oral Abstract Presentations**  
*Moderator: Sasha Shillcutt*

**5:00 pm – 6:30 pm** **Echo Jeopardy**  
*Moderators: Feroze Mahmood, Andrew Maslow, Peter Panzica*

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**Tuesday, April 21**

**7:00 am – 8:00 am** **Problem Based Learning Discussions (PBLDs 19 – 24)**

19. Thoracic Disasters - What to Do When All Eyes Are on You  
*Maurizio Cereda and Wanda Popescu*

20. Mitral Regurgitation: A Team-Based Approach to Decision-Making  
*Anne Cherry and Douglas Shook*

21. VAD Emergencies - What to Do When You Have to Move Fast  
*Jenny Kwak and Joseph Meltzer*

22. Sedation for High Risk Patients - When Anesthesia is the Riskiest Part of the Procedure  
*Ratna Vadlamudi and Laeben Lester*
23. Allergic Reactions during Cardiac Surgery - An Update on How to Predict, Diagnose, and Treat
   Jonathan Kay and Richard Wolman

24. Cardiovascular Implantable Electronic Devices (CIEDs) and Pacers: Everything You Want to Know but are Afraid to Ask!
   Annemarie Thompson and Brett Cronin

8:00 am – 10:00 am NACOR-AQI, MPOG, PQRS, SCA-STS – Is This Alphabet Soup or Can I Use a Quality Database to Affect Change?
   Moderator: Nadia Hensley
   - Making Sense of Big Data to Improve Cardiovascular Anesthesia Care: Opportunities through STS and MPOG
     Mike Mathis
   - Nuts and Bolts of STS Database
     Miklos Kertai
   - Performance Metrics in a Pay-for-Performance World
     Laurent Glance
   - Converting Data to Practice: CPI 2020
     Nanette Schwann
   - Panel Discussion with Audience Participation

10:00 am – 10:30 am Coffee Break

10:30 am – 12:00 pm Don't (Let Your Patient) Be Shocked! What's New in EP?
   Moderators: Michael Essandoh and Jennifer Hargrave
   - Cardiac Sympathetic Denervation for VT/Vf
     Brett Cronin
   - Non-Transvenous CIEDs: Anesthesia and Surgical Implications
     Adam Dalia
   - Anesthesiologists Should Be Programming CIEDs Perioperatively
     Peter Schulman
   - Anesthesiologists Should NOT Be Programming CIEDs Perioperatively
     Jonathan Ho

10:30 am – 12:00 pm Managing Critical Events During Organ Transplants
   Moderator: Jiapeng Huang
   - Managing Critical Events during Heart Transplantation
     Kathirvel Subramaniam
   - Standardized Management for Liver Transplantation Emergencies
     Susan Mandell
Managing Coagulopathy During Organ Transplantation  
*Tim Hayes*

Managing Critical Events During Lung Transplant  
*Yong Peng*

**10:30 am – 12:00 pm Supporting Women in Cardiac Anesthesia**  
*Moderator: Emily Methangkool*

Work-Life Integration - How to Achieve Balance Without Burnout  
*Nadia Hensley and Michael Mazzeffi*

Engaging Men in Supporting Women  
*Madhav Swaminathan*

Barriers to Advancement and How to Overcome Them  
*Daryl Oakes*

**1:00 pm – 2:00 pm Problem Based Learning Discussions (PBLDs 25 – 29)**

25. Severe Right Ventricular Dysfunction after Cardiac Surgery - Everyone’s Nightmare  
*Sreekanth Cheruku and Jonathan Ho*

26. Perioperative Management of Patients on Novel Oral Anticoagulants - So Many Questions, All the Answers  
*Nadia Hensley and Michael Mazzeffi*

27. Cardiovascular Disease and Pregnancy - What to Do When You are Taking Care of 2?  
*Sarah Smith and Draginja Cvetkovic*

28. Left Atrial Appendage Device for AFIib - Conundrums, Complications, and Everything in Between  
*Theresa Gelzinis and Noah Rolleri*

29. VA ECMO: Perioperative Management...Made Crystal Clear!  
*Meena Bhatia and Priya Kumar*

**1:00 pm – 2:00 pm The Forgotten Valve – Understanding the Contributions of the Pulmonic Valve**  
*Moderator: Jennifer Hargrave*

The Role of the Pulmonic Valve and the Diseases that Impact Function  
*Michael Essandoh*

Is the Pulmonic Valve Strong Enough for the Systemic Circulation? The Re-emerging Ross Procedure  
*Wanda Miller-Hance*
Evolving Therapies for Pulmonic Valve Disease
Joanna Ghobrial

2:00 pm – 3:30 pm  **SOCCA Session – Cardiac Critical Care: A Potpourri**
Moderator: Shahzad Shaefi

Vasoplegia - State-of-the-Art: Not Just Magic Bullets
Sheela Pai Cole

Deliverables: The Alphabet Soup of Quality Metrics on the CTICU
Avery Tung

Models of CTICU Coverage - A Pressing Issue: In-House Faculty, Residents, APPs or TeleICU?
Peter Von Homeyer

Program Directors’ Corner: Cardiac Critical Care Training - Changing Times?
Joseph Meltzer

2:00 pm – 3:30 pm  **What’s New in VADs? Who Cares (For the Patient)?**
Moderators: Michael Essandoh and Jacques Neelankavil

Pulsatility in the New VADs
Marcos Vidal-Melo

PRShould We Manage Contemporary LVADs Differently from Older Generation LVADs?
Marc Stone

All Patients with MCS Should Be Cared for By a Cardiac Anesthesiologist
Pro: Reed Harvey
Con: Julie Wyrobek

2:00 pm – 5:00 pm  **Workshop 7: 3D TEE – Principles, Essentials, and So Much More**
Moderators: Jiapeng Huang and Charles Nyman

3D: Modalities of Acquisition, Advantages, and Disadvantages
Alina Nicoara

How Do I Incorporate 3D for Percutaneous Interventions?
Charles Nyman

How Do I Incorporate 3D in the Operating Room?
Georges Desjardins

**Station Faculty:**
Basic 3D TEE I (GE Basic)
Anne Cherry

Advanced 3D TEE I (GE Advanced)
Emily Methangkool
Basic 3D TEE II (Philips Basic)
Laeben Lester
Michael Andrawes

Advanced 3D TEE II (Philips Advanced)
Alina Nicoara
Isaac Wu

Advanced 3D Quantification (QLab Station)
Charles Nyman
Michael Duggan

Advanced 3D TEE III (Siemens)
James Lee

2:30 pm – 5:30 pm  Fellow and Resident TEE Review
Moderators: Tara Brakke and Jacques Neelankavil

Ultrasound Physics
Daryl Oakes

Pitfalls and Artifacts
Michele Sumler

Hemodynamic Calculations
Mary Beth Brady

Congenital Heart Defects
Tiffany Williams

Prosthetic Valve Evaluations
Jonathan Leff

Panel Discussion

3:30 pm – 4:00 pm  Coffee Break

4:00 pm – 5:30 pm  Challenges in Cardiopulmonary Bypass
Moderator: Donna Greenhalgh

Treating Blood Pressure: More Harm Than Good?
Paul Lennon

When Things Go Wrong: Pump Accidents and CPB Safety
Karen Jones-Smith

Failure to Launch: When Is Failure to Wean CPB an Indication for ECMO?
Lee Feddy

Acidosis Cause for Worry? Aetiology, Prognostic Value & Management
Miguel Garcia
4:00 pm – 5:30 pm  
**Protective Ventilation for Thoracic Surgery**  
*Moderator: Wanda Popescu*

- Pulmonary Complications After Thoracic Surgery: Etiology and Pathophysiology  
  *Maurizio Cereda*

- Optimal FiO2 During Lung Surgery  
  *Frederic Billings*

- Protective Ventilation Improves Outcomes in Thoracic Surgery  
  **Pro:** Marcelo Gama De Abreu  
  **Con:** Randal Blank