SATURDAY AND SUNDAY SYMPOSIA

April 28 - May 1, 2018
San Diego Convention Center
San Diego, CA, USA

www.aats.org
AATS
ANNUAL MEETING
2019

PRESIDENT
David H. Adams

SAVE THE DATE

May 4 - May 7, 2019
Metro Toronto Convention Centre
Toronto, Canada

AMERICAN ASSOCIATION FOR THORACIC SURGERY
800 Cummings Center, Suite 350-V | Beverly, MA 01915
978-252-2200 | Fax 978-522-8469 | meetings@aats.org | www.aats.org
Welcome to the AATS 2018
Saturday Courses and Sunday Symposia
In Collaboration with the
American Society of Extracorporeal Technology

SATURDAY COURSES | APRIL 28
Your Saturday all-access registration grants you admittance to all of the sessions taking place on Saturday from 8:00 AM to 5:00 PM in the San Diego Convention Center.

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Room, Level 2, San Diego Convention Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult Cardiac Skills: Coronary</td>
<td>8:00 AM – 12:00 PM</td>
<td>Ballroom 20A</td>
</tr>
<tr>
<td>Adult Cardiac Skills: Mitral Valve</td>
<td>8:00 AM – 12:00 PM</td>
<td>Ballroom 20D</td>
</tr>
<tr>
<td>Congenital Skills</td>
<td>8:00 AM – 5:00 PM</td>
<td>Room 30ABC</td>
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<tr>
<td>General Thoracic Skills</td>
<td>8:00 AM – 5:00 PM</td>
<td>Room 24ABC</td>
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<tr>
<td>Cardiotoracic Transplant and Mechanical Circulatory Support of Heart and Lung Failure</td>
<td>8:00 AM – 5:00 PM</td>
<td>Room 28ABC</td>
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<tr>
<td>Surgical Ethics Course</td>
<td>8:00 AM – 3:00 PM</td>
<td>Room 28DE</td>
</tr>
<tr>
<td>Adult Cardiac Skills: Aortic Root</td>
<td>1:00 PM – 3:00 PM</td>
<td>Room 25ABC</td>
</tr>
<tr>
<td>Adult Cardiac Skills: Atrial Fibrillation</td>
<td>1:00 PM – 3:00 PM</td>
<td>Ballroom 20D</td>
</tr>
<tr>
<td>Adult Cardiac Skills: Transcatheter Valve Therapies</td>
<td>1:00 PM – 3:00 PM</td>
<td>Ballroom 20A</td>
</tr>
<tr>
<td>Survival Guide: Your First Night on Call</td>
<td>1:00 PM – 5:00 PM</td>
<td>Rooms 23B and 23C</td>
</tr>
<tr>
<td>Enhanced Recovery after Cardiac Surgery</td>
<td>1:00 PM – 5:00 PM</td>
<td>Room 29AB</td>
</tr>
<tr>
<td>Protecting the Brain During Heart Surgery</td>
<td>3:15 PM – 5:15 PM</td>
<td>Ballroom 20A</td>
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SUNDAY AATS/STS POSTGRADUATE SYMPOSIA | APRIL 29
Your Sunday all-access registration grants you admittance to all of the sessions taking place on Sunday from 7:30 AM to 3:00 PM in the San Diego Convention Center.

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Room, Level 2, San Diego Convention Center</th>
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<tbody>
<tr>
<td>AATS Innovation Summit</td>
<td>7:30 AM – 11:30 AM</td>
<td>Room 29AB</td>
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<tr>
<td>AATS/STS Adult Cardiac Surgery Symposium</td>
<td>7:30 AM – 3:00 PM</td>
<td>Ballroom 20A</td>
</tr>
<tr>
<td>AATS/STS Congenital Heart Disease Symposium</td>
<td>7:30 AM – 3:00 PM</td>
<td>Room 30ABC</td>
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<tr>
<td>AATS/STS General Thoracic Surgery Symposium</td>
<td>7:30 AM – 3:00 PM</td>
<td>Room 25ABC</td>
</tr>
<tr>
<td>Interprofessional Cardiothoracic Team Symposium</td>
<td>7:30 AM – 5:00 PM</td>
<td>Room 28DE</td>
</tr>
<tr>
<td>Cardiothoracic Careers College (CCC)</td>
<td>7:30 AM – 3:00 PM</td>
<td>Room 29CD</td>
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</tbody>
</table>

AATS/AmSECT Welcome Reception | 5:15 PM – 7:15 PM in the Exhibit Hall, Level 1, San Diego Convention Center
Join us as we officially celebrate the opening of this year’s AATS 98th Annual Meeting and AmSECT 56th International Conference. Visit with our valued exhibitors and supporters in the Exhibit Hall where you will learn cutting edge techniques and discover groundbreaking new products while networking with other attendees.

The Exhibit Hall offers several exciting learning opportunities:
- AATS Learning Center features cutting edge Case Videos of novel procedures and surgical techniques, as well as highlights of the 2018 AATS Aortic Symposium and 2017 AATS Mitral Conclave
- AATS Resident Poster Competition
- AATS Perioperative and Team Based Care Poster Competition
- Industry sponsored Surgical Suites

AATS/AmSECT Planning Committee
*David H. Adams
+Ron Angona
*Duke E. Cameron
*Thomas A. D'Amico
Marci Damiano
*Ralph J. Damiano, Jr.
*Abe DeAnda, Jr.
+Tim Dickinson
*J. William Gaynor
+Bob Groom
*Viktor Groom

Katherine J. Hoercher
*David R. Jones
Mort Kern
David E. Lizotte, Jr.
*Susan Moffat-Bruce
**Daniela Molena
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+Jim Reagon
+Jeff Riley
*Ashish S. Shah
+Kenneth Shann
*Thoralf M. Sundt, III
*Vaughn A. Starnes
*Wilson Y. Szeto
*Vinod H. Thourani
**Betty Tong
*Luca A. Vricella
+Rich Walczak
*Y. Joseph Woo
*Glenn J. Whitman
*Stephen C. Yang

*In collaboration with AmSECT
*AATS Member  **AATS New Member  +AmSECT Member
Accreditation Information

Statement of Need
Cardiovascular disease and cancer are the leading causes of mortality and morbidity around the globe. Major advances in these conditions continue to be made at a rapid pace. Improvements in diagnostic techniques as well as interventional approaches to treatment, both surgical and percutaneous, challenge the clinical practitioner to remain current. Increasingly sophisticated technology to accomplish these aims is being developed and introduced into clinical practice. Exciting advances in basic and clinical science offer opportunities for participation in scientific studies and clinical trials. All of these elements create a significant educational need for the practicing cardiothoracic surgeon. The AATS Annual Meeting fills this need through a combination of lectures, original scientific presentations and discussion forums.

Educational Objectives
At the conclusion of the AATS Annual Meeting, through comprehensive lectures and discussions, participants will be able to:

- Identify the latest techniques and current research specifically related to Adult Cardiac Surgery, Congenital Heart Disease, General Thoracic Surgery and Perioperative Care.
- Select appropriate surgical procedures and other interventions for their own patients based upon results presented.
- Incorporate the basic science developments and emerging technologies and techniques across the spectrum of cardiothoracic surgery.
- Communicate current practice management necessary for the effective and safe delivery of patient care.
- Translate expanded knowledge into practice for the improvement of patient outcomes and satisfaction.

Target Audience
The AATS Annual Meeting is specifically designed to meet the educational needs of:

- Cardiothoracic Surgeons
- Physicians in related specialties including Cardiothoracic Anesthesia, Critical Care, Cardiology, Pulmonology, Radiology, Gastroenterology, Thoracic Oncology and Vascular Surgery
- Fellows and Residents in Cardiothoracic and General Surgical training programs
- Health Care Professionals involved in the care of cardiothoracic surgical patients including Physician Assistants, Nurse Practitioners, Nurses, Surgical Assistants and Perfusionists
- Medical students with an interest in cardiothoracic surgery

AATS would like to thank the following companies for their education support:
Abbott                       Gore & Associates
Edwards Lifesciences         Siemens Healthineers

AATS would like to thank the following companies for their marketing support:
Abbott                       LivaNova
Covalon Technologies         LSI Solutions
Edwards Lifesciences         Medtronic
Intuitive Surgical           Surgical Theater
Johnson & Johnson Medical    Vascutek
    Devices Companies         Zimmer Biomet
Continuing Medical Education (CME) Accreditation
The American Association for Thoracic Surgery is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The American Association for Thoracic Surgery designates this live educational activity for a maximum of 31.25 **AMA PRA Category 1 Credits**™.

Physicians should only claim credit commensurate with the extent of their participation in the activity.

American Academy of Physician Assistants (AAPA) Accreditation
This program has been reviewed and is approved for a maximum of 66.5 AAPA Category 1 CME credits by the AAPA Review Panel. PAs should claim only those credits actually spent participating in the CME activity.

This program was planned in accordance with AAPA CME Standards for Live Programs and for Commercial Support of Live Programs.

American Board of Cardiovascular Perfusion (ABCP) Accreditation
The American Board of Cardiovascular Perfusion is reviewing this educational activity for a maximum of 40.3 CEUs. Approved credits will be posted at www.aats.org.

The American Association for Thoracic Surgery designates the following credit hours:

**Saturday, April 28, 2018 – up to 6.25 hours (CME, AAPA, ABCP)**
- Adult Cardiac Skills: Coronary, up to 3.75 hours
- Adult Cardiac Skills: Mitral Valve, up to 3.5 hours
- Adult Cardiac Skills: Atrial Fibrillation, up to 2 hours
- Adult Cardiac Skills: Aortic Root, up to 2 hours
- Adult Cardiac Skills: Transcatheter Valve Therapies, up to 2 hours
- Congenital Skills, up to 6.5 hours
- General Thoracic Skills, up to 7.5 hours
- Cardiopulmonary Transplant and Mechanical Circulatory Support of Heart and Lung Failure, up to 5.75 hours
- Surgical Ethics Course, up to 5.5 hours
- AATS/SCAI Heart Team Summit, up to 3 hours
- Protecting the Brain During Heart Surgery, up to 2 hours
- Survival Guide: Your First Night on Call, not for credit

**Sunday, April 29, 2018 – up to 7.5 hours (CME, AAPA, ABCP)**
- Adult Cardiac Surgery, up to 6 hours
- Congenital Heart Disease, up to 5.75 hours
- General Thoracic Surgery, up to 6.25 hours
- Interprofessional Cardiothoracic Team Symposium, up to 8 hours
- Cardiothoracic Careers College (CCC), up to 5.5 hours
- Adult Cardiac Surgery Simultaneous Session, up to 2 hours
- Congenital Heart Disease Simultaneous Session, up to 2 hours
- General Thoracic Surgery Simultaneous Session, up to 2 hours

**Monday, April 30, 2018 – up to 7 hours (CME, ABCP)**
- Plenary Scientific Session, up to 2.75 hours
- Presidential Address, up to 0.75 hours
- Invited Guest Lecture, not for credit
- Ethics Forum Luncheon, up to 1 hour
- C. Walton Lillehei Resident Forum, not for credit
- Adult Cardiac Surgery Simultaneous Session, up to 3 hours
- Controversies in CABG 2018, up to 3 hours
- Congenital Heart Disease Simultaneous Session, up to 2.75 hours
- General Thoracic Surgery Simultaneous Session, up to 2.75 hours
- Perioperative Care Simultaneous Session, up to 3 hours

**Tuesday, May 1, 2018 – up to 6.75 hours (CME, ABCP)**
- Cardiac Surgery Forum, up to 1.5 hours
- General Thoracic Surgery Forum, up to 1.5 hours
- Adult Cardiac Emerging Technologies and Techniques / Video Session, up to 1.5 hours
- Congenital Emerging Technologies and Techniques / Video Session, up to 1.2 hours
- General Thoracic Emerging Technologies and Techniques / Video Session, up to 1.5 hours
Plenary Scientific Session, up to 2.25 hours
Invited Guest Lecture, not for credit
Aortic/Endovascular Simultaneous Session, up to 3 hours
Congenital Heart Disease Simultaneous Session, up to 3 hours
General Thoracic Surgery Simultaneous Session, up to 3 hours
Enhanced Recovery after Cardiac Surgery, up to 1.5 hours
Enhanced Recovery after Thoracic Surgery, up to 1.5 hours
Adult Cardiac Surgery Simultaneous Session, up to 1.5 hours
What a Cardiac Surgeon Should in 2018 Know about Transcatheter Devices, up to 1 hour
MCS/Transplant Session, up to 1 hour
AATS Surgical Cinema: Adult Cardiac, up to 1.5 hours
AATS Surgical Cinema: Congenital, up to 1.5 hours
AATS Surgical Cinema: General Thoracic, up to 1.5 hours

For further information on the Accreditation Council for Continuing Medical Education (ACCME) standards of commercial support, please visit www.accme.org.

CME Certificates and Letters of Attendance
CME (Continuing Medical Education) and CE credits and Letters of Attendance may be obtained at the CME/CE Pavilion located on Level 1 of the San Diego Convention Center. The CME/CE Pavilion computers will allow attendees to manage all of their CME/CE credits and Letter of Attendance for the Annual Meeting. Access may also be obtained post-meeting by visiting https://ceu.experientevent.com/aat181/.

Attendees may email their CME/CE certificate and/or Letter of Attendance to themselves or they may print them out on site at the CME/CE Pavilion.

Disclosure Policy
It is the policy of the American Association for Thoracic Surgery that any individual who is involved in planning, presenting or is an author on a program designated for AMA Physician’s Recognition Award Category 1 Credit™ (and the individual’s spouse/partner) must disclose to AATS all relevant financial relationships (e.g. salary, royalty, intellectual property rights, consulting fee, honoraria, ownership interest, stocks/stock options) with an ACCME-defined commercial interest(s), that is, any entity that produces, markets, re-sells, or distributes health care goods or services consumed by, or used on, patients. Relevant financial relationships are financial relationships in any amount that create a conflict of interest and that occurred in the twelve-month period preceding the time that the individual was asked to assume a role controlling content of the CME activity. A conflict of interest is created when individuals have both a relevant financial relationship with a commercial interest and the opportunity to affect the content of CME about the products or services of that commercial interest. Relevant financial relationships, or the absence thereof, are disclosed to the audience prior to an activity.

The AATS has procedures in place if a conflict of interest should arise. In addition, faculty members are asked to disclose when any discussion of unapproved use of pharmaceutical or medical device occurs. For further information on the Accreditation Council for Continuing Medical Education (ACCME) Standards of Commercial Support, please visit www.accme.org.

Committees
The following committee members have nothing to disclose with regard to relevant financial relationships. The following faculty members do not plan on discussing unlabeled/investigational uses of a commercial product.

+Ron Angona
*Duke E. Cameron
*Thomas A. D’Amico
Marcia Damiano
*Abe DeAnda, Jr.
+Tim Dickinson
*J. William Gaynor
+Bob Groom
*Viktor Hraska
Katherine J. Hoercher
*David R. Jones
David E. Lizotte, Jr.
*Susan Moffat-Bruce
**Daniela Molena
*James A. Quintessenza
+Jim Reagor
+Jeff Riley
+Kenneth Shann
*Vaughn A. Starnes
*Luca A. Vricella
+Rich Walczak
*Y. Joseph Woo
*Stephen C. Yang

*AATS Member  **AATS New Member  +AmSECT Member
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*David H. Adams  
Research Support from Medtronic, Medtronic, NeoChord; The Icahn School of Medicine at Mount Sinai receives royalty payments for intellectual property from Edwards Lifesciences, Medtronic

*Ralph J. Damiano, Jr.  
Speaker with Atricure, Edwards Lifesciences LivaNova; Research Support from Atricure

Mort Kern  
Speaker with Abbot, St. Jude, Acist Medical, Heartflow, Opsens, Philips Volcano

*Marc R. Moon  
Speaker with Edwards Lifesciences

*John D. Puskas  
Consultant with Medtronic; Shareholder with Innovative Cardiac Technologies LLC

*Ashish S. Shah  
Consultant with Transmedics

*Thoralf M. Sundt, III  
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*Wilson Y. Szeto  
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*Vinod H. Thourani  
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**Betty Tong  
Consultant with Medtronic

*Glenn J. Whitman  
Research Support from Abbott Nutrition

**Faculty

The following faculty members have nothing to disclose with regard to relevant financial relationships. The following faculty members do not plan on discussing unlabeled/investigational uses of a commercial product.

Jake H. Abernathy  
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*Isaac George

*Michael A. Acker  
*Sertac Cicik  
*David Glineur

*Ottavio R. Alfieri  
Heidi M. Connolly  
Andrew Goldstone

*Bahaaldin Alsoufi  
*David T. Cooke  
*Diego Gonzalez-Rivas

*Pavan Alturi  
*David A. D’Alessandro  
+Bob Groom

*Rafael Andrade  
*Thomas A. D’Amico  
*Kristine J. Guleserian

+Ron Angona  
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*Vinay Badhwar  
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Tjark Ebels  
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+Chelsea Capone  
Brian Ferguson  
Azeem Khan

*Paul J. Chai  
Amy G. Fiedler  
*Ki-Bong Kim

*Andrew C. Chang  
Mario F.L. Gaudino  
Richard W. Kim

*Haiquian Chen  
*J. William Gaynor  
+Thomas Klein

*AATS Member  **AATS New Member  +AmSECT Member
<table>
<thead>
<tr>
<th>Name</th>
<th>Disclosures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emily Kluck</td>
<td>+Molly Oldeen</td>
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<tr>
<td>*Benjamin D. Kozower</td>
<td>Jay Pal</td>
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<td>Ganga Krishnamurthy</td>
<td>*Harvey I. Pass</td>
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<td>*Irving L. Kron</td>
<td>*G. Alexander Patterson</td>
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<td>*Jennifer S. Lawton</td>
<td>Giles J. Peek</td>
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<td>*Harold L. Lazar</td>
<td>*Louis P. Perrault</td>
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<td>*Anthony E. Lerut</td>
<td>Sara J. Pereira</td>
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<td>Donald Likosky</td>
<td>Patrick Perrier</td>
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<td>*Virginia R. Little</td>
<td>*Gosta B. Petterson</td>
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<td>David C. Magnus</td>
<td>+Jim Reagor</td>
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<td>Rajendra Makkar</td>
<td>*V. Mohan Reddy</td>
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<td>*Hersh S. Maniar</td>
<td>*David C. Rice</td>
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<td>John E. Mayer</td>
<td>+Jeff Riley</td>
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<td>*Shari Meyerson</td>
<td>Harold G. Roberts, Jr</td>
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<td>Robert Michler</td>
<td>*Eric E. Roselli</td>
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<td>*Michael E. Mitchell</td>
<td>Mark Russo</td>
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<td>*Susan D. Moffatt-Bruce</td>
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<td>**Daniela Molena</td>
<td>*Robert M. Sade</td>
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<td>Mindy Mordecai</td>
<td>Inderpal S. Sarkaria</td>
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<td>*Sudish C. Murthy</td>
<td>*Hans Joachim Schaefers</td>
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<td>*Song Wan</td>
<td>*Y. Joseph Woo</td>
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<td>Paul Weinberg</td>
<td>*Doug Wood</td>
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<td>*Richard I. Whyte</td>
<td>*Stephen C. Yang</td>
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<td></td>
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<tr>
<td>*Matthew Bacchetta</td>
<td>Off-label/unapproved use discussion - Use of ECMO for more than 6 hours</td>
</tr>
<tr>
<td>+Desiree Bonadonna</td>
<td>Off-label/unapproved use discussion - All ECMO Products</td>
</tr>
<tr>
<td>*Michael J. Mack</td>
<td>Off-label/unapproved use discussion - TMVR technology</td>
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<tr>
<td>Steven Tsui</td>
<td>Off-label/unapproved use discussion - TransMedics OCS</td>
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<td>*Niv Ad</td>
<td>Speaker with Medtronic; Consultant with Atribute, LivaNova; Advisor with ido Surgical; Co-Owner of LA Appendage Occlusion</td>
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<tr>
<td>Saif Anwaruddin</td>
<td>Speaker with Edwards Lifesciences, Medtronic; Consultant with Medtronic, Edwards Lifesciences</td>
</tr>
<tr>
<td>*Rakesh Arora</td>
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<tr>
<td>Husam H. Balkhy</td>
<td>Proctor with Intuitive Surgical</td>
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<tr>
<td>*Christian P. Brizard</td>
<td>Advisor with Admedus, Australia. Advisor</td>
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<tr>
<td>*Robert J. Cerfolio</td>
<td>Consultant with Intuitive, Ethicon, Covidienn, Bovie, KCL, Myriad, Neomend/BARD, Novartis, Pinnacle, TransEnteric, Medtronic, Google, C-SATS video review, ConMed/AirSeal</td>
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<tr>
<td>*Joanna Chikwe</td>
<td>Speaker with Edwards Lifesciences</td>
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<tr>
<td>*Yolonda L. Colson</td>
<td>Research Support from Cannon USA, Stryker</td>
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*AATS Member  **AATS New Member  +AmSECT Member
*Marcelo Cypel  Consultant with United Therapeutics; Shareholder with XOR Labs Toronto, Perfusix Canada; Research Support from XVivo Perfusion

*Ralph J. Damiano, Jr.  Speaker with Atricure, Edwards Lifesciences LivaNova; Research Support from Atricure

*Steven R. DeMeester  Speaker with Bard/Davol, Novadaq; Consultant with Bard/Davol, CDx Diagnostics; Research Support from Bard/Davol, CDx Diagnostics

Paolo Denti  Consultant with 4Tech, InnovHeart, Neovasc, Abbott

*Sitaram M. Emani  Consultant with Cheisi Pharma

Ted Feldman  Consultant with Abbott, BSC, Edwards Lifesciences

*Hiran C. Fernando  Medical Monitor for Metastases Study with Galil Medical

*A. Marc Gillinov  Consultant with AtrCure, Medtronic, Abbott, CryoLife, ClearFlow; Shareholder with ClearFlow; Research Support from Abbott, Edwards; Cleveland Clinic receives royalties from ArtiCure

*Michael E. Halkos  Consultant with Medtronic

*Shaf Keshavjee  Shareholder with Perfusix Canada Inc, XOR Labs Toronto Inc.; Research Support from XVIVO Perfusion, United Therapeutics

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*Leslie J. Kohman  Research Support from CareFusion

*Martin Kostolny  Proctor with Terumo, JOMDD

Lionel Lamhaut  Research Support from Maquet

*Joseph Lamelas  Speaker with Medtronic, Edwards Lifesciences; Shareholder with Miami Instruments, Inc.

*Moishe Liberman  Research Support from Ethicon, Cook, Boston Scientific

Michael J. Lim  Speaker with Abiomed, Medtronic; Consultant with Abiomed

Gabriel Loor  Research Support from TransMedics, Inc.

*James D. Luketich  Shareholder with Johnson & Johnson, Express Scripts Inc, Intuitive Surgical Inc, Proctor & Gamble

*S. Chris Malaisrie  Speaker with Abbott; Consultant with Edwards Lifesciences and CryoLife

*Blair M. Marshall  Advisor with Ethicon

*Patrick M. McCarthy  Consultant with Edwards Lifesciences, Abbott Vascular, Medtronic. Royalties as Inventor from Edwards Lifesciences

Stuart McGrane  Travel funding from Abbott

*John D. Mitchell  Speaker and Consultant with Medtronic

*Marc R. Moon  Speaker with Edwards Lifesciences

*David L. Morales  Consultant with Syncardia, Oregon Heart, Abbott Medical Inc; Advisor with Cormatrix, Inc., Berlin Heart, Inc.; Shareholder with Cormatrix, Inc.; Research Support Recipient from Cormatrix, Inc., Syncardia
*Richard G. Ohye  Advisor with Cryolife, Inc.

*Mark Onaitis  Consultant with Medtronic

*Bernard J. Park  Speaker with Intuitive Surgical; Consultant with Medtronic

Rene Petersen  Speaker with Medtronic

*Ourania Preventza  Consultant with W.L. Gore & Associates, Inc.

*John D. Puskas  Consultant with Medtronic; Shareholder with Innovative Cardiac Technologies LLC

*Siva Raja  Advisor with Smiths Medical

*Michael J. Reardon  Consultant with Medtronic, Boston Scientific

*Rishindra M. Reddy  Consultant with Intuitive Surgical; Advisor with Medtronic

Kenneth Rosenfield  Consultant/Scientific Advisory Board with with Abbot Vascular, Cardinal Health, Cook, Thrombolex, Surmodics, Volcano/Philips, Amegen; Stock Shareholder with PQ Bypass, Primacea, Capture Vascular, VOTEX, MD Insider, Micell, Shockwave, CRUZAR Systems, Endospan, Eximo, Micell, Contego; Consultant/Scientific Advisory Board with Equity or Stock Options with Capture Vascular, Contego, CRUZAR Systems, Endospan, Eximo, MD Insider, Micell, Shockwave, Silk Road Medical, Valcare, Thrombolex; Research Support from Atrium-Getinge, Inari Medical, NIH, Lutonix-BARD; Board Member with VIVA Physicians, National PERT Consortium

*Marc Ruel  Advisor with Medtronic, Abbott; Research Support from Medtronic, Edwards, Cryolife

*Ashish S. Shah  Consultant with Transmedics

Alan Sihoe  Advisor with AME Publishing Co. (Hong Kong); Research Support from Medela AG (Baar, Switzerland)

Scott C. Silvestry  Speaker with Abbott; Consultant with Abbott, Medtronic

*Thoralf M. Sundt, III  Clinical Events Committee member with Medpace

Francis P. Sutter  Speaker with Intuitive Surgical, Case Observations

*Scott J. Swanson  Consultant with Ethicon, Covidien

Molly Szerlip  Speaker with Edwards Lifesciences, Medtronic

*Wilson Y. Szeto  Consultant with Microinterventional Devices; Research Support from Edwards Lifesciences, Medtronic, Terumo, W L Gore

*David P. Taggart  Speaker with Medistim, VGS, Medtronic; Consultant with Medistim, VGS, Medtronic, Sryker; Advisor with Medistim, VGS, Medtronic, Sryker; Shareholder with VGS; Research Support from Medistim, VGS, Medtronic

Gilbert Tang  Speaker with Abbott Structural Heart, Edwards Lifesciences, Medtronic


**Betty Tong  Consultant with Medtronic

Michael Vallely  Consultant with St Jude, Medtronic

*Benny Weksler  Consultant with Intuitive Surgery

*AATS Member  **AATS New Member  +AmSECT Member
*Glenn J. Whitman  Research Support from Abbott Nutrition

*Kazuhiro Yasufuku  Consultant with Olympus America Inc, Intuitive Surgical Inc, Auris Surgical Robotics, Medtronic, Johnson and Johnson; Advisor with Conordia, Olympus America Inc.; Research Support Rfrom Olympus Corporation

The following faculty members have disclosures with regard to relevant financial relationships. The following faculty members plan on discussing unlabeled/investigational uses of a commercial product.

David Amar  Research Support from Silvian Foundation.; Off-label/unapproved use discussion – magnesium sulfate, gabapentin off-label uses


Mani A. Daneshmand  Speaker with Maquet; Off-label/unapproved use discussion – Off Label Use of ECMO technology

Matthew R. Danter  Advisor with Medtronic; Off-label/unapproved use discussion – The product is the Medtronic HVAD left ventricular assist device, and the "investigational" use is implantation via non-sternotomy, less invasive approaches.

James Longoria  Shareholder and IP Rights with LC Therapeutics; Off-label/unapproved use discussion – RF clamp/pen for treated of atrial fibrillation

Nahush A. Mokadam  Consultant with Medtronic, Abbott; Research Support from Medtronic, Abbott, Syncardia; Off-label/unapproved use discussion – I will discuss off-label use of percutaneous devices and how they may be used in the setting of LVAD therapy

Victor (Gert) Pretorius  Speaker and Consultant with Medtronic, Abbott; Off-label/unapproved use discussion – Use of Medtronic HeartWare HVAD as Right ventricular assist device

*Mathew R. Williams  Consultant with Abbott, Boston Scientific; Research Support from Edwards, Medtronic, Livanova; Off-label/unapproved use discussion – Mitral clip, Caisson, Intrepid

AATS Staff
None of the AATS Staff members involved in the CME program have disclosed any relevant financial relationships. These staff members include: Melissa Binette, Michelle Cormier, Darlene Janis, Charlotte LeTourneau, Lauren Ruggiero, Ashley Quinn, Cindy VerColen.
Adult Cardiac Skills: Coronary  
Ballroom 20A, SDCC  
Saturday, April 28, 2018 | 8:00 AM – 12:00 PM  
Course Chair: * John D. Puskas, Mount Sinai Saint Luke’s

8:00 AM - 8:05 AM  Welcome and Introduction  
* John D. Puskas, Mount Sinai Saint Luke’s  

Conduits for CABG

8:05 AM - 8:15 AM  How to Harvest BITA Grafts: Best Practices  
Teresa M. Kieser, Libin Cardiovascular Institute of Alberta  

8:15 AM - 8:25 AM  How to Harvest RA Grafts: Best Practices  
* John D. Puskas, Mount Sinai Saint Luke’s  

8:25 AM - 8:35 AM  How to harvest SVG Grafts: Best Practices  
*Song Wan, The Chinese University of Hong Kong  

8:35 AM - 8:45 AM  Storage Solutions for CABG Conduits  
*Louis P. Perrault, Montreal Heart Institute Department of Surgery

Graft Configuration

8:45 AM - 8:55 AM  How to Deploy BITA Grafts  
*Joseph F. Sabik, III, University Hospitals of Cleveland  

8:55 AM - 9:05 AM  How to Deploy RA Grafts  
*James Tatoulis, Royal Melbourne Hospital  

9:05 AM - 9:15 AM  Composite Arterial Conduits  
David Glineur, University of Ottawa Heart Institute  

9:15 AM - 9:25 AM  How to Deploy SVG Grafts  
*Ki-Bong Kim, Seoul National University Hospital  

9:25 AM - 9:35 AM  New External Stents for SVG Grafts  
*David P. Taggart, University of Oxford  

9:35 AM - 9:45 AM  Panel Discussion  
David Glineur, University of Ottawa Heart Institute  
*Ki-Bong Kim, Seoul National University Hospital  
* John D. Puskas, Mount Sinai Saint Luke’s  
*David P. Taggart, University of Oxford  
*James Tatoulis, Royal Melbourne Hospital  

9:45 AM - 10:00 AM  Coffee Break

Graft Assessment by Transit Time Flow Measurement and Imaging

10:00 AM - 10:10 AM  The Physics of Transit Time Flow Measurement: What Do The Numbers Mean?  
Gabriele Di Giammarco, University G D’Annunzio-Chieti  

10:10 AM - 10:20 AM  When Should I Revise a Graft? Cases in Which TTFM Made Aa Difference  
*David P. Taggart, University of Oxford
### OPCAB: Best Practices

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>10:20 AM - 10:35 AM</td>
<td>How to Position the Heart for OPCAB</td>
<td>David Glineur, University of Ottawa</td>
</tr>
<tr>
<td>10:35 AM - 10:50 AM</td>
<td>Tips and Tricks for Precise, Reproducible OPCAB</td>
<td>*John D. Puskas, Mount Sinai Saint Luke’s</td>
</tr>
<tr>
<td>10:50 AM - 11:05 AM</td>
<td>MIDCAB and Multivessel CABG via Thoracotomy</td>
<td>*Marc Ruel, University of Ottawa Heart Institute</td>
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### Robotic CABG

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>11:05 AM - 11:20 AM</td>
<td>Single Vessel LITA-LAD via Microthoracotomy</td>
<td>*Michael E. Halkos, Emory University at Midtown</td>
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<tr>
<td>11:20 AM - 11:35 AM</td>
<td>TECAB with Anastomotic Connectors</td>
<td>Husam H. Balkhy, University of Chicago</td>
</tr>
<tr>
<td>11:35 AM - 11:50 AM</td>
<td>Hybrid Coronary Revascularization</td>
<td>Francis P. Sutter, Lankenau Medical Center</td>
</tr>
<tr>
<td>11:50 AM - 12:00 PM</td>
<td>Panel Discussion</td>
<td>Gabriele Di Giammarco, University G D’Annunzio-Chieti</td>
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<td>*John D. Puskas, Mount Sinai Saint Luke’s</td>
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<td>*Marc Ruel, University of Ottawa Heart Institute</td>
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<td>Francis P. Sutter, Lankenau Medical Center</td>
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<tr>
<td>12:00 PM - 1:00 PM</td>
<td>Combined Luncheon Speaker</td>
<td>*Bruce A. Reitz, Stanford University</td>
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### Adult Cardiac Skills: Mitral Valve

#### Session I: Toolbox for Mitral Valve Repairs

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>8:05 AM - 8:15 AM</td>
<td>Direct Access Approaches</td>
<td>*Anelechi Anyanwu, Mount Sinai Health System</td>
</tr>
<tr>
<td>8:15 AM - 8:25 AM</td>
<td>Mini-thoracotomy Planning and Execution</td>
<td>Y. Joseph Woo, Stanford University</td>
</tr>
<tr>
<td>8:25 AM - 8:35 AM</td>
<td>Transeptal and Interatrial Groove Valve Exposure</td>
<td>Percy Boateng, Mount Sinai Health System</td>
</tr>
<tr>
<td>8:35 AM - 8:50 AM</td>
<td>Discussion</td>
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<tr>
<td>8:50 AM – 9:00 AM</td>
<td>Basic Resection Strategy</td>
<td>Gilles D. Dreyfus, Cardiothoracic Centre of Monaco</td>
</tr>
</tbody>
</table>
9:00 AM - 9:10 AM  Chordal Replacement Strategy

9:10 AM - 9:20 AM  Edge to Edge Strategy
*Ottavio R. Alfieri, University of Rochester

9:20 AM - 9:30 AM  Annulopasty Strategy

9:30 AM - 9:50 AM  Discussion

9:50 AM - 10:10 AM  Coffee Break

Session II:  Advanced Strategies

10:10 AM - 10:20 AM  Commissurotomy and Leaflet Stripping
Taweesak Chotivatanapong, Chest Disease Institute

10:20 AM - 10:30 AM  Patch Augmentation
*Vinay Badhwar, West Virginia University

10:30 AM - 10:45 AM  Complex Annular Pathology
*Tirone E. David, Toronto General Hospital

10:45 AM - 11:00 AM  Discussion

11:00 AM - 11:10 AM  Complex Endocarditis
Ahmed El-Eshmawi, Mount Sinai Health System

11:10 AM - 11:20 AM  Anterior Leaflet Prolapse

11:20 AM - 11:30 AM  Posterior Leaflet Restriction
*Patrick M. McCarthy, Northwestern University

11:30 AM - 12:00 PM  Discussion

12:00 PM - 1:00 PM  Combined Luncheon Speaker
*Bruce A. Reitz, Stanford University

AATS/SCAI Heart Team Summit
Saturday, April 28, 2018 | 9:00 AM – 12:00 PM

Course Chairs: Mort Kern, Long Beach VA Health Care System
*Vinod H. Thourani, MedStar Heart & Vascular Institute/Georgetown University

Mitral and Tricuspid Valve
Moderators: Kenneth Rosenfield, Massachusetts General Hospital
*Vinod H. Thourani, MedStar Heart & Vascular Institute/Georgetown University

Panelists: Ted Feldman, Evanston Hospital
Mort Kern, Long Beach VA Health Care System
Christian Shults, MedStar Heart & Vascular Institute

9:00 AM - 9:12 AM  The Future of Treating Mitral Regurgitation: Surgical and Transcatheter Replacement Techniques
*Vinod H. Thourani, MedStar Heart & Vascular Institute/Georgetown University

9:12 AM - 9:24 AM  The Future of Treating Mitral Regurgitation: Surgical and Transcatheter Repair Techniques
Ted Feldman, Evanston Hospital
9:24 AM – 10:00 AM  
Panel Discussion with Mock Heart Team  
Panelists: Ted Feldman, Evanston Hospital  
Mort Kern, Long Beach VA Health Care System  
Kenneth Rosenfield, Massachusetts General Hospital  
*Vinod H. Thourani, MedStar Heart & Vascular Institute/Georgetown University

Case One  
Christian Shults, MedStar Heart & Vascular Institute/Georgetown University

Case Two  
Ted Feldman, Evanston Hospital

Coronary Artery Disease  
Moderators: *Joseph Derose, Montefiore Medical Center  
Mort Kern, Long Beach VA Health Care System

Panelists: Azeem Khan, Louisiana State University  
Michael J. Lim, Saint Louis University  
*Hersh Maniar, Washington University

10:00 AM - 10:12 AM  
Patient Selection for Left Main Stenting: Who Should Have Surgery vs PCI  
Michael J. Lim, Saint Louis University

10:12 AM - 10:24 AM  
Hybrid CABG: Is It the Future?  
*Joseph Derose, Montefiore Medical Center

10:24 AM – 11:00 AM  
Panel Discussion with Mock Heart Team  
Panelists: *Joseph Derose, Montefiore Medical Center  
Mort Kern, Long Beach VA Health Care System

Michael J. Lim, Saint Louis University  
*Hersh Maniar, Washington University

Case One  
Azeem Khan, Louisiana State University

Case Two  
Michael J. Lim, Saint Louis University

Aortic Valve Disease  
Moderators: *S. Chris Malaisrie, Northwestern Memorial Hospital  
Kenneth Rosenfield, Massachusetts General Hospital  
Wil Suh, Long University of California Los Angeles

Panelists: Mark Russo, Barnabas Heart Hospital  
Molly Szerlip, The Heart Hospital Baylor Plano

11:00 AM - 11:12 AM  
The Changing Management of AS: Which Patients Should Still Have Surgery in 2018  
*S. Chris Malaisrie, Northwestern Memorial Hospital

11:12 AM - 11:24 AM  
Cross Training for TAVR: Is it Feasible?  
Molly Szerlip, The Heart Hospital Baylor Plano

11:24 AM – 11:58 AM  
Panel Discussion with Mock Heart Team  
Panelists: *S. Chris Malaisrie, Northwestern Memorial Hospital  
Kenneth Rosenfield, Massachusetts General Hospital  
Mark Russo, Barnabas Heart Hospital  
Wil Suh, Long University of California Los Angeles  
Molly Szerlip, The Heart Hospital Baylor Plano
Case One
Mark Russo, Barnabas Heart Hospital

Case Two
Molly Szerlip, The Heart Hospital Baylor Plano

11:58 AM – 12:00 PM  Closing Remarks
Mort Kern, Long Beach VA Health Care System
*Vinod H. Thourani, MedStar Heart & Vascular Institute/Georgetown University

Adult Cardiac Skills: Atrial Fibrillation
Ballrom 20D, SDCC
Best of AATS STARS: Surgical Treatment of Arrhythmias and Rhythm Disorders
Saturday, April 28, 2018 | 1:00 PM – 3:00 PM
Course Chair: *Ralph J. Damiano, Jr., Washington University

Concomitant Atrial Fibrillation Surgery: How I Do It

Mitral Surgery/AF Ablation

1:00 PM – 1:10 PM  Sternotomy Approach
*Patrick M. McCarthy, Northwestern University

1:10 PM – 1:20 PM  Right Minithoracotomy Approach
*Ralph J. Damiano, Jr., Washington University

AVR/CABG/AF Ablation

1:20 PM – 1:30 PM  CABG Off/On Pump
*John D. Puskas, Mount Sinai Saint Luke’s

1:30 PM – 1:40 PM  Panel Discussion

1:40 PM – 1:50 PM  MAZE 4 Procedure
Harold G. Roberts, Jr., West Virginia University Heart & Vascular Institute

1:50 PM – 2:00 PM  Panel Discussion

Lone Atrial Fibrillation Surgery: How I Do It

2:00 PM – 2:10 PM  Minimally Invasive Cryo-MAZE Procedure
*Niv Ad, West Virginia University

2:10 PM – 2:20 PM  Totally Thoracoscopic Approach
James Longoria, Sacramento Cardiovascular Surgeons Medical Group

2:20 PM – 2:30 PM  Hybrid Ablation

2:30 PM – 2:40 PM  Management of the Left Atrial Appendage

2:40 PM – 3:00 PM  Panel Discussion

* AATS Member   ** AATS New Member   + AmSECT Member
Adult Cardiac Skills: Aortic Root
Saturday, April 28, 2018 | 1:00 PM – 3:00 PM
Course Chair: *Y. Joseph Woo, Stanford University

Moderators: *Lars G. Svensson, Cleveland Clinic
*Y. Joseph Woo, Stanford University

1:00 PM - 1:12 PM  Leaflet Repair Techniques in TriLeaflet and BAV
*Y. Joseph Woo, Stanford University

1:12 PM - 1:24 PM  Annuloplasty: Subcommissural, IntraAnnular Suture Techniques, and External and Internal Rings
*Gebrine El-Khoury, University Catholique de Louvain

1:24 PM - 1:36 PM  Valve Sparing Aortic Root Replacement with the Remodeling Technique is the Optimal Approach
*Hans-Joachim Schaefers, University Hospital

1:36 PM - 1:48 PM  Valve Sparing Aortic Root Replacement with Reimplantation into a Straight Graft is the Most Durable Approach
*Tirone E. David, Toronto General Hospital

1:48 PM - 2:00 PM  Aortic Root Surgery for the Marfan Patient--Special Considerations
*Duke E. Cameron, Massachusetts General Hospital

2:00 PM - 2:12 PM  BioBentall with Future TAVR Valve-in-Valve is the Best Approach
*Joseph S. Coselli, Baylor College of Medicine

2:12 PM - 2:24 PM  Partial Sternotomy or Right Anterior Thoracotomy for Aortic Root and Arch Operations
*Eric E. Roselli, Cleveland Clinic

2:24 PM - 3:00 PM  Panel Discussion

-----------------------------------

Adult Cardiac Skills: Transcatheter Valve Therapies
Ballroom 20A, SDCC
Saturday, April 28, 2018 | 1:00 PM – 3:00 PM
Course Chair: * Wilson Y. Szeto, University of Pennsylvania

1:00 PM - 1:05 PM  Welcome and Introduction
*Wilson Y. Szeto, University of Pennsylvania

Aortic Valve
Moderators: *Wilson Y. Szeto, University of Pennsylvania
*Michael J. Reardon, Methodist DeBakey Heart Center

1:05 PM - 1:15 PM  Transfemoral TAVR for Surgeons: Challenging Scenarios and Complication
*Vinod H. Thourani, MedStar Heart & Vascular Institute

1:15 PM - 1:25 PM  Alternative Access TAVR: Tips and Tricks
*Michael J. Reardon, Methodist DeBakey Heart Center

1:25 PM - 1:35 PM  Cerebral Embolic Protection During TAVR
Saif Anwaruddin, University of Pennsylvania

1:35 PM - 1:45 PM  Transcatheter Valve in Valve Implantation for Failed Aortic and Mitral Bioprosthesis: Tips and Tricks
*Isaac George, New York Presbyterian Hospital

1:45 PM - 1:55 PM  Panel Discussion
### Mitral Valve

**Moderators:** *Wilson Y. Szeto, University of Pennsylvania*
*Mathew Williams, New York University*

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<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>1:55 PM - 2:05 PM</td>
<td>Transeptal Access: A &quot;How to Do It&quot; for Surgeons</td>
<td>Gilbert Tang, <em>Mount Sinai Health System</em></td>
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<tr>
<td>2:05 PM - 2:15 PM</td>
<td>Transcatheter Mitral Valve Repair: Edge to Edge Leaflet Repair</td>
<td><em>Mathew Williams, New York University</em></td>
</tr>
<tr>
<td>2:15 PM - 2:25 PM</td>
<td>Transcatheter Mitral Valve Repair: Direct and Indirect Annuloplasty</td>
<td>Paolo Denti, <em>San Raffaele University Hospital</em></td>
</tr>
<tr>
<td>2:25 PM - 2:35 PM</td>
<td>Transapical Chordal Repair for Mitral Regurgitation</td>
<td>Ahmed El-Eshwami, <em>Mount Sinai Health System</em></td>
</tr>
<tr>
<td>2:35 PM - 2:45 PM</td>
<td>Transcatheter Mitral Valve Replacement for Mitral Regurgitation</td>
<td><em>Wilson Y. Szeto, University of Pennsylvania</em></td>
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<tr>
<td>2:45 PM - 2:55 PM</td>
<td>Transcatheter Mitral Valve Replacement in Patients with Sever MAC</td>
<td>Robert L. Smith, <em>Baylor Scott &amp; White Cardiac Surgery Specialists</em></td>
</tr>
<tr>
<td>2:55 PM - 3:00 PM</td>
<td>Panel Discussion</td>
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### Congenital Skills: What Are We Doing Today to Improve Tomorrow

**Room 30ABC, SDCC**

**Saturday, April 28, 2018 | 8:00 AM – 5:00 PM**

**Course Chairs:**
+Ron Angona, *University of Oklahoma*
*James A. Quintessenza, Cincinnati Children's Hospital*
+Jim Reagor, *Cincinnati Children’s Hospital*
*Luca A. Vricella, Johns Hopkins Hospital*

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<tr>
<th>Time</th>
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<tr>
<td>8:00 AM - 8:10 AM</td>
<td>Welcome and Introduction</td>
<td><em>Luca A. Vricella, Johns Hopkins Hospital</em></td>
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<td><em>James A. Quintessenza, Cincinnati Children’s Hospital</em></td>
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<td>+Jim Reagor, Cincinnati Children’s Hospital*</td>
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#### Techniques for Creation and Repair of Cardiac Valves

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:10 AM - 8:25 AM</td>
<td>Tricuspidalization of the Bicuspid Aortic Valve</td>
<td><em>Viktor Hraska, Children's Hospital of Wisconsin</em></td>
</tr>
<tr>
<td>8:25 AM - 8:40 AM</td>
<td>Fundamental Concepts in Bicuspid Aortic Valve Repair</td>
<td><em>Hans-Joachim Schaefers, University Hospital</em></td>
</tr>
<tr>
<td>8:40 AM - 8:55 AM</td>
<td>The Ozaki Technique and Aortic Cusp Creation</td>
<td><em>Martin Kostolny, Great Ormond Street Hospital</em></td>
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<tr>
<td>8:55 AM - 9:10 AM</td>
<td>Support of the Ross Autograft</td>
<td><em>Vaughn A. Starnes, Keck School of Medicine</em></td>
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<tr>
<td>9:10 AM - 9:25 AM</td>
<td>ePTFE Valves and Conduits</td>
<td><em>James A. Quintessenza, Cincinnati Children’s Hospital</em></td>
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<tr>
<td>9:25 AM - 9:40 AM</td>
<td>Melody Valve in the Mitral Position in Infants and Small Children</td>
<td><em>Paul J. Chai, Morgan Stanley Childrens Hospital / Columbia University</em></td>
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<td>Time</td>
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<tr>
<td>9:40 AM - 9:55 AM</td>
<td>Repair of Common AV Valve in Univentricular Hearts</td>
<td>*Christian P. Brizard, <em>Royal Children's Hospital</em></td>
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<tr>
<td>9:55 AM - 10:10 AM</td>
<td>Truncal Valve Repair</td>
<td>*Michel N. Ilbawi, <em>Advocate Children’s Hospital</em></td>
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<tr>
<td>10:10 AM - 10:30 AM</td>
<td>Coffee Break</td>
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<tr>
<td>10:30 AM - 10:45 AM</td>
<td><em>My Mishap Is Your Mishap</em></td>
<td>*Thomas J. Yeh, Jr., <em>The Heart Centre, Children's Hospital of Richmond, Virginia Commonwealth University Health System</em> + <em>Christos Calaritis, The Heart Centre, Children's Hospital of Richmond, Virginia Commonwealth University Health System</em></td>
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<tr>
<td>10:45 AM - 11:00 AM</td>
<td><em>My Mishap Is Your Mishap</em></td>
<td>Richard W. Kim, <em>University of Southern California</em> + Anton Barnett, <em>University of Southern California</em></td>
</tr>
<tr>
<td>11:00 AM - 11:15 AM</td>
<td>Contemporary Trends in Pediatric Perfusion</td>
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<tr>
<td>11:15 AM - 11:30 AM</td>
<td>Optimizing Pediatric Perfusion Prime Strategies: Whole Blood vs. Component Therapy Considerations</td>
<td>+ <em>Thomas Klein, Vanderbilt University</em></td>
</tr>
<tr>
<td>11:30 AM - 11:45 AM</td>
<td>Prime Composition</td>
<td>+ <em>Jim Reagor, Cincinnati Children's Hospital</em></td>
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<tr>
<td>11:45 AM - 12:00 PM</td>
<td>Perfusion in Hypercyanotic Patients</td>
<td>+ <em>Ron Angona, University of Oklahoma</em></td>
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<tr>
<td>12:00 PM - 1:00 PM</td>
<td>Combined Luncheon Speaker</td>
<td>*Bruce A. Reitz, <em>Stanford University</em></td>
</tr>
<tr>
<td>1:00 PM - 1:15 PM</td>
<td>Surgeon's Perspective (How to Minimize Morbidity)</td>
<td>*Giles J. Peek, <em>Children's Hospital at Montefiore</em></td>
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<tr>
<td>1:15 PM - 1:30 PM</td>
<td>Perfusionist's Perspective</td>
<td>+ <em>Joey Timpa, Children's Hospital of Alabama</em></td>
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<tr>
<td>1:30 PM - 1:45 PM</td>
<td>Challenges in GUCH Operations</td>
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<td>GUCH Video One</td>
<td>*Gosta B. Petterson, <em>Cleveland Clinic</em></td>
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<tr>
<td>2:00 PM - 2:15 PM</td>
<td>GUCH Video Two</td>
<td>*Michael E. Mitchell, <em>Medical College of Wisconsin</em></td>
</tr>
<tr>
<td>2:15 PM - 2:30 PM</td>
<td>GUCH Video Three</td>
<td>*Kristine J. Guleserian, <em>Nicklaus Children's Cardiovascular Surgery</em></td>
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*Post-cardiotomy ECMO in 2018*

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<tr>
<td>1:15 PM - 1:30 PM</td>
<td>Perfusionist's Perspective</td>
<td>+ <em>Joey Timpa, Children's Hospital of Alabama</em></td>
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</tbody>
</table>

*Challenges in GUCH Operations*

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speakers</th>
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</thead>
<tbody>
<tr>
<td>1:30 PM - 1:45 PM</td>
<td>High Risk Re-entry: Strategic Approach</td>
<td>*Sertac Cicek, <em>Mayo Clinic</em></td>
</tr>
<tr>
<td>1:45 PM - 2:00 PM</td>
<td>GUCH Video One</td>
<td>*Gosta B. Petterson, <em>Cleveland Clinic</em></td>
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<tr>
<td>2:00 PM - 2:15 PM</td>
<td>GUCH Video Two</td>
<td>*Michael E. Mitchell, <em>Medical College of Wisconsin</em></td>
</tr>
<tr>
<td>2:15 PM - 2:30 PM</td>
<td>GUCH Video Three</td>
<td>*Kristine J. Guleserian, <em>Nicklaus Children's Cardiovascular Surgery</em></td>
</tr>
<tr>
<td>Time</td>
<td>Session Title</td>
<td>Speaker(s)</td>
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<tr>
<td>2:30 PM - 2:45 PM</td>
<td>Coffee Break</td>
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<tr>
<td>2:45 PM - 3:00 PM</td>
<td>When There is No Valve: Best Choice of Prosthesis for GUCH and Pediatric Patients</td>
<td>*Joseph A. Dearani, Mayo Clinic</td>
</tr>
<tr>
<td>3:00 PM - 3:15 PM</td>
<td>Is There a Role for Mechanical Prostheses in The Right Heart?</td>
<td>Tjark Ebels, University Medical Centre Groningen Thoraxcentrum</td>
</tr>
<tr>
<td>3:15 PM - 3:30 PM</td>
<td>Management of Bacterial Endocarditis in Native and Prosthetic Valves in Patients with Congenital Heart Disease</td>
<td>*Bahaaldin Alsoufi, Emory University</td>
</tr>
<tr>
<td>3:30 PM - 3:45 PM</td>
<td>Practice Variation and Standards in Perfusion</td>
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<tr>
<td>3:30 PM - 3:45 PM</td>
<td>Minimizing Practice Variation on Cardiopulmonary Bypass</td>
<td>+Jim Reagor, Cincinnati Children's Hospital</td>
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<tr>
<td>3:45 PM - 4:00 PM</td>
<td>How to Use Data to Minimize Practice Variation</td>
<td>Donald Likosky, University of Michigan</td>
</tr>
<tr>
<td>4:00 PM - 4:15 PM</td>
<td>Implementation of AmSECT’s Standards and Guidelines for Cardiopulmonary Bypass</td>
<td>+Molly Oldeen, Ann &amp; Robert H. Lurie Children’s Hospital of Chicago</td>
</tr>
</tbody>
</table>

General Thoracic Surgery Skills: Respecting the Past, Looking to the Future
Room 24ABC, SDCC
Saturday, April 28, 2018 | 8:00 AM – 5:00 PM
Course Chair: *Stephen C. Yang, Johns Hopkins Hospital
Course Co-Chair: **Daniela Molena, Memorial Solan Kettering Cancer Center

8:00 AM - 8:10 AM Welcome and Introduction
*Stephen C. Yang, Johns Hopkins Hospital

Session 1: Benign Esophagus: Choose Your Own Adventure
Moderator: *Andrew C. Chang, University of Michigan

8:10 AM - 8:25 AM Poetic Justice? Trading Achalasia for GERD with POEM
*Virginia R. Little, Boston University Medical Center

8:25 AM - 8:40 AM Leaving the Wrap Behind: LINX and Stretta for GERD
**Matthew Hartwig, Duke University

8:40 PM - 9:00 AM How I Teach It: Laparoscopic PEH
*Blair M. Marshall, Medstar Georgetown University Hospital

9:00 AM - 9:30 AM Clash of the Titans I: Giant PEH Debate: Open Belsey vs. Laparoscopic
*James D. Luketich, University of Pittsburgh Medical Center

9:30 AM - 10:00 AM Discussion

10:00 AM - 10:15 AM Coffee Break

Session 2: Minimally Invasive Esophagectomy: The Devil is in the Details
Moderator: *Mark Onaitis, University of California San Diego

Inderpal S. Sarkaria, UPMC Shadyside
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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>10:30 AM - 10:45 AM</td>
<td>How I Do It: Lymph Node Dissection</td>
<td>*Steven R. DeMeester, Oregon Clinic</td>
</tr>
<tr>
<td>10:45 AM - 11:00 AM</td>
<td>Making the Most of the Mosis: Anastomotic Techniques</td>
<td>*Gail E. Darling, Toronto General Hospital</td>
</tr>
</tbody>
</table>
| 11:00 AM - 11:30 AM | How I Teach It: Laparoscopic / VATS and Robotic Esophagectomy                 | **Daniela Molena, Memorial Sloan Kettering Cancer Center  
**Rishindra M. Reddy, University of Michigan Health System                                    |
| 11:30 AM - 12:00 PM | Discussion                                                                     |                                                                                                |
| 12:00 PM - 1:00 PM | Combined Luncheon Speaker                                                     | Ballroom 20A, SDCC  
*Bruce A. Reitz, Stanford University                                                          |

**Session 3: Pulmonary Resection: One Port, Two Ports, Three Ports and More...**

**Moderator:** *Kazuhiro Yasufuku, University of Toronto*

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<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>1:15 PM - 1:30 PM</td>
<td>Uniport Surgery: Lobectomy, Segmentectomy</td>
<td>*Diego Gonzalez-Rivas, Coruna University Hospital</td>
</tr>
<tr>
<td>1:30 PM - 1:45 PM</td>
<td>Needlescopic/ 2-Port VATS Lobectomy</td>
<td>Alan Sihoe, The University of Hong Kong</td>
</tr>
<tr>
<td>1:45 PM - 2:00 PM</td>
<td>Getting Fancy with Mediastinal Staging: Indication and Tools</td>
<td>*Todd L. Demmy, Roswell Park Cancer Institute</td>
</tr>
<tr>
<td>2:00 PM - 2:15 PM</td>
<td>It’s Not All About Technique: Teaching Judgement in the OR</td>
<td>*Shari Meyerson, Northwestern University</td>
</tr>
<tr>
<td>2:15 PM - 2:30 PM</td>
<td>How I Teach It: Robotic Lobectomy</td>
<td>*Robert J. Cerfolio, New York University</td>
</tr>
<tr>
<td>2:30 PM - 3:00 PM</td>
<td>Discussion</td>
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<tr>
<td>3:00 PM - 3:15 PM</td>
<td>Coffee Break</td>
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</table>

**Session 4: New Tech... New Toys**

**Moderator:** *Scott J. Swanson, Brigham & Women’s Hospital*

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>3:15 PM - 3:30 PM</td>
<td>PA Branch Sealing with High Energy Devices: Dream or Nightmare?</td>
<td>*Moishe Liberman, Centre Hosp De l’Universite de Montreal Division of Thoracic Surgery</td>
</tr>
<tr>
<td>3:30 PM - 3:45 PM</td>
<td>Aisle 5 Trachea &amp; Esophagus: Update in Tissue Engineering</td>
<td>*Rafael S. Andrade, University of Minnesota</td>
</tr>
<tr>
<td>3:45 PM - 4:00 PM</td>
<td>Where is That Small Nodule? Intraoperative Localization Techniques</td>
<td>*Sunil Singhal, University of Pennsylvania</td>
</tr>
<tr>
<td>4:00 PM - 4:15 PM</td>
<td>Looking into the Future: Applications of Virtual Reality into Surgical Planning</td>
<td>Rene Petersen, Department of Cardiothoracic Surgery</td>
</tr>
<tr>
<td>4:15 PM - 4:30 PM</td>
<td>The Coming Attractions of Robotic Technology</td>
<td>*Bernard J. Park, Memorial Sloan Kettering Cancer Center</td>
</tr>
<tr>
<td>4:30 PM - 5:00 PM</td>
<td>Discussion</td>
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</table>
Cardiothoracic Transplant and Mechanical Circulatory Support of Heart and Lung Failure

Saturday, April 28, 2018 | 8:00 AM – 3:00 PM

Room 28ABC, SDCC

Course Co-Chairs: *Ashish S. Shah, Vanderbilt University
+Rich Walczak, Duke University

8:00 AM - 8:05 AM
Welcome and Introduction
*Ashish S. Shah, Vanderbilt University

Heart Transplant

Moderators: *Ashish S. Shah, Vanderbilt University
+Rich Walczak, Duke University

8:05 AM - 8:20 AM
New UNOS Organ Allocation System: Updates
*Ashish S. Shah, Vanderbilt University

8:20 AM - 8:35 AM
MCS Strategies for Adults with Congenital Heart Disease
*David L. Morales, Cincinnati Children's Hospital

8:35 AM - 8:50 AM
Utilization of MCS for Primary Graft Dysfunction
*Pavan Alturi, University of Pennsylvania

8:50 AM - 9:20 AM
DCD Heart
Steven Tsui, Paperworth Hospital

9:20 AM - 9:35 AM
Transmedics OCS Heart
+Chris Diodato, Massachusetts General Hospital

9:35 AM - 9:50 AM
Transmedics OCS Heart
**David A. D'Alessandro, Jr., Massachusetts General Hospital

9:50 AM - 10:15 AM
Panel Discussion

10:15 AM - 10:30 AM
Coffee Break

ECMO

Moderators: +Desiree Bonadonna, Duke University
+Stuart McGrane, Vanderbilt University

10:30 AM - 10:50 AM
ECMO Transport Program: Design and Conquer
*Matthew Bacchetta, Columbia University

10:50 AM - 11:10 AM
ECMO Transport Selection: Personnel, Devices and Patients
Mani A. Daneshmand, Duke University
+Desiree Bonadonna, Duke University

11:10 AM - 11:25 AM
ECMO Program Management: The Impact of Regionalization and Economics
Scott C. Silvestry, Florida Hospital

11:25 AM - 11:50 AM
eCPR Selections: Personnel, Devices and Patients
Lionel Lamhaut, Université Paris Descartes

11:50 AM - 12:00 PM
Panel Discussion

12:00 PM - 1:00 PM
Combined Luncheon Speaker
*Bruce A. Reitz, Stanford University

Ballroom 20A, SDCC

Not for Credit
Mechanical Circulatory Support

Moderators: **David A. D'Alessandro, Jr., Massachusetts General Hospital
Keki Balsara, Washington University

1:00 PM - 1:12 PM BiVAD Video
Victor (Gert) Pretorius, UC San Diego Health

1:12 PM - 1:24 PM RVAD after LVAD: Incidence, Selection and Management
Jan Schmitto, Hannover Medical School

1:24 PM - 1:36 PM Sternal Sparing Approaches to LVAD Video
Matthew R. Danter, Vanderbilt University

1:36 PM - 1:48 PM Advanced Rescue Techniques for LVAD Complications
Nahush A. Mokadam, University of Washington

1:48 PM - 2:00 PM Implications of Momentum 3 Trial for Design, Patient Selection
*Jonathan W. Haft, University of Michigan

Lung Transplant

Moderators: *Charles Hoopes, University of Alabama at Birmingham
Richard-Tien Ha, Stanford University

2:00 PM - 2:12 PM Intraoperative Support for Lung Transplant: Which Pump and Why?
*Shaf Keshavjee, Toronto General Hospital

2:12 PM - 2:24 PM Intraoperative Support for Lung Transplant
+Cyril Serrick, University Health Network

2:24 PM - 2:36 PM EVLP: Here to Stay or Going Away?
Gabriel Loor, Cleveland Clinic

2:36 PM - 2:48 PM EVLP Video
*Marcelo Cypel, Toronto General Hospital

2:48 PM - 3:10 PM Discussion

Surgical Ethics Course
Room 28DE, SDCC

Saturday, April 28, 2018 | 8:00 AM – 3:00 PM
Course Co-Chairs: *Thomas A. D’Amico, Duke University
+Bob Groom, Maine Medical Center
*Susan D. Moffatt-Bruce, Ohio State University

8:00 AM - 8:15 AM Welcome and Introduction
*Susan D. Moffatt-Bruce, Ohio State University

8:15 AM - 9:15 AM Keynote Address: Ethical Issues of Genomics/Precision Medicine
David C. Magnus, PhD, Stanford University

9:15 AM - 9:30 AM Ethical Use of Social Media
**Thomas K. Varghese, Jr., University of Utah

9:30 AM - 9:45 AM Should Live Surgical Broadcasts Still be Considered Unethical?
*Joseph E. Bavaria, University of Pennsylvania

9:45 AM - 10:15 AM Panel Discussion
Moderator: *Susan D. Moffatt-Bruce, Ohio State University
10:15 AM - 10:45 AM  Coffee Break

10:45 AM - 11:00 AM  Organ Donation Without the Dead Donor Rule  
Robert M. Sade, *Medical University of South Carolina*

11:00 AM - 11:15 AM  Informed Consent, Comparative Effectiveness, and Learning Health Care  
Leslie J. Kohman, *Upstate Medical University*

11:15 AM - 11:45 AM  Panel Discussion  
Moderator: +Bob Groom, *Maine Medical Center*

12:00 PM - 1:00 PM  Combined Luncheon Speaker  
*Bruce A. Reitz, Stanford University*  
**Not for Credit**

1:00 PM - 1:15 PM  Expert Witness Testimony: Is it Ethical to Consistently Refuse to Testify for Plaintiffs  
John E. Mayer, *Boston Children’s Hospital*

1:15 PM - 1:30 PM  How Much Space Should There Be Between Innovation and Research?  
*Shaf Keshavjee, Toronto General Hospital*

1:30 PM - 2:00 PM  Panel Discussion  
Moderator: Richard I. Whyte, *Beth Israel Deaconess Medical Center*

2:00 PM - 2:15 PM  ECMO: The Science and Ethics of Candidacy  
**Matthew Harwig, Duke University**

2:15 PM - 2:30 PM  What Do We Owe Opioid Addicts with Recurrent Endocarditis?  
John W. Entwistle, III, *Jefferson University*

2:30 PM - 2:45 PM  Conscientious Objection: Should Professional Societies Declare Conscientious Objection Unethical?  
Puja G. Khaitan, *Medstar Washington Hospital Center*

2:45 PM - 3:00 PM  Panel Discussion  
Moderator: Kathleen Fenton, *William Novick Global Cardiac Alliance*

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**Protecting the Brain During Heart Surgery**  
Ballroom 20A, SDCC

Saturday, April 28, 2018 | 3:15 PM – 5:15 PM  

**Course Chairs:**  
+Tim Dickinson, *Mayo Clinic*  
*John D. Puskas, Mount Sinai Saint Luke’s*  
*Ashish S. Shah, Vanderbilt University*  
+Rich Walczak, *Duke University*

3:10 PM - 3:15 PM  Welcome and Introduction  

+Al Stammers, *SpecialtyCare*

3:25 PM - 3:35 PM  Adjuncts to Cardioplegia for Myocardial Protection: Role of Topical Cooling, Insulating Pads, LV Venting, and Fibrillation  
Sandhya Balaram, *Mount Sinai Medical Center*
Alternative Cardioplegia Solutions for Adult Cardiac Surgery: Blood/Custodial/Del Nido Expert Opinions

3:35 PM - 3:45 PM   Custodial is the Best

3:45 PM - 3:55 PM   Del Nido is the Best
   *Craig R. Smith, Columbia University

3:55 PM - 4:05 PM   Blood Cardioplegia (Microplegia) is the Best
   *Anelechi C. Anyanwu, Mount Sinai Medical Center

4:05 PM - 4:15 PM   St. Thomas Solution is the Best
   *Kenton J. Zehr, Johns Hopkins Hospital

4:15 PM - 4:30 PM   Panel Discussion: How I Delivery Cardioplegia and Protect the Heart

Best Practices for Cannulation and Clamping in CABG and Valvular Surgery

4:30 PM - 4:40 PM   Central vs Peripheral Cannulation for Non-Sternotomy Procedures
   *Joseph Lamelas, Baylor St. Luke’s Medical Center

4:40 PM - 4:50 PM   Strategies and Devices to Mitigate Against Atheroembolism
   *Michael J. Mack, The Heart Institute at Baylor

4:50 PM - 5:00 PM   Best Perfusion Practices for Cerebral Protection: BP/CPB Flow Management, Temperature, Alpha vs pH Stat Management
   +Tim Dickinson, Mayo Clinic

5:00 PM - 5:15 PM   Panel Discussion: Avoiding Stroke in Cardiac Surgery

Survival Guide: Your First Night on Call
Saturday, April 28, 2018 | 1:00 pm - 5:00 pm
Rooms 23B & 23C, SDCC
Not for Credit
Course Chairs: *Thomas A. D’Amico, Duke University
   *Abe DeAnda, Jr., University of Texas

Designed to present early trainees and the surgical team with common clinical scenarios which they may encounter, with the emphasis being on problem-solving and communication rather than standard lectures. The course will be comprised of eight hands-on stations located in two separate rooms. Participants will be split into four groups and each group will spend 25 minutes at each station learning how to recognize, assess, and manage common post-operative complications and issues and well as develop skills for transferring this knowledge to other members of the team.

1:00 PM – 3:00 PM   Groups 1-4 will rotate through Stations 1, 3, 5, 7

3:00 PM – 5:00 PM   Groups 1-4 will rotate through Stations 2, 4, 6, 8

Stations Topics and Faculty:

Station 1: ECHO Reading/Cath
   Jeffrey G. Gaca, Duke University

Station 2: Acute Chest Pain
   Bradley G. Leshnower, Emory University

Station 3: Respiratory Failure
   David D. Odell, Northwestern University

Station 4: VAD
   *Leora B. Balsam, New York University
## Enhanced Recovery after Cardiac Surgery

**Room 29AB, SDCC**  
**Saturday, April 28, 2018 | 1:00 PM – 5:00 PM**  
**Not for Credit**

### Session 1: Background and Overview

**Moderators:**  
**Daniel T. Engelman, Baystate Medical Center**  
**Ed Boyle, St. Charles Medical Center**

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenters</th>
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</thead>
</table>
| 1:00 PM – 1:15 PM | Introduction and Overview of ERACS Goals  
**Daniel T. Engelman, Baystate Medical Center** | |
| 1:15 PM – 1:30 PM | Fast Track Cardiac Surgery Revisited and Enhanced  
**Richard M. Engelman, Baystate Medical Center** | |
| 1:30 PM – 1:45 PM | The History of ERAS and Why it is the Standard of Care for all Specialties  
Gudrun Kunst, King’s College Hospital | |
| 1:45 PM – 2:00 PM | Modeling and Validating: Economic Justifications for ERACS Interventions using Real World Data  
Ed Boyle, St. Charles Medical Center | |
| 2:00 PM – 2:15 PM | Networking and Refreshment Break | |

### Session 2: Select ERACS Iterative Expert Consensus Statements

**Moderators:**  
**Louis P. Perrault, Institute of Cardiologie de Montreal**  
**Marc W. Gerdisch, St. Francis Heart Center**

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenters</th>
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</thead>
</table>
| 2:15 PM – 2:30 PM | I Applaud Your “Expert” Guideline Efforts, But I’m Not Going to Change My Practice of 20 Years  
**Kevin W. Lobdell, Carolinas Healthcare System** | |
| 2:30 PM – 2:45 PM | Prehabilitation: “Frailty and the Value of PREHAB in the Older Adult Undergoing Cardiac Surgery”  
**Rakesh C. Arora, St. Boniface General Hospital** | |
| 2:45 PM – 3:00 PM | Perioperative Glycemic Control and Early ERACS Data Including Preoperative Carbohydrates  
Judson Williams, WakeMed Health and Hospitals | |
| 3:00 PM – 3:15 PM | Enhanced Recovery by Minimizing Opioid Use After Cardiac Surgery  
**Eric E. Roselli, Cleveland Clinic** | |
| 3:15 PM – 3:30 PM | Networking and Refreshment Break | |

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*AATS Member  **AATS New Member  +AmSECT Member*
### Session 3: Near Future Directions in ERACS

**Moderators:** *Kevin W. Lobdell, Carolinas Healthcare System  
Eric E. Roselli, Cleveland Clinic*

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<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
<th>Institution</th>
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<tbody>
<tr>
<td>3:30 PM – 3:45 PM</td>
<td>Options for Sternal Closure and Prevention of Wound Infection “An Economic Imperative”</td>
<td>Marc W. Gerdisch</td>
<td>St. Francis Heart Center</td>
</tr>
<tr>
<td>3:45 PM – 4:00 PM</td>
<td>Multimodal Approaches to Reduce Postoperative AKI</td>
<td>John Kellum</td>
<td>University of Pittsburgh Critical Care</td>
</tr>
<tr>
<td>4:00 PM – 4:15 PM</td>
<td>Modern Chest Tube Strategies to Reduce Complications and Costs</td>
<td>*Louis P. Perrault</td>
<td>Institute of Cardiologie de Montreal</td>
</tr>
<tr>
<td>4:15 PM – 4:30 PM</td>
<td>Reducing Readmission after Cardiac Surgery</td>
<td>**Daniel T. Engelman</td>
<td>Baystate Medical Center</td>
</tr>
<tr>
<td>4:30 PM – 4:45 PM</td>
<td>Implementing an ERACS Program</td>
<td>V. Seenu Reddy</td>
<td>Centennial Heart &amp; Vascular Center</td>
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<tr>
<td>4:45 PM – 5:00 PM</td>
<td>ERACS Symposium Wrap-Up</td>
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AATS Innovation Summit  
Sunday, April 30, 2017  
Room 29AB, SDCC

Sunday, April 29, 2018 | 7:30 AM – 11:30 AM  
Not for Credit

Course Chairs:  
* W. Randolph Chitwood, Jr., East Carolina University  
* Michael J. Mack, Baylor Health Care System, The Heart Hospital

Program Committee:  
* Yolonda L. Colson, Brigham and Women’s Hospital/Harvard Medical School  
* J. Michael DiMaio, Baylor Scott & White Health  
* Mark D. Rodefeld, Indiana University School of Medicine  
* Todd K. Rosengart, Baylor College of Medicine  
* Y. Joseph Woo, Stanford University

7:30 AM – 7:40 AM  
Surgeon Innovators: They Did It and So Can You!  
* W. Randolph Chitwood, Jr., East Carolina University

Session I: Ideation – What Matters and How to Get There  
Moderator:  
* Todd K. Rosengart, Baylor College of Medicine

7:40 AM – 7:53 AM  
Artificial Intelligence and the Future of Healthcare  
* J. Michael DiMaio, Baylor Scott & White Health

7:53 AM – 8:06 AM  
Generating Great Ideas!  
* Todd K. Rosengart, Baylor College of Medicine

8:06 AM - 8:19 AM  
How Do You Fund Your Idea?  
Peter Boyd, Edwards Lifesciences

8:19 AM-8:32 AM  
Entrepreneurialism: Competitive or Synergistic for Your Career?  
* A. Marc Gillinov, Cleveland Clinic Foundation

Session II: Protecting and Building Your Idea  
Moderator:  
* Yolonda L. Colson, Brigham and Women’s Hospital/Harvard Medical School

8:32 AM – 8:45 AM  
How to Protect Your IP  
Martin J. Waters, Wilson Sonsini Goodrich & Rosati

8:45 AM - 8:58 AM  
Prototyping and Testing  
* James S. Gammie, University of Maryland Medical Center

8:58 AM – 9:11 AM  
Is There a Market for Your “Device”?  
Andrew Cleeland, Fogarty Institute

9:11 AM – 9:31 AM  
Panel Discussion

9:31 AM – 9:45 AM  
Coffee Break

Keynote Address

9:45 AM – 9:50 AM  
Introduction  
* Michael J. Mack, Baylor Health Care System, The Heart Hospital

9:50 AM - 10:10 AM  
Medical Technology: What Does Wall Street Think?  
Lawrence Biegelsen, Wells Fargo
Session III: Commercialization – Where Ideas Live or Die
Moderator: *Mark D. Rodefeld, Indiana University School of Medicine

10:10 AM – 10:23 AM New Initiatives the FDA Has Taken to Facilitate Innovation in the U.S.
John C. Laschinger, U.S. Food and Drug Administration

10:23 AM – 10:36 AM The Valley of Death: What Is It and How to Cross It
Al Gianchetti, XyloCor Therapeutics

Session IV: Industry Discussion
Moderator: *Y. Joseph Woo, Stanford University

10:36 AM – 10:49 AM How Do Big Companies Stay as Innovators
Larry Wood, Transcatheter Heart Valves - Edwards Lifesciences

10:49 AM – 11:02 AM From an Idea – to Startup – to Commercialization: True Success Story
Daniel S. Oh, Intuitive Surgical, Inc.

11:02 AM – 11:25 AM Industry Panel Discussion

11:25 AM – 11:30 AM Conclusion
*W. Randolph Chitwood, Jr., East Carolina University
*Michael J. Mack, Baylor Health Care System, The Heart Hospital

AATS/STS Adult Cardiac Surgery Symposium
Ballroom 20A, SDCC
Sunday, April 29, 2018 | 7:30 AM – 3:00 PM
Course Chairs: +Tim Dickinson, Mayo Clinic
*John D. Puskas, Mount Sinai Saint Luke’s

7:30 AM - 7:32 AM Welcome and Introduction
*John D. Puskas, Mount Sinai Saint Luke’s

Session A: CABG

7:32 AM - 7:44 AM Evidence for BITA Grafting in 2018 Including Insights from the ART Trial
*David P. Taggart, University of Oxford

7:44 AM - 7:56 AM What is the Second Best Conduit?
Mario F.L. Gaudino, Weill Cornell Medicine

7:56 AM - 8:08 AM Arterial Graft Configurations and When to Use Them
*Joseph F. Sabik, III, University Hospitals of Cleveland

8:08 AM - 8:20 AM Prevention and Management of DSWI After CABG
*Harold L. Lazar, Boston Medical Center

8:20 AM - 8:32 AM CABG Without Aortic Manipulation
Michael Vallely, Sydney Heart & Lung Surgeons

8:32 AM - 8:45 AM Coronary Endarterectomy/Full Metal Jacket
*Heinz G. Jakob, West German Heart Center

8:45 AM - 9:15 AM Special Invited Lecture
CABG: Where Have We Been, Where Are We Going?
*Bruce W. Lytle, The Heart Institute at Baylor

9:15 PM - 9:45 AM Coffee Break
### Session B: Ischemic Mitral Regurgitation

**9:45 AM - 10:00 AM**  
**Moderate Ischemic Mitral Regurgitation: CABG Alone or CABG Plus MV Repair?**  
*Robert Michler, Montefiore Medical Center*

**10:00 AM - 10:15 AM**  
**Severe Ischemic Mitral Regurgitation: CABG Plus MV Repair or CABG Plus MV Replacement?**  
*Michael A. Acker, University of Pennsylvania*

**10:15 AM - 10:30 AM**  
**Techniques for MV Repair in Ischemic MR: Rings, Slings, Sutures, Subvalvular Techniques**  
*Gilles D. Dreyfus, Cardiothoracic Centre of Monaco*

**10:30 AM - 10:45 AM**  
**Role of MitraClip in Ischemic MR**  
*Mathew R. Williams, New York University*

**10:45 AM - 11:25 AM**  
**Debate: Severe Ischemic MR Should be Replaced, Not Repaired in 2018**  
Moderator: *John D. Puskas, Mount Sinai Saint Luke’s*  
Pro: *A. Marc Gillinov, Cleveland Clinic*  
Con: *Irving L. Kron, UVA Health System*

**11:30 AM - 12:30 PM**  
**Legends Luncheon: A Conversation with Dr. George Green**  
*George E. Green, St. Luke’s Roosevelt Hospital*  
*Not for Credit*

### Session C: Aortic Dissection/Valve-in-Valve/Concomitant AF Ablation

**Type A Dissection with Malperfusion/Mesenteric Ischemia**

**12:30 PM - 12:45 PM**  
**How to Repair an Uncomplicated Type A Dissection with <5% Mortality**  
*Lars G. Svensson, Cleveland Clinic*

**12:45 PM - 1:00 PM**  
**Outcomes with Conventional Repair of Complicated Type A Dissections with Malperfusion**  
*Joseph E. Bavaria, University of Pennsylvania*

**1:00 PM - 1:15 PM**  
**Role of Fenestration and Extra-Anatomic Bypass**  
*Allan S. Stewart, Mount Sinai Hospital*

**1:15 PM - 1:30 PM**  
**Cannulation and Perfusion Strategies for Managing the Type A Dissection with Malperfusion**  
*Joseph S. Coselli, Baylor College of Medicine*

**Biological Prostheses (Including TAVR) in the 50 Year Old Patient: What Are The Implications of Planned Valve-in-Valve?**

**1:30 PM - 1:45 PM**  
**Expert Opinion #1: TAVR Should Be the First Procedure, with Planned Valve-in-Valve**  
*Rajendra Makkar, Cedars-Sinai Medical Center*

**1:45 PM - 2:00 PM**  
**Expert Opinion #2: Surgical AVR with Bioprosthesis Should Be the First Procedure, with Planned Valve-in-Valve**  
*Clifford W. Barlow, Southampton General Hospital*

**2:00 PM - 2:15 PM**  
**Expert Opinion #3: Surgical AVR with the On-X Mechanical Prosthesis Should Be the first (and Last) Procedure**  
*John D. Puskas, Mount Sinai Saint Luke’s*

**Concomitant Surgical Ablation for AF in the CABG and Valve Patient**

**2:15 PM - 2:30 PM**  
**Is There a Benefit and What are the Complications of Concomitant Surgical Ablation of AF?**  
*Niv Ad, West Virginia University*

**2:30 PM - 3:00 PM**  
**Debate: Which Lesions for Which Patients? - Left Atrial Lesions Only**  
*Ralph J. Damiano, Jr., Washington University*  
*A. Marc Gillinov, Cleveland Clinic Foundation*
## AATS/STS Congenital Heart Disease Symposium: What Are We Doing Today to Improve Tomorrow

### Room 30ABC, SDCC

**Sunday, April 29, 2018 | 7:30 AM – 3:00 PM**

**Course Chairs:**
+ Ron Angona, *University of Oklahoma*
* Viktor Hraska, *Children's Hospital of Wisconsin*
+ Jim Reagor, *Cincinnati Children's Hospital*
* Luca A. Vricella, *Johns Hopkins Hospital*

### 7:30 AM - 7:40 AM
**Welcome and Introduction**
* Luca A. Vricella, *Johns Hopkins Hospital*
* Viktor Hraska, *Children's Hospital of Wisconsin*
+ Ron Angona, *University of Oklahoma*

### How Small Is Too Small: Decision Making and Techniques

#### 7:40 AM - 7:55 AM
**Aortic Arch Hypoplasia / Coarctation**
* Victor T. Tsang, *Great Ormond St. Hospital for Children NHS Trust*

#### 7:55 AM - 8:10 AM
**Interrupted Aortic Arch with Small Aortic Root**
* James S. Tweddell, *Cincinnati Children's Hospital Medical Center*

#### 8:10 AM - 8:25 AM
**Warm Perfusion During Aortic Arch Reconstruction in Neonates**
James Hammel, *Children's Hospital & Medical Center*

#### 8:25 AM - 8:40 AM
**Borderline LV: Criteria and Novel Methods for a Biventricular Circulation**
* Sitaram M. Emani, *Boston Children's Hospital*

#### 8:40 AM - 8:55 AM
**Let it Go: Is a Single Ventricle Always Better for Borderline Left Hearts**
* Richard G. Ohye, *University of Michigan Frankel Cardiovascular Center*

#### 8:55 AM - 9:10 AM
**Isolated Congenital Mitral Valve Stenosis, When to Abandon the Biventricular Circulation**
* Christian P. Brizard, *Royal Children's Hospital*

#### 9:10 AM - 9:25 AM
**Unbalanced Atroventricular Septal Defect**
* David P. Bichell, *Vanderbilt University*

#### 9:25 AM - 9:40 AM
**Pulmonary Atresia with Intact Ventricular Septum with Borderline Tricuspid Valve**
* Emile A. Bacha, *Children's Hospital of New York*

#### 9:40 AM - 10:10 AM
**Coffee Break**

### Cardiopulmonary Bypass in Neonates <2 Kg

#### 10:10 AM - 10:25 AM
**Outcomes in Small Neonates**
* Marshall L. Jacobs, *Johns Hopkins Hospital*

#### 10:25 AM - 10:40 AM
**Surgical Perspective**
* V. Mohan Reddy, *University of California San Francisco*

#### 10:40 AM - 10:55 AM
**Perfusionist Perspective: CPB for the Sub-2000 Gram Neonate: Techniques, Strategies, and Lessons Learned**
+ Chelsea Capone, *University of California San Francisco*

#### 10:55 AM - 11:10 AM
**Neonatologist / Intensivist Perspective**
Ganga Krishnamurthy, *Children’s Hospital of New York*

#### 11:30 AM - 12:30 PM
**Legends Luncheon**
* Thomas L. Spray, *Children’s Hospital of Philadelphia*

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* AATS Member  ** AATS New Member  + AmSECT Member
Congenitally Corrected Transposition of the Great Arteries

12:30 PM - 12:45 PM  Anatomy  
Paul Weinberg, Children’s Hospital of Philadelphia

12:45 PM – 1:00 PM  Natural History of CCTGA: Implications for Different Treatment Pathways  
Heidi M. Connolly, Mayo Clinic

1:00 PM - 1:15 PM  Physiological Repair and Palliation of CCTGA: Is It Ever Appropriate and For Which Patient?  
*Christopher A. Caldarone, Hospital for Sick Children

1:15 PM - 1:30 PM  Left Ventricular Training: Feasibility and Effectiveness – What Are The Limits  
David Barron, Birmingham Children’s Hospital

1:30 PM – 1:45 PM  Anatomic Repair: The Double Switch (and Complications)  
*Viktor Hraska, Children's Hospital of Wisconsin

1:45 PM - 2:00 PM  Anatomical Repair of CCTGA the Senning-Rastelli and Hemi-Mustard  
*Frank L. Hanley, Stanford University

2:00 PM - 2:15 PM  Late Systemic Ventricular Function, Late Systemic AV Valve Function  
*Joseph A. Dearani, Mayo Clinic

2:15 PM - 2:30 PM  Mechanical Support and Transplantation for End-Stage Dysfunction with cCTGA  
*David L. Morales, Cincinnati Children's Hospital

2:30 PM – 3:00 PM  Panel Discussion

-----------------------------------------------

AATS/STS General Thoracic Surgery Symposium: Interdisciplinary Patient-Centered Care: It Takes a Team  
Room 25ABC, SDCC  
Sunday, April 29, 2018 | 7:30 AM – 3:00 PM

Course Chair:  *Stephen C. Yang, Johns Hopkins Hospital
Course Co-Chair:  **Betty Tong, Duke University

7:30 PM - 7:40 AM  Welcome and Introduction  
*Stephen C. Yang, Johns Hopkins Hospital

Session 1: Lung  
Moderator:  *Haiquan Chen, Fudan University Shanghai Cancer Center

7:40 AM - 8:00 AM  AJCC Eighth Edition Staging Changes for NSCLC  
*Harvey I. Pass, New York University

8:00 AM - 8:15 AM  Still Dreaming About Screening? Obstacles in Lung Cancer Screening  
*Doug Wood, University of Washington

8:15 AM - 8:30 AM  Immunotherapy Update for NSCLC: Truths and Alternative Facts  
*Jessica S. Donington, New York University

8:30 AM - 8:45 AM  Surgery for Oligomet NSCLC: When is Resection Indicated?  
*John D. Mitchell, University of Colorado

8:45 AM - 9:00 AM  Small Cell Lung Cancer: Pushing the Surgical Role  
*Stephen C. Yang, Johns Hopkins Hospital

9:00 AM - 9:15 AM  Chemo, Bemp, Remo, Ablato: Options for Pulmonary Metastases  
*Hiran C. Fernando, Inova Health System
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<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tr>
<td>9:15 AM - 9:45 AM</td>
<td>Panel Discussion</td>
<td>*Haiquan Chen, <em>Fudan University Shanghai Cancer Center</em></td>
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<td>9:45 AM - 10:00 AM</td>
<td>Coffee Break</td>
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<tr>
<td>10:00 AM - 10:15 AM</td>
<td>Session 2: Esophagus</td>
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<tr>
<td>10:00 AM - 10:15 AM</td>
<td>AJCC Eighth Edition Staging Changes for Esophageal Cancer</td>
<td>*Sudish C. Murthy, <em>Cleveland Clinic</em></td>
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| 10:15 AM - 10:45 AM | Clash of the Titans II: Definitive Chemo Rads vs. Surgery for Squamous Cell Carcinoma         | *Wayne L. Hofstetter, *M.D. Anderson Cancer Center*  
*Anthony E. Lerut, *University Hospital Leuven*                                          |
| 10:45 AM - 11:00 AM | Non-functioning Gastric Tubes / Gastric Outlet Obstruction                                  |                                                                                                |
| 11:00 AM - 11:15 AM | Paraconduit Hernias                                                                          | *Benny Weksler, *University of Tennessee*                                                         |
| 11:15 AM - 11:30 AM | Panel Discussion                                                                             |                                                                                                |
| 11:30 AM - 12:30 PM | Legends Luncheon                                                                             | *Mark B. Orringer, *University of Michigan*                                                      |
|               | Session 3: ERAS and Interdisciplinary Care in General Thoracic Surgery: It Takes a Team      |                                                                                                 |
|               | **Moderators:** Emily Kluck, *Johns Hopkins Hospital*                                       |                                                                                                 |
|               | *David C. Rice, *Anderson Cancer Center*                                                      |                                                                                                 |
| 12:40 PM - 12:45 PM | Introduction of ERAS                                                                         | **Betty Tong, *Duke University*                                                                   |
| 12:45 PM - 1:00 PM | After the Incision is Healed: Patient Advocacy and Survivorship Education                    | Mindy Mordecai, *Esophageal Cancer Action Network*                                               |
| 1:00 PM - 1:15 PM | Optimizing the Geriatric Patient: How to Screen for Frailty                                  | *Mark K. Ferguson, *University of Chicago*                                                       |
| 1:15 PM - 1:30 PM | Perioperative Pain Management in the Anti-Narcotic Era                                        | Padma Gulur, *Duke University*                                                                   |
| 1:30 PM - 1:45 PM | Intraoperative Anesthetic Strategies in Thoracic Surgery                                     | David Amar, *Memorial Sloan-Kettering Cancer Center*                                             |
| 1:45 PM - 2:00 PM | At the Crossroads of Dogma and Data: Compromising on Pathways for Drains, Feedings, and Tubes | Emily Kluck, *Johns Hopkins Hospital*                                                            |
| 2:00 PM - 2:30 PM | The Patient's Voice: PROs and Survivorship                                                    | *Benjamin D. Kozower, *Washington University*                                                     |
| 2:30 PM - 3:00 PM | Panel Discussion                                                                             |                                                                                                |

*AATS Member  **AATS New Member  +AmSECT Member*
Interprofessional Cardiothoracic Team Symposium: Improving Systems of Care, Quality, and Safety  Room 28DE, SDCC
Sunday, April 29, 2018 | 7:30 AM – 5:00 PM

Course Chairs: Marci Damiano, Washington University
Katherine J. Hoercher, Cleveland Clinic
+Jeff Riley, SUNY Upstate Medical University
David E. Lizotte, Jr., APAVCS
*Glenn J. Whitman, John Hopkins Hospital

In Collaboration with the Association of Physician Assistants in Cardiovascular Surgery (APACVS)

7:30 AM - 7:40 AM Welcome and Introduction
*Glenn J. Whitman, John Hopkins Hospital

Current Topics in ICU ECMO

V-A ECMO

7:40 AM - 8:00 AM Harlequin Syndrome, Indications for VAV ECMO
Chris Sciortino, University of Pittsburgh

8:00 AM - 8:20 AM Weaning from VA ECMO: Algorithms, Myocardial Recovery Strategies
Scott C. Silvestry, Florida Hospital

8:20 AM - 8:40 AM Avoiding Pitfalls of VA ECMO
Jay Pal, University of Washington

8:40 AM - 9:00 AM Panel Discussion

9:00 AM - 9:15 AM Coffee Break

V-V ECMO

*Matthew Bacchetta, Columbia University

9:35 AM - 9:55 AM Optimizing VV ECMO: Troubleshooting Low SPO2: Indication for RV-PA ECMO, When to Switch to VA ECMO
*Jonathan W. Haft, University of Michigan

9:55 AM - 10:15 AM VA and VV ECMO Monitoring: The Optimal Checklists, What are the Line Items and Why?
**David A. D’Alessandro, Jr., Massachusetts General Hospital
+Jeff Riley, SUNY Upstate Medical University

10:15 AM - 10:30 AM Panel Discussion

ECPR

10:30 AM - 10:50 AM ECPR / ED Outcomes - The Reanimateur
Lionel Lamhaut, Université Paris Descartes

10:50 AM - 11:10 AM ECMO for EMT’s: View From the US
*Ashish S. Shah, Vanderbilt University

11:10 AM - 11:30 AM Panel Discussion

11:30 AM - 12:30 AM Legends Luncheons
*George E. Green  Taking place in Ballroom 20A, SDCC
*Mark B. Orringer  Taking place in Room 25ABC, SDCC
*Thomas L. Spray  Taking place in Room 30ABC, SDCC

Not for Credit
**Moderators:** Marci Damiano, *Washington University*  
Katherine J. Hoercher, *Cleveland Clinic Foundation*

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<tbody>
<tr>
<td>12:30 PM - 12:45 PM</td>
<td>Prediction of Transfusions After Isolated CABG: The PERForm Registry</td>
<td>Tim Dickinson, <em>Mayo Clinic</em></td>
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<tr>
<td>12:45 PM - 1:00 PM</td>
<td>Directed Perfusion: Eliminating Acute Kidney Injury</td>
<td>H. Lynne Harness, <em>Johns Hopkins Hospital</em></td>
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<tr>
<td>1:00 PM - 1:15 PM</td>
<td>ICU Delirium: Risk Factors, Recognition and Outcomes</td>
<td>Rakesh Arora, St. Boniface General Hospital</td>
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<tr>
<td>1:15 PM - 1:30 PM</td>
<td>Quality Improvement Interventions to Decrease Prolonged Mechanical Ventilation</td>
<td>Vinay Badhwar, <em>West Virginia University</em></td>
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<tr>
<td>1:30 PM - 1:45 PM</td>
<td>Management of Airway Complications in the ICU</td>
<td>Siva Raja, <em>Cleveland Clinic</em></td>
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<tr>
<td>1:45 PM - 2:00 PM</td>
<td>Arrhythmia and Pacemaker Management</td>
<td>David E. Lizotte, Jr., <em>APAVCS</em></td>
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<tr>
<td>2:00 PM - 2:15 PM</td>
<td>Penalty of Prolonging the Hospital Stay vs. Risk of Readmission for the Complex Cardiothoracic Surgery Patient</td>
<td>Hersh S. Maniar, <em>Washington University</em></td>
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<tr>
<td>2:15 PM - 2:30 PM</td>
<td>Implementing a Fast Track Protocol for the TAVR Program</td>
<td>Marci Damiano, <em>Washington University</em></td>
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<tr>
<td>2:30 PM - 2:45 PM</td>
<td>Panel Discussion</td>
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<td>2:45 PM - 3:00 PM</td>
<td>Coffee Break</td>
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**Quality and Safety**

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<tr>
<td>3:00 PM - 3:15 PM</td>
<td>Safety in Perfusion</td>
<td>Robert A. Baker, <em>Flinders Medical Centre and Flinders University</em></td>
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<tr>
<td>3:15 PM - 3:30 PM</td>
<td>Safety in the OR</td>
<td>Jake H. Abernathy, III, <em>Johns Hopkins Hospital</em></td>
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<td>3:30 PM - 3:45 PM</td>
<td>The State of Michigan Environment, Creating a Culture of Safety</td>
<td>Richard L. Prager, <em>University of Michigan</em></td>
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<tr>
<td>3:45 PM - 4:00 PM</td>
<td>The Role of Leadership in High Performance</td>
<td>Thoralf M. Sundt, III, <em>Massachusetts General Hospital</em></td>
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<tr>
<td>4:00 PM - 4:15 PM</td>
<td>What Cardiothoracic Team Can Learn From Elite Performers: A Perspective on High Performance / Preventing Harm from a Non - Health Care Professional</td>
<td>Brian Ferguson, <em>Arena Labs</em></td>
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<td>4:30 PM - 5:00 PM</td>
<td>Panel Discussion</td>
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Cardiothoracic Careers College (CCC)

Sunday April 29th, 2018 | 7:30 AM – 3:00 PM

Course Chairs: *Joanna Chikwe, Mount Sinai Hospital
Amy G. Fiedler, Massachusetts General Hospital
*Thoralf M. Sundt, III, Massachusetts General Hospital
*Thomas K. Varghese, Jr., University of Utah

Introduction

7:30 AM – 7:40 AM  Breakfast and Welcome

Session 1: Career Moves

7:40 AM - 7:50 AM  Beginning an Academic Career
*A. Marc Gillinov, Cleveland Clinic

7:50 AM - 8:00 AM  Deciding Between Private and Academic Practice
Sara J. Pereira, University of Alabama

8:00 AM - 8:10 AM  How to Plan a Job Search
*Robert S. Higgins, Johns Hopkins Hospital

8:10 AM - 8:20 AM  The Recruitment Visit and Interview
*Thomas K. Varghese, Jr., University of Utah

8:20 AM - 8:30 AM  Mentors, Sponsors, and Effective Networking
Mara B. Antonoff, UT MD Anderson Cancer Center

8:30 AM - 8:45 AM  Moderated Panel Discussion

8:45 AM - 9:00 AM  Coffee Break

Session 2: Operative Skills

9:00 AM - 9:15 AM  Learning, Teaching, and Leading in the OR
*Y. Joseph Woo, Stanford University

9:15 AM - 9:30 AM  Your Report Card, Your Metrics
*Julie A. Swain, Mount Sinai Hospital

9:30 AM - 9:45 AM  How to Develop Independence and Proficiency
*Shari Meyerson, Northwestern University

9:45 AM - 10:00 AM  Moderated Panel Discussion

10:00 AM - 10:15 AM  Coffee Break

Session 3: Practice Development

10:15 AM - 10:30 AM  Practice Finances: What You Need to Know
*David T. Cooke, University of California

10:30 AM - 10:40 AM  How to Develop a Clinical Program
*Ourania Preventza, Texas Heart Institute

10:40 AM - 10:50 AM  How to Negotiate
*Ralph J. Damiano, Jr., Washington University

10:50 AM - 11:00 AM  Leadership and Managing Up
*Robert S. Higgins, Johns Hopkins Hospital
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<th>Time</th>
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<tr>
<td>11:00 AM - 11:15 AM</td>
<td>Time Management</td>
<td>*Shanda H. Blackmon, Mayo Clinic</td>
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<tr>
<td>11:15 AM - 11:30 AM</td>
<td>Building Your Clinical Practice</td>
<td>*Thomas K. Varghese, Jr., University of Utah</td>
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<tr>
<td>11:30 AM - 12:30 PM</td>
<td>Legends Luncheons (Not for Credit)</td>
<td>*George E. Green, Taking place in Ballroom 20A, SDCC</td>
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<td>*Thomas L. Spray, Taking place in Room 30ABC, SDCC</td>
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**Session 4: Personal Development**

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<tr>
<td>12:30 PM - 12:40 PM</td>
<td>How to Deal with Disruptive Behavior</td>
<td>*Virginia R. Litle, Boston University</td>
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<tr>
<td>12:40 PM - 12:50 PM</td>
<td>How to Deal with Bias</td>
<td>*Jessica S. Donington, New York University</td>
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<td>12:50 PM - 1:00 PM</td>
<td>Resilience</td>
<td>*Thoralf M. Sundt, III, Massachusetts General Hospital</td>
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<td>1:00 PM - 1:30 PM</td>
<td>Question and Answer with the Dean and CEO</td>
<td>Moderator: Amy Fielder, Massachusetts General Hospital</td>
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**Session 5: Next Level**

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<tr>
<td>1:30 PM - 1:45 PM</td>
<td>Getting Off to a Good Start: Goals and Priorities for the First 5 Years</td>
<td>*Yolanda L. Colson, Brigham and Women’s Hospital</td>
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<tr>
<td>1:45 PM - 1:55 PM</td>
<td>How to Write Great Papers and Reviews: View from JTCVS</td>
<td>*Y. Joseph Woo, Stanford University</td>
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<tr>
<td>1:55 PM - 2:10 PM</td>
<td>How I Got my First RO1</td>
<td>*Thomas K. Varghese, Jr., University of Utah</td>
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<tr>
<td>2:10 PM - 2:20 PM</td>
<td>How I Got my First NEJM Paper</td>
<td>Andrew Goldstone, University of Pennsylvania</td>
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<td>2:20 PM - 2:30 PM</td>
<td>How to Prepare for Leadership</td>
<td>*Jennifer S. Lawton, Johns Hopkins Hospital</td>
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<td>2:30 PM</td>
<td>Wrap-up</td>
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<td>2:30 PM - 3:00 PM</td>
<td>1:1 Question and Answer</td>
<td>*Shanda H. Blackmon, Mayo Clinic</td>
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