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Irving L. Kron, MD Welcomes You to Philadelphia

Welcome to the 91st AATS Annual Meeting! We are very pleased with the robust educational program developed by our Program and Planning Committees which provides a variety of learning opportunities for each participant. The AATS remains steadfastly committed to education and scholarship and I believe our committees have carefully crafted new content to meet the needs of a broader scope of participants.

This weekend, AATS will unveil its Physician Assistant, Nurse Practitioner and Perfusionist program, chaired by Michael Argenziano, MD. Another highlight of the weekend activities will be a half-day session presented by our colleagues from the Royal College of Surgeons of Edinburgh entitled, “High Performance Teams in the Operating Room: Using the NOTSS Program (“Non-Technical Skills for Surgeons”) to Improve Communication, Understanding and Performance”. This unique session will focus on the underlying human factors and non-technical skills which enable or hinder surgical performance.

I am honored that Dr. Susan B. Shurin, Acting Director at the National Heart, Lung and Blood Institute at NIH, accepted my invitation to serve as the Basic Science Lecturer during Monday morning’s session. Dr. Michael J. Mack of Dallas, the current President of the STS, will present the Honored Speaker Lecture during Tuesday morning’s session.

Two late-breaking presentations have been added to the Plenary Session. On Monday morning there will be an update on the PARTNER Clinical Trial while the final presentation on Monday afternoon will address SYNTAX Outcomes.

We once again will have programming and demonstrations of Cardiac and General Thoracic Operating Rooms of the Future and will unveil an ICU of the Future in the Exhibit Hall from Sunday through Tuesday. The latter will include the latest technological advances in monitoring, connectivity, “smart room” applications, remote display imaging, advanced information technology, communications and point of care laboratory testing used in CT critical care.

Wednesday morning begins with a session on “Sex and Gender: The Impact on Disease and Patient Outcomes in Cardiothoracic Surgery” chaired by Dr. Yolonda Colson followed by a lively debate on TAVI featuring Drs. D. Craig Miller and Craig R. Smith. I am also excited to hold a second debate on Wednesday morning entitled “For the Care of the Cardiothoracic Surgery Patient, the Canadian System is Superior to the U.S.” Dr. Carlos Mestres will moderate while Drs. Tirone E. David and G. Alec Patterson engage in a spirited debate.

On behalf of the AATS Council and leadership I once again welcome you to Philadelphia and look forward to your active participation in the discussion we believe this program will engender. I hope to see you Tuesday night at the Special Reception at the National Constitution Center to enjoy live music, the Statue Gallery and interpretive displays at America’s most interactive museum.
AATS—Promoting Scholarship in Thoracic and Cardiovascular Surgery

Founded in 1917, the American Association for Thoracic Surgery (AATS) is an international organization consisting of over 1,200 of the world’s foremost cardiothoracic surgeons representing 35 countries. Surgeons must have a proven record of distinction within the cardiothoracic surgical field and have made meritorious contributions to the extant knowledge base about cardiothoracic disease and its surgical treatment to be considered for membership. The Annual Meeting, research grants and awards, educational symposia and courses, and the AATS official journal, The Journal of Thoracic and Cardiovascular Surgery, all strengthen its commitment to science, education and research.

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 educational activity for a maximum of 36.25 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

American Academy for Nurse Practitioners (AANP) Accreditation

This program is approved for 16.25 contact hours of continuing education by the American Academy of Nurse Practitioners. Program ID 1103113.

This program was planned in accordance with AANP CE Standards and Policies and AANP Support Standards.

American Academy of Physician Assistants (AAPA) Accreditation

This program has been reviewed and is approved for a maximum of 16.25 hours of AAPA Category I CME credit by the Physician Assistant Review Panel. Physician assistants should claim only those hours actually spent participating in the CME activity.

This program was planned in accordance with AAPA's 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 designates this educational activity for a maximum of 39.9 Category 1 CEUs.

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

**Saturday, May 7, 2011 – up to 7.75 hours (CME, AANP, AAPA, ABCP)**
- Physician Assistant/Nurse Practitioner/Perfusionist Program, up to 7 hours
- Adult Cardiac Skills, up to 3.75 hours
- Congenital Skills, up to 3.5 hours
- General Thoracic Skills, up to 3.5 hours
- Developing the Academic Surgeon, up to 4 hours
- High Performance Teams in the Operating Room: Using the NOTSS Program (“Non-Technical Skills for Surgeons”) to Improve Communication, Understanding and Performance, up to 3 hours

**Sunday, May 8, 2011 – up to 8.5 hours (CME, AANP, AAPA, ABCP)**
- Adult Cardiac Surgery, up to 8.5 hours
- Cardiothoracic Critical Care, up to 8 hours
- Congenital Heart Disease, up to 8 hours
- General Thoracic Surgery, up to 8 hours
- C. Walton Lillehei Resident Forum, up to 2 hours

**Monday, May 9, 2011 – up to 7.5 hours (CME, ABCP)**
- Plenary Scientific Session, Basic Science Lecture, Presidential Address, up to 3.75 hours
- Adult Cardiac Surgery Simultaneous Session, up to 2.5 hours
- Congenital Heart Disease Simultaneous Session, up to 2.5 hours
- General Thoracic Surgery Simultaneous Session, up to 2.5 hours
- Coronary Artery Disease in 2011 and Beyond: What The Surgeon Needs To Know About Three Year Syntax Outcomes, Other Randomized Controlled Trials in CAD and the New CABG Guidelines, up to 1.25 hours
Tuesday, May 10, 2011 – up to 7.5 hours (CME, ABCP)
- Adult Cardiac Surgery Forum, up to 1.75 hours
- General Thoracic Surgery Forum, up to 1.75 hours
- Plenary Scientific Session, Honored Speaker Lecture, up to 3.5 hours
- Adult Cardiac Surgery Simultaneous Session, up to 2.25 hours
- Aortic/Endovascular Simultaneous Session, up to 2.25 hours
- Congenital Heart Disease Simultaneous Session, up to 2.25 hours
- General Thoracic Surgery Simultaneous Session, up to 2.25 hours

Wednesday, May 11, 2011 – up to 5 hours (CME, ABCP)
- Emerging Technologies and Techniques Forum, up to 2 hours
- Sex and Gender: The Impact on Disease and Patient Outcomes in Cardiothoracic Surgery, up to 1.5 hours
- Controversies in Cardiothoracic Surgery, 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/CE Kiosks/Letter of Attendance

Attendees may obtain CME (Continuing Medical Education) and CE credits and Letter of Attendance at the CME/CE Pavilion located on the 200 Level of the Convention Center adjacent to Registration. The CME/CE Pavilion computers will allow attendees to manage their CME/CE credits and Letter of Attendance for the Annual Meeting and/or email their information to their personal email address. At the end of the Annual Meeting, attendees may print their CME/CE certificate and/or Letter of Attendance. Following the Annual Meeting, attendees may access their CME/CE information and/or Letter of Attendance at http://ceu.experient-inc.com/aat111.

Statement of Need

Cancer and cardiovascular disease 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:

- Assess the latest techniques and current research specifically related to Adult Cardiac Surgery, General Thoracic Surgery and Congenital Heart Disease.
- Analyze the pros and cons of each paper presented to gain an overall perspective of their current practices.
- Select appropriate surgical procedures and other interventions for their own patients based upon results presented.
- Integrate state-of-the-art knowledge into their current practice.
- Identify the basic science developments and emerging technologies and techniques across the spectrum of cardiothoracic surgery.
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
- Allied Health Professionals involved in the care of cardiothoracic surgical patients including Nurses, Physician Assistants, Surgical Assistants and Perfusionists
- Medical students with an interest in cardiothoracic surgery

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™ must disclose any financial interest or other relationship (grant, research support, consultant, etc.) that individual has with any manufacturer(s) of any commercial product(s) that may be discussed in the individual’s presentation. This information is 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.

Acknowledgements

We would like to thank the following companies for their support of this educational activity through educational grants:

Medtronic
St. Jude Medical, Inc.

We would like to thank the following companies for their exhibit support:

A & E Medical Corporation  AtriCure, Inc.
Abbott Vascular  Atrium Medical Corporation
ABIOMED, Inc.  Baxter Healthcare
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Acute Innovations  BFW, Inc.
Aesculap Inc.  Biomet Microfixation
American College of Surgeons  Boss Instruments, Ltd.
Applied Fiberoptics/Vitalcor  Cadence Pharmaceuticals
California Medical Laboratories
Cardiogenesis Corp.
CardioNet
Cardiovascular Research Foundation
CareFusion
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Philips Healthcare
Pioneer Surgical Technology
Plasma Surgical, Inc.
Precision Therapeutics
Qualiteam s.r.l.
Quest Medical Inc.
RMD Instruments Corp.
Rose Micro Solutions
Rultract/Pemco Inc.
Rumex International
Scanlan International, Inc.
SIC Brevetti SRL
Siemens Medical Solutions USA, Inc.
Society for Heart Valve Disease
Society of Thoracic Surgeons
Sontec Instruments Inc.
Sorin Group
St. Jude Medical, Inc.
STS DC Office
superDimension, Inc.
Surgical Acuity, Inc.
Surgitel/General Scientific Corp
SynCardia Systems, Inc.  
Synthes CMF  
Teleflex Medical  
Terumo Cardiovascular Systems  
Thoracic Surgery Foundation for Research and Education  
Thoramet Surgical Products  
Thoratec Corporation  
Transonic Systems, Inc.  
USB Medical, Ltd.  
ValveXchange, Inc.  
Vision-Sciences, Inc.  
Vitalitec  
Wexler Surgical Supplies  
Wiley Blackwell

We would like to thank the following companies for their marketing support:

Abiomed, Inc.  
Baxter Healthcare  
Belmont Instrument  
Cardiopulmonary Corp.  
CareFusion  
Clear Catheter Systems  
Covidien  
Draeger Medical, Inc.  
Edwards Lifesciences  
Epocal, Inc.  
Ethicon-Endo Surgy, Inc.  
GE Healthcare  
Hutchinson Technology, Inc.  
ImaCor  
iMDsoft  
Instrumentation Laboratory Company  
InTouch Health  
Karl Storz Endoscopy-America, Inc.  
Lippincott Williams & Wilkins  
Maquet Cardiovascular  
Medi-Stim  
Medtronic, Inc.  
METI * Learning  
mVisum  
Nonin Medical, Inc.  
Olympus Medical Systems  
On-X Life Technologies, Inc  
Philips Medical Systems  
Pronia Medical Systems, LLC  
Radiometer America, Inc.  
Scanlan  
Siemens Medical Solutions USA  
Sorin Group  
St. Jude Medical, Inc.  
Stryker Medical  
Transonic Systems, Inc.  
Vascutek, Ltd.  
Vocera

We would like to thank the following companies for their support of:

**Cardiac Hybrid OR of the Future®**

Philips Healthcare  
Karl Storz Endoscopy-America, Inc.  
Maquet  
Nonin Medical, Inc.  
Siemens  
Sorin Group  
Transonic Systems

**General Thoracic Hybrid OR of the Future®**

Belmont Instruments  
Covidien  
Draeger Medical Inc.  
Olympus America, Inc.  
Scanlan International  
Siemens Healthcare  
Steris Corporation
ICU of the Future©
Abiomed
Cardiopulmonary Corp.
Carefusion
Clear Catheter Systems
Epocal, Inc.
GE Healthcare
Hutchinson Technology
ImaCor, Inc.
iMDsoft
Instrumentation Laboratory
InTouch Health
METI® Learning
mVisum
Pronia Medical Systems
Radiometer America, Inc.
Stryker, Medical Inc.
Vocera Communications

Camera, Recording, Cell Phone and No-Smoking Policies
Due to privacy issues, it is the policy of AATS that no cameras are permitted in the meeting sessions or exhibit hall. Please refrain from taking photos in these locations. Audio and videotaping is also prohibited.

For the courtesy of all faculty and participants, please ensure that cell phone ringers are silenced during all sessions. Smoking is not permitted in the Convention Center, Hotels or Special Event Venues.

Coat and Luggage Check
A complimentary coat and luggage check will be located in the Grand Hall of the Convention Center.

Service will be provided during the following dates and times:

<table>
<thead>
<tr>
<th>Date</th>
<th>Times</th>
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<tr>
<td>Saturday, May 7</td>
<td>6:30 a.m. – 5:00 p.m.</td>
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<tr>
<td>Sunday, May 8</td>
<td>6:30 a.m. – 7:00 p.m.</td>
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<td>Monday, May 9</td>
<td>6:30 a.m. – 6:15 p.m.</td>
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<td>Tuesday, May 10</td>
<td>6:30 a.m. – 5:00 p.m.</td>
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<tr>
<td>Wednesday, May 11</td>
<td>6:30 a.m. – 12:30 p.m.</td>
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Course Information
Pre-registration for all of the Saturday Courses and Sunday Symposia is required. Due to the large volume of registrants for these courses, we STRONGLY suggest registering Friday or Saturday to avoid delays.

Badges will be scanned at all Saturday and Sunday ticketed events in place of tickets. Please remember to have your badge ready at the door.
Saturday Courses

The **Adult Cardiac Skills Course** will take place on Saturday, May 7, 2011 in Ballroom AB of the PACC from 8:00 a.m. – 12:00 noon. Pre-registration is required.

The **Congenital Skills Course** will take place on Saturday, May 7, 2011 in 201 ABC of the PACC from 8:00 a.m. – 12:00 noon. Pre-registration is required.

The **General Thoracic Skills Course** will take place on Saturday, May 7, 2011 in 204 ABC of the PACC from 8:00 a.m. – 12:00 noon. Pre-registration is required.

The **Developing the Academic Surgeon Symposium** will take place on Saturday, May 7, 2011 in 204 ABC of the PACC from 1:00 p.m. – 5:10 p.m. Pre-registration is required.

**The High Performance Teams in the Operating Room: Using the NOTSS Program (“Non-Technical Skills for Surgeons”) to Improve Communication, Understanding and Performance** will take place on Saturday, May 7, 2011 in 201 ABC of the PACC from 1:00 p.m. – 4:00 p.m. Pre-registration is required.

The **Physician Assistant/Nurse Practitioner/Perfusionist Program** will take place on Saturday, May 7, 2011 in 108 AB of the PACC from 8:00 a.m. – 5:00 p.m. Pre-registration is required.

Sunday AATS/STS Postgraduate Symposia

The **Adult Cardiac Surgery Symposium** will take place on Sunday, May 8, 2011 in Ballroom AB of the PACC from 7:55 a.m. – 5:00 p.m. A boxed lunch will be offered in the room. Pre-registration is required.

The **Cardiothoracic Critical Care Symposium** will take place on Sunday, May 8, 2011 in 108 AB of the PACC from 8:00 a.m. – 5:00 p.m. A boxed lunch will be offered in the room. Pre-registration is required.

The **Congenital Heart Disease Symposium** will take place on Sunday, May 8, 2011 in 201 ABC of the PACC from 7:55 a.m. – 5:00 p.m. A boxed lunch will be offered in the room. Pre-registration is required.

The **General Thoracic Surgery Symposium** will take place on Sunday, May 8, 2011 in 204 ABC of the PACC from 8:00 a.m. – 5:00 p.m. A boxed lunch will be offered in the room. Pre-registration is required.
Cardiothoracic Residents’ Luncheon – *Ticketed Event*

The 34th Annual Cardiothoracic Residents’ Luncheon will begin at 12:15 p.m. on Monday, May 9, 2011 in 103 ABC of the PACC. Physicians in cardiothoracic residency programs and medical students interested in attending this luncheon as guests of the AATS must be pre-registered for the luncheon. You will receive a ticket with your registration materials.

There is limited seating.

Ethics Forum Luncheon: Use of Transcatheter Aortic Valve Implantation Should Be Rationed – *Ticketed Event*

*Chair:* Robert M. Sade, MD, Medical University of South Carolina

The Ethics Forum Luncheon will begin at 12:15 p.m. on Monday, May 9, 2011 in 105 AB of the PACC. This debate is on the ethical issue of health care rationing. TAVI is often used in elderly patients with multiple co-morbidities who are not candidates for open valve replacement. Many of these patients have limited social support, leading to very extended hospital stays because of insufficient rehabilitation facilities. This disproportionately large utilization of hospital resources may compromise scheduling of elective cardiothoracic surgery cases. Should patients who are eligible for TAVI but are elderly with multiple co-morbidities be denied this procedure? Pre-registration is required.

There is limited seating.

**Exhibits**

The Exhibit Hall will be in Hall A on the 200 Level of the PACC. The Exhibit hall will be open during the following hours:

- **Sunday, May 8**: 5:00 p.m. – 7:00 p.m. (Welcome Reception)
- **Monday, May 9**: 9:00 a.m. – 4:30 p.m. (Breaks – 9:20 a.m. – 10:00 a.m., 3:20 p.m. – 3:55 p.m., Lunch – 12:15 p.m. – 2:00 p.m.)
- **Tuesday, May 10**: 9:00 a.m. – 4:00 p.m. (Breaks – 10:05 a.m. – 10:40 p.m., 3:00 p.m. – 3:45 p.m., Lunch – 12:30 p.m. – 2:00 p.m.)

**Operating Rooms of The Future: Hybrid Technologies**

Interactive Exhibits

Sunday, May 8 – Tuesday, May 10 in Exhibit Hall A

**Educational Program: Building the Hybrid Operating Rooms of the Future**

Monday, May 9 1:00 p.m. – 5:30 p.m. in 108 AB
ICU of the Future: Interactive Exhibit

Sunday, May 8 – Tuesday, May 10 in Exhibit Hall A

The AATS will feature Cardiac and General Thoracic OR displays and a related didactic session. An ICU of the Future will be showcased providing a first hand glimpse into what the future holds for CT surgical critical care.

Welcome Reception and Lunches

A Welcome Reception will be held on Sunday, May 8, 2011 from 5:00 p.m. – 7:00 p.m. in Exhibit Hall A of the PACC. All registered members, non-members, allied health personnel, spouses and guests are invited to attend. Please note that children will be allowed in the Exhibit Hall during the reception only and must be accompanied by an adult. Children under 16 years of age will not be allowed in the Exhibit Hall at any other time. Lunch will be available for purchase in the Exhibit Hall on Monday, May 9 and Tuesday, May 10. Professional registrants will be provided with a coupon ($10 value) found with their name badge to offset the cost of lunch. Complimentary morning and afternoon coffee breaks will also be held in Exhibit Hall A.

Hospitality Suite

The Hospitality Suite, located in Room 310 on the 300 Level of the Philadelphia Downtown Marriott, will be open during the following dates and times:

- Sunday, May 8: 8:00 a.m. – 4:00 p.m.
- Monday, May 9: 8:00 a.m. – 4:00 p.m.
- Tuesday, May 10: 8:00 a.m. – 4:00 p.m.
- Wednesday, May 11: 8:00 a.m. – 12:00 p.m.

Staff will be on hand throughout the meeting to greet you, answer your questions and be of assistance to you and your family. Special optional tours have been arranged for Saturday, Sunday, Monday and Tuesday.

Registration

Registration will be located on the 200 Level Bridge of the PACC. Registration will take place during the following hours:

- Friday, May 6: 1:00 p.m. – 5:00 p.m.
- Saturday, May 7: 6:30 a.m. – 5:00 p.m.
- Sunday, May 8: 6:30 a.m. – 6:00 p.m.
- Monday, May 9: 6:30 a.m. – 5:00 p.m.
- Tuesday, May 10: 6:30 a.m. – 5:00 p.m.
- Wednesday, May 11: 6:30 a.m. – 12:00 p.m.
a.) Badges must be worn at all times and will be required for admission to the Sessions and Exhibit Hall.

b.) To avoid lines in the registration area, we strongly suggest that attendees register on Friday, May 6 and Saturday, May 7.

c.) House Officers, Fellows, Residents and Medical Students will be admitted without payment of the non-member registration fee if they pre-registered. If not pre-registered, registration fees will be assessed. Proof of Fellowship is required.

**Special Accessibility Needs**

If you require special accommodations to fully participate in the meeting, please visit the Registration Area at the Pennsylvania Convention Center and an AATS staff member will be happy to assist you.

**Speaker Ready Room**

The Speaker Ready Room is located in 202AB of the PACC. It is critical that ALL speakers visit the Speaker Ready Room at least 2 hours before presenting to ensure their presentation has been properly loaded and any embedded video or media files work with the audiovisual system. **Please note: presentations will NOT be loaded in the meeting rooms. Personal laptops will NOT be used in the session rooms.**

The Speaker Ready Room will be open during the following dates and times:

- **Friday, May 6** 1:00 p.m. – 6:00 p.m.
- **Saturday, May 7** 6:30 a.m. – 6:00 p.m.
- **Sunday, May 8** 6:30 a.m. – 6:00 p.m.
- **Monday, May 9** 6:30 a.m. – 6:00 p.m.
- **Tuesday, May 10** 6:00 a.m. – 6:00 p.m.
- **Wednesday, May 11** 6:00 a.m. – 12:00 p.m.
Presentation and Discussion Guidelines

Speaker and Discussant Guidelines

Discussion of Papers: Members, non-member physicians and invited speakers have the privilege of discussing papers. Discussants are limited to 2 minutes and must limit their discussion to specific questions directly related to the author’s presentation. All discussion will be presented from floor microphones and may not be accompanied by slides.

<table>
<thead>
<tr>
<th>Program</th>
<th>Presentation</th>
<th>Discussion</th>
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<td>Plenary Sessions</td>
<td>8 minutes</td>
<td>12 minutes*</td>
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<tr>
<td>Simultaneous Sessions</td>
<td>8 minutes</td>
<td>12 minutes*</td>
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<tr>
<td>Adult Cardiac &amp; General Thoracic Forum Sessions</td>
<td>5 minutes</td>
<td>5 minutes*</td>
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<tr>
<td>Emerging Technologies &amp; Techniques Forum</td>
<td>6 minutes</td>
<td>5 minutes*</td>
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<tr>
<td>Lillehei Resident Forum</td>
<td>7 minutes</td>
<td>8 minutes*</td>
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<tr>
<td>Controversies in Cardiothoracic Surgery Debates</td>
<td>8 minutes each x 2 Rebuttals (7 minutes each)</td>
<td>15 minutes</td>
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</tbody>
</table>

*All discussants are limited to 2 minutes

1. Submission and acceptance of an abstract constitutes a commitment by the Author(s) to present the material at the AATS Annual Meeting. The work must not have been submitted, presented or published in abstract or manuscript form elsewhere prior to the AATS 91st Annual Meeting in May 2011. Failure to meet this requirement without prior approval of the Association will jeopardize a presenter’s further acceptance of abstracts for presentation and/or publication. The AATS Council seriously regards and adheres to the submission/presentation policy and will strictly enforce sanctions upon all authors who fail to meet the policies outlined in the rules for submission and presentation of abstracts once submitted. Any questions should be addressed to the Secretary of the Association, Thoralf M. Sundt, III, MD.

2. Papers presented at the meeting in the Plenary and Simultaneous Sessions shall become the property of the Association. They shall be submitted electronically to the JTCVS Editor prior to presentation (http://www.editorialmanager.com/jtcvs) and NO LATER than MAY 9, 2011 at 5:00 p.m. EST. To expedite review and publication the Editor requests that submission occur one month prior to the Annual Meeting.
3. The AATS strongly encourages Cardiac Surgery Forum, General Thoracic Surgery Forum, Emerging Technologies and Techniques Forum and Lillehei Forum presenters to submit their manuscript to the JTCVS Editor although the requirement for manuscript submission to the JTCVS does not apply to these sessions. If you do not plan to submit, please notify the JTCVS Editor at JTCVS@aats.org. Should you submit, papers must be submitted electronically to the JTCVS Editor prior to presentation (http://www.editorialmanager.com/jtcvs/) and NO LATER than MAY 9, 2011 at 5:00 p.m. EST. To expedite review and publication the Editor requests that submission occur one month prior to the meeting.

**Special Events**

**Sunday, May 8, 2011**

- **14th Annual C. Walton Lillehei Resident Forum Session**
  - **105 AB**
  - 3:00 p.m. – 5:00 p.m.
- **Welcome Reception**
  - **Exhibit Hall A**
  - 5:00 p.m. – 7:00 p.m.

**Monday, May 9, 2011**

- **Business Session**
  - **Ballroom AB**
  - (AATS Members Only)
  - 7:30 a.m.
- **Basic Science Lecture**
  - **Ballroom AB**
  - 10:00 a.m.
- **Presidential Address**
  - **Ballroom AB**
  - 11:25 a.m.
- **Exhibit Hall Lunch**
  - **Exhibit Hall A**
  - 12:15 p.m. – 2:00 p.m.
- **Cardiothoracic Residents Luncheon**
  - **Pre-registration required**
  - **103 ABC**
  - 12:15 p.m. – 2:00 p.m.
- **Ethics Forum Luncheon: Use of Transcatheter Aortic Valve Implantation Should Be Rationed**
  - **Pre-registration required**
  - **105 AB**
  - 12:15 p.m. – 2:00 p.m.
## Tuesday, May 10, 2011

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<td>Honored Guest Lecture</td>
<td>11:40 a.m.</td>
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<tr>
<td>Exhibit Hall Lunch</td>
<td>12:30 p.m. – 2:00 p.m.</td>
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<tr>
<td><em>Exhibit Hall A</em></td>
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<tr>
<td>Academic Leadership Lunch</td>
<td>12:30 p.m. – 2:00 p.m.</td>
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<td><em>By Invitation Only</em></td>
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<tr>
<td><em>107 AB</em></td>
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<tr>
<td>International Leadership Lunch</td>
<td>12:30 p.m. – 2:00 p.m.</td>
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<td><em>By Invitation Only</em></td>
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<td><em>107 AB</em></td>
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<tr>
<td>Executive Session</td>
<td>5:00 p.m.</td>
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<td><em>(AATS Members Only)</em></td>
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<td><em>Ballroom AB</em></td>
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<tr>
<td>AATS Special Reception</td>
<td>7:00 p.m. – 10:00 p.m.</td>
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<td><em>National Constitution Center (Ticketed Event)</em></td>
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## Wednesday, May 11, 2011

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<tr>
<td>Sex and Gender: The Impact on Disease and Patient Outcomes in Cardiothoracic Surgery</td>
<td>9:00 a.m. – 10:30 a.m.</td>
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<td><em>Ballroom AB</em></td>
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<tr>
<td>Controversies in CT Surgery: Striking the Utility/Futility Balance as Transcatheter Valve Implantation (TAVI) Enters the Marketplace</td>
<td>10:30 a.m. – 11:15 a.m.</td>
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<td><em>Ballroom AB</em></td>
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<tr>
<td>Controversies in CT Surgery: For the Care of the Cardiothoracic Surgery Patient, the Canadian System Is Superior to the U.S.</td>
<td>11:15 a.m. – 12:00 p.m.</td>
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<td><em>Ballroom AB</em></td>
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### Transportation

Due to their close proximity to the Center, there will be no AATS-sponsored transportation from the meeting hotels to the PACC.

During the Tuesday evening Special Reception, shuttle buses will run continuously from 6:45 p.m. – 10:00 p.m. between the Philadelphia Downtown Marriott, Loews Philadelphia Hotel, the Philadelphia Downtown Courtyard and the Ritz Carlton Philadelphia to the National Constitution Center.

All tours depart from the West Side of the 12th Street entrance (under the tunnel) of the PACC.
**Business Center**

A FedEx office is located in the lobby of the Philadelphia Marriott Downtown Hotel.

**Emergencies**

For any emergency call 4911 from an internal phone or (215) 418-4911 from your cell phone. Do NOT call 911 as responding emergency staff will not know your precise location. Please be sure that your emergency contact information is accurate and is listed on the back of your badge.

**First Aid**

A First Aid Station will be located in 302 of the PACC.

**Electronic Program Guide**

An interactive, electronic version of the Program Guide will be available for download in the Registration area on the 200 Level Bridge. The interactive program allows you to search program topics, faculty, exhibitors, social functions, Philadelphia information, and more. This mobile application is designed to work on all Web-based devices, including iPhones, iPods, iPads, Androids, Palm, E-readers (must be Web-enabled) and BlackBerry.
Pennsylvania Convention Center (PACC)

Spatial Orientation

Color Key
- Exhibit Hall
- Meeting Rooms
- Shops
- Public Areas
- Staff, Security, Foodcourt
- Loading Dock
- House Storage
- Offices
- Back of House

Exhibit Hall A
Exhibit Hall B
Exhibit Hall C
Exhibit Hall D
100 Level
200 Level
300 Level
Ballroom Level
Grand Hall
Reading Terminal Market
Nature's Fare Market
H RTP Market Street Rail Station
The Kettle Cooking Center
The Marketplace and other retail and restaurants

11th Street
12th Street
13th Street
Philadelphia Downtown Marriott
4th Floor – Franklin Hall-Meeting Space
Philadelphia Downtown Marriott
5th Floor – Grand Ballroom
Philadelphia Downtown Marriott
3rd Floor – Meeting Rooms and Conference Suites
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*(Note: Authors are listed by last name, first name and final ID)*

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**Note:** All attendees and exhibitors are encouraged to attend. Multiple events may occur simultaneously, please consult the schedule for specific details.
The St. Jude Medical Regent™ aortic valve represents a quantum leap forward in prosthetic valves. The supra-annular Regent valve delivers exceptional hemodynamics and performance while maintaining the same quality design features that set the standard for low complication rates, structural integrity and durability in a mechanical valve.


St. Jude Medical prosthetic heart valves are indicated for use as replacement valves in patients with a diseased, damaged, or malfunctioning native or prosthetic valve.

Possible side effects for all valvular implants include, but are not limited to: regurgitation, thromboembolic phenomena, resistance to flow, infection, hemolysis, dysrhythmia, and prosthetic dehiscence or failure. Anticoagulation is recommended for patients with mechanical valve implants. Please see the physician’s manual for a full description of indications, contraindications, side effects, precautions, warnings and instructions for use.

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<td>Zubris, Kimberly Ann</td>
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<td>Zurakowski, David</td>
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* AATS Member
This activity has been developed in recognition of the American Board of Medical Specialties Six Core Competencies. This activity will increase your competency in the areas of Patient Care, Medical Knowledge, Systems-Based Practice, Practice-Based Learning and Improvement, and Professionalism. The AATS has designated the primary competency each session will address.

**Program Information**

**Saturday, May 7, 2011**

8:00 a.m. – 5:00 p.m. **Physician Assistant/Nurse Practitioner/Perfusionist Program**

108 AB, Pennsylvania Convention Center

*Medical Knowledge*

*Chair:* Michael Argenziano, MD
Columbia University

This program will provide a state-of-the-art update on many evolving areas in cardiothoracic surgery, including percutaneous and hybrid approaches to coronary and valvular disease, treatment of aortic disease, and management of difficult challenges in the care of general thoracic surgery patients. In addition, presentations will be devoted to advanced perfusion techniques, cerebral and neuroprotection strategies and innovations in blood conservation, advanced respiratory support, and controversies in saphenous vein harvesting. Emphasis will be placed on application of appropriate criteria for considering each of these options for patients. Finally, advanced simulation technology and potential educational and training opportunities will be outlined.
Course Objectives
At the conclusion of this course, participants will be able to:
- Apply advanced perfusion cerebral protection techniques and strategies.
- Integrate innovations in blood conservation, advanced critical care, and saphenous vein harvesting into their practices.
- Describe the newly available options in percutaneous and minimally invasive valve therapy and apply appropriate criteria for considering each of these options for their patients.
- Become familiar with advanced simulation technology and potential educational and training opportunities.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>8:00 a.m. – 8:05 a.m.</td>
<td>Welcome and Course Introduction</td>
<td>Michael Argenziano, MD</td>
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<td>Columbia University</td>
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<tr>
<td>8:05 a.m. – 8:10 a.m.</td>
<td>Case Presentation</td>
<td>Robin Gibbs, MSN, CRNP</td>
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<td>University of Pennsylvania</td>
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<tr>
<td>8:10 a.m. – 8:35 a.m.</td>
<td>Argument in Favor of Minimally Invasive Surgical AVR</td>
<td>Prem Sadanand Shekar, MD</td>
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<td>Brigham and Women’s Hospital</td>
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<tr>
<td>8:35 a.m. – 9:00 a.m.</td>
<td>Argument in Favor of Percutaneous AVR</td>
<td>Craig R. Smith, MD</td>
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<td>Columbia University</td>
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<tr>
<td>9:00 a.m. – 9:10 a.m.</td>
<td>DISCUSSION AND Q&amp;A</td>
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SESSION I – PERCUTANEOUS VS. MINIMALLY INVASIVE AVR

SESSION II – COMPLEX AORTIC SURGERY

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<tbody>
<tr>
<td>9:10 a.m. – 9:15 a.m.</td>
<td>Case Presentation</td>
<td>Tracy Andrews, DNP, CCRN, ACNP, APRN-BC, CMC, CSC</td>
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<td>Columbia University</td>
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<tr>
<td>9:15 a.m. – 9:40 a.m.</td>
<td>Technical Approaches to Thoracic Aortic Disease</td>
<td>Allan Stewart, MD</td>
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<td>New York-Presbyterian Hospital</td>
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<tr>
<td>9:40 a.m. – 10:05 a.m.</td>
<td>Cerebral and Neuroprotection Strategies</td>
<td>John W. Hammon, MD</td>
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<td>Wake Forest School of Medicine</td>
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<tr>
<td>10:05 a.m. – 10:15 a.m.</td>
<td>DISCUSSION AND Q&amp;A</td>
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<tr>
<td>10:15 a.m. – 10:45 a.m.</td>
<td>BREAK</td>
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### SESSION III – HOT TOPICS IN CARDIOTHORACIC SURGERY

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<tbody>
<tr>
<td>10:45 a.m. – 11:05 a.m.</td>
<td>Advances in Intraoperative Blood Conservation and Mini-Circuits</td>
<td>Jeffrey B. Riley, MHPE, CCT, CCP</td>
<td>Mayo Clinic</td>
</tr>
<tr>
<td>11:05 a.m. – 11:25 a.m.</td>
<td>Current Thoracic Aortic Stent Grafting Techniques</td>
<td>Wilson Y. Szeto, MD</td>
<td>University of Pennsylvania</td>
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<td>11:25 a.m. – 11:45 a.m.</td>
<td>What’s New in Mechanical Support and Miniature VADs</td>
<td>Scott C. Silvestry, MD</td>
<td>Washington University School of Medicine</td>
</tr>
<tr>
<td>11:45 a.m. – 12:05 p.m.</td>
<td>Simulation as an Educational Tool in Cardiothoracic Surgery</td>
<td>Harold M. Burkhart, MD</td>
<td>Mayo Clinic</td>
</tr>
<tr>
<td>12:05 p.m. – 12:15 p.m.</td>
<td>DISCUSSION AND Q&amp;A</td>
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<tr>
<td>12:15 p.m. – 1:05 p.m.</td>
<td>LUNCH BREAK</td>
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### SESSION IV – TECHNIQUES IN GENERAL THORACIC SURGERY

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<tbody>
<tr>
<td>1:05 p.m. – 1:25 p.m.</td>
<td>Management of the Pleural Space and CXR Interpretation</td>
<td>Isaac George, MD</td>
<td>New York-Presbyterian Hospital</td>
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<tr>
<td>1:25 p.m. – 1:45 p.m.</td>
<td>Fundamentals of VATS Surgery</td>
<td>Traves D. Crabtree, MD</td>
<td>Washington University School of Medicine</td>
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<tr>
<td>1:45 p.m. – 2:05 p.m.</td>
<td>Advanced Support and ECMO for Respiratory Failure</td>
<td>Matthew D. Bacchetta, MD</td>
<td>Columbia University</td>
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<tr>
<td>2:05 p.m. – 2:15 p.m.</td>
<td>DISCUSSION AND Q&amp;A</td>
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<td>2:15 p.m. – 2:45 p.m.</td>
<td>BREAK</td>
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### SESSION V – “KNIFE VS. CATHETER” DEBATES

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<tr>
<th>Time</th>
<th>Debate</th>
<th>Moderator</th>
<th>Pro</th>
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<tbody>
<tr>
<td>2:45 p.m. – 3:25 p.m.</td>
<td>PCI Is Better than CABG for Left Main and Multivessel CAD</td>
<td>Michael Guiry, PA</td>
<td>Mathew R. Williams, MD</td>
<td>Frederick Yen-Ching Chen, MD</td>
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<td>Columbia University</td>
<td>Columbia University</td>
<td>Brigham and Women’s Hospital</td>
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<tr>
<td>3:25 p.m. – 4:05 p.m.</td>
<td>Open Saphenectomy Is Superior to Endoscopic Saphenectomy</td>
<td>Marco A. Zenati, MD</td>
<td>Harvard Medical School</td>
<td>Mark W. Connolly, MD</td>
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<td>St. Joseph’s Regional Medical Center</td>
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<tr>
<td>4:05 p.m. – 4:45 p.m.</td>
<td>Surgical Mitral Valve Repair Is Superior to the Percutaneous Clip Technique</td>
<td>Robert L. Smith, MD</td>
<td>COR Specialty Associates of North Texas</td>
<td>William A. Gray, MD</td>
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<td>New York-Presbyterian Hospital/Columbia University</td>
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<td>4:45 p.m. – 5:00 p.m.</td>
<td>CLOSING REMARKS</td>
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<td>5:00 p.m.</td>
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SATURDAY MORNING
MAY 7, 2011

8:00 a.m. – 12:00 p.m. ADULT CARDIAC SKILLS
Ballroom AB, Pennsylvania Convention Center

Chairs: Gorav Ailawadi, MD
University of Virginia
W. Randolph Chitwood, Jr., MD
East Carolina University

Data will be presented providing the methodology to evaluate treatment approaches for valvular and coronary diseases as well as arrhythmias. Faculty will outline how to determine individual patient indications for each procedure and explain the best practice skills essential for each operation and for after care. An outline of new technologies which facilitate adult cardiac surgical operations will be available.

Course Objectives
At the conclusion of this course, participants will be able to:

- Evaluate various methods to surgically treat valvular, coronary, and arrhythmias.
- Determine individual patient indications for each procedure.
- Apply the best practice skills for each operation or after care.
- Become acquainted with new technologies that facilitate adult cardiac surgical operations.

SESSION I – CORONARY ARTERY DISEASE

8:00 a.m. – 8:10 a.m. Radials, Veins, and ITAs: When and How?
Bruce W. Lytle, MD
Cleveland Clinic

8:10 a.m. – 8:20 a.m. OFF-Pump, Beating Pump, and Arrested: When and How?
Gorav Ailawadi, MD
University of Virginia

8:20 a.m. – 8:30 a.m. Hybrid Revascularization: Is this Good for Patients?
Joseph J. DeRose, MD
Albert Einstein College of Medicine/Montefiore Medical Center
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<tr>
<td>8:30 a.m. -</td>
<td>MIS Coronary Surgery: What are the Best</td>
<td>Johannes Bonatti, MD</td>
<td>University of Maryland</td>
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<td>8:40 a.m.</td>
<td>Methods?</td>
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<td>8:40 a.m. -</td>
<td>DISCUSSION</td>
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<td>8:55 a.m.</td>
<td>SESSION II – MITRAL VALVE DISEASE</td>
<td>Complex Mitral Valve Repairs: Please Simplify for Surgeons!</td>
<td>Irving L. Kron, MD</td>
<td>University of Virginia</td>
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<tr>
<td>9:05 a.m.</td>
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<td>Robotic and “Keyhole” Mitral Repairs: Planning, Executing, and</td>
<td>Tomislav Mihaljevic, MD</td>
<td>Cleveland Clinic</td>
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<tr>
<td>9:15 a.m.</td>
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<td>Defending!</td>
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<tr>
<td>9:25 a.m.</td>
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<td>Catheter Based Alfieri Repair vs. Open Mitral Repair:</td>
<td>Michael Argenziano, MD</td>
<td>Columbia University</td>
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<td>9:35 a.m.</td>
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<td>What’s the Real Deal?</td>
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<td>9:50 a.m.</td>
<td>DISCUSSION</td>
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<tr>
<td>10:10 a.m.</td>
<td>SESSION III – ATRIAL FIBRILLATION</td>
<td>Which Energy Source Is Being Proven Best?</td>
<td>Niv Ad, MD</td>
<td>Fairfax Hospital</td>
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<td>10:20 a.m.</td>
<td></td>
<td>MIS and Robotic AF Ablation: Is this Method Prevailing?</td>
<td>Evelio Rodriguez, MD</td>
<td>East Carolina University</td>
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<td>10:30 a.m.</td>
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<td>AFib in Setting of CABG or AVR: When to Ablate?</td>
<td>Ralph J. Damiano, Jr, MD</td>
<td>Washington University School of Medicine</td>
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<tr>
<td>10:40 a.m.</td>
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<td>That Damned Atrial Apendage: Tell Me What to Do!</td>
<td>A. Marc Gillinov, MD</td>
<td>Cleveland Clinic</td>
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<td>10:50 a.m.</td>
<td>DISCUSSION</td>
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<td>11:05 a.m. – 11:15 a.m.</td>
<td>Transcatheter AVR: In Europe 30% of all AVRs are Percutaneous!</td>
<td>Thomas Walther, MD, PhD Kerckhoff Heartcenter</td>
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<tr>
<td>11:15 a.m. – 11:25 a.m.</td>
<td>How Do I Save the Aortic Valve with Annulo-Aortic Ectasia?</td>
<td>Michael A. Borger, MD, PhD Leipzig Heart Center</td>
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<tr>
<td>11:25 a.m. – 11:35 a.m.</td>
<td>Small Root Needs Big Valve: Patch Enlargement, Stentless, or Konno?</td>
<td>David A. Fullerton, MD University of Colorado, Denver</td>
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<tr>
<td>11:35 a.m. – 11:45 a.m.</td>
<td>Minimally Invasive AVR: Hemisternotomy vs. Mini-Thoracotomy</td>
<td>Glenn R. Barnhart, MD Swedish Heart and Vascular Institute</td>
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<tr>
<td>11:45 a.m. – 12:00 p.m.</td>
<td>DISCUSSION</td>
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<td>12:00 p.m.</td>
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SATURDAY MORNING
MAY 7, 2011

8:00 a.m. – 12:00 p.m. CONGENITAL SKILLS
201 ABC, Pennsylvania Convention Center

Chair: Constantine Mavroudis, MD
Cleveland Clinic

Medical Knowledge

Presenters will address and discuss practice gaps in Truncus Arteriosus with interrupted aortic arch, arrhythmia surgery in association with congenital heart repairs, left ventricular outflow tract obstruction in adolescents with aortic stenosis with and without a small annulus, recognition and repair options concerning anomalous aortic origin of the coronary arteries, cardiac transplantation in abnormal recipient anatomy, addressing pulmonary arteriovenous malformations in association with the Kawashima operation for single ventricle patients, Double Outlet Right Ventricle (DORV) with distant ventricular septal defect, and clinical application of the intra/extracardiac Conduit Fenestrated Fontan.

Course Objectives

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

- Appreciate how the operation for truncus arteriosus with interrupted aortic arch can be performed with a minimum of complications.
- Explain the mechanisms of the various arrhythmias and the surgical ablative techniques necessary to treat them.
- Review the techniques that are available to treat infants, children, and adolescent patients with left ventricular outflow tract obstruction.
- Describe the techniques that surgeons use to approach patients with anomalous aortic origin of the coronary arteries.
- Apply different techniques for cardiac transplantation in the setting of abnormal patient recipient anatomy.
- Implement solutions for the treatment of pulmonary arteriovenous malformations in Fontan patients.
- Describe new techniques to achieve biventricular repair in patients with complex double outlet right ventricle.
- Appreciate the options for extracardiac Fontan operation to preserve sinus rhythm and potentially decrease the incidence of future arrhythmias.
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<tr>
<td>8:00 a.m. – 8:05 a.m.</td>
<td>Welcome and Introduction</td>
<td>Constantine Mavroudis, MD</td>
<td>Cleveland Clinic</td>
</tr>
<tr>
<td>8:05 a.m. – 8:20 a.m.</td>
<td>Truncus with Interrupted Aortic Arch</td>
<td>Edward L. Bove, MD</td>
<td>University of Michigan</td>
</tr>
<tr>
<td>8:20 a.m. – 8:30 a.m.</td>
<td>DISCUSSION</td>
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<tr>
<td>8:30 a.m. – 8:45 a.m.</td>
<td>DORV with Uncommitted VSD</td>
<td>Francois G. Lacour-Gayet, MD</td>
<td>Montefiore Children's Hospital</td>
</tr>
<tr>
<td>8:45 a.m. – 8:55 a.m.</td>
<td>DISCUSSION</td>
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<tr>
<td>8:55 a.m. – 9:10 a.m.</td>
<td>Modified Ross-Konno Left Ventricular Outflow Tract Obstruction</td>
<td>Erle H. Austin, III, MD</td>
<td>University of Louisville</td>
</tr>
<tr>
<td>9:10 a.m. – 9:20 a.m.</td>
<td>DISCUSSION</td>
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<tr>
<td>9:20 a.m. – 9:35 a.m.</td>
<td>Coronary Unroofing for Anomalous Aortic Origin of the Coronary Arteries</td>
<td>Robert D. Stewart, MD</td>
<td>Cleveland Clinic</td>
</tr>
<tr>
<td>9:35 a.m. – 9:45 a.m.</td>
<td>DISCUSSION</td>
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<td>9:45 a.m. – 10:15 a.m.</td>
<td>BREAK</td>
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<tr>
<td>10:15 a.m. – 10:30 a.m.</td>
<td>Hepatic Vein to Azygous Vein Anastomosis After Kawashima Operation for Pulmonary Arteriovenous Fistulas</td>
<td>Tjark Ebels, MD, PhD</td>
<td>University Medical Centre Groningen</td>
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<tr>
<td>10:30 a.m. – 10:40 a.m.</td>
<td>DISCUSSION</td>
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<td>Time</td>
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</table>
| 10:40 a.m. – 10:55 a.m. | **Operations for Arrhythmia Surgery for Congenital Heart Disease**  
                        | Constantine Mavroudis, MD  
                        | Cleveland Clinic          |
| 10:55 a.m. – 11:05 a.m. | **DISCUSSION**                                                          |
| 11:05 a.m. – 11:20 a.m. | **The Intra/Extracardiac Conduit Fenestrated Fontan**  
                          | Richard A. Jonas, MD  
                          | Children’s National Medical Center          |
| 11:20 a.m. – 11:30 a.m. | **DISCUSSION**                                                          |
| 11:30 a.m. – 11:45 a.m. | **Cardiac Transplantation for Complex Recipient Anatomy**  
                          | Jeffrey P. Jacobs, MD  
                          | Cardiac Surgical Associates          |
| 11:45 a.m. – 12:00 p.m. | **DISCUSSION**                                                          |
| 12:00 p.m.        | **ADJOURN**                                                            |
The faculty will address targeted lung cancer therapy, the possible role of thoracoscopic surgery in advanced lung cancer, treatment of Barrett’s esophagus, the changes in lung transplantation in the new LAS era, and the potential options to the management of a bronchopleural fistula and the optimal time to use them.

**Course Objectives**

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

- Describe targeted lung cancer therapy.
- Identify the possible role of thoracoscopic surgery in advanced lung cancer.
- Apply the best treatment for Barrett’s esophagus.
- Detail the changes in lung transplantation in the new LAS era.
- Describe the potential options to manage a bronchopleural fistula and the optimal time to use the options.

### SESSION I

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:10 a.m. – 8:30 a.m.</td>
<td><strong>Status of Lung Cancer Immunotherapy – Targeted Therapy</strong></td>
<td>A. Sasha Krupnick, MD Washington University School of Medicine</td>
</tr>
<tr>
<td>8:30 a.m. – 8:50 a.m.</td>
<td><strong>Sleeve Resections</strong></td>
<td>Walter Klepetko, MD Vienna Medical University</td>
</tr>
<tr>
<td>8:50 a.m. – 9:10 a.m.</td>
<td><strong>Assessment of the Solitary Pulmonary Nodule</strong></td>
<td>Eric L. Grogan, MD, MPH Vanderbilt University</td>
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<tr>
<td>Time</td>
<td>Topic</td>
<td>Speaker</td>
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<tr>
<td>9:10 a.m. – 9:30 a.m.</td>
<td>Role of VATS in Resection of Locally Advanced Lung Cancer</td>
<td>Thomas A. D’Amico, MD</td>
</tr>
<tr>
<td>9:30 a.m. – 9:45 a.m.</td>
<td>DISCUSSION</td>
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<td>9:45 a.m. – 10:15 a.m.</td>
<td>BREAK</td>
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<tr>
<td>SESSION II</td>
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<tr>
<td>10:15 a.m. – 10:35 a.m.</td>
<td>Novel Treatments of Barrett’s Esophagus</td>
<td>Michael J. Weyant, MD</td>
</tr>
<tr>
<td>10:35 a.m. – 11:05 a.m.</td>
<td>Transhiatal Esophagectomy</td>
<td>Mark B. Orringer, MD</td>
</tr>
<tr>
<td>11:05 a.m. – 11:25 a.m.</td>
<td>Who Not to Perform a Lung Transplant On</td>
<td>Michael S. Mulligan, MD</td>
</tr>
<tr>
<td>11:25 a.m. – 11:45 a.m.</td>
<td>Management of the Postpneumonecotmy Empyema</td>
<td>Walter Weder, MD</td>
</tr>
<tr>
<td>11:45 a.m. – 12:00 p.m.</td>
<td>DISCUSSION</td>
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<tr>
<td>12:00 p.m.</td>
<td>ADJOURN</td>
<td></td>
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</tbody>
</table>
SATURDAY AFTERNOON
MAY 7, 2011

1:00 p.m. – 5:10 p.m. DEVELOPING THE ACADEMIC SURGEON SYMPOSIUM
204 ABC, Pennsylvania Convention Center

Chair: Bryan F. Meyers, MD, MPH
Washington University School of Medicine

Personal success stories of several CT surgeons who have achieved funded research grants will be augmented by discussion of pathways towards extramural funded research accessible to cardiothoracic surgeons. The faculty will identify several options for collaboration or mentorship outside the field and will detail the true potential cost in time and seed money necessary to launch and support a new investigator towards independence. Other issues pertinent to engaging and recruiting young surgeons into academic cardiothoracic surgery will be covered as well.

Course Objectives
At the conclusion of this course, participants will be able to:

- Identify at least three pathways toward extramural funded research accessible to cardiothoracic surgeons.
- Summarize details and milestones in the personal successes of at least three CT surgeons achieving funded research grants.
- Identify several options for collaboration or mentorship outside the field of other CT surgeons.
- Describe the true potential cost in time and seed money support to launch a new investigator towards independence.

<table>
<thead>
<tr>
<th>1:00 p.m. – 1:10 p.m.</th>
<th>Introduction</th>
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<tbody>
<tr>
<td></td>
<td>Bryan F. Meyers, MD, MPH</td>
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<td></td>
<td>Washington University School of Medicine</td>
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<tr>
<th>1:10 p.m. – 1:30 p.m.</th>
<th>Successful Academic Recruitment</th>
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<tbody>
<tr>
<td></td>
<td>John S. Ikonomidis, MD, PhD</td>
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<td></td>
<td>Medical University of South Carolina</td>
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<thead>
<tr>
<th>1:30 p.m. – 1:50 p.m.</th>
<th>Getting to R01 Funded Status: Key Steps and Tips</th>
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<tbody>
<tr>
<td></td>
<td>Daniel Kreisel, MD, PhD</td>
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<td></td>
<td>Washington University School of Medicine</td>
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<tr>
<th>1:50 p.m. – 2:10 p.m.</th>
<th>NIH K12 Career Development Awards</th>
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<tbody>
<tr>
<td></td>
<td>Dennis Wigle, MD, PhD</td>
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<td>Mayo Clinic</td>
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<td>Time</td>
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<tr>
<td>2:10 p.m. – 2:30 p.m.</td>
<td><strong>K08 with the AHRQ: Mentored Research with a Non-Surgeon Mentor</strong></td>
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<tr>
<td>2:30 p.m. – 2:50 p.m.</td>
<td><strong>Collaborative Research Between Surgeons and Educators</strong></td>
</tr>
<tr>
<td>2:50 p.m. – 3:10 p.m.</td>
<td>BREAK</td>
</tr>
<tr>
<td>3:10 p.m. – 3:30 p.m.</td>
<td><strong>Academic Surgery Present and Future Prospects</strong></td>
</tr>
<tr>
<td>3:30 p.m. – 3:50 p.m.</td>
<td><strong>Building on Local Strengths as a Path to Academic Success</strong></td>
</tr>
<tr>
<td>3:50 p.m. – 4:10 p.m.</td>
<td><strong>How Much Is that R Grant in the Window?</strong></td>
</tr>
<tr>
<td>4:10 p.m. – 4:30 p.m.</td>
<td><strong>Sparking the Flame of the Next Generation of Academic Surgeons</strong></td>
</tr>
<tr>
<td>4:30 p.m. – 4:50 p.m.</td>
<td><strong>Enrollment Challenges in Surgical Clinical Trials</strong></td>
</tr>
<tr>
<td>4:50 p.m. – 5:10 p.m.</td>
<td><strong>DISCUSSION</strong></td>
</tr>
<tr>
<td>5:10 p.m.</td>
<td><strong>ADJOURN</strong></td>
</tr>
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</table>
SATURDAY AFTERNOON
MAY 7, 2011

1:00 p.m. – 4:00 p.m. HIGH PERFORMANCE TEAMS IN THE OPERATING ROOM: USING THE NOTSS PROGRAM (“NON-TECHNICAL SKILLS FOR SURGEONS”) TO IMPROVE COMMUNICATION, UNDERSTANDING AND PERFORMANCE

201 ABC, Pennsylvania Convention Center

Chairs: Simon Paterson-Brown, MBBS, FRCS, MPhil, MS
Royal College of Surgeons of Edinburgh

George Youngson, CBE, PhD
Royal College of Surgeons of Edinburgh

Steven Yule, MA, PhD, MSc
Royal College of Surgeons of Edinburgh

An interactive session focused on the underlying human factors and non-technical skills essential for successful surgical outcomes which are not covered in formal training programs. Participants will be provided with an introduction to observational techniques and become familiar with a behavior rating system to assist in the evaluation of the performance of surgeons in the operating room. Audience participation will be augmented by structured methods of analyzing behavior and some initial training in identifying and discussing performance in surgery.

Course Objectives

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

- Understand the role of human factors in surgical safety.
- Demonstrate an understanding of the relevance of observational techniques to improving clinical practice, including benefits and limitations.
- Identify and rate examples of good and poor behaviors in the operating room.
- Discuss key non-technical skills within a surgical context.
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>1:00 p.m. – 1:30 p.m.</td>
<td>Introduction and ‘Never Events’ in the OR</td>
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<tr>
<td>1:30 p.m. – 1:45 p.m.</td>
<td>Human Factors</td>
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<tr>
<td>1:45 p.m. – 2:05 p.m.</td>
<td>Video Scenario 1 – High Performance in the OR?</td>
</tr>
<tr>
<td>2:05 p.m. – 2:15 p.m.</td>
<td>The NOTSS Behavior Rating System</td>
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<tr>
<td>2:15 p.m. – 3:20 p.m.</td>
<td>Breaking Down the NOTSS System:</td>
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<td></td>
<td>• Situation Awareness</td>
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<td>• Decision Making</td>
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<td>• Communication and Teamwork</td>
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<td>• Leadership</td>
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<tr>
<td>3:20 p.m. – 3:40 p.m.</td>
<td>Video Scenario 2 – High Performance Teamwork?</td>
</tr>
<tr>
<td>3:40 p.m. – 4:00 p.m.</td>
<td>Practical Applications</td>
</tr>
</tbody>
</table>
SUNDAY
MAY 8, 2011

7:55 a.m. – 5:00 p.m.  AATS/STS ADULT CARDIAC SURGERY SYMPOSIUM
Ballroom AB, Pennsylvania Convention Center

Chair: John A. Kern, MD
University of Virginia

Medical Knowledge

This symposium will address important new developments and updates in the broad field of adult cardiac surgery, particularly in the areas of aortic and mitral valve disease and therapies, as well as the treatment of thoracic aortic aneurysms, dissections, penetrating ulcers, and intramural hematomas. Participants will have a better understanding of the importance of data management and utilization, and will hear evidence based recommended changes in practice patterns, particularly as they relate to ischemic heart disease. Participants will also hear presentations on the optimal use of pre-operative cardiac imaging, the optimal treatment of hypertrophic cardiomyopathy, techniques for safer re-do cardiac surgery and when to consider LVAD therapy. Panel discussions will follow each session to allow time for questions and answers.

Course Objectives

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

- Appropriately choose and utilize all diagnostic modalities to accurately and completely diagnose patients with valvular heart disease and coronary artery disease and justify the use of each imaging modality.

- Describe the long-term results of various techniques for surgical coronary revascularization and how they compare to percutaneous stenting, in addition to detailing the long-term patency of various coronary bypass conduits so that surgeons may appropriately and justifiably tailor individual operations for individual patients.

- Apply evidence-based guidelines to their treatment of patients with aortic valve disease. Specifically, apply the knowledge gained from ongoing clinical trials involving trans-catheter valve therapy to patients with aortic stenosis so that they may more appropriately choose optimal therapy.

- Select appropriate treatment options and timing of interventions for all patients with aortic dissections. Determine when to intervene on pathologies of the aortic arch and when to utilize endovascular stent graft technologies in light of what is presently known about long-term results of such therapies.

- Appropriately utilize mitral valve repair technique options when approached with patients with mitral valve insufficiency and appreciate when mitral valve replacement is justified.

- Gain an appreciation for the long-term limitations of and complications encountered (such as GI bleeding) with LVAD therapy.
7:55 a.m. – 8:00 a.m. Welcome and Course Overview John A. Kern, MD University of Virginia

SESSION I – AORTIC VALVE

8:00 a.m. – 8:20 a.m. Does Choice of Prosthesis Really Matter Neal D. Kon, MD Wake Forest University

8:20 a.m. – 8:40 a.m. Patient-Prosthesis Mismatch: Is it for Real Marc R. Moon, MD Washington University School of Medicine

8:40 a.m. – 9:00 a.m. Transcatheter AVR Update Mathew R. Williams, MD Columbia University

9:00 a.m. – 9:20 a.m. Aortic Valve Repair: Technical Aspects and How Much Residual AI Is Too Much Gebrine El Khoury, MD St-Luc Hospital

9:20 a.m. – 9:30 a.m. DISCUSSION

9:30 a.m. – 9:50 a.m. BREAK

SESSION II – MITRAL VALVE

9:50 a.m. – 10:10 a.m. Understanding Mechanisms of MR as a Means to Optimizing Repair: What Have We Learned over 30 Years W. Randolph Chitwood, Jr., MD East Carolina University

10:10 a.m. – 10:30 a.m. What Is the Science (Data) Behind the Use of Neo-Chords Vinod H. Thourani, MD Emory University

10:30 a.m. – 10:50 a.m. Moderate MR Associated with Other Cardiac Pathology: When to Treat James S. Gammie, MD University of Maryland

10:50 a.m. – 11:00 a.m. DISCUSSION
### SESSION III – EVIDENCE/DATA BASED PRACTICES AND ISCHEMIC HEART DISEASE

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
<th>Institution</th>
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<tbody>
<tr>
<td>11:00 a.m. – 11:20 a.m.</td>
<td>Data Reporting, Management, and Utilization: Why Is it Important</td>
<td>T. Bruce Ferguson, Jr., MD</td>
<td>East Carolina University</td>
</tr>
<tr>
<td>11:20 a.m. – 11:40 a.m.</td>
<td>New and Creative Strategies for Revascularization: How to Prepare for a Value-Based Reimbursement World</td>
<td>John G. Byrne, MD</td>
<td>Vanderbilt University</td>
</tr>
<tr>
<td>11:40 a.m. – 12:00 p.m.</td>
<td>Data/Evidence Based Treatment of Ischemic Heart Disease</td>
<td>David P. Taggart, MD, PhD</td>
<td>University of Oxford</td>
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</tbody>
</table>

**LUNCH SYMPOSIUM**
Evolving Technologies: Incorporating New Technologies and Developing Proficiency
Michael J. Mack, MD
Baylor Health Care System

### SESSION IV – THORACIC AORTIC DISEASE

<table>
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<th>Time</th>
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<th>Speaker</th>
<th>Institution</th>
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<tbody>
<tr>
<td>1:30 p.m. – 1:50 p.m.</td>
<td>Re-Intervention on Failed Endografts: When and How</td>
<td>Wilson Y. Szeto, MD</td>
<td>University of Pennsylvania</td>
</tr>
<tr>
<td>1:50 p.m. – 2:10 p.m.</td>
<td>When and How to Operate on the Aortic Arch</td>
<td>Joseph S. Coselli, MD</td>
<td>Baylor College of Medicine</td>
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<tr>
<td>2:10 p.m. – 2:30 p.m.</td>
<td>Changing Paradigms for the Treatment of Aortic Dissections</td>
<td>G. Michael Deeb, MD</td>
<td>University of Michigan</td>
</tr>
<tr>
<td>2:30 p.m. – 2:50 p.m.</td>
<td>How Should We Manage Penetrating Ulcers and Intramural Hematomas of the Thoracic Aorta?</td>
<td>Thomas G. Gleason, MD</td>
<td>University of Pittsburgh Medical Center</td>
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<td>2:50 p.m. – 3:00 p.m.</td>
<td>DISCUSSION</td>
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<td>3:00 p.m. – 3:30 p.m.</td>
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<td>Speaker</td>
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<td>3:30 p.m. – 3:50 p.m.</td>
<td>Optimal Utilization of Cardiac MRI in 2011</td>
<td>David D. Yuh, MD</td>
<td>The Johns Hopkins Hospital</td>
</tr>
<tr>
<td>3:50 p.m. – 4:10 p.m.</td>
<td>Tips for Safe Re-Operative Heart Surgery</td>
<td>Patrick E. Parrino, MD</td>
<td>Ochsner Clinic Foundation</td>
</tr>
<tr>
<td>4:10 p.m. – 4:30 p.m.</td>
<td>Tips for the Optimal Treatment of HCM</td>
<td>Hartzell V. Schaff, MD</td>
<td>Mayo Clinic</td>
</tr>
<tr>
<td>4:30 p.m. – 4:50 p.m.</td>
<td>When All Else Fails: LVAD</td>
<td>John V. Conte, MD</td>
<td>The Johns Hopkins Hospital</td>
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<tr>
<td>4:50 p.m. – 5:00 p.m.</td>
<td>DISCUSSION</td>
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<tr>
<td>5:00 p.m.</td>
<td>ADJOURN TO WELCOME RECEPTION IN EXHIBIT HALL A</td>
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Emphasis will be placed on the unique specialty aspects of Cardiovascular-Thoracic (CVT) Critical Care including ECMO, mechanical support, transplant perioperative care, and management of patients after aortic surgery. Fundamental areas of critical care will be presented in a case related format in order to practically relate them to specific cardiothoracic applications. These areas include: evidenced based blood conservation and transfusion guidelines, nutritional support, renal replacement therapies, optimal antibiotic utilization, vasopressor and inotrope support, and arrhythmia management. Significant challenges exist to the establishment of cardiothoracic critical care units at different institutions. A review of relevant issues and potential solutions will be discussed in an open forum and hemodynamic simulation luncheon session. Attendees are encouraged to share the issues and concerns that have arisen at the own institutions.

Course Objectives
At the conclusion of this course, participants will be able to:

- Describe unique specialty aspects of Cardiovascular-Thoracic (CVT) Critical Care including ECMO and mechanical circulatory support.
- Integrate nutritional innovations into the practice of CVT Critical Care.
- Apply evidence-based blood and component transfusion guidelines to clinical practice.
- Select appropriate anti-microbial agents and practices for treatment and prevention of nosocomial infection including CVL infections.
<table>
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<tr>
<th>Time</th>
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<th>Institution</th>
</tr>
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<tbody>
<tr>
<td>8:00 a.m. – 8:10 a.m.</td>
<td><strong>Welcome and Opening Remarks</strong></td>
<td>Michael S. Mulligan, MD</td>
<td>University of Washington Medical Center</td>
</tr>
<tr>
<td>8:10 a.m. – 8:40 a.m.</td>
<td><strong>CT Critical Care: Challenges and Developments</strong></td>
<td>Nevin M. Katz, MD</td>
<td>Johns Hopkins University</td>
</tr>
<tr>
<td>8:40 a.m. – 9:10 a.m.</td>
<td><strong>Cardiovascular Pharmacologic Support</strong></td>
<td>Jerrold H. Levy, MD</td>
<td>Emory University</td>
</tr>
<tr>
<td>9:10 a.m. – 9:40 a.m.</td>
<td><strong>Post-Op Cardiac Surgery Arrhythmia Management</strong></td>
<td>Ralph J. Damiano, Jr., MD</td>
<td>Washington University School of Medicine</td>
</tr>
<tr>
<td>9:40 a.m. – 10:10 a.m.</td>
<td><strong>Post-Operative Care of LVAD Recipients</strong></td>
<td>Lyle D. Joyce, MD, PhD</td>
<td>Mayo Clinic</td>
</tr>
<tr>
<td>10:10 a.m. – 10:30 a.m.</td>
<td><strong>BREAK</strong></td>
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<tr>
<td>10:30 a.m. – 11:00 a.m.</td>
<td><strong>Algorithm for Support of the Failing Heart</strong></td>
<td>Ranjit John, MD</td>
<td>University of Minnesota</td>
</tr>
<tr>
<td>11:00 a.m. – 11:30 a.m.</td>
<td><strong>Principles of Aortic Surgery Postoperative Care</strong></td>
<td>Anthony L. Estrera, MD</td>
<td>University of Texas at Houston</td>
</tr>
<tr>
<td>11:30 a.m. – 12:00 p.m.</td>
<td><strong>Latest Blood Conservation Protocols</strong></td>
<td>Jerrold H. Levy, MD</td>
<td>Emory University</td>
</tr>
<tr>
<td>12:00 p.m. – 1:00 p.m.</td>
<td><strong>Luncheon Symposium—Hemodynamic Simulation</strong></td>
<td>Nevin M. Katz, MD</td>
<td>Johns Hopkins University</td>
</tr>
<tr>
<td>1:00 p.m. – 1:30 p.m.</td>
<td><strong>BREAK</strong></td>
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<td>Time</td>
<td>Session Title</td>
<td>Presenter(s)</td>
<td>Institution</td>
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<tr>
<td>1:30 p.m. – 2:00 p.m.</td>
<td>Infection Prophylaxis and Prevention</td>
<td>Dennis G. Maki, MD</td>
<td>University of Wisconsin</td>
</tr>
<tr>
<td>2:00 p.m. – 2:30 p.m.</td>
<td>Advanced Ventilator &amp; ECMO Support for Failing Lungs</td>
<td>Robert H. Bartlett, MD</td>
<td>University of Michigan</td>
</tr>
<tr>
<td>2:30 p.m. – 3:00 p.m.</td>
<td>Lung Transplant Peri-Operative Care</td>
<td>Michael S. Mulligan, MD</td>
<td>University of Washington Medical Center</td>
</tr>
<tr>
<td>3:00 p.m. – 3:15 p.m.</td>
<td>BREAK</td>
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<tr>
<td>3:15 p.m. – 3:45 p.m.</td>
<td>Continuous vs. Intermittent Renal Replacement Therapy</td>
<td>Andrew D. Shaw, MD</td>
<td>Duke University</td>
</tr>
<tr>
<td>3:45 p.m. – 4:15 p.m.</td>
<td>C difficile: The New Nosocomial Plague</td>
<td>Dennis G. Maki, MD</td>
<td>University of Wisconsin</td>
</tr>
<tr>
<td>4:15 p.m. – 4:45 p.m.</td>
<td>Enteric &amp; Parenteral Nutritional Support—Case Scenarios</td>
<td>Aaron M. Cheng, MD</td>
<td>Harborview Medical Center</td>
</tr>
<tr>
<td>4:45 p.m. – 5:00 p.m.</td>
<td>DISCUSSION</td>
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<tr>
<td>5:00 p.m.</td>
<td>ADJOURN TO WELCOME RECEPTION IN EXHIBIT HALL A</td>
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</table>
Participants will be provided data to assist them in understanding techniques for valve reconstruction covering the spectrum of congenital and acquired valve defects, and the comparative results versus replacement in children. Various options for reconstruction of the regurgitant aortic, mitral, and tricuspid valve will be presented. Faculty will stress the impact of timing of surgery on late outcomes in pulmonary valve insertion and provide an overview of non-invasive imaging techniques for assessing valve function.

Course Objectives
At the conclusion of this course, participants will be able to:

- Describe the comparative results of valve reconstruction versus replacement in children.
- List the various options for reconstruction of the regurgitant aortic valve.
- Discuss the impact of timing of surgery on late outcomes in pulmonary valve insertion.
- Demonstrate non-invasive imaging techniques for assessing valve function.

Welcome and Course Overview
Pedro J. del Nido, MD
Children’s Hospital Boston

SESSION I – AORTIC VALVE SURGERY

Moderators: Pedro J. del Nido, MD
Children’s Hospital Boston
Frank L. Hanley, MD
Stanford University

Aortic Valve Regurgitation: Leaflet Reconstruction Techniques
Gebrine El Khoury, MD
St-Luc Hospital
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Institution</th>
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</thead>
<tbody>
<tr>
<td>8:20 a.m. – 8:40 a.m.</td>
<td>Aortic Valve Reconstruction in the Young Infant</td>
<td>Christopher Baird, MD</td>
<td>Children’s Hospital Boston</td>
</tr>
<tr>
<td>8:40 a.m. – 9:00 a.m.</td>
<td>Valve Sparing Aortic Root Remodeling</td>
<td>Duke E. Cameron, MD</td>
<td>The Johns Hopkins Hospital</td>
</tr>
<tr>
<td>9:00 a.m. – 9:20 a.m.</td>
<td>The Place for the Ross Operation: The “Ideal” Patient</td>
<td>Frank L. Hanley, MD</td>
<td>Stanford University</td>
</tr>
<tr>
<td>9:20 a.m. – 9:40 a.m.</td>
<td>The Rheumatic Aortic Valve in Children: Surgical Options</td>
<td>Magdi H. Yacoub, MD</td>
<td>Imperial College London</td>
</tr>
<tr>
<td>9:40 a.m. – 10:15 a.m.</td>
<td>CASE DISCUSSIONS</td>
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<tr>
<td>10:15 a.m. – 10:50 a.m.</td>
<td>BREAK</td>
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<tr>
<td>10:50 a.m. – 11:20 a.m.</td>
<td>SESSION II – THE PULMONARY VALVE</td>
<td>Emile A. Bacha, MD</td>
<td>Children’s Hospital of New York</td>
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<tr>
<td></td>
<td>Moderator:</td>
<td>James S. Tweddell, MD</td>
<td>Medical College of Wisconsin</td>
</tr>
<tr>
<td>10:50 a.m. – 11:20 a.m.</td>
<td>Valve Sparing and Reconstruction Techniques</td>
<td>Emile A. Bacha, MD</td>
<td>Children’s Hospital of New York</td>
</tr>
<tr>
<td>11:20 a.m. – 11:40 a.m.</td>
<td>Timing and Techniques for Pulmonary Valve Insertion</td>
<td>James S. Tweddell, MD</td>
<td>Medical College of Wisconsin</td>
</tr>
<tr>
<td>11:40 a.m. – 12:00 p.m.</td>
<td>Options for Prosthetic Valve/Conduit Insertion</td>
<td>Sitaram Emani, MD</td>
<td>Children’s Hospital Boston</td>
</tr>
<tr>
<td>12:00 p.m. – 1:30 p.m.</td>
<td>LUNCH SYMPOSIUM</td>
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<tr>
<td></td>
<td>Heart Valve Imaging for Surgical Planning</td>
<td>Stephen Sanders, MD</td>
<td>Children’s Hospital Boston</td>
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</tbody>
</table>
### SESSION III – Tricuspid Valve Surgery

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
<th>Institution</th>
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</thead>
<tbody>
<tr>
<td>1:30 p.m. – 1:50 p.m.</td>
<td>Ebstein’s Anomaly of the Tricuspid Valve: The Cone Repair</td>
<td>Jose Pedro da Silva, MD</td>
<td>Hospital Beneficencia Portuguesa de Sao Paulo</td>
</tr>
<tr>
<td>1:50 p.m. – 2:10 p.m.</td>
<td>Tricuspid Regurgitation in Non-Ebstein's Valve Anomalies</td>
<td>Joseph A. Dearani, MD</td>
<td>Mayo Clinic</td>
</tr>
<tr>
<td>2:10 p.m. – 2:30 p.m.</td>
<td>Tricuspid Valve Repair in Single Ventricle: Timing and Techniques</td>
<td>Victor T. Tsang, MD</td>
<td>Great Ormond Street Hospital for Children</td>
</tr>
<tr>
<td>2:30 p.m. – 2:50 p.m.</td>
<td>BREAK</td>
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</table>

### SESSION IV – Mitral Valve Reconstruction

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
<th>Institution</th>
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</thead>
<tbody>
<tr>
<td>2:50 p.m. – 3:05 p.m.</td>
<td>Congenital Mitral Stenosis: Morphology and Surgical Approaches</td>
<td>Pedro J. del Nido, MD</td>
<td>Children's Hospital Boston</td>
</tr>
<tr>
<td>3:05 p.m. – 3:25 p.m.</td>
<td>Mitral Regurgitation: Surgical Techniques for Reconstruction</td>
<td>Richard G. Ohye, MD</td>
<td>University of Michigan</td>
</tr>
<tr>
<td>3:25 p.m. – 3:45 p.m.</td>
<td>The Rheumatic Mitral Valve and Repair Techniques in Children</td>
<td>Afksendiyos Kalangos, MD, PhD</td>
<td>University Hospital of Geneva</td>
</tr>
<tr>
<td>Time</td>
<td>Session Title</td>
<td>Presenter(s)</td>
<td>Institution(s)</td>
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<tr>
<td>3:45 p.m. – 4:05 p.m.</td>
<td><strong>The Regurgitant Heterotaxy Valve</strong></td>
<td>Shunji Sano, MD, PhD</td>
<td>Okayama University</td>
</tr>
<tr>
<td>4:05 p.m. – 4:25 p.m.</td>
<td><strong>Resection/Non-Resection Techniques in Degenerative Mitral Disease in Young Adults</strong></td>
<td>David H. Adams, MD</td>
<td>Mount Sinai Medical Center</td>
</tr>
<tr>
<td>4:25 p.m. – 5:00 p.m.</td>
<td><strong>CASE DISCUSSIONS</strong></td>
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<td></td>
</tr>
<tr>
<td>5:00 p.m.</td>
<td><strong>ADJOURN TO WELCOME RECEPTION IN EXHIBIT HALL A</strong></td>
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SUNDAY
MAY 8, 2011

7:55 a.m. – 5:00 p.m. AATS/STS GENERAL THORACIC SURGERY SYMPOSIUM
204 ABC, Pennsylvania Convention Center

Chair: David R. Jones, MD
University of Virginia

Medical Knowledge

This symposium features a number of educational formats including didactic lectures, “How-I-Do-It” sessions, and a debate. In addition to other topics, the current status of the management of Pancoast tumors, stage IIIA NSCLC, esophageal diverticuli, and gastroesophageal cancers will be reviewed by experts in the field. In addition, surgeon experts will discuss technical advances and how to avoid potential pitfalls for a number of operative procedures including thoracoscopic thymectomy, VAMLA and TEMLA, VATS segmentectomy, superior vena cava resection, and reconstruction and chest wall resection and reconstruction. Finally, important updates on the current status of lung cancer screening as well as targeted therapies for NSCLC will be presented.

Course Objectives

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

- Describe the current status of lung cancer screening programs.
- Outline the indications for and results of surgery for patients with stage III (N2) NSCLC.
- Apply and modify practice patterns if indicated on the current treatment strategies for Pancoast resections.
- Develop an understanding of current applications and indication for targeted therapies in lung cancer patients.
- Evaluate and manage intrathoracic esophageal diverticuli.
- Assess and appreciate differences in the surgical approach to repair of giant para-esophageal hiatal hernias.
- Discuss the optimal therapy for GE junction tumors.
- Appreciate and become familiar with new technical approaches to perform a minimally-invasive esophagectomy.
- Delineate the various treatment modalities for managing an esophageal leak.
- List current evidence-based recommendations for induction and adjuvant therapies for lymph node positive esophageal cancer.
Describe the important technical and procedural components to perform several operations including thoracoscopic thymectomy, VATS lymph nodal dissection, VATS segmentectomy, superior vena cava resection, and chest wall resection and reconstruction.

Describe potential technical pitfalls and how to avoid them to improve clinical results in the operative procedures listed above.

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<thead>
<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>8:00 a.m. – 8:10 a.m.</td>
<td>Introduction and Course Overview</td>
<td>David R. Jones, MD&lt;br&gt;University of Virginia</td>
</tr>
<tr>
<td>8:10 a.m. – 8:30 a.m.</td>
<td>Current Status of Lung Cancer Screening</td>
<td>Frank C. Detterbeck, MD&lt;br&gt;Yale University</td>
</tr>
<tr>
<td>8:30 a.m. – 9:00 a.m.</td>
<td>Current Surgical Therapy for Stage IIIA (N2) NSCLC</td>
<td>Valerie W. Rusch, MD&lt;br&gt;Memorial Sloan-Kettering Cancer Center</td>
</tr>
<tr>
<td>9:00 a.m. – 9:30 a.m.</td>
<td>Trimodality Therapy for Pancoast Tumors: Results and Outcomes</td>
<td>David H. Harpole, Jr., MD&lt;br&gt;Duke University</td>
</tr>
<tr>
<td>9:30 a.m. – 10:00 a.m.</td>
<td>Targeted Therapy for NSCLC: Which Drug for Which Patient?</td>
<td>Mark A. Socinski, MD&lt;br&gt;University of North Carolina</td>
</tr>
<tr>
<td>10:00 a.m. – 10:30 a.m.</td>
<td>BREAK</td>
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**SESSION II – BENIGN ESOPHAGEAL DISEASE**

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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 a.m. – 10:50 a.m.</td>
<td>Evaluation and Management of Intrathoracic Esophageal Diverticuli</td>
<td>Benjamin D. Kozower, MD, MPH&lt;br&gt;University of Virginia</td>
</tr>
<tr>
<td>10:50 a.m. – 11:20 a.m.</td>
<td>Surgical Management of End-Stage Achalasia</td>
<td>Stephen C. Yang, MD&lt;br&gt;The Johns Hopkins Hospital</td>
</tr>
</tbody>
</table>
SUNDAY

11:20 a.m. – 12:00 p.m. Surgical Controversies: Open vs. Laparoscopic Repair of Giant Paraesophageal Hiatal Hernia (GPEH) Open Thoracotomy Is Best for GPEH
Henning A. Gaissert, MD
Massachusetts General Hospital

Laparoscopic Repair Is Best for GPEH
Michael A. Maddaus, MD
University of Minnesota

12:00 p.m. – 1:30 p.m. LUNCH SYMPOSIUM
Why We Make Mistakes: Impact on Quality and What Surgeons Can Do About It
Jeffrey S. Young, MD
University of Virginia

SESSION III – ESOPHAGEAL CANCER

1:30 p.m. – 2:00 p.m. Optimal Therapy for GE Junction Tumors
Steven G. Swisher, MD
MD Anderson Cancer Center

2:00 p.m. – 2:20 p.m. Technical Tips for Performing a Minimally Invasive Esophagectomy
Bryan F. Meyers, MD, MPH
Washington University School of Medicine

2:20 p.m. – 2:40 p.m. Management of the Post-Esophagectomy Anastomotic Leak
James S. Allan, MD
Massachusetts General Hospital

2:40 p.m. – 3:00 p.m. Induction and Adjuvant Therapies for Node-Positive Esophageal Cancer
Gail E. Darling, MD
University of Toronto

3:00 p.m. – 3:30 p.m. BREAK
### SESSION IV – SURGICAL TECHNIQUES: HOW I DO IT

<table>
<thead>
<tr>
<th>Time</th>
<th>Lecture</th>
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</table>
| 3:30 p.m. – 3:45 p.m. | **VATS – Mediastinal Lymph Node Dissection for NSCLC**  
Scott J. Swanson, MD  
Brigham and Women’s Hospital |
| 3:45 p.m. – 4:00 p.m. | **Thoracoscopic Thymectomy**  
Stephen D. Cassivi, MD  
Mayo Clinic |
| 4:00 p.m. – 4:15 p.m. | **VATS Segmentectomy**  
Joshua R. Sonett, MD  
Columbia University |
| 4:15 p.m. – 4:30 p.m. | **Superior Vena Cava Resection and Reconstruction**  
Thomas K. Waddell, MD, PhD  
University of Toronto |
| 4:30 p.m. – 4:45 p.m. | **Video-Assisted Mediastinal Lymphadenectomy (VAMLA)**  
Todd L. Demmy, MD  
Roswell Park Cancer Center |
| 4:45 p.m. – 5:00 p.m. | **Chest Wall Resection and Reconstruction**  
Gaetano Rocco, MD  
National Cancer Institute – Italy |
| 5:00 p.m.          | **ADJOURN TO WELCOME RECEPTION IN EXHIBIT HALL A**                   |
SUNDAY, MAY 8, 2011

3:00 p.m. – 5:00 p.m. 14th Annual C. Walton Lillehei Resident Forum
105 AB, Pennsylvania Convention Center
(7 minutes presentation, 8 minutes discussion)

**Chairs:**  J. William Gaynor, MD
Children's Hospital of Philadelphia
Patrick M. McCarthy, MD
Northwestern University

L1. **Serum Levels of Neuron-Specific UCH-L1 Can Predict Brain Injury in a Canine Model of Hypothermic Circulatory Arrest**

George J. Arnaoutakis¹, Timothy J. George¹, Kevin K. Wang⁶, Mary Ann Wilson³,⁷, Jeremiah G. Allen¹, Eric S. Weiss¹, Mary E. Blue³,⁷, C.C. Talbot⁶, Juan C. Troncoso⁴, Michael V. Johnston⁺²,⁷, William A. Baumgartner⁺¹


L2. **Pretreatment Strategy with Adenosine A2A Receptor Agonist Attenuates Reperfusion Injury in a Preclinical Porcine Lung Transplantation Model**

Damien J. LaPar¹, Abbas Emaminia¹, Ivan K. Crosby⁺¹, Ashish K. Sharma¹, Heather M. Sumner², Christine L. Lau⁺¹, Victor E. Laubach¹, Irving L. Kron⁺¹

¹. Surgery, University of Virginia, Charlottesville, VA, United States. ². Pathology, University of Virginia, Charlottesville, VA, United States.

L3. **Selective Left Ventricular Restraint Significantly Decreases Transmural Pressure and Indices of Myocardial Oxygen Consumption**

Suyog A. Mokashi, Lawrence S. Lee, Jan D. Schmitto, Rita Laurence, Siobhan McGurk, Lawrence H. Cohn⁺, R. Morton Bolman, III⁺, Frederick Y. Chen⁺

Cardiac Surgery, Brigham and Women’s Hospital, Boston, MA, United States.
L4. Cardioprotection Against Myocardial Infarction by Ischemic Pre- and Post-Conditioning are Both Completely Abrogated by Acute Hyperglycemia
Sara A. Hennessy1, Zequan Yang1, Yuan Liu1, David R. Jones+1, Brent A. French2, Irving L. Kron+1
1. Department of Surgery, University of Virginia, Charlottesville, VA, United States. 2. Department of Biomedical Engineering, University of Virginia, Charlottesville, VA, United States.

L5. The Bone Marrow Microenvironment Induces a “Mesenchymal/Stem Cell” Phenotype and Therapeutic Resistance in Non-Small Cell Lung Cancer Cells
Antonio Coppolino1, Ding Cheng Gao1, Raffaella Sordella2, Vivek Mittal1, Nasser K. Altorki+1, Brendon M. Stiles1

L6. Hypercholesterolemia and Chronic Ischemia Alter Myocardial Responses to Selective Cyclooxygenase-2 Inhibition
Louis M. Chu1, Michael Robich1,2, Antonio D. Lassaletta1, Shu-hua Xu2, Thomas Burgess1, Yuhong Liu1, Nicholas Sellke1, Frank W. Sellke+1
1. Surgery, Alpert Medical School of Brown University, Providence, RI, United States. 2. Surgery, Beth Israel Deaconess Medical Center, Boston, MA, United States.

L7. Lung Cancer Tumor-Initiating Cells Overexpress GADD34 and Are Sensitive to Viral Oncolysis
Joshua Carson1,2, Susanne Carpenter1, Drew Marano1, Valerie W. Rusch+1,2, Yuman Fong1
1. Surgery, Memorial Sloan-Kettering Cancer Center, New York, NY, United States. 2. Thoracic Surgery, Memorial Sloan-Kettering Cancer Center, New York, NY, United States.

L8. Statins Attenuate Growth and Malignant Potential of Human Esophageal Adenocarcinoma Cells
Miral R. Sadaria1, Amy E. Reppert1, Jessica A. Yu1, Xianzhong Meng1, David A. Fullerton+1, T. Brett Reece1, Michael J. Weyant1
1. Surgery, University of Colorado at Denver and Health Sciences Center, Aurora, CO, United States.

5:00 p.m. ADJOURN TO WELCOME RECEPTION IN EXHIBIT HALL A
MONDAY, MAY 9, 2011

7:30 a.m.  Business Session
(AATS Members Only)
Ballroom AB, Pennsylvania Convention Center

7:45 a.m.  PLENARY SCIENTIFIC SESSION
Ballroom AB, Pennsylvania Convention Center
(8 minutes presentation, 12 minutes discussion)

Moderators:  Irving L. Kron, MD
             Thoralf M. Sundt, III, MD

1. Late Breaking Clinical Trial:
Frequency and Severity of Neurologic Events After Aortic Valve Replacement or Transcatheter Aortic Valve Implantation in High Surgical Risk Patients with Aortic Stenosis: The PARTNER Trial Stroke Substudy
D. Craig Miller+ on behalf of the PARTNER Trial Investigators.
Invited Discussant:  John G. Byrne, MD

2. A Prospective Controlled Trial of Endobronchial Ultrasound-Guided Transbronchial Needle Aspiration Compared to Mediastinoscopy for Mediastinal Lymph Node Staging of Lung Cancer
Kazuhiro Yasufuku+1, Andrew Pierre1, Gail E. Darling+1, Marc de Perrot+1, Thomas K. Waddell+1, Michael R. Johnston+1, Gilda D. Santos2, William R. Geddie2, Scott Boerner2, Shaf Keshavjee+1
1. Division of Thoracic Surgery, Toronto General Hospital, University Health Network, University of Toronto, Toronto, ON, Canada. 2. Department of Pathology, Toronto General Hospital, University Health Network, University of Toronto, Toronto, ON, Canada.
Invited Discussant:  Joel D. Cooper, MD

3. Intra-Operative Adverse Events Can Be Compensated in Infants After Cardiac Surgery: A Prospective Study
Meena Nathan1, John M. Karamichalis1, Hua Liu1, Pedro J. del Nido+1, Frank A. Pigula+1, Ravi Thiagarajan1, Emile A. Bacha+2
1. Cardiac Surgery, Children’s Hospital Boston, Boston, MA, United States. 2. Cardiac Surgery, Morgan Stanley Children’s Hospital of New York, New York, NY, United States.
Invited Discussant:  Marc R. de Leval, MD

+AATS Member
4. On-Pump vs. Off-Pump Coronary Artery Bypass Surgery in High-Risk Patients: Operative Results of a Prospective Randomized Trial (On-Off Study)

Massimo Lemma¹, Enrico Coscioni², Francesco P. Tritto³, Paolo Centofanti⁴, Corrado Fondacone⁵, Andrea Salica⁶, Monica Contino¹, Agnese Rossi⁷, Tiziana De Santo⁷, Giuseppe Di Benedetto², Luigi Piazza³, Mauro Rinaldi⁸, Luigi De Luca Tuppunti Schinosa³, Ruggero De Paulis⁹, Michele Genoni⁸

1. Cardiac Surgery, Luigi Sacco University Hospital, Milano, Italy. 2. Cardiac Surgery, S. Giovanni di Dio e Ruggi d’Aragona General University Hospital, Salerno, Italy. 3. Cardiac Surgery, S. Anna e S. Sebastiano Hospital, Caserta, Italy. 4. Cardiac Surgery, S. Giovanni Battista University General Hospital, Torino, Italy. 5. Cardiac Surgery, Bari University Hospital, Bari, Italy. 6. Cardiac Surgery, European Hospital, Roma, Italy. 7. Cardiovascular, Medtronic Inc., Milano, Italy. 8. Cardiac Surgery, City Hospital of Zurich, Zurich, Switzerland.

Invited Discussant: Bruce W. Lytle, MD

9:05 a.m. AWARD PRESENTATIONS

Scientific Achievement Award
Marc R. de Leval, MD
International Congenital Cardiac Centre

C. Walton Lillehei Resident Forum Award

TSRA McGoon Award

TSFRE Report

9:20 a.m. INTERMISSION – VISIT EXHIBITS/COFFEE BREAK

Exhibit Hall A

10:00 a.m. BASIC SCIENCE LECTURE

“Public Support of Biomedical Research”

Susan B. Shurin, MD
National Heart, Lung and Blood Institute, NIH

Introduced By: Irving L. Kron, MD

*AATS Member
10:40 a.m.  
**PLENARY SCIENTIFIC SESSION**

*Moderators:* Craig R. Smith, MD  
Thoralf M. Sundt, III, MD

5. **Institutional Volume Modifies the Effect of Recipient Risk on Short-Term Mortality for Patients Receiving Orthotopic Heart Transplantation**
   George J. Arnaoutakis¹, Timothy J. George¹, Stuart D. Russell², Ashish S. Shah*¹, John V. Conte*¹, Eric S. Weiss¹
   1. Division of Cardiac Surgery, The Johns Hopkins Hospital, Baltimore, MD, United States. 2. Division of Cardiology, The Johns Hopkins Medical Institutions, Baltimore, MD, United States.
   
   *Invited Discussant:* R. Duane Davis, MD

6. **Expanding the Indications for Septal Myectomy in Patients with Hypertrophic Cardiomyopathy: Results of Operation in Patients with Latent Obstruction**
   Hartzell V. Schaff*, Joseph A. Dearani*, Steve R. Ommen, Paul Sorajja, Rick A. Nishimura
   Mayo Clinic, Rochester, MN, United States.
   
   *Invited Discussant:* Ralph J. Damiano, Jr., MD

11:25 a.m.  
**PRESIDENTIAL ADDRESS:**

“Surgical Mentoring”
Irving L. Kron, MD  
University of Virginia

*Introduced By:* Craig R. Smith, MD

12:15 p.m.  
**ADJOURN FOR LUNCH – VISIT EXHIBITS**

*Exhibit Hall A*
**MONDAY, MAY 9, 2011**

**1:00 p.m.**  
*Building the Hybrid OR of the Future***  
*108 AB, Pennsylvania Convention Center*

**Chairs:** Raphael Bueno, MD  
Brigham and Women's Hospital  
John Byrne, MD  
Vanderbilt Heart & Vascular Institute

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<tr>
<td>1:00 p.m. – 1:05 p.m.</td>
<td>Opening Remarks</td>
<td></td>
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</table>
| 1:05 p.m. – 1:25 p.m.   | How to Convince Your Hospital Administrators to Fund a Hybrid OR    | Joseph E. Bavaria, MD  
University of Pennsylvania                                                      |
| 1:25 p.m. – 1:45 p.m.   | How to Put the Team Together                                         | Steven J. Hoff, MD  
Vanderbilt Heart & Vascular Institute                                           |
| 1:45 p.m. – 2:05 p.m.   | Pitfalls & Lessons Learned                                           | Raphael Bueno, MD  
Brigham and Women's Hospital                                                      |
| 2:05 p.m. – 2:25 p.m.   | What Determines Success vs. Failure?                                 | Michael J. Mack, MD  
Baylor Health Care System                                                           |
| 2:25 p.m. – 2:45 p.m.   | Where Does the Hybrid OR Fit in a World of Value Based Reimbursement? | John R. Doty, MD  
Intermountain Medical Center                                                       |
| 2:45 p.m. – 3:05 p.m.   | BREAK                                                               |                                                                           |
| 3:05 p.m. – 3:25 p.m.   | Hybrid Organization: The Cardiologist Is your Friend (Really)       | John G. Byrne, MD  
Vanderbilt Heart & Vascular Institute                                               |
| 3:25 p.m. – 3:45 p.m.   | Case Presentation: Cardiac Procedure                                | Wilson Y. Szeto, MD  
University of Pennsylvania                                                            |
| 3:45 p.m. – 4:05 p.m.   | Case Presentation: TEVAR Endovascular Case                           | Eric E. Roselli, MD  
Cleveland Clinic                                                                 |

* This session is not accredited.
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<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 4:05 p.m. – 4:25 p.m. | **Case Presentation: Robotic Hybrid CABG/PCI Case**  
Mark Vesely, MD  
University of Maryland Heart Center |
| 4:25 p.m. – 5:30 p.m. | **Building the ICU of the Future**  
Neil A. Halpern, MD  
Memorial Sloan-Kettering Cancer Center  
Robert N. Sladen, MD  
Columbia University |
| 5:30 p.m.         | ADJOURN                                                               |

**SIMULTANEOUS SCIENTIFIC SESSIONS**

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<td>2:00 p.m.</td>
<td><strong>ADULT CARDIAC SURGERY</strong></td>
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<td><strong>SIMULTANEOUS SCIENTIFIC SESSION</strong></td>
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<td><em>Ballroom AB, Pennsylvania Convention Center</em></td>
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<td>(8 minutes presentation, 12 minutes discussion)</td>
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|               | **Moderators:** Ottavio R. Alfieri, MD  
R. Morton Bolman, III, MD |
| 7.            | **Angiographic Predictors of Three Years Patency of Bypass Grafts Implanted to the Right Coronary Artery: A Prospective Randomized Comparison of Gastroepiploïc Artery, Saphenous Vein Grafts and Right ITA**  
David Glineur, William D’hoore, Claude Hanet, Laurent de Kerchove, Parla Astarci, Phillipe Noirhomme, Gebrine El Khoury  
*Cliniques Universitaire St-Luc, Bruxelles, Belgium.* |
|               | **Invited Discussant:** Joseph F. Sabik, III, MD |
| 8.            | **Mitral Valve Surgery in Patients with Ischemic Cardiomyopathy and Mitral Regurgitation: The Impact of Repair vs. Replacement**  
Simon Maltais, Hartzell V. Schaff, Richard C. Daly, Thoralf M. Sundt, III, Joseph A. Dearani, Rakesh M. Suri, Harold M. Burkhart, Kevin L. Greason, Yan Topilsky, Soon J. Park  
*Division of Cardiovascular Surgery, Mayo Clinic College of Medicine, Rochester, MN, United States.* |
|               | **Invited Discussant:** Patrick M. McCarthy, MD |

*AATS Member*
9. **Prophylactic Tricuspid Annuloplasty in Patients with Dilated Tricuspid Annulus Undergoing Mitral Valve Surgery**
   Umberto Benedetto, Giovanni Melina, Emiliano Angeloni, Antonino Roscitano, Riccardo Sinatra
   *Cardiac Surgery, University of Rome, Rome, Italy.*
   **Invited Discussant:** W. Randolph Chitwood, Jr., MD

3:00 p.m. **INTERMISSION – VISIT EXHIBITS/COFFEE BREAK**
   *Exhibit Hall A*

3:35 p.m. **ADULT CARDIAC SURGERY SIMULTANEOUS SCIENTIFIC SESSION**
   *Ballroom AB, Pennsylvania Convention Center*
   **Moderators:** Ottavio R. Alfieri, MD
   R. Morton Bolman, III, MD

10. **Trends in Isolated Coronary Artery Bypass Grafting: An Analysis of the STS Adult Cardiac Surgery Database**
    Andrew W. ElBardissi, James S. Gammie†, Shubin Sheng, Sean M. O’Brien, Caprice Greenberg, Sary F. Aranki†
    *Department of Surgery, Brigham and Women’s Hospital, Boston, MA, United States.*
    **Invited Discussant:** T. Bruce Ferguson, Jr., MD

11. **Robotic Mitral Valve Repair for All Prolapse Subsets Using Techniques Identical to Open Valvuloplasty: Establishing the Benchmark Against Which Percutaneous Interventions Should Be Judged**
    Rakesh M. Suri, Harold M. Burkhart†, Richard C. Daly†, Thoralf M. Sundt, III†, Joseph A. Dearani†, Soon J. Park†, Zhuo Li, Maurice Enriquez-Sarano, Hartzell V. Schaff†
    *Cardiovascular Surgery, Mayo Clinic, Rochester, MN, United States.*
    **Invited Discussant:** Lawrence H. Cohn, MD

12. **Continue Biatrial Pacing to Prevent Early Recurrence of Atrial Fibrillation After Maze Procedure**
    William Wang¹, Donald Buehler¹, Xiao Dong Feng², ChuiYe Zhang²
    ¹. *Department of Cardiothoracic Surgery, Scripps Memorial Hospital, La Jolla, CA, United States. 2. Department of Cardiac Surgery, Shanxi Cardiovascular Hospital, Taiyuan, Shanxi, China.*
    **Invited Discussant:** Michael Argenziano, MD

* AATS Member
13. **Effect of Sensitization in U.S. Bridge to Transplant Patients: Update in a Modern Cohort**

George J. Arnaoutakis¹, Timothy J. George¹, Arman Kilic¹, Stuart D. Russell², John V. Conte+¹, Ashish S. Shah+¹

1. Division of Cardiac Surgery, The Johns Hopkins Hospital, Baltimore, MD, United States. 2. Cardiology, The Johns Hopkins Medical Institutions, Baltimore, MD, United States.

**Invited Discussant:** Carmelo A. Milano, MD

5:00 p.m. – 6:15 p.m. **Coronary Artery Disease in 2011 and Beyond—What the Surgeon Needs to Know About Three Year Syntax Outcomes, Other Randomized Controlled Trials in CAD and the New CABG Guidelines**

*Ballroom AB, Pennsylvania Convention Center*

**Moderator:** John D. Puskas, MD

Emory University

6:15 p.m. **ADJOURN**

2:00 p.m. **CONGENITAL HEART DISEASE SIMULTANEOUS SCIENTIFIC SESSION**

*201 ABC, Pennsylvania Convention Center*

(8 minutes presentation, 12 minutes discussion)

**Moderators:** Emile A. Bacha, MD

V. Mohan Reddy, MD

14. **Anatomical Repair for Congenitally Corrected Transposition of the Great Arteries: Mid-Term Results of a Single Institution, 18-Year Experience**

Bari Murtuza¹, Donna Eaton¹, Oliver Stumper², John Stickley¹, Timothy J. Jones¹, David J. Barron¹, William J. Brawn¹

1. Cardiac Surgery, Birmingham Children's Hospital, Birmingham, United Kingdom. 2. Cardiology, Birmingham Children's Hospital, Birmingham, United Kingdom.

**Invited Discussant:** Richard A. Jonas, MD

15. **Effect of Normothermic Cardiopulmonary Bypass on Renal Injury in Pediatric Cardiac Surgery: A Randomized Controlled Trial**

Massimo Caputo¹,², Nishith N. Patel¹, Chris Rogers¹, Paolo de Siena², Serban Stoica², Gianni D. Angelini+¹, Andrew Parry²

1. Bristol Heart Institute, University of Bristol, Bristol Royal Infirmary, Bristol, United Kingdom. 2. Pediatric Cardiac Surgery, University Hospitals Bristol NHS Foundation Trust, Bristol Royal Hospital for Children, Bristol, United Kingdom.

**Invited Discussant:** Richard G. Ohye, MD

*¹AATS Member
16. **Arterial Switch Operation in the First Hours of Life Using Autologous Umbilical Cord Blood**

   K. Chasovskyi¹, O. Fedevych², G. Vorobiova³, V. Zhovnir⁴, A. Maksimenko⁵, O. Boychenko⁶, J. Lysak⁷, G. Cohen⁸, I. Yemets²

   1. Perfusiology, Ukrainian Children's Cardiac Center, Kyiv. 2. Surgery, Ukrainian Children's Cardiac Center, Kyiv. 3. Immunology, Ukrainian Children's Cardiac Center, Kyiv. 4. Intensive Care, Ukrainian Children's Cardiac Center, Kyiv. 5. Anesthesiology, Ukrainian Children's Cardiac Center, Kyiv. 6. Surgery, Seattle Children's Hospital, USA.

   **Invited Discussant:** Ralph S. Mosca, MD

17. **Outcome of Size Disparity of Transplanted Hearts on Cardiac Growth in Infants and Children**

   Eva Maria Delmo Walter, Roland Hetzer⁺

   Deutsches Herzzentrum Berlin, Berlin, Germany.

   **Invited Discussant:** Charles B. Huddleston, MD

3:20 p.m. **INTERMISSION – VISIT EXHIBITS/COFFEE BREAK**

3:55 p.m. **CONGENITAL HEART DISEASE SIMULTANEOUS SCIENTIFIC SESSION**

   **201 ABC, Pennsylvania Convention Center**

   **Moderators:** Emile A. Bacha, MD
   V. Mohan Reddy, MD

18. **Very Low Birth Weight Infants with Congenital Cardiac Lesions: Is There Merit in Delaying Intervention to Permit Growth and Maturation?**

   Edward J. Hickey¹, Yaroslavna Nosikova¹, Hargen Zhang¹, Alyssa Parpia¹, Johann Lue¹, Christopher A. Caldarone⁺¹, Lee Benson², Andrew N. Redington², Glen Van Arsdell⁺¹

   1. Cardiovascular Surgery, The Hospital for Sick Children, Toronto, ON, Canada.
   2. Cardiology, The Hospital for Sick Children, Toronto, ON, Canada.

   **Invited Discussant:** Scott M. Bradley, MD

19. **Outcomes in Adult Congenital Heart Surgery: Analysis of the Society of Thoracic Surgeons (STS) Congenital Heart Surgery Database**

   Christopher E. Mascio¹, Sara K. Pasquali², Jeffrey P. Jacobs⁺³, Gregory Shook², Marshall L. Jacobs⁺⁴, Erle H. Austin⁺¹

   1. University of Louisville, Louisville, KY, United States. 2. Duke University, Durham, NC, United States. 3. University of South Florida, Tampa, FL, United States. 4. Cleveland Clinic Foundation, Cleveland, OH, United States.

   **Invited Discussant:** Joseph A. Dearani, MD

⁺AATS Member
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| 20.     | The Effect of Morphology on Outcomes Following the Sano-Norwood       | Bari Murtuza¹, Douglas Wall¹, Oliver Stumper², John Stickley¹, Timothy J. Jones¹, David J. Barron¹, William J. Brawn¹                     | 1. Cardiac Surgery, Birmingham Children's Hospital, Birmingham, United Kingdom. 2. Cardiology, Birmingham Children's Hospital, Birmingham, United Kingdom.  
*Invited Discussant:* Charles D. Fraser, Jr., MD |
| 5:00 p.m.| Coronary Artery Disease in 2011 and Beyond—What the Surgeon Needs to Know About Three Year Syntax Outcomes, Other Randomized Controlled Trials in CAD and the New CABG Guidelines | John D. Puskas, MD                                                                                                                      | Moderator: John D. Puskas, MD Emory University                          |
| 6:15 p.m.| ADJOURN                                                                 |                                                                                                                                           |                                                                       |
| 2:00 p.m.| GENERAL THORACIC SURGERY SIMULTANEOUS SCIENTIFIC SESSION            |                                                                                                                                           |                                                                       |
| 21.     | Randomized Comparison of Awake Nonresectional vs. Nonawake Resectional Lung Volume Reduction Surgery | Eugenio Pompeo¹, Federico Tacconi¹, Mario Dauri², Paola Rogliani³, Cesare Saltini³, Giuseppe Novelli⁴, Tommaso C. Mineo¹                  | 1. Cattedra di Chirurgia Toracica, Policlinico Universitario Tor Vergata, Rome, Italy. 2. Anesthesiology, Tor Vergata University, Rome, Italy. 3. Pneumology, Tor Vergata University, Rome, Italy. 4. Biopathology and Diagnostic Imaging, Tor Vergata University, Rome, Italy.  
*Invited Discussant:* Bryan F. Meyers, MD, MPH |
22. A Phase II Trial of Surgical Resection Following Neoadjuvant Concurrent Chemotherapy and High Dose Radiotherapy for Stage III NSCLC: RTOG 0229

Mark J. Krasna1, Rebecca Paulus3, Mohan Suntharalingam2, Martin Edelman2, Whitney Burrows3, Elizabeth Gore5, Sue S. Yom6, Hok Choy4

1. St. Joseph’s Medical Center, Towson, MD, United States. 2. Greenebaum Cancer Center, University of Maryland, Baltimore, MD, United States. 3. RTOG Statistical Center, Philadelphia, PA, United States. 4. University of Texas Southwestern Medical School, Dallas, TX, United States. 5. Medical College of Wisconsin, Milwaukee, WI, United States. 6. University of California San Francisco, San Francisco, CA, United States.

Invited Discussant: Marc de Perrot, MD, MSc

23. Outcome of Patients with Pulmonary Arterial Hypertension Referred for Lung Transplantation – A 14-Year Single-Center Experience

Marc de Perrot+1,2, John Granton2,3, Karen McRae2, Andrew Pierre1,2, Lianne Singer3, Thomas K. Waddell+1,2, Shaf Keshavjee+1,2

1. Thoracic Surgery, Toronto General Hospital, Toronto, ON, Canada. 2. Toronto Lung Transplant Program, Toronto General Hospital, Toronto, ON, Canada. 3. Pulmonary Hypertension Program, Toronto General Hospital, Toronto, ON, Canada.

Invited Discussant: Kenneth R. McCurry, MD

24. Efficacy of Low-Dose Human Atrial Natriuretic Peptide on Postoperative Cardio-Pulmonary Complications in Elderly Patients Undergoing Pulmonary Resection for Lung Cancer

Takashi Nojiri1, Masayoshi Inoue1, Masato Minami1, Noriyoshi Sawabata1, Yoshihisa Kadota1, Yasushi Shintani1, Tomoyuki Nakagiri1, Kazuhiro Yamamoto2, Hajime Maeda1, Yukiyasu Takeuchi1, Yasunobu Funakoshi3, Meinoshin Okumura1

1. General Thoracic Surgery, Osaka University Graduate School of Medicine, Suita-City, Osaka, Japan. 2. Cardiology, Osaka University Graduate School of Medicine, Suita-City, Osaka, Japan. 3. General Thoracic Surgery, National Toneyama Hospital, Toyonaka-City, Osaka, Japan.

Invited Discussant: Mark K. Ferguson, MD

3:20 p.m. INTERMISSION – VISIT EXHIBITS/COFFEE BREAK
Exhibit Hall A
3:55 p.m.  GENERAL THORACIC SURGERY
SIMULTANEOUS SCIENTIFIC SESSION

Moderators:  Bryan F. Meyers, MD, MPH
             Joseph B. Shrager, MD

25.  The Optimization of Mediastinal Staging in Potential Candidates for
     Stereotactic Radiosurgery of the Chest
     Devadatta Sarwate\textsuperscript{2}, Constantine M. Burgan\textsuperscript{2}, William S. Krimsky\textsuperscript{1,2},
     Kalpesh Patel\textsuperscript{1}, Saiyad Sarkar\textsuperscript{1,2}, Daniel P. Harley\textsuperscript{1}
     \textit{1. Thoracic Surgery, Franklin Square Hospital, Baltimore, MD, United States.}
     \textit{2. Pulmonary Medicine, Franklin Square Hospital, Baltimore, MD, United States.}
     \textit{Invited Discussant:}  Richard I. Whyte, MD

26.  Pulmonary Artery Reconstruction for Lung Cancer: Surgical Techniques
     and Long-Term Results
     Domenico Galetta, Piergiorgio Solli, Alessandro Borri, Roberto I. Gasparri,
     Francesco Petrella, Lorenzo Spaggiari
     \textit{Division of Thoracic Surgery, European Institute of Oncology, Milan, Italy.}
     \textit{Invited Discussant:}  Scott J. Swanson, MD

27.  Neoadjuvant Chemoradiation Followed by Surgery for Esophageal
     Adenocarcinoma: Significance of Microscopically Positive Circumferential
     Margins
     John A. Harvin, Guy Lahat, Arlene M. Correa, Jared J. Lee, Dipen Maru,
     Jaffer A. Ajani, Edith M. Marom, James Welsh, Garrett L. Walsh\textsuperscript{+}, Jack A.
     Roth\textsuperscript{+}, Reza J. Mehran\textsuperscript{+}, Ara A. Vaporciyan\textsuperscript{+}, David C. Rice\textsuperscript{+}, Stephen G. Swisher\textsuperscript{+},
     Wayne L. Hofstetter
     \textit{Department of Thoracic and Cardiovascular Surgery, University of Texas M.D.}
     \textit{Anderson Cancer Center, Houston, TX, United States.}
     \textit{Invited Discussant:}  Gail E. Darling, MD

\textsuperscript{+}AATS Member
**5:00 p.m.**

**Late Breaking Session:**

*Coronary Artery Disease in 2011 and Beyond—What the Surgeon Needs to Know About Three Year Syntax Outcomes, Other Randomized Controlled Trials in CAD and the New CABG Guidelines*

*Ballroom AB, Pennsylvania Convention Center*

**Moderator:** John D. Puskas, MD
Emory University

**5:00 p.m. – 5:10 p.m.**

**The Syntax Trial 3-Year Outcomes: Cardiologist’s Perspective**
Martin B. Leon, MD
Columbia University Medical Center/Cardiovascular Research Foundation

**5:10 p.m. – 5:15 p.m.**

**Questions**

**5:15 p.m. – 5:25 p.m.**

**The Syntax Trial 3-Year Outcomes: Surgeon’s Perspective**
Michael J. Mack, MD
Baylor Health Care System

**5:25 p.m. – 5:30 p.m.**

**Questions**

**5:30 p.m. – 5:40 p.m.**

**Why Randomized Trials in CAD Are Important to Surgeons and How to Discuss Them with Your Cardiologists**
John D. Puskas, MD
Emory University

**5:40 p.m. – 5:45 p.m.**

**Questions**

**5:45 p.m. – 5:55 p.m.**

**Why the New European Guidelines for the Management of Coronary Artery Disease Are Important to All Cardiac Surgeons**
A. Pieter Kappetein, MD, PhD
Erasmus MC

**5:55 p.m. – 6:00 p.m.**

**Questions**

**6:00 p.m. – 6:10 p.m.**

**The EXCEL Trial—The Natural Extension of the Syntax Trial**
Joseph F. Sabik, III, MD
Cleveland Clinic

**6:10 p.m. – 6:15 p.m.**

**Questions**

**6:15 p.m.**

**ADJOURN**
TUESDAY, MAY 10, 2011

7:00 a.m. CARDIAC SURGERY FORUM SESSION
Ballroom AB, Pennsylvania Convention Center
(5 minutes presentation, 5 minutes discussion)

Moderators: R. Duane Davis, MD
Y. Joseph Woo, MD

F1. Enhanced Cell-Matrix Interface Proteolytic Activity in Thoracic Aortic Aneurysms: Relationship to Aneurysm Expansion
Jeffrey A. Jones¹², Elizabeth O’Quinn¹, Robert E. Stroud¹, Joseph E. Bavaria+³, Joseph H. Gorman¹³, Robert C. Gorman¹³, Francis G. Spinale⁺¹², John S. Ikonomidis⁺¹
1. Medical University of SC, Charleston, SC, United States. 2. Division of Cardiothoracic Surgery, Ralph H. Johnson Veterans Affairs Medical Center, Charleston, SC, United States. 3. Department of Cardiothoracic Surgery, University of Pennsylvania, Philadelphia, PA, United States.
Invited Discussant: Gorav Ailawadi, MD

F2. Metabolic Characteristics of Human Hearts Preserved for 12 Hours By Static Storage, Antegrade Perfusion or Retrograde Coronary Sinus Perfusion
Matthias Peltz¹, Michael L. Cobert¹, Matthew E. Merritt², LaShondra M. West¹, Michael E. Jessen⁺¹
1. Cardiovascular and Thoracic Surgery, University of Texas Southwestern Medical Center at Dallas, Dallas, TX, United States. 2. Advanced Imaging Research Center, University of Texas Southwestern Medical Center at Dallas, Dallas, TX, United States.
Invited Discussant: Bruce R. Rosengard, MD

F3. Novel Regenerative Therapy Using Cell-Sheet Covered with Omentum Flap to Deliver Huge Numbers of Cells in a Porcine Myocardial Infarction Model
Yasuhiro Shudo, Shigeru Miyagawa, Atsushi Saito, Taichi Sakaguchi, Satoshi Kainuma, Toru Kuratani, Yoshiki Sawa
Department of Cardiovascular Surgery, Osaka University Graduate School of Medicine, Suita, Osaka, Japan.
Invited Discussant: Vivek Rao, MD, PhD

F4. Association of Stem Cells with a Biological Scaffold and Ventricular Constraint Device for Ischemic Cardiomyopathy
Abdel Shafy¹, Trine Fink², Vladimir Zachar², Nermine Lila¹, Alain F. Carpentier+¹, Juan C. Chachques+¹
1. Cardiovascular Surgery, Pompidou Hospital, Paris, France. 2. Laboratory for Stem Cell Research, Aalborg University, Aalborg, Denmark.
Invited Discussant: Robert C. Robbins, MD

* AATS Member
F5. **Evaluation of the Use of an iPS Cell Sheet for the Construction of Tissue-Engineered Vascular Grafts**
Narutoshi Hibino, Daniel R. Duncan, Ani Nalbandian, Dane Mejias, Lesley Devine, Tai Yi, Yuji Naito, Yibing Qyang, Christopher Breuer, Toshiharu Shinoka*

*Surgery, Yale University, New Haven, CT, United States.*

*Invited Discussant:* John E. Mayer, Jr., MD

F6. **A Novel Mechanism of Action of Transmyocardial Revascularization: Induction of Mesenchymal Stem Cell Transmigration and Engraftment Via Upregulation of Stem Cell Factor and Stromal Derived Factor-1**
Terrence M. Yau*, Uswa Shahzad, Guangming Li, Yaoguang Zhang

*Toronto General Hospital, Toronto, ON, Canada.*

*Invited Discussant:* Keith A. Horvath, MD

F7. **Sildenafil Citrate, a Phosphodiesterase-5 Inhibitor, Prevents Post Cardiopulmonary Bypass Acute Kidney Injury**
Nishith N. Patel1, Tibor Toth2, Ceri Jones1, Hua Lin1, Paramita Ray3, Sarah J. George1, Gavin I. Welsh4, Simon C. Satchell5, Gianni D. Angelini*1, Gavin J. Murphy1

1. Bristol Heart Institute, University of Bristol, Bristol Royal Infirmary, Bristol, United Kingdom. 2. Histopathology, North Bristol NHS Trust, Southmead Hospital, Bristol, United Kingdom. 3. Anesthesia and Critical Care, Weston General Hospital, Weston Super Mare, United Kingdom. 4. Academic Renal Unit, University of Bristol, Southmead Hospital, Bristol, United Kingdom.

*Invited Discussant:* Jennifer S. Lawton, MD

F8. **Selective microRNA Induction with Progressive Aortic Stenosis: Relation to Profibrotic Pathways**
William M. Yarbrough1,2, Rupak Mukherjee1, Robert E. Stroud1, William T. Rivers1, Richard A. McKinney1, Jennifer A. Dixon1, Shaina R. Eckhouse1, John S. Ikonomidis*1,2, Francis G. Spinale*1,2

1. Medical University of SC, CT Surgery, Charleston, SC, United States. 2. Ralph H. Johnson Veterans’ Association, Charleston, SC, United States.

*Invited Discussant:* Joseph D. Schmoker, MD

F9. **Reversible Pulmonary Trunk Banding—VI: Glucose-6-Phosphate Dehydrogenase Activity in Rapid Ventricular Hypertrophy of Young Goats**
Renato S. Assad1, Fernando A. Atik2, Fernanda Oliveira1, Miriam Alaniz1, Maria C. Abduch1, Gustavo Justo1, Jose E. Krieger1, Noedir Stolf1

1. Cardiovascular Surgery, Heart Institute, University of Sao Paulo Medical School, Sao Paulo, SP, Brazil. 2. Cardiovascular Surgery, Instituto de Cardiologia do Distrito Federal, Brasilia, DF, Brazil.

*Invited Discussant:* William J. Brawn, MD

*AATS Member*
F10. Levosimendan Is Superior to Epinephrine in Improving Myocardial Function After Cardiopulmonary Bypass (CPB) with Deep Hypothermic Circulatory Arrest in Rats
Alessio Rungatscher, Daniele Linardi, Mohammed Morjan, Matteo Ortolani, Maddalena Tessari, Tiziano Menon, Alessandro Mazzucco, Giuseppe G. Faggian
Department of Surgery, Division of Cardiac Surgery, University of Verona, Verona, Italy.
Invited Discussant: Paul M. Kirshbom, MD

7:00 a.m. GENERAL THORACIC SURGERY FORUM SESSION
204 ABC, Pennsylvania Convention Center
(5 minutes presentation, 5 minutes discussion)
Moderators: Yolonda L. Colson, MD, PhD
Thomas K. Waddell, MD

F11. Comparison Between Epidermal Growth Factor Receptor (EGFR) Gene Expression in Primary Non-Small Cell Lung Cancer (NSCLC) and in the Corresponding Recurrent Lung Tumor
Peng Zhang, Geing Jiang
Shanghai Pulmonary Hospital of Tongji University, Shanghai, China.
Invited Discussant: Raphael Bueno, MD

F12. A Novel Diagnostic Method of Non-Small Cell Lung Cancer Using Multiplexed Bead-Based Serum Biomarker Profiling
Hyun Joo Lee1,3, Young T. Kim1,2, Pil Je Park4, Hyun Cho Wi1, Yong Sung Shin4, Yoo Jin Jung1, Kyung Nam Kang5, Youngdai Kim5, Chul Woo Kim6
1. Department of Molecular Oncology, Cancer Research Institute, Seoul National University Graduate School of Medicine, Seoul, Korea, Republic of. 2. Department of Thoracic and Cardiovascular Surgery, Clinical Research Institute, Seoul National University Hospital, Seoul, Korea, Republic of. 3. National Evidence-based Healthcare Collaborating Agency, Seoul, Korea, Republic of. 4. BioInfra Inc., Cancer Research Institute, Seoul National University College of Medicine, Seoul, Korea, Republic of. 5. Statistics, Seoul National University, Seoul, Korea, Republic of. 6. Pathology, Cancer Research Institute, Tumor Immunity Medical Research Center, Seoul National University College of Medicine, Seoul, Korea, Republic of.
Invited Discussant: Daniel Kreisel, MD, PhD

*AATS Member
F13. **NSCLC Gene Profiles Correlate with Specific CT Characteristics: “Imageomics”**
Chuong D. Hoang¹, Sandy Napel², Olivier Gevaert², Yue Xu¹, Daniel Rubin², Ann Leung², Andrew Quon², Robert E. Merritt¹, Richard I. Whyte+¹, Joseph B. Shrager+¹, Sylvia Plevritis²
1. Cardiothoracic Surgery, Stanford University, Stanford, CA, United States.
2. Radiology, Stanford University, Stanford, CA, United States.
*Invited Discussant:* David H. Harpole, Jr., MD

F14. **Interleukin 1 Beta Gene Expression in Peripheral Blood Mononuclear Cells as a Marker for Stage I Lung Cancer**
Robert J. Korst+¹, David H. Chang¹, Leonard H. Augenlicht², John Rutledge¹, Benjamin E. Lee¹
2. Oncology, Montefiore Medical Center, Bronx, NY, United States.
*Invited Discussant:* Thomas K. Waddell, MD, MSc, PhD

F15. **Receptor for Advanced Glycation Endproducts (RAGE) Signaling Mediates Acute Hyperglycemic Exacerbation of Experimental Lung Ischemia-Reperfusion Injury**
Damien J. LaPar, Ashish K. Sharma, Vanessa A. Hajzus, Sara A. Hennessy, Yunge Zhao, Christine L. Lau⁺, Victor E. Laubach, Irving L. Kron⁺
Surgery, University of Virginia, Charlottesville, VA, United States.
*Invited Discussant:* Michael S. Mulligan, MD

F16. **Neoadjuvant Tumor Vaccination Provides Superior Long-Term Outcomes for Thoracic Malignancies as Compared to Standard Adjuvant Protocols**
Jarrod D. Predina¹, Zvi G. Fridlender², Brendan F. Judy¹, Veena Kapoor¹², Aaron Blouin¹, Natalie Ridge¹, Steven M. Albelda², Sunil Singhal¹
1. Division of Thoracic Surgery, University of Pennsylvania School of Medicine, Philadelphia, PA, United States. 2. Division of Pulmonary, Allergy, and Critical Care, University of Pennsylvania School of Medicine, Philadelphia, PA, United States.
*Invited Discussant:* A. Sasha Krupnick, MD

F17. **Ingenuity Pathway Analysis: Discovery of BRMS1 as a Novel Regulator of Epithelial-to-Mesenchymal Transition in NSCLC**
Alykhan S. Nagji, Yuan Liu, Christina Wei, Aizhen Xiao, David R. Jones⁺
Surgery, University of Virginia Health Systems, Charlottesville, VA, United States.
*Invited Discussant:* Chadrick E. Denlinger, MD

*¹AATS Member*
F18.  Depletion of Polycomb Repressor Complex-2 Inhibits the Malignant Phenotype of Pleural Mesothelioma Cells In Vitro and In Vivo
Clinton D. Kemp¹, Mahadev Rao¹, Julie A. Hong¹, Mary Zhang¹, Haresh Mani², Patricia Fetsch², R. Taylor Ripley¹, Aarti Mathur¹, Maocheng Yang¹, Victor E. Marquez³, David S. Schrump+¹
1. Thoracic Oncology Section, Surgery Branch, Center for Cancer Research, National Cancer Institute, National Institutes of Health, Bethesda, MD, United States. 2. Laboratory of Pathology, National Cancer Institute, National Institutes of Health, Bethesda, MD, United States. 3. Laboratory of Medicinal Chemistry, National Cancer Institute, National Institutes of Health, Bethesda, MD, United States.

Invited Discussant: William R. Smythe, MD

F19.  Prognostic Significance of Putative Cancer Stem Cell Marker Expression in a Lung Cancer Tissue Microarray
Brendon M. Stiles¹, Patrick Wagner¹, Farooq M. Mirza¹, Ding Cheng Gao¹, Antonio Coppolino¹, Raffaella Sordella², Vivek Mittal¹, Nasser K. Altorki+¹

Invited Discussant: Robert J. Downey, MD

F20.  Intracavitary Chemotherapy for Treatment of Malignant Mesothelioma via Polymeric Nanoparticles
Morgan D. Schulz¹, Kimberly Ann V. Zubris², Jacqueline E. Wade¹, Robert F. Padera³, Xiaoyin Xu⁴, Mark W. Grinstaff², Yolonda L. Colson+¹
1. Division of Thoracic Surgery, Brigham and Women’s Hospital, Boston, MA, United States. 2. Departments of Chemistry and Biomedical Engineering, Boston University, Boston, MA, United States. 3. Department of Pathology, Brigham and Women’s Hospital, Boston, MA, United States. 4. Department of Radiology, Brigham and Women’s Hospital, Boston, MA, United States. 5. Harvard Medical School, Boston, MA, United States.

Invited Discussant: Sunil Singhal, MD
8:45 a.m.  

**PLENARY SCIENTIFIC SESSION**  
*a*Ballroom AB, Pennsylvania Convention Center*  
(8 minutes presentation, 12 minutes discussion)  

**Moderators:**  
Irving L. Kron, MD  
Thoralf M. Sundt, III, MD  

28. **Clinical and Hemodynamic Outcomes of “All-Comers” Undergoing Trans-Apical Aortic Valve Implantation: Results from a National Registry**  
Augusto D’Onofrio¹, Paolo Rubino², Melissa Fusari³, Loris Salvador⁴, Francesco Musumeci⁵, Mauro Rinaldi⁶, Ettore O. Vitali⁷, Mattia Glauber⁸, Roberto Di Bartolomeo⁹, Ottavio R. Alfieri¹⁰, Elvio Polesel¹¹, Marco Aiello¹², Riccardo Casabona¹³, UgoLino Livi¹⁴, Claudio Grossi¹⁵, Mauro Cassese¹⁶, Aniello Pappalardo¹⁷, Tiziano Gherli¹⁸, Guglielmo Stefanelli¹⁹, Giuseppe G. Faggian²⁰, Gino Gerona²¹  
¹. Division of Cardiac Surgery, University of Padova, Padova, Italy. 2. Invasive Cardiology Laboratory, Cardiology Division, Clinica Montevergine, Mercogliano, Italy. 3. Department of Cardiovascular Sciences, Centro Cardiologico Monzino, IRCCS, University of Milan, Milan, Italy. 4. Division of Cardiac Surgery, San Bortolo Hospital, Vicenza, Italy. 5. Department of Cardiac Surgery, San Camillo Hospital, Rome, Italy. 6. Division of Cardiac Surgery, University of Turin, Turin, Italy. 7. Department of Cardiac Surgery, Humanitas Gavazzeni Hospital, Milan, Italy. 8. Department of Adult Cardiac Surgery, G. Pasquinucci Heart Hospital, Massa, Italy. 9. Department of Cardiac Surgery, University of Bologna, Bologna, Italy. 10. Department of Cardiac Surgery, San Raffaele University Hospital, Milan, Italy. 11. Venice Cardiac Surgery, Ospedale dell’Angelo, Venice-Mestre, Italy. 12. Division of Cardiac Surgery, IRCCS Foundation S. Matteo, Pavia, Italy. 13. Division of Cardiac Surgery, Ospedale Mauriziano Umberto I, Turin, Italy. 14. Cardio-Thoracic Department, S. Maria della Misericordia University Hospital, Udine, Italy. 15. Cardiovascular Department, S. Croce e Carle Hospital, Cuneo, Italy. 16. Division of Cardiac Surgery, Clinica S. Anna, Catanzano, Italy. 17. Department of Cardiothoracic Surgery, Ospedali Riuniti, Trieste, Italy. 18. Division of Cardiac Surgery, University of Parma, Parma, Italy. 19. Department of Cardiac Surgery, Hesperia Hospital, Modena, Italy. 20. Division of Cardiac Surgery, University of Verona, Verona, Italy.  

**Invited Discussant:**  
Lars G. Svensson, MD, PhD  

*AATS Member*
29. **Expanded Polytetrafluoroethylene Valved Conduits and Patches with Bulging Sinuses in Right Ventricular Outflow Tract Reconstruction**
   Takako Miyazaki¹, Masaaki Yamagishi¹, Masafumi Yashima¹, Yoshinobu Maeda¹, Yusuke Yamamoto¹, Yuji Sasaki¹, Hitoshi Yaku²
   1. Department of Pediatric Cardiovascular Surgery, Children’s Research Hospital, Kyoto Prefectural University of Medicine, Kyoto, Japan. 2. Department of Cardiovascular Surgery, Kyoto Prefectural University of Medicine, Kyoto, Japan.
   **Invited Discussant:** Andres J. Schlichter, MD

30. **Deep Esophageal Submucosa: The Non-Anatomic Watershed for Esophageal Cancer**
    Thoracic and Cardiovascular Surgery, Cleveland Clinic, Cleveland, OH, United States.
    **Invited Discussant:** David R. Jones, MD

31. **Preoperative Predicted Risk Does Not Fully Explain the Association Between Red Blood Cell Transfusion and Mortality in Coronary Bypass Surgery**
    Gaetano Paone², Robert J. Brewer², Patricia F. Theurer³, Gail F. Bell³, Chad M. Cogan², Richard L. Prager⁺¹
    1. Cardiac Surgery, University of Michigan, Ann Arbor, MI, United States. 2. Division of Cardiothoracic Surgery, Henry Ford Hospital, Detroit, MI, United States. 3. Quality Collaborative, Michigan Society of Thoracic and Cardiovascular Surgeons, Ann Arbor, MI, United States.
    **Invited Discussant:** Peter K. Smith, MD

10:05 a.m. **INTERMISSION – VISIT EXHIBITS/COFFEE BREAK**
   Exhibit Hall A
10:40 a.m.  PLENARY SCIENTIFIC SESSION  
Ballroom AB, Pennsylvania Convention Center  
(8 minute presentations, 12 minute discussion)  

**Moderators:**  Irving L. Kron, MD  
Thoralf M. Sundt, III, MD  

32.  **A Comparison of Surgery and Stereotactic Body Radiation Therapy for Stage I Lung Cancer—A Decision Analysis**  
Varun Puri, Traves D. Crabtree, Steven Kymes, Martin Gregory, Jennifer B. Zoole, Jeffrey D. Bradley, Clifford Robinson, Alec Patterson+, Daniel Kreisel+, A. Sasha Krupnick, Bryan F. Meyers+  
*Washington University, St. Louis, MO, United States.*  

**Invited Discussant:**  Alessandro Brunelli, MD  

33.  **A Surgical Perspective on Interventional Mitral Valve Repair: Percutaneous Clip-based Edge-to-Edge Plasty as an Important Adjunct to a Surgical Mitral Valve Program for Treatment of High-Risk Patients**  
Hendrik Treede1, Stephan Baldus2, Johannes Schirmer1, Olaf Franzen2, Moritz Seiffert1, Lenard Conradi1, Thomas Meinertz2, Hermann Reichenspurner+1  
1. Department of Cardiovascular Surgery, University Heart Center Hamburg, Hamburg, Germany. 2. Department of Cardiology, University Heart Center Hamburg, Hamburg, Germany.  

**Invited Discussant:**  A. Marc Gillinov, MD  

34.  **Urgent Thoracic Endovascular Aneurysm Repair Is a Superior Alternative to Traditional Open Repair for Ruptured Thoracic Aneurysm: A Nationwide Risk-Adjusted Study of 923 Patients**  
Raja R. Gopaldas1, Tam K. Dao4, Scott A. LeMaire+2,3, Joseph Huh2,3, Joseph S. Coselli+2,3  
1. Division of Cardiothoracic Surgery, University of Missouri Columbia School of Medicine, Columbia, MO, United States. 2. Texas Heart Institute, St. Luke’s Episcopal Hospital, Houston, TX, United States. 3. Division of Cardiothoracic Surgery, Baylor College of Medicine, Houston, TX, United States. 4. Department of Education Psychology, University of Houston, Houston, TX, United States.  

**Invited Discussant:**  John A. Kern, MD

11:40 a.m.  HONORED SPEAKER LECTURE  
“*The Only Constant is Change*”  
Michael J. Mack, MD  
Baylor Health Care System  

**Introduced By:**  Irving L. Kron, MD  

12:30 p.m.  ADJOURN FOR LUNCH – VISIT EXHIBITS  
Exhibit Hall A  

* AATS Member
TUESDAY, MAY 10, 2011

2:00 p.m.  
**ADULT CARDIAC SURGERY**
**SIMULTANEOUS SCIENTIFIC SESSION**
*Ballroom AB, Pennsylvania Convention Center*
(8 minutes presentation, 12 minutes discussion)

**Moderators:**  W. Randolph Chitwood, Jr., MD  
David C. McGiffin, MD

35. **Preoperative Pulmonary Hypertension Adversely Impacts Short- and Long-Term Survival After Operation for Mitral Regurgitation: Implications for Timing of Surgery**
Mehrdad Ghoreishi, Charles F. Evans, Cindi A. Young, James M. Brown+, Bartley P. Griffith+, James S. Gammie+

*Division of Cardiac Surgery, University of Maryland Medical Center, Baltimore, MD, United States.*

**Invited Discussant:**  Gerald M. Lawrie, MD

36. **OPCAB Does Not Preserve Renal Function Better than CABG: Results of a Case-Matched Study in 5,940 Patients**
Elsayed M. Elmistekawy¹, Vincent Chan¹, Michael E. Bourke², Jean-Yves Dupuis², Fraser D. Rubens¹, Thierry G. Mesana¹, Marc Ruel+¹

¹ Cardiac Surgery Division, Ottawa Heart Institute, Ottawa, ON, Canada.  
² Department of Anesthesiology, Ottawa Heart Institute, Ottawa, ON, Canada.

**Invited Discussant:**  Marc R. Moon, MD

37. **Quality Not Volume Determines Outcome in Coronary Artery Bypass Surgery in a University-Based Community Hospital Quality Network**
Paul A. Kurlansky¹+¹², Michael Argenziano¹+², Robert Dunton³, Robert Lancey³, Edward P. Nast³, Allan Stewart+², Timothy H. Williams³, Alex Zapolanski³, Helena Chang³, Judy Tingley³, Craig R. Smith+²

¹ Florida Heart Research Inst, Miami, FL, United States.  
² Columbia University, New York, NY, United States.

**Invited Discussant:**  Thoralf M. Sundt, III, MD

3:00 p.m.  
**INTERMISSION – VISIT EXHIBITS/COFFEE BREAK**
*Exhibit Hall A*

+AATS Member
3:45 p.m.  
**ADULT CARDIAC SURGERY**  
**SIMULTANEOUS SCIENTIFIC SESSION**  
**Ballroom AB, Pennsylvania Convention Center**

**Moderators:**  
W. Randolph Chitwood, Jr., MD  
David C. McGiffin, MD

38. **Predictors and Impact of Postoperative Atrial Fibrillation on Patients’ Outcome: A Report from Randomized On/Off Bypass (ROOBY) Trial**

G. Hossein Almassi+1,2, Sharon Pecsi1, Joseph F. Collins3, Annie L. Shroyer4,5, Marco A. Zenati+6, Frederick L. Grover+5

1. Cardiothoracic Surgery, Zablocki Veterans Affairs Medical Center, Milwaukee, WI, United States. 2. Division of Cardiothoracic Surgery, Medical College of Wisconsin, Milwaukee, WI, United States. 3. Cooperative Studies Program Coordinating Center, Veterans Affairs Medical Center, Perry Point, MD, United States. 4. Northport VA Medical Center, Veterans Affairs Medical Center, Northport, NY, United States. 5. Cardiothoracic Surgery, Eastern Colorado Health Care System, Department of Veterans Affairs, Denver, CO, United States. 6. Cardiothoracic Surgery, West Roxbury VA Medical Center, Boston, MA, United States.

**Invited Discussant:**  
David C. McGiffin, MD

39. **The Effect of Surgeon Volume on Mortality for Off-Pump Coronary Artery Bypass Grafting in the United States**

Damien J. LaPar1, Carlos M. Mery1, Benjamin D. Kozower1, John A. Kern+1, Irving L. Kron+1, George J. Stukenborg2, Gorav Ailawadi1

1. Surgery, University of Virginia, Charlottesville, VA, United States. 2. Department of Public Health, Biostatistics, and Epidemiology, University of Virginia, Charlottesville, VA, United States.

**Invited Discussant:**  
R. Morton Bolman, III, MD

40. **Strict vs. Liberal Target Range for Postoperative Glucose in CABG Surgery Patients**

Shalin P. Desai1, Linda Henry1, Sari D. Holmes1, Sharon L. Hunt1, Shrinivas Hebsur1, Chidima Martin1, Niv Ad+1,2

1. Cardiac Surgery Research, Inova Heart and Vascular Institute, Falls Church, VA, United States. 2. Associates, P.C., IHVI, Falls Church, VA, United States.

**Invited Discussant:**  
Harold L. Lazar, MD

5:00 p.m.  
**EXECUTIVE SESSION**  
(AATS Members Only)  
**Ballroom AB, Pennsylvania Convention Center**

7:00 p.m. – 10:00 p.m.  
**AATS Special Reception at the National Constitution Center**  
(Ticketed event. All attendees and exhibitors are encouraged to attend.)

*AATS Member*
2:00 p.m.  AORTIC/ENDOVASCULAR SURGERY
SIMULTANEOUS SCIENTIFIC SESSION
108 AB, Pennsylvania Convention Center
(8 minutes presentation, 12 minutes discussion)

Moderators: Leonard N. Girardi, MD
Marc R. Moon, MD

41. Two Years Clinical and Echocardiographic Follow-Up After Transcatheter Aortic Valve Implantation in 155 Patients
Sabine Bleiziffer, Domenico Mazzitelli, Andrea Hutter, Anke Opitz, Ina Hettich, Hendrik Ruge, Nicolo Piazza, Robert Bauernschmitt, Rudiger S. Lange +
German Heart Center Munich, Munich, Germany.
Invited Discussant: Gregory P. Fontana, MD

42. Impact of Patient Prosthesis Mismatch After Transcatheter Aortic Valve-in-Valve Implantation in Degenerated Bioprostheses
Moritz Seiffert 1, Malgorzata Knap 2, Johannes Schirmer 1, Olaf Franzen 2, Lenard Conradi 1, Stephan Baldus 2, Thomas Meinertz 2, Hermann Reichenspurner + 1, Hendrik Treede 1
1. Department of Cardiovascular Surgery, University Heart Center Hamburg, Hamburg, Germany. 2. Department of General and Interventional Cardiology, University Heart Center Hamburg, Hamburg, Germany.
Invited Discussant: Mathew R. Williams, MD

43. Long-Term Comparison of TEVAR to Open Surgery for the Treatment of Thoracic Aortic Aneurysms
Nimesh D. Desai 1, Kristen Burtch 1, Patrick Moeller 1, William G. Moser 1, Alberto Pochettino + 1, Edward Woo 2, Ronald M. Fairman 2, Wilson Y. Szeto 1, Joseph E. Bavaria + 1
Invited Discussant: John S. Ikonomidis, MD, PhD

3:00 p.m. INTERMISSION – VISIT EXHIBITS/COFFEE BREAK
Ballroom AB, Pennsylvania Convention Center
3:45 p.m.  AORTIC/ENDOVASCULAR SURGERY
SIMULTANEOUS SCIENTIFIC SESSION
108 AB, Pennsylvania Convention Center

Moderators:  Leonard N. Girardi, MD
             Marc R. Moon, MD

44.  Valve-Sparing Aortic Root Repair without Downsizing of the Annulus: Long-Term Results
Paul P. Urbanski, Xiaochun Zhan, Husam Hijazi, Michael Zacher, Anno Diegeler
Cardiovascular Clinic, Bad Neustadt, Germany.
Invited Discussant:  Tirone E. David, MD

45.  Valve-Sparing Root Replacement with the Reimplantation Technique Increases the Durability of Bicuspid Aortic Valve Repair
Laurent de Kerchove¹, Munir Boodhwani², Glineur David¹, Philipe Noirhomme¹, Gebrine El Khoury¹
¹. Cardiothoracic and Vascular Surgery, Cliniques Universitaires St-Luc, Université Catholique de Louvain, Brussels, Belgium. ². Cardiac Surgery, University of Ottawa Heart Institute, Ottawa, ON, Canada.
Invited Discussant:  Thomas G. Gleason, MD

46.  Transcatheter Aortic Valve Implantation vs. Surgical Aortic Valve Replacement: A Propensity Score Matched Analysis in Patients at High Surgical Risk
Lenard Conradi¹, Hendrik Treede¹, Miriam Silaschi¹, Olaf Franzen², Moritz Seiffert¹, Stephan Baldus², Johannes Schirmer¹, Thomas Meinertz², Hermann Reichenspurner²¹
¹. Department of Cardiovascular Surgery, University Heart Center Hamburg, Hamburg, Hamburg, Germany. ². Department of Cardiology, University Heart Center Hamburg, Hamburg, Hamburg, Germany.
Invited Discussant:  Vinod H. Thourani, MD

5:00 p.m.  Executive Session
(AATS Members Only)
Ballroom AB, Pennsylvania Convention Center

7:00 p.m. – 10:00 p.m.  AATS Special Reception at the National Constitution Center
(Ticketed event. All attendees and exhibitors are encouraged to attend.)
2:00 p.m. **CONGENITAL HEART DISEASE**
**SIMULTANEOUS SCIENTIFIC SESSION**
201 ABC, Pennsylvania Convention Center
(8 minutes presentation, 12 minutes discussion)

**Moderators:** J. William Gaynor, MD
Shunji Sano, MD, PhD

47. **Younger Gestational Age Is Associated with Worse Neurodevelopmental Outcomes After Cardiac Surgery in Infancy**
Donna A. Goff¹, Marsha Gerdes¹, Xianqun Luan¹, Judy Bernbaum¹, Jo Ann D’Agostino¹, Jack Rychik¹, Daniel J. Licht¹, Susan C. Nicolson², Robert R. Clancy¹, Thomas L. Spray¹³, J. William Gaynor¹³

**Invited Discussant:** Frank A. Pigula, MD

48. **Predictive Value of Near Infrared Spectroscopy on Neurodevelopmental Outcome in Children Following Congenital Heart Surgery**
Julie Simons², Erica Sood², Christopher D. Derby¹, Christian Pizarro¹
1. Cardiac Center, Alfred I. duPont Hospital, Wilmington, DE, United States. 2. Behavioral Health, Alfred I. duPont Hospital for Children, Wilmington, DE, United States.

**Invited Discussant:** James S. Tweddell, MD

49. **Pediatric Ventricular Assist Device Strategies Before and Late After Cardiac Transplantation—Which Device? What Approach? How Successful?**
Jonathan M. Chen¹², Kevin Charette², Yasutaka Hirata³, Rabin Gerrah², Mathew R. Williams², Hiroo Takayama², Kimberly Beddows², Linda J. Addonizio²

**Invited Discussant:** J. William Gaynor, MD

3:00 p.m. **INTERMISSION – VISIT EXHIBITS/COFFEE BREAK**
Exhibit Hall A

* denotes AATS Member
3:45 p.m.  **CONGENITAL HEART DISEASE**  
**SIMULTANEOUS SCIENTIFIC SESSION**  
*201 ABC, Pennsylvania Convention Center*  

**Moderators:**  
J. William Gaynor, MD  
Shunji Sano, MD, PhD  

50. **Clinical Impact of Prophylactic Damus-Kaye-Stansel Anastomosis on Timing of Bidirectional Glenn Procedure**  
Masatoshi Shimada, Koji Kagisaki, Takaya Hoashi, Isao Shiraishi, Toshikatsu Yagihara*, Hajime Ichikawa  
*National Cerebral and Cardiovascular Center, Suita, Osaka, Japan.*  

**Invited Discussant:**  
Robert D. Jaquiss, MD  

51. **Age Is a Predictor of Structural Valve Deterioration Following Pulmonary Valve Replacement in Tetralogy of Fallot Patients**  
*Cardiac Surgery, Children's Hospital Boston, Harvard Medical School, Boston, MA, United States.*  

**Invited Discussant:**  
Carl L. Backer, MD  

52. **Pulmonary Artery Sling: Current Results with Cardiopulmonary Bypass**  
1. Cardiovascular-Thoracic Surgery, Children's Memorial Hospital, Chicago, IL, United States. 2. Pediatric Otolaryngology, Children's Memorial Hospital, Chicago, IL, United States. 3. Medical Imaging, Children's Memorial Hospital, Chicago, IL, United States.  

5:00 p.m.  **EXECUTIVE SESSION**  
*(AATS Members Only)*  
*Ballroom AB, Pennsylvania Convention Center*  

7:00 p.m. – 10:00 p.m.  **AATS Special Reception at the National Constitution Center**  
*(Ticketed event. All attendees and exhibitors are encouraged to attend.)*  

*AATS Member*
2:00 p.m.  
**GENERAL THORACIC SURGERY**  
**SIMULTANEOUS SCIENTIFIC SESSION**  
204 ABC, Pennsylvania Convention Center  
(8 minutes presentation, 12 minutes discussion)  

**Moderators:**  
Shaf Keshavjee, MD, MSc  
David J. Sugarbaker, MD

53. **Prevalence and Outcomes of Diaphragmatic Hernia Admissions: Analysis of a National Database**  
Department of Cardiothoracic Surgery, Weill Cornell Medical College, New York, NY, United States.  

*Invited Discussant:*  
Michael A. Maddaus, MD

54. **Does Donor PaO2 Affect Outcomes Following Lung Transplantation? A Review of Over 12,000 Lung Transplants**  
Farhan Zafar1,2, Jeffrey S. Heinle1,2, Iki Adachi1,2, E. Dean McKenzie1,2, Marc G. Schecter1,3, George B. Mallory1,3, David L. Morales1,2  
1. Surgery, Baylor College of Medicine, Houston, TX, United States. 2. Congenital Heart Surgery, Texas Children's Hospital, Houston, TX, United States. 3. Pediatric Pulmonology, Texas Children's Hospital, Houston, TX, United States.  

*Invited Discussant:*  
Thomas K. Waddell, MD, MSc, PhD

55. **Thirty and Ninety Day Outcomes After Sublobar Resection for Non-Small Cell Lung Cancer (NSCLC); Results from a Multicenter Phase III Study**  
Hiran C. Fernando1, Rodney J. Landreneau+, Sumithra J. Mandrekar3, Shauna L. Hillman3, Francis C. Nichols3, Thomas A. DiPettrillo4, Dwight E. Heron2, Bryan F. Meyers5, David R. Jones6, Sandra Starnes7, Joe B. Putnam, Jr.8  
1. Boston Medical Center, Boston, MA, United States. 2. University of Pittsburgh Medical Center, Pittsburgh, PA, United States. 3. Mayo Clinic, Rochester, MN, United States. 4. Rhode Island Hospital, Providence, RI, United States. 5. Washington University, St. Louis, MO, United States. 6. University of Virginia, Charlottesville, VA, United States. 7. University of Cincinnati, Cincinnati, OH, United States. 8. Vanderbilt University Medical Center, Nashville, TN, United States.  

*Invited Discussant:*  
Erino A. Rendina, MD

3:00 p.m.  
**INTERMISSION – VISIT EXHIBITS/COFFEE BREAK**  
Exhibit Hall A

+AATS Member
3:45 p.m.  GENERAL THORACIC SURGERY  
SIMULTANEOUS SCIENTIFIC SESSION  
204 ABC, Pennsylvania Convention Center  

**Moderators:** Shaf Keshavjee, MD, MSc  
David J. Sugarbaker, MD  

56. Lung-Sparing Radical Pleurectomy Followed by Adjuvant Chemoradiation in Malignant Pleural Mesothelioma  
Servet Bolukbas¹, Michael H. Eberlein²,³, Thomas Bergmann¹,  
Annette Fisseler-Eckhoff⁴, Joachim Schirren¹  
1. Thoracic Surgery, Dr. Horst Schmidt Klinik, Wiesbaden, Germany. 2. Division of Pulmonary and Critical Care Medicine, Johns Hopkins University School of Medicine, Baltimore, MD, United States. 3. Critical Care Department, National Institutes of Health, Bethesda, MD, United States. 4. Institutes for Pathology and Cytology, Dr. Horst Schmidt Klinik, Wiesbaden, Germany.  

**Invited Discussant:** David J. Sugarbaker, MD  

57. Robotic Lobectomy for Non-Small Cell Lung Cancer (NSCLC): Long-Term Results and Follow-Up  
Bernard J. Park¹, Franca M. Melfi⁺², Patrick Maisonneuve¹, Giulia Veronesi³  
1. Cardiothoracic Surgery, Hackensack University Medical Center, Hackensack, NJ, United States. 2. Cardiothoracic Surgery, University of Pisa, Pisa, Italy. 3. Thoracic Surgery, European Institute of Oncology, Milano, Italy.  

**Invited Discussant:** Thomas A. D’Amico, MD  

58. VATS Lobectomy: Catastrophic Intra-Operative Complications  
Raja M. Flores⁺¹, Ugonna Ihekweazu², Joseph Dycoco², Nabil P. Rizk², Valerie W. Rusch², Manjit S. Bains⁺², Robert J. Downey⁺², David Finley², Prasad Adusumilli³, Inderpal Sarkaria³, James Huang³, Bernard Park³  
1. Division of Thoracic Surgery, Mount Sinai School of Medicine, New York, NY, United States. 2. Surgery, Memorial Sloan Kettering, New York, NY, United States. 3. Thoracic Surgery, Hackensack University Hospital, Hackensack, NJ, United States.  

**Invited Discussant:** Daniel L. Miller, MD  

5:00 p.m.  EXECUTIVE SESSION  
(AATS Members Only)  
Ballroom AB, Pennsylvania Convention Center  

7:00 p.m. – 10:00 p.m.  AATS Special Reception at the National Constitution Center  
(Ticketed event. All attendees and exhibitors are encouraged to attend.)
WEDNESDAY MORNING
MAY 11, 2011

7:00 a.m.  EMERGING TECHNOLOGIES AND TECHNIQUES FORUM
Ballroom AB, Pennsylvania Convention Center
(6 minutes presentation, 5 minutes discussion)

**Moderators:**  W. Randolph Chitwood, Jr., MD
Bryan F. Meyers, MD, MPH

**T1.** Comparison of Same Sitting, Robotic-Assisted Hybrid Coronary Artery Revascularization with Off-Pump Coronary Artery Bypass Surgery in Multi-Vessel Coronary Artery Disease
Christine M. McCarty¹, Lukasz Kiljanek², Gouthami Boga², Aaron M. Rastoka², Anita Todd², Tammy Whitaker², William Bachinsky²
1. Pinnacle Health System, Camp Hill, PA, United States. 2. Pinnacle Health System, Harrisburg, PA, United States.

**T2.** Initial Clinical Experience with a Novel Rapid-Deployment Aortic Valve Replacement System
Malakh Shrestha¹, Axel Haverich+¹, Samir Sarikouch¹, Michael A. Borger+², Martin Misfeld², Johannes Blumenstein³, Thomas Walther+³, Linda D. Gillam⁵, Agnes Koczo⁵, Alfred Kocher⁴, Dominik Wiedemann⁴, Friedrich W. Mohr+², Guenther Laufer+⁴
1. Cardiothoracic, Transplantation and Vascular Surgery, Hannover Medical School, Hannover, Germany. 2. Cardiac Surgery, Leipzig University, Leipzig, Germany. 3. Cardiac Surgery, Bad Neuheim Cardiac Center, Bad Neuheim, Germany. 4. Cardiac Surgery, University of Vienna, Vienna, Austria. 5. Medical Center, Columbia University, New York, NY, United States.

**T3.** Mid-Term Results of Vascular Ring Connector in Surgery for Aortic Dissection
Jeng Wei+¹, Chung-Yi Chang¹, Sung-How Sue¹, Cheng-Hsi Chang²
1. Heart Center, Cheng Hsin General Hospital, Taipei, Taiwan. 2. Cardiac Surgery, Tung’s Taichung Metro Harbor Hospital, Taichung, Taiwan.

**T4.** Exclusion of the Left Atrial Appendage with a Novel Device: Early Results of a Multicenter Trial
Gorav Ailawadi¹, Marc W. Gerdisch³, Richard L. Harvey³, Robert L. Hooker⁴, Ralph J. Damiano+⁵, Thomas Salamon⁶, Michael J. Mack+⁷
1. TCV Surgery, University of Virginia, Charlottesville, VA, United States. 2. St. Francis Heart Center, Indianapolis, IN, United States. 3. Macon Cardiovascular, Macon, GA, United States. 4. Spectrum Health, Grand Rapids, MI, United States. 5. Washington University, St. Louis, MO, United States. 6. Mt. Carmel Health, Columbus, OH, United States. 7. Baylor Heart Hospital, Plano, TX, United States.

*AATS Member
T5. A Randomized Evaluation of Simulation Training on Performance of Vascular Anastomosis on a High-Fidelity In Vivo Model: The Role of Deliberate Practice
Joel Price¹, Munir Boodhwani¹, Viren Naik², Tim Brandys³, Paul J. Hendry*¹, Buu Khanh Lam¹
1. Cardiac Surgery, University of Ottawa Heart Institute, Ottawa, ON, Canada. 2. Anesthesiology, The Ottawa Hospital, Ottawa, ON, Canada. 3. Vascular Surgery, The Ottawa Hospital, Ottawa, ON, Canada.

T6. 3D-TEE Based Computational Modeling of the Mitral Valve for Surgical Planning
David D. Yuh*¹, Philippe M. Burlina⁴, Francisco Contijoch³, MaryBeth Brady², Elliot McVeigh³
1. Division of Cardiac Surgery, The Johns Hopkins Hospital, Baltimore, MD, United States. 2. Department of Anesthesia and Critical Care Medicine, The Johns Hopkins Hospital, Baltimore, MD, United States. 3. Department of Biomedical Engineering, The Johns Hopkins Hospital, Baltimore, MD, United States. 4. Applied Physics Laboratory, Johns Hopkins University, Baltimore, MD, United States.

T7. Wireless Power for Ventricular Assist Devices: Innovation with the Free-Range Resonant Electrical Energy Delivery System (FREE-D) for Mechanical Circulatory Assist
Pramod Bonde¹, Alanson P. Sample², Benjamin Waters², Emily Cooper³, Yoshiya Toyoda*¹, Robert L. Kormos*¹, Joshua R. Smith²⁴
1. Department of Cardiothoracic Surgery, University of Pittsburgh Medical Center, Pittsburgh, PA, United States. 2. Department of Computer Science and Engineering, University of Washington, Seattle, WA, United States. 3. Intel Labs, Seattle, WA, United States. 4. Department of Electrical Engineering, University of Washington, Seattle, WA, United States.

T8. Trans-Mediastinal Implantation of Phrenic Nerve Stimulation Electrodes
Jalal Assouad¹, Hicham Masmoudi¹, Jesus Gonzalez-Bermejo², Capucine Morélot-Panzini², Valerie Gounant¹, Moustapha Diop³, Dominique H. Grunenwald*¹, Thomas Similowski²

* AATS Member
T9.  **Trans-Oral Incisionless Fundoplication for Treatment of Gastroesophageal Reflux Disease: Preliminary Experience**
Chaitan K. Narsule, Miguel A. Burch, Michael I. Ebright, Donald T. Hess, Roberto Rivas, Benedict D.T. Daly, Hiran C. Fernando
1. Department of Cardiothoracic Surgery, Boston University School of Medicine, Boston, MA, United States. 2. Department of Surgery, Cedars-Sinai Medical Center, Los Angeles, CA, United States. 3. Department of Surgery, Boston University School of Medicine, Boston, MA, United States.

T10.  **In Vivo Tissue Engineered Airway Replacement**
Philipp Jungebluth, Augustinus Bader, Susanne Möller, Heike Nave, Paolo Macchiarini
1. Bioairlab, Department of General Thoracic and Regenerative Surgery and Intrathoracic Biotransplantation, University Hospital Careggi, Florence, Italy. 2. Institute for Functional and Applied Anatomy, Hannover Medical School (MHH), Hannover, Germany. 3. Center for Biotechnology and Biomedicine, Cell Techniques and Applied Stem Cell Biology, University of Leipzig, Leipzig, Germany. 4. Department of Thoracic and Cardiovascular Surgery, Klinikum Braunschweig, Braunschweig, Germany.
9:00 a.m.  SEX AND GENDER: THE IMPACT ON DISEASE AND PATIENT OUTCOMES IN CARDIO THORACIC SURGERY

Chair:  Yolonda L. Colson, MD, PhD
Brigham and Women's Hospital

Data will be presented that highlights important clinical differences in the presentation, outcomes and risk factors between men and women for several common cardiothoracic diseases and conditions. Presenters will discuss potential gender-based practice changes that can improve care for patients of both sexes.

Course Objectives

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

- Identify sex and gender-based differences in presentation, treatment, and outcomes that are currently present in patients with coronary artery disease, aortic aneurysms, end-stage heart or lung disease and esophageal cancer.
- Describe potential biological differences and treatment options which are more likely in women with lung cancer.
- Detail the impact of pregnancy on the treatment of valvular heart disease.
- Apply new knowledge to alter current clinical practice to improve patient outcomes for both male and female patients with cardiothoracic diseases.

| 9:00 a.m. – 9:05 a.m. | Introduction  
Yolonda L. Colson, MD, PhD  
Brigham and Women's Hospital |
| 9:05 a.m. – 9:15 a.m. | The Many Faces of Coronary Artery Disease  
John D. Puskas, MD  
Emory University |
| 9:15 a.m. – 9:25 a.m. | You've Come a Long Way in the Wrong Direction, Baby: Lung Cancer in Women  
Yolonda L. Colson, MD, PhD  
Brigham and Women's Hospital |
| 9:25 a.m. – 9:35 a.m. | Valve Choice for Women in the Childbearing Age Range  
Lawrence H. Cohn, MD  
Brigham and Women's Hospital |
| 9:35 a.m. – 9:45 a.m. | Heart Failure, Transplant and VADs: The Impact of Size and Gender  
Sara J. Shumway, MD  
University of Minnesota |
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| 9:45 a.m. – 9:55 a.m. | **Esophageal Disease: Does Gender Matter?**  
Thomas W. Rice, MD  
Cleveland Clinic |
| 9:55 a.m. – 10:05 a.m. | **The X Factor: Gender Differences in Lung Transplantation**  
G. Alec Patterson, MD  
Washington University School of Medicine |
| 10:05 a.m. – 10:15 a.m. | **Aneurysms and Dissection in Women**  
Irving L. Kron, MD  
University of Virginia |
| 10:15 a.m. – 10:30 a.m. | **DISCUSSION**                                                           |
| 10:30 a.m. – 11:15 a.m. | **CONTROVERSIES IN CARDIOTHORACIC SURGERY PLENARY SESSION**  
*Ballroom AB, Pennsylvania Convention Center*  
**Topic:** Striking the Utility/Futility Balance as Transcatheter Valve Implantation (TAVI) Enters the Marketplace  
**Moderator:** Lawrence H. Cohn, MD  
**Pro:** TAVI Has Virtually Unlimited Utility in High Risk and Inoperable Patients  
Craig R. Smith, MD  
**Con:** TAVI Is Futile in Many High Risk and Inoperable Patients  
D. Craig Miller, MD |
| 11:15 a.m. – 12:00 p.m. | **CONTROVERSIES IN CARDIOTHORACIC SURGERY PLENARY SESSION**  
*Ballroom AB, Pennsylvania Convention Center*  
**Topic:** For the Care of the Cardiothoracic Surgery Patient, the Canadian System is Superior to the U.S.  
**Moderator:** Carlos A. Mestres, MD, PhD  
**Pro:** Tirone David, MD  
**Con:** G. Alec Patterson, MD |
| 12:00 p.m. | **91st ANNUAL MEETING ADJOURNS**                                    |
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<td>Thoralf M. Sundt, III</td>
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<td>Charles Gordon Heyd</td>
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### Basic Science Lecturers

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<td>2011</td>
<td>Susan B. Shurin, MD</td>
<td>Public Support of Biomedical Research</td>
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<td>2010</td>
<td>Susan E. Mackinnon, MD</td>
<td>Nerve Injury – Changing the Surgical Paradigm through Translational Science</td>
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<td>2009</td>
<td>Jonathan A. Epstein, MD</td>
<td>Insights from Developmental and Stem Cell Biology</td>
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<td>2008</td>
<td>Matts Karlsson, PhD</td>
<td>The Link Between Engineering, Biomechanics, and Cardiovascular Physiology and Disease</td>
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<td>2007</td>
<td>Steven R. Bailey</td>
<td>Nanotechnology – Impact on Cardiovascular Medicine</td>
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<td>2006</td>
<td>H. Robert Horvitz, PhD</td>
<td>Genetic Control of Programmed Cell Death in C. elegans</td>
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<td>2005</td>
<td>Harry Dietz, MD</td>
<td>New Insights Into the Pathogenesis and Treatment of Marfan Syndrome</td>
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<td>2004</td>
<td>John B. West, MD</td>
<td>A Shortage of Oxygen: Lessons from the Summit of Mt. Everest</td>
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<td>2003</td>
<td>Richard White, MD</td>
<td>Advanced Imaging: Aiding the “Mind’s Eye” of the Cardiothoracic Surgeon</td>
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<td>2002</td>
<td>Steven A. Rosenberg, MD</td>
<td>The Immune Response to Human Cancer: Lessons from the Molecular Analysis of Patients with a Dramatic Response to Immunotherapy</td>
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<td>2001</td>
<td>Gerald D. Buckberg, MD</td>
<td>The Helix and the Heart</td>
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<td>2000</td>
<td>J. Craig Venter, PhD</td>
<td>Decoding the Human Genome</td>
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<td>1999</td>
<td>Victor Dzau, MD</td>
<td>Gene Therapy Strategies for Research Revascularization</td>
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<td>1998</td>
<td>Eric J. Topol, MD</td>
<td>The Future of Coronary Thrombosis Prophylaxis</td>
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<td>1997</td>
<td>Ronald G. Crystal, MD</td>
<td>Implications for Gene Therapy in Treating Coronary Artery Disease and Lung Cancer</td>
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<td>1994</td>
<td>Timothy A. Springer, PhD</td>
<td>Traffic Signals for Leukocyte Emigration from the Blood Stream</td>
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<td>1993</td>
<td>Andrew S. Wechsler, MD</td>
<td>Molecular Biology: New Common Ground for Cardiothoracic Surgery</td>
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<td>1992</td>
<td>Kurt Benirschke, MD</td>
<td>Twinning</td>
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## Year Name Title

1991 Fritz H. Bach, MD Transplant Immunology: A Broadening of the Concept for the Future
1990 Louis Siminovitch, MD Advances in Cancer Research—Bench to Bedside
1989 Russell Ross, MD The Pathogenesis of Atherosclerosis
1988 Raj K. Goyal, MD Physiology and Pathophysiology of Esophageal Peristalsis
1987 Gustav J.V. Nossal, MD Immuno-Regulation: The Key to Transplantation and Autoimmunity

### Honored Guest Lecturers

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<tr>
<th>Year</th>
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<td>Michael J. Mack, MD</td>
<td>The Only Constant is Change</td>
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<td>2010</td>
<td>David Naylor, MD</td>
<td>Too Big to Fail? Healthcare Reform in the U.S. and Canada</td>
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<td>2009</td>
<td>Professor Michio Kaku</td>
<td>The Creation of the Universe, String Theory, and Time Travel</td>
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<td>2008</td>
<td>Marko I. Turina, MD</td>
<td>50 Years of Cardiothoracic Surgery Through the Looking Glass and What the Future Holds</td>
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<td>2007</td>
<td>Mark B. McClellan</td>
<td>A World in Need: Lessons Learned in Medical Diplomacy—The Project HOPE Perspective</td>
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<td>2006</td>
<td>John P. Howe, III, MD</td>
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<td>Richard D. Weisel, MD</td>
<td>Cardiac Regeneration</td>
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<td>2004</td>
<td>Joseph Macinnis, MD</td>
<td>Leadership and Surgery: A View from Inside the Ocean</td>
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<td>2003</td>
<td>Frank Culbertson, CAPT, USN</td>
<td>The Challenges of Human Space Flight</td>
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<td>2002</td>
<td>Marc R. de Leval, MD</td>
<td>Beyond Flatland</td>
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<td>2001</td>
<td>Mory Gharib</td>
<td>Bioengineering for the Exploration of Space: New Challenges</td>
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<td>James L. Barksdale</td>
<td>Effects of the Net Economy</td>
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<td>Judah Folkman, MD</td>
<td>Experimental and Clinical Application of Angiogenesis Research</td>
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<td>1998</td>
<td>Ken Taylor, MD</td>
<td>A Practical Affair</td>
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<td>Antoon E.M.R. Lerut, MD</td>
<td>Esophageal Surgery at the End of the Millenium</td>
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<td>1996</td>
<td>David H. Sachs, MD</td>
<td>Tolerance to Allogeneic and Xenogeneic Transplants</td>
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<td>1995</td>
<td>Edmund D. Pellegrino, MD</td>
<td>Medical Ethics in the 21st Century: DNR or CPR?</td>
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<td>1994</td>
<td>Rodolfo Herrera-Llerandi, MD</td>
<td>A Thoracic Tale of Two Cities</td>
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<td>Mark F. O’Brien, MD</td>
<td>The Structure and Function of Tissue Valves; Some Lessons Learned from the Fate of Implanted Heart Valves</td>
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<td>1992</td>
<td>Rene G. Favaloro, MD</td>
<td>Coronary Artery Bypass Graft Surgery; Twenty-five Years Later—Some Landmarks</td>
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<td>Magdi Yacoub, MD</td>
<td>Long-Term Transplantation as a Model</td>
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<td>A.P. Naef, MD</td>
<td>Pioneers and Milestones in Thoracic Surgery</td>
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<td>Francis M. Fontan, MD</td>
<td>Transplantation of Knowledge</td>
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<td>Jaroslav F. Stark, MD</td>
<td>Do We Really Correct Congenital Heart Defects?</td>
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<td>Jean-Paul Binet</td>
<td>New Frontiers—New Barriers</td>
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<td>Ake Senning, MD</td>
<td>The Cardiovascular Surgeon and the Liver</td>
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<td>Hans G. Borst</td>
<td>Hands Across the Ocean: German/American Relations in Thoracic Surgery</td>
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<td>Adib D. Jatene, MD</td>
<td>Left Ventricular Aneurysmectomy: Resection or Reconstruction?</td>
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<td>Alain F. Carpentier, MD</td>
<td>Valve Surgery: The French Correction</td>
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<td>Wu Ying-Kai, MD</td>
<td>Achievements in the Study and Control of Cancer of the Esophagus</td>
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<td>1981</td>
<td>Roger A. Smith, MD</td>
<td>An Evaluation of the Long-Term Results of Surgery for Bronchial Carcinoma</td>
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<td>H. D’Arcy Sutherland, MD</td>
<td>Cardio-Thoracic Metamorphosis</td>
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<td>Brian Barratt-Boyces, MD</td>
<td>Cardiothoracic Surgery in the Antipodes</td>
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<td>Donald Ross, MD</td>
<td>Cardiac Surgery—The Golden Years</td>
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<td>Charles Dubost, MD</td>
<td>The Generality of Surgery</td>
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<td>Thomas H. Sellors, MD</td>
<td>Specialization in Medicine</td>
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<td>C. Rollins Hanlon, MD</td>
<td>Pioneers and Milestones in Thoracic Surgery</td>
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<td>1971</td>
<td>Roger O. Egeberg, MD</td>
<td>The Surgical Treatment of Tetralogy of Fallot</td>
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<td>Christiaan N. Barnard, MD</td>
<td>Experience with Human Heart Transplantiation</td>
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<td>1967</td>
<td>Viking Olov Bjork, MD</td>
<td>Methods in Open Heart Surgery</td>
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<td>Ronald Belsey, MD</td>
<td>Functional Diseases of the Esophagus and their Surgical Management</td>
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<td>1965</td>
<td>A. Gerard Brom, MD</td>
<td>Narrowing of the Aortic Isthmus and Enlargement of the Mind</td>
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<td>1964</td>
<td>I. Boerema, MD</td>
<td>The Use of Hyperbaric Oxygen in Thoracic Surgery</td>
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<td>1963</td>
<td>Andrew Logan, MD</td>
<td>The Surgical Treatment of Carcinoma of the Esophagus and Cardia</td>
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<td>1962</td>
<td>Norman R. Barrett, MD</td>
<td>Publish or Perish Experience With 500 Cases of Hiatus Hernia</td>
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<td>Earle W. Wilkins, Jr., MD</td>
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<td>1961</td>
<td>A.L. d’Abreu, MD</td>
<td>Thoracic Surgery in the Commonwealth of Medicine</td>
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<tr>
<td>1960</td>
<td>Alfonso Topete, MD</td>
<td>New Findings in the Coronary-Encephalic Perfusion in Depressive Surgical Cases</td>
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</table>

**Graham Education and Research Foundation**

The Graham Education and Research Foundation supports the Evarts A. Graham Memorial Traveling Fellowship and the Research Scholarship programs. Since the inception of the Graham Traveling Fellowship program in 1951, 58 young surgeons from 29 countries have completed their training at thoracic surgery centers throughout North America.

**Planned Gifts to the Foundation**

Dr. and Mrs. Roger R. Ecker, Alameda, CA Charitable Remainder Trust

For more information about planned giving, please contact the Foundation at 900 Cummings Center, Suite 221-U, Beverly, Massachusetts, 01915, or by phone at (978) 927-8330.
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Vice President
David J. Sugarbaker, MD, Boston, MA
Secretary-Treasurer
Elizabeth Dooley Crane, CAE, CMP, Beverly, MA
Directors
Charles D. Fraser, Jr., MD, Houston, TX
Marc R. Moon, MD, St. Louis, MO

Evarts A. Graham Memorial Traveling Fellowship

The Evarts A. Graham Memorial Traveling Fellowship was established in 1951 by the American Association for Thoracic Surgery. Funded and administered through the Graham Education and Research Foundation, it provides grants to young surgeons from abroad who have completed their formal training in general, thoracic and cardiovascular surgery. The award allows the recipient to study a year to intensify his training in a program of special interest and to travel to several sites to broaden his overall training and increase his contacts with thoracic surgeons internationally. Awards are made to surgeons of unique promise who have been regarded as having potential for later international thoracic surgical leadership. Since the inception of the Graham Fellowship, 56 young surgeons from 29 countries have completed their training at thoracic surgical centers.

1. 1951-52 L.L. Whytehead, MD, FRCS, Canada
2. 1953-54 W.B. Ferguson, MB, FRCS, England
3. 1954-55 Lance L. Bromley, M., Chir, FRCS, England
4. 1955-56 Raymond L. Hurt, FRCS, England
5. 1956-57 Mathias Paneth, FRCS, England
6. 1957-58 Peter L. Brunnen, FRCS, Scotland
7. 1958-59 N.G. Meyne, MD, Holland
8. 1960-61 Godrej S. Karai, MD, India
9. 1961-62 Fritz Helmer, MD, Austria
10. 1962-63 Theodor M. Scheinin, MD, Finland
11. 1963-64 Masahiro Saigusa, MD, Japan
12. 1963-64 Adar J. Hallen, MD, Sweden
13. 1964-65 Stuart C. Lennox, MD, England
14. 1964-65 Elias Carapistolis, MD, FACS, Greece
15. 1965-66 Gerhard Friehs, MD, Austria
16. 1965-66  Ary Blesovsky, MD, England
17. 1966-67  C. Peter Clarke, FRACS, Australia
18. 1966-67  G.B. Parulkar, MD, India
19. 1967-68  Claus Jessen, MD, Denmark
20. 1969-70  Peter Bruecke, MD, Austria
21. 1970-71  Michel S. Slim, MD, Lebanon
22. 1971-72  Severi Pellervo Mattila, MD, Finland
23. 1972-73  Yasuyuki Fujiwara, MD, Japan
24. 1973-74  Marc Roger deLeval, MD, England
25. 1974-75  J.J. DeWet Lubbe, MD, South Africa
26. 1975-76  Mieczyslaw Trenkner, MD, Poland
27. 1976-77  Bum Koo Cho, MD, Korea
28. 1977-78  Alan William Gale, MD, FRACP, FRACS, Australia
29. 1978-79  Eduardo Otero Coto, MD, Spain
31. 1981-82  Claudio A. Salles, MD, Brazil
32. 1982-83  Yasuhsisa Shimazaki, MD, Japan
33. 1983-84  Georg S. Kobinia, MD, Austria
34. 1984-85  Aram Smolinsky, MD, Israel
35. 1985-86  Florentino J. Vargas, MD, Argentina
36. 1986-87  Ari L.J. Harjula, MD, Finland
37. 1987-88  Byung-Chul Chang, MD, Korea
38. 1988-89  Wang Cheng, MD, P.R. China
39. 1989-90  Christopher Knott-Craig, MD, South Africa
40. 1991-92  Ko Bando, MD, PhD, Japan
41. 1992-93  Timothy E. Oaks, MD, United States
42. 1993-94  Alain Serraf, MD, Morocco
43. 1995-96  Cornelius McKown Dyke, MD, United States
44. 1996-97  Monica Robotin-Johnson, MD, France
45. 1997-98  Jun Wan, MD, P.R. of China
46. 1998-99  Christian Kreutzer, MD, Argentina
47. 1999-00  Anders Franco-Cereceda, MD, Sweden
48. 2000-01  Albertus M. Scheule, MD, Germany
49. 2001-02  Anna Maria Ciccone, MD, Italy
50. 2002-03  Cliff K.C. Choong, MD, New Zealand
51. 2003-04  Edvin Prifti, MD, Albania
52. 2004-05  Smruti Ranjan Mohanty, MD, India
53. 2005-06  Zsolt Tóth, MD, Hungary
54. 2006-07  Ari Mennander, MD, Finland
55. 2007-08  Ioannis Toumpoulis, MD, Greece
56. 2008-09  Sachin Talwar, MD, India
57. 2009-10  Juan J. Fibla, MD, PhD, FETCS, Spain
58. 2010-11  Mohsen Ibrahim, MD, Italy
59. 2011-12  Zhigang Li, MD, Shanghai, China
Research Scholarship Recipients

The American Association for Thoracic Surgery Research Scholarship was established by the Association in 1985. Funded by the Graham Education and Research Foundation, the Research Scholarship provides opportunity for research, training and experience for North American surgeons committed to pursuing an academic career in cardiothoracic surgery. The program is undertaken within the first three years after completion of an approved cardiothoracic residency and is two years in duration.

**Michael E. DeBakey Research Scholarship**
2011-2013  Marcelo Cypel, MD, MSc
            University of Toronto
            Frederick Tibayan, MD
            Oregon Health and Science University

**Third Alfred Blalock Research Scholarship**
2010-2012  Matthias Peltz, MD
            University of Texas Southwestern Medical Center

**Third Edward D. Churchill Research Scholarship**
2009-2011  Prasad S. Adusumilli, MD
            Memorial Sloan-Kettering Cancer Center
            William M. Yarbrough, MD
            Medical University of South Carolina

**Norman E. Shumway Research Scholarship**
2008-2010  Alexander S. Krupnick, MD
            Washington University
            Michael P. Fischbein, MD
            Stanford University

**Second Dwight Harken Research Scholarship**
2007-2009  Shu S. Lin, MD
            Duke University Medical Center

**John W. Kirklin Research Scholarship**
2006-2008  Daniel Kreisel, MD
            Washington University
            Christine Lau, MD
            University of Michigan
Second Andrew G. Morrow Research Scholarship  
2005-2007  Marc de Perrot, MD, MSc  
University of Toronto/Toronto General Hospital  
Frederick Y. Chen, MD  
Brigham & Women’s Hospital

Second John Alexander Research Scholarship  
2004-2006  King F. Kwong, MD  
University of Maryland

Second Robert E. Gross Research Scholarship  
2003-2005  Ross M. Bremner, MD, PhD  
St. Joseph’s Hospital  
Vivek Rao, MD, PhD  
Toronto General Hospital

Second Alton Ochsner Research Scholarship  
2002-2004  Yolonda L. Colson, MD  
Brigham & Women’s Hospital  
Michael S. Mulligan, MD  
University of Washington Medical Center

Second John H. Gibbon, Jr. Research Scholarship  
2001-2003  Richard J. Battafarano, MD, PhD  
University of Maryland  
Carmelo A. Milano, MD  
Duke University Medical Center

Second Alfred Blalock Research Scholarship  
2000-2002  Abbas Ardehali, MD  
UCLA School of Medicine  
Thomas K. Waddell, MD, MSc, PhD  
University of Toronto and Toronto General Hospital

The Second Edward D. Churchill Research Scholarship  
1999-2001  Joseph B. Shrager, MD  
University of Pennsylvania

Dwight Harken Research Scholarship  
1998-2000  Bruce Rosengard, MD  
Massachusetts General Hospital
Andrew G. Morrow Research Scholarship
1997-1999  Stephen C. Yang, MD
           Johns Hopkins University School of Medicine

John Alexander Research Scholarship
1996-1998  Richard Norris Pierson, III, MD
           University of Maryland

Robert E. Gross Research Scholarship
1994-1996  Mehmet C. Oz, MD
           Columbia Presbyterian Medical Center
           Thoralf M. Sundt, III, MD
           Massachusetts General Hospital

Alton Ochsner Research Scholarship
           Brigham and Women’s Hospital

John H. Gibbon, Jr., Research Scholarship
1990-1992  Donald D. Glower, MD
           Duke University Medical Center

Alfred Blalock Research Scholarship
1988-1990  Gus J. Vlahakes, MD
           Massachusetts General Hospital and Harvard Medical School

Edward D. Churchill Research Scholarship
1986-1988  Mark K. Ferguson, MD
           University of Chicago, Department of Surgery

Scientific Achievement Award
The American Association for Thoracic Surgery Scientific Achievement Award was
established by the Association in 1994. The award serves to honor individuals who
have achieved scientific contributions in the field of thoracic surgery worthy of
the highest recognition the Association can bestow. Honorees receive a Medallion
for Scientific Achievement from the Association presented by the president at the
Annual Meeting and the honoree’s name and biography is printed in the The Journal
of Thoracic and Cardiovascular Surgery.

Recipients
2011       Marc R. de Leval London, United Kingdom
2010       Richard D. Weisel, Toronto, ON, Canada
2008       Andrew S. Wechsler, Philadelphia, PA
2007       Gerald D. Buckberg, Los Angeles, CA
Lifetime Achievement Award

The American Association for Thoracic Surgery established the Lifetime Achievement Award in 2003. The Award serves to recognize individuals for their significant contributions to cardiothoracic surgery in the areas of patient care, teaching, research, or community service. Honorees receive a plaque for Lifetime Achievement from the Association presented by the president at the Annual Meeting.

Recipients

2009  Thomas B. Ferguson, St. Louis, MO
2007  Frank C. Spencer, New York, NY
2004  F. Griffith Pearson, Toronto, ON, Canada

C. Walton Lillehei Resident Forum

Through a generous unrestricted educational grant from St. Jude Medical, Inc., this Forum recognizes the extraordinary contributions to our specialty by a great innovator in congenital and vascular disease. Selected by the Cardiothoracic Residents Committee, the recipient receives a $5,000 award.

Winners

2010  Bobby Yanagawa, Toronto, ON, Canada
**BRCA1 is a Novel Regulator of Cardiac Function via Altering Myocardial Substrate Utilization and Mitochondrial Bioenergetics**

2009  J. Raymond Fitzpatrick, Philadelphia, PA, USA
**Tissue Engineered Pro-Angiogenic Fibroblast Matrix Improves Myocardial Perfusion and Function and Limits Ventricular Remodeling Following Infarction**

2008  Turner C. Lisle, Charlottesville, VA
**Inflammatory Lung Injury After Cardiopulmonary Bypass Is Attenuated by Adenosine A2A Receptor Activation**
<table>
<thead>
<tr>
<th>Year</th>
<th>Speaker</th>
<th>Location</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>Leo M. Gazoni</td>
<td>Charlottesville, NC</td>
<td>Timing Is Everything. Pretreatment of Donor Lungs with the Adenosine 2A Receptor Agonist ATL-313 Results in Superior Protection From Lung Ischemia Reperfusion Injury Versus Administration During Reperfusion</td>
</tr>
<tr>
<td>2006</td>
<td>Jae Y. Kim</td>
<td>San Francisco, CA</td>
<td>WNT Inhibitory Factor Inhibits Lung Cancer Cell Growth</td>
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<tr>
<td></td>
<td>Amir M. Sheikh</td>
<td>Durham, NC</td>
<td>Proteomics of Brain Injury in a Neonatal Model of Deep Hypothermic Circulatory Arrest</td>
</tr>
<tr>
<td>2005</td>
<td>Paul W. Fedak</td>
<td>Toronto, ON Canada</td>
<td>Cell Transplantation Preserves Matrix Homeostasis: A Novel Paracrine Mechanism</td>
</tr>
<tr>
<td>2004</td>
<td>Filiberto Rodriguez</td>
<td>Palo Alto, CA</td>
<td>Alterations of Transmural Strains In the Ischemic Border Zone During Acute Mid-Circumflex Occlusion</td>
</tr>
<tr>
<td></td>
<td>Mark F. Berry</td>
<td>Philadelphia, PA</td>
<td>Targeted Overexpression of Leukemia Inhibitory Factor Preserves Myocardium In Postinfarction Heart Failure</td>
</tr>
<tr>
<td>2002</td>
<td>Subhasis Chatterjee</td>
<td>Philadelphia, PA</td>
<td>Viral Gene Transfer of the Anti-Apoptotic Factor ARC Protects Against Post Ischemic Heart Failure</td>
</tr>
<tr>
<td>2001</td>
<td>Tomasz A. Timek</td>
<td>Palo Alto, CA</td>
<td>Septal-Lateral Annular Cinching Abolishes Acute Ischemic Mitral Regurgitation In Sheep</td>
</tr>
<tr>
<td>2000</td>
<td>Allan S. Stewart</td>
<td>Philadelphia, PA</td>
<td>Gene Transfer of Bcl-2 Does Not Affect Myocardial Stunning But Ameliorates the Deleterious Effects of Chronic Remodeling</td>
</tr>
<tr>
<td>1999</td>
<td>Andrew I. Campbell</td>
<td>Toronto, ON, Canada</td>
<td>Angiogenic Therapy with Vascular Endothelial Growth Factor Reverses Pulmonary Hypertension</td>
</tr>
<tr>
<td>1998</td>
<td>Stephen D. Cassivi</td>
<td>Toronto, ON, Canada</td>
<td>Transgene Expression Following Adenoviral-Mediated Retransfection of Rat Lungs Is Increased and Prolonged by Transplantation-Level Immunosuppression</td>
</tr>
</tbody>
</table>
ARTICLE I. NAME

The name of this Corporation is The American Association for Thoracic Surgery (hereinafter the “Association”).

ARTICLE II. PURPOSE

The purposes of the Association shall be:

To associate persons interested in, and carry on activities related to, the science and practice of thoracic surgery, the cure of thoracic disease and the related sciences.

To encourage and stimulate investigation and study that will increase the knowledge of intrathoracic physiology, pathology and therapy, and to correlate and disseminate such knowledge.

To hold scientific meetings featuring free discussion of problems and developments relating to thoracic surgery, and to sponsor a journal for the publication of scientific papers presented at such meetings and other suitable articles.

To succeed to, and continue to carry on the activities formerly conducted by The American Association for Thoracic Surgery, an unincorporated association.

ARTICLE III. MEMBERSHIP

Section 1. There shall be three classes of members: Honorary, Senior, and Active. Admission to membership in the Association shall be by election. Membership shall be limited, the limits on the respective classes to be determined by these By-Laws. Only Active and Senior Members shall have the privilege of voting or holding office, except as provided by these By-Laws. Honorary members shall have the privilege of voting but shall not be eligible to hold office.

Section 2. Honorary Membership shall be reserved for such distinguished persons as may be deemed worthy of this honor by the Council with concurrence of the Association.
Section 3. The number of Senior Members shall be unlimited. Active Members automatically advance to Senior Membership at the age of seventy years or upon request after the age of sixty-five. In addition, a younger Active Member may be eligible for Senior Membership by petition to and approval by the Council.

Section 4. Active Membership shall be limited to seven hundred fifty. A candidate to be eligible must be a physician and shall have achieved distinction in the thoracic field or shall have made a meritorious contribution to knowledge pertaining to thoracic disease or its surgical treatment.

Section 5. Election to Honorary, Senior or Active Membership shall be for life, subject to the provisions of Section 8 following and Article IX hereof. All new members shall be elected directly to Honorary or Active status.

Section 6. Candidates for membership in this Association must be formally nominated and seconded, in an approved manner, by not less than three Active, Senior or Honorary Members. Such nomination must have been in the hands of the Membership Committee for not less than four months, and the name of the candidate must have been distributed to all members of the Association before final action may be taken on any new candidate for election to Active Membership. Provided the foregoing requirements have been met and the candidates have been approved by the Membership Committee and by the Council, their names shall be presented to the Association at a future regularly convened annual meeting for final action. A three-fourths vote of those present and voting shall be required to elect. Any candidate for membership in the Association who has failed of election three times shall automatically cease to be a candidate and may not be renominated until after a lapse of three years.

Section 7. The report of the Membership Committee shall be rendered at the second executive session of each annual meeting of the Association. Candidates shall be presented in groups in the following order: Candidates for Honorary Membership; retirement of Active Members to Senior Membership; Candidates for Active Membership; members dropped from the rolls of the Association.

Section 8. Members in good standing may resign at any time. Resignation shall not relieve a member of the obligation to pay outstanding dues or assessments. The Council may delay or refuse to accept the resignation of any member who has received written notification that the Ethics Committee is conducting an investigation concerning the member's conduct until a final decision on the matter has been issued in accordance with the Procedural Guidelines for Ethics Complaints Against AATS Members established by the Council. A member whose resignation is not accepted by the Council is not required to pay dues or assessments after submission of the resignation.
Section 9. The Council shall recommend that any Active Member whose dues are in arrears for two years shall have his/her membership terminated, except that if the Ethics Committee is conducting an investigation concerning the member’s conduct, such member’s membership shall not be terminated until a final decision on the matter has been issued in accordance with the Procedural Guidelines for Ethics Complaints Against AATS Members established by the Council.

ARTICLE IV. BOARD OF DIRECTORS (“COUNCIL”)

Section 1. The Board of Directors of the Association shall be called the Council and shall be composed of the President, President-Elect, Vice-President, Secretary, Treasurer, and six Councilors. The Editor of the Association and the chairs of the Education Committee and the Scientific Affairs and Government Relations Committee shall be members ex-officio without vote. All members of the Council must be Active or Senior Members of the Association, except that the Editor may be an Honorary Member.

Section 2. The Council shall be the governing body of the Association, and shall have full power to manage and act on all affairs of the Association, except as follows:

It may not levy any general assessments against the membership but it may, in individual cases, waive annual dues or assessments.

It may not change the Articles of Incorporation or By-Laws.

It may neither elect new members nor alter the status of existing members, other than to apply the provisions of Article III, Sections 8 and 9 and Article IX.

The Council may adopt such rules and regulations for the conduct of the Association’s affairs as the Council deems necessary or advisable, including specifically the Procedural Guidelines for Ethics Complaints Against AATS Members.

Section 3. At the conclusion of the annual meeting, the retiring President shall automatically become a Councilor for a one-year term office. One of the other five Councilors shall be elected at each annual meeting of the Association to serve for a four-year term of office in the place of the elected Councilor whose term expires at such meeting. When appropriate, one of the Councilors shall be elected from among the non-North American members of the Association to serve for a three-year term of office. No Councilor may be reelected to succeed himself/herself. Any Councilor so elected shall take office upon the conclusion of the annual meeting at which he/she is elected.

Section 4. Vacancies in the office of Councilor shall be temporarily filled by the Council subject to approval of the Association at the next annual meeting of the Association.
ARTICLE V. OFFICERS

Section 1. The officers of the Association shall be President, a President-Elect, a Vice-President, a Secretary, and a Treasurer. All officers must be Active or Senior Members of the Association. Said officers shall be ex-officio members of the Council of the Association.

Section 2. The Council may, for the purposes of Article IV, give status as officers of the Association to the individual members of an ad hoc Committee appointed by the Council.

Section 3. The President, President-Elect, Vice-President, Secretary and Treasurer shall be elected at the annual meeting of the Association and shall take office upon conclusion of the meeting. The President, President-Elect, and the Vice-President shall be elected for a one-year term of office. The Secretary and the Treasurer shall be elected for a one-year term of office and may be reelected for not more than four additional terms.

Section 4. The President of the Association shall perform all duties customarily pertaining to the office of President. He/she shall preside at all meetings of the Association and at all meetings of the Council.

Section 5. The President-Elect of the Association shall, in the absence or inability of the President to serve, perform all duties customarily pertaining to the office of President. In this instance the Council shall advance the Vice-President to the office of the President-Elect and appoint an interim Vice-President as necessary.

Section 6. The Secretary of the Association shall perform all duties customarily pertaining to the office of Secretary. He/she shall serve as Secretary of the Association and as Secretary of the Council. When deemed appropriate an Active or Senior Member may be elected to serve as an understudy to the Secretary in anticipation of the latter’s retirement from office.

Section 7. The Treasurer of the Association shall perform all duties customarily pertaining to the office of Treasurer. He/she shall serve as Treasurer of the Association and as a member of the Program Committee. When deemed appropriate an Active or Senior Member may be elected to serve as an understudy to the Treasurer in anticipation of the latter’s retirement from office.

Section 8. The Editor of the Association is not an officer of the Association. The Editor shall be appointed by the Council at its annual meeting; provided, however, that such appointment shall not become effective until approved by the Association at the annual meeting of the Association. The Editor shall be appointed for a five-year term and may be reappointed to no more than two additional one-year terms. The Editor shall serve as the Editor of the Official Journal and shall be ex officio the Chair of the Editorial Board and a member of the Council of the Association without vote.
Section 9. Vacancies occurring among the officers named in Section I or a vacancy in the position of Editor shall be temporarily filled by the Council, subject to approval of the Association at the next meeting of the Association.

ARTICLE VI. COMMITTEES

Section 1. The Council is empowered to appoint a Membership Committee, a Program Committee, a Necrology Committee and such other committees as may in its opinion be necessary or desirable. All such committees shall render their reports at an executive session of the Association, except that no ad hoc committee need report unless so directed by the Council.

Section 2. The Membership Committee shall consist of eight (8) Active or Senior Members, two of whom shall be from outside North America. The Council may appoint not more than one of its own members to serve on this Committee. The duties of the Membership Committee are to investigate all candidates for membership in the Association and to report its findings as expeditiously as possible to the Council through the Secretary of the Association. This Committee is also charged with searching the international literature to the end that proper candidates may be presented to the Association for consideration. A Chair shall be appointed from among the current members who shall serve a single two-year term. North American appointments to this Committee shall be for a period of one year, and not more than four (4) of the North American members may be reappointed to succeed themselves. Non-North American appointments to this Committee shall be for a period of two years and may not be reappointed to succeed themselves.

Section 3. The Program Committee shall consist of at least 17 members: the President, the President-Elect, the Vice President, the Secretary, the Treasurer, the Past President, the Editor, the Chair of the Education Committee, and at least 9 members-at-large, three each representing the areas of adult cardiac, pediatric cardiac and general thoracic surgery. The President or his/her designee shall serve as the Chair of this Committee. Three of these members-at-large shall be appointed each year by the President for a three-year term. Additional Committee members shall be appointed for one or two-year terms. The duties of this Committee shall be to arrange, in conformity with instructions from the Council, the scientific program for the annual meeting.

Section 4. The Nomination Committee shall consist of the five (5) immediate Past Presidents of the Association. The most senior Past President shall serve as Chair. This Committee shall prepare a slate of nominees for Officers and Councilors upon instruction from the Council as to the vacancies which are to be filled by election and shall present its report at the second executive session of the Annual Meeting.

Section 5. The Association as a whole may authorize the Council to appoint Scientific or Research Committees for the purpose of investigating thoracic problems and may further authorize the Council to support financially such committees
American Association for Thoracic Surgery

to a limited degree. When Scientific or Research Committees are authorized by the Association, the Council shall appoint the Chairs of these Committees, with power to organize their committees in any way best calculated to accomplish the desired object, subject only to the approval of the Council. Financial aid rendered to such Committees shall not exceed such annual or special appropriations as may be specifically voted for such purposes by the Council. Members are urged to cooperate with all Scientific or Research Committees of the Association.

Section 6. The Evarts A. Graham Memorial Traveling Fellowship Committee shall consist of eight members: two cardiac surgeons, two general thoracic surgeons, two transplant surgeons, and two pediatric heart surgeons, two to be appointed each year for four year terms with the senior two members of the Committee serving as Co-Chairs. The duties of the Committee shall be to recommend Graham Fellowship candidates to the Graham Education and Research Foundation, and to carry out other business pertaining to the Fellowship and Fellows, past, present and future.

Section 7. The Editorial Board shall be appointed by the Editor, subject only to the approval of the Council. The Editor shall be, ex officio, the chairman of this board and shall be privileged to appoint and indefinitely reappoint such members of the Association, regardless of class of membership, and such non-members of the Association as in his/her opinion may be best calculated to meet the editorial requirements of the Association.

Section 8. The Ethics Committee shall consist of seven members appointed by the Council, one of whom shall be named as Chair by the Council. The members shall serve a five year term, and may be reappointed. The Ethics Committee shall investigate complaints alleging ethical breaches of Association members received in writing or it may investigate a member’s conduct on its own initiative. A majority of the Ethics Committee shall constitute a quorum, and the act of a majority of the members present at a meeting at which a quorum is present shall be the act of the Ethics Committee.

The Ethics Committee may discipline any member for (i) failure to meet the requirements for membership in the Association, (ii) conduct in violation of these By-Laws, the Code of Ethics adopted by the membership of the Association, or the Association’s rules and policies, (iii) being convicted of or pleading guilty to a felony or any crime arising out of the practice of medicine or involving moral turpitude, (iv) being disciplined by, or otherwise having the member’s right to practice medicine limited, suspended, terminated or otherwise affected by, any medical licensing authority, or (v) engaging in conduct inconsistent with the purposes of the Association.

Section 9. The Education Committee shall consist of nine (9) members with three (3) members being appointed each year by the Council for a three (3) year term. At least three (3) members shall represent the areas of adult cardiac, pediatric cardiac and general thoracic surgery. In addition, a chair shall be appointed by the Council for a three (3) year term who shall be a member of the Council, ex officio
without vote and a member of the Program Committee. The committee shall be responsible for identifying areas within the specialty for which additional training and education are necessary and the selection of topics and chairs for postgraduate activity to address these areas.

Section 10. The Committee on Publications shall consist of the Secretary as Chair, the President-Elect, the Vice President, the Treasurer, and the Executive Director. The Committee shall oversee the business relationships between the Association and the publisher of its journal maintain liaison among the publisher, the Editor, and the Council, and shall have advisory oversight for all official scientific publications of the Association and make recommendations to the Editor and the Council.

Section 11. The Cardiothoracic Residents Committee shall consist of eight members appointed by the Council. Two members shall be appointed each year for a four-year term with the senior two members of the Committee serving as Co-Chairs. At least two members shall represent adult cardiac surgery, general thoracic surgery, congenital heart surgery, and the Editorial Advisory Board of THE JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY. The duties of the committee shall include the development of educational activities specifically directed at cardiothoracic residents, the review of scientific material submitted for any resident award program and the selection of any such awardees and the responsibility for recommending to the Council the generation of new programs of interest to cardiothoracic residents.

Section 12. The Scientific Affairs and Government Relations Committee shall consist of a Chair, appointed by the Council who shall serve a term of three (3) years and shall be a member of the Council, ex officio, without vote, the Secretary who shall serve ex-officio and such members as the Council may deem appropriate to fulfill the responsibilities of the committee who shall serve for one (1) year. The committee shall be responsible for identifying and interacting with the various Federal agencies and institutions which affect research activities and funding in cardiothoracic surgery. It shall serve as a resource to the membership in the development of programmatic activities appropriate to research efforts in the specialty.

Section 13. The Research Scholarship Committee shall consist of nine (9) members appointed by the Council. Two members shall be appointed each year for a four-year term with the senior two members of the Committee serving as Co-Chairs. Two members shall represent adult cardiac surgery, general thoracic surgery, congenital heart surgery and transplant surgery. The duties of the Committee shall include the review of scientific material submitted for all research award programs and to recommend research award candidates to the Graham Education and Research Foundation, and the responsibility for recommending to the Council the generation of new research programs of interest to cardiothoracic surgeons.
ARTICLE VII. FINANCES

Section 1. The fiscal year of the Association shall begin on the first day of January and end on the last day of December each year.

Section 2. Members shall contribute to the financial maintenance of the Association through initiation fees, annual dues, and special assessments. The amount of the annual dues and the initiation fees shall be determined by the Council. If, at the end of any fiscal year, there is a deficit in the current funds of the Association, the Council may send out notices to that effect and invite Active members to contribute the necessary amount so that no deficit is carried over from one fiscal year to another. The Association may, in any regularly convened meeting, vote a special assessment which shall become an obligatory charge against the classes of members affected thereby.

Section 3. To meet the current expenses of the Association, there shall be available all revenue derived by the Association.

ARTICLE VIII. MEETINGS

Section 1. The time, place, duration, and procedure of the annual meeting of the Association shall be determined by the Council and the provisions of the By-Laws.

Section 2. Notice of any meeting of the Association shall be given to each member of the Association not less than five nor more than forty days prior to any annual meeting and not less than thirty nor more than forty days prior to any special meeting by written or printed notice delivered personally or electronically by mail, by or at the direction of the Council, the President or the Secretary. Such notice shall state the place, day and hour of the meeting and in the case of a special meeting shall also state the purpose or purposes for which the meeting is called.

Section 3. A special meeting of the Association may be called by the Council or on the written request of fifteen members delivered to the Council, the President or the Secretary. The specific purposes of the meeting must be stated in the request.

Section 4. Attendance at annual meetings and participation in the scientific programs shall be optional for all Honorary and Senior Members, but it shall be expected from all Active Members.

Section 5. Each annual meeting shall have at least two executive sessions.

Section 6. When the Association convenes for its annual meeting, it shall immediately go into the first executive session, but the business at this session shall be limited to:

Appointment of necessary committees.

Miscellaneous business of an urgent nature.
Section 7. The second executive session of the Association shall be held during the afternoon of the second day of the meeting. The business at this session shall include, but is not limited to:

Reading or waiver of reading of the minutes of the preceding meetings of the Association and the Council.

Report of the Treasurer of the last fiscal year.

Audit Report.

Report of the Necrology.

Report of the Program Committee.

Action on amendments to the Articles of Incorporation and By-Laws, if any.

Action on recommendations emanating from the Council.

Unfinished Business.

New Business.

Report of the Membership Committee.

Election of new members.

Report of Nominating Committee.

Election of officers.

Section 8. Except where otherwise required by law or these By-Laws, all questions at a meeting of the members shall be decided by a majority vote of the members present in person and voting. Voting by proxy is not permitted.

Section 9. Fifty voting members present in person shall constitute a quorum at a meeting of members.

Section 10. While the scientific session of the annual meeting is held primarily for the benefit of the members of the Association, it may be open to non-members who are able to submit satisfactory credentials, who register in a specified manner, and who pay such registration fee as may be determined and published by the Council from year to year.

Section 11. There shall be an annual meeting of the Council held during the annual meeting of the Association. Additional meetings of the Council may be called on not less than seven days' prior written or telephonic notice by the President, the Secretary or any three members of the Council.

Section 12. Six members of the Council shall constitute a quorum for the conduct of business at any meeting of the Council, but a smaller number may adjourn any such meeting.
Section 13. Whenever any notice is required to be given to any member of the Council, a waiver thereof in writing, signed by the member of the Council entitled to such notice, whether before or after the time state therein, shall be deemed equivalent thereto.

Section 14. Any action which may be or is required to be taken at a meeting of the Council may be taken without a meeting if a consent in writing, setting forth the action so taken, shall be signed by all of the members of the Council. Any such consent shall have the same force and effect as a unanimous vote at a duly called and constituted meeting.

ARTICLE IX. DISCIPLINE

Any member of the Association may be admonished, censured, placed on probation, suspended or expelled for (i) failure to meet the requirements for membership in the Association, (ii) conduct in violation of these By-Laws, the Code of Ethics adopted by the membership of the Association, or the Association's rules and policies, (iii) being convicted of or pleading guilty to a felony or any crime arising out of the practice of medicine or involving moral turpitude, (iv) being disciplined by, or otherwise having the member's right to practice medicine limited, suspended, terminated or otherwise affected by, any medical licensing authority, or (v) engaging in conduct inconsistent with the purposes of the Association. Disciplinary actions shall be conducted in accordance with the Procedural Guidelines for Ethics Complaints Against AATS Members established by the Council, which procedures shall include written notification to the member of the infraction and an opportunity for a hearing.

ARTICLE X. INDEMNIFICATION

Section 1. The Association shall indemnify any and all of its Councilors (hereinafter in this Article referred to as “directors”), officers, employees, committee members and agents, or former directors, officers, employees, committee members and agents, or other person who has served or shall serve at the Association's request or by its election as a director or officer of another corporation or association, against expenses actually and necessarily incurred by them in connection with the defense or settlement of any action, suit or proceeding in which they, or any of them, are made parties, or a party, by reason of being or having been directors, officers, employees, committee members or agents of the Association, or directors or officers of such other corporation or association, provided, however, that the foregoing shall not apply to matters as to which any such director, officer, employee, committee member or agent, or former director, officer, employee, committee member or agent or person shall be adjudged in such action, suit or proceeding to be liable for willful misconduct in the performance of duty or to such matters as shall be settled by agreement predicating on the existence of such liability.
Section 2. Upon specific authorization by the Council, the Association may purchase and maintain insurance on behalf of any and all of its directors, officers, employees, committee members or agents, or former directors, officers, employees, committee members or agents, or any person who has served or shall serve at the Association’s request or by its election as a director or officer of another corporation or association, against any liability or settlement based on asserted liability, incurred by them by reason of being or having been directors, officers, employees, committee members or agents of the Association or directors or officers of such other corporation or association, whether or not the Association would have the power to indemnify them against such liability or settlement under the provisions of Section 1.

ARTICLE XI. PAPERS

Section 1. All papers read before the Association shall become the property of the Association. Authors shall provide original or electronic copies of their manuscripts to the Editor, prior to the time of presentation, for consideration for publication in the official Journal.

Section 2. When the number of papers makes it desirable, the Council may require authors to present their papers in abstract, and may set a time limit on discussions.

ARTICLE XII. INITIATION FEES, DUES AND ASSESSMENTS

Section 1. Honorary Members of the Association are exempt from all initiation fees, dues, and assessments.

Section 2. Annual dues for Active Members shall be established by the Council and shall include a year’s subscription to THE JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY.

Section 3. Senior Members are exempt from dues.

Section 4. The initiation fee for those elected directly to Active Membership shall be established by the Council.

Section 5. Active Members must subscribe to THE JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY to retain their membership status.

Section 6. Subscription to THE JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY is optional for Senior Members.

Section 7. Bills for membership dues and for subscriptions to THE JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY will be mailed to members by the Treasurer at the beginning of the fiscal year.
ARTICLE XIII. PARLIAMENTARY PROCEDURE

Except where otherwise provided in these By-Laws or by law, all parliamentary proceedings at the meetings of this Association and its Council and Committees shall be governed by the then current Sturgis Standard Code of Parliamentary Procedure.

ARTICLE XIV. AMENDMENTS

Section 1. These By-Laws may be amended by a two-thirds vote of the members present and voting at an executive session of a properly convened annual or special meeting of the Association provided that the proposed amendment has been moved and seconded by not less than three members at a prior executive session of that meeting or a prior meeting of the Association.

Section 2. These By-Laws may be suspended in whole or in part for a period of not more than twelve hours by a unanimous vote of those present and voting at any regularly convened meeting of the Association.

As amended, May, 2010
JOINT AATS/STS POLICY STATEMENT ON EDUCATIONAL COURSES

The American Association for Thoracic Surgery (AATS) and the Society of Thoracic Surgeons (STS) strongly discourage others from holding educational events in the general locations of STS or AATS sponsored meetings, including the STS and AATS Annual Meetings and the jointly sponsored Tech-Con Programs and Postgraduate Courses, during the 48 hours preceding those meetings. Such unauthorized events are deemed detrimental to STS and AATS educational efforts, and create excessive demands on the time and resources of cardiothoracic surgeons. Both STS and AATS urge their members and corporate partners, as well as other education providers, to respect and adhere to this policy. In turn, each organization will seek to accommodate others in their efforts to reach the cardiothoracic surgery audience in conjunction with their respective and jointly conducted meetings.

For a complete listing of AATS policies, including Guidelines for Using the Cardiothoracic Operation as a Teaching Instrument and Ethical Standards for Cardiothoracic Surgeons Relating to Industry, please visit www.aats.org/Association/Policies
**ALPHABETICAL ROSTER**

*(Current as of April, 2011)*

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*Senior Member
Rosengart, Todd K
*Srosensweig, Jacob
Ross, David B
*Rossi, Nicholas P
Roth, Jack A
Rousou, John A
Roviaro, Giancarlo
*R Rubin, Joseph W
Ruel, Marc
*Ruflianchas Sanchez, Juan J
Rusch, Valerie W

S
Sabik, Joseph F
*S Sade, Robert M
Safi, Hazim J
Salerno, Tomas A
*Salomon, Neal W
Samuels, Louis E
Sanchez, Juan A
*S Sanders, John H, Jr
* Sanders, Richard G
Sano, Shunji
Sarris, George E
*Sass er, William F
*Sauvage, Lester R
*Sawyer, Philip N
*Sawyers, John L
Schaffers, Hans-Joachim
Schaff, Hartzell V
Schlichter, Andres J
Schmid, Ralph A
Schmoker, Joseph D
Scholz, Peter M
Schrump, David S
Schueler, Stephan W
*Schuster, Samuel R
*Schwartz, Seymour I
*Scott, Seymour E

*Senior Member

Scott, Walter J
*Scully, Hugh E
*Sebening, Fritz
*Selle, Jay G
*Sellers, Robert D
Sellke, Frank W
Selzman, Craig H
Sergeant, Paul T
Serraf, Alain
Sethi, Gulshan K
Shah, Ashish S
Shahian, David M
Shapira, Oz M
Shemin, Richard J
Shennib, Hani
*Shield s, Thomas W
Shimpo, Hideto
Shinoka, Toshiharu
*Sho chat, Stephen J
Shrager, Joseph B
Shum-Tim, Dominique
Shumway, Sara J
*Siderys, Harry
Sievers, Hans-Henric
*Sievers, Ralph D
*Silver, Arthur W
*Silver, Donald
Silverman, Norman A
*Simmons, Earl M
*Simmons, Robert L
Singh, Arun K
*Sink, James D
*Sintek, Colleen F
Slaughter, Mark
*Sloan, Herbert E
Smedira, Nicholas G
*Smeloff, Edward A
Smith, Craig R
Smith, J Michael
Smith, Peter K

Smythe, William R
Snow, Norman J
Sonett, Joshua R
Song, Howard K
*Soroff, Harry S
*Spear, Harold C
Speir, Alan M
*Spencer, Frank C
Spielvogel, David
Spinale, Francis G
*Spotnitz, Henry M
Spotnitz, William D
Spray, Thomas L
*Stanford, William
*Starek, Peter J
Starnes, Vaughn A
*Starr, Albert
*State, David
*Steichen, Felicen M
Stellin, Giovanni
*Stenstrom, John D
*Stephenson, Larry W
*Stern, Harold
*Stens, Laurence P
Stewart, Allan S
*Stewart, Scott
*Stiles, Quentin R
*Stoney, William S
*Stranahan, Allan
*Strevey, Tracy E, Jr
*Subramanian, S
*Subramanian, Valavanur A
Sugarbaker, David J
Sullivan, Henry J
Suma, Hisayoshi
Sun, Benjamin
Sundaresan, R Sudhir
Sundt, Thoralf M
*Sutherland, R Duncan
Svensson, Lars G
Swain, Julie A
*Swan, Kenneth G
Swanson, Scott J
*Swenson, Orvar
Swisher, Stephen G
*Symbas, Panagiotis

T
Tabayashi, Koichi
*Taber, Rodman E
Taggart, David P
Takamoto, Shinichi
*Takaro, Timothy
*Tarnay, Thomas J
*Tatooles, Constantine J
Tatoulis, James
Tchervenkov, Christo I
*Tector, Alfred J
*Thal, Alan P
*Thevenet, Andre A
Thistlethwaite, Patricia A
*Thomas, Arthur N
*Thomas, Clarence S, Jr
*Thomas, George I
Thomas, Pascal A
*Thomas, Paul A, Jr
*Thomson, Norman B, Jr
Thourani, Vinod H, III
*Thurer, Richard J
*Thurer, Robert L
*Tice, David A
*Timmis, Hilary H
*Todd, Edward P
Todd, Thomas RJ
*Tomatis, Luis A
Torchiana, David F
Toyoda, Yoshiya
Trachiotis, Gregory D, Jr
Trastek, Victor F
*Treasure, Robert L
Trento, Alfredo

*Senior Member

Tribble, Curtis G
*Tricerri, Fernando E
*Trimmer, Alan S
*Trumpler, Max J
*Trusler, George A
Tsang, Victor T
*Turley, Kevin
*Turney, Stephen Z
Turrentine, Mark W
Tweddell, James S
*Tyers, G Frank O
*Tyson, Kenneth RT

U
Ueda, Yuichi
*Ullyot, Daniel J
Unger, Felix H
Ungerleider, Ross M
Unruh, Helmut W
*Urschel, Harold C, Jr
Urschel, John D, Jr

V
Van Arsdell, Glen
*Van De Water, Joseph M
*Van Heekeren, Daniel W
Van Raemdonck, Dirk EM
Van Schil, Paul E
Van Trigt, Peter, III
*Van Way, Charles W, III
*Vander Salm, Thomas J
*Vanekco, Robert M
Vanermen, Hugo KI
Vaporciyan, Ara A
Varela, Gonzalo
Vassiliades, Thomas A
*Vaughn, Cecil C
Vega, J David
*Velth, Frank J
Venuta, Federico
Verrier, Edward D, Jr
Vinten-Johansen, Jakob
Vlahakes, Gus J
von Segesser, Ludwig K
Vouhe, Pascal R
Vricella, Pascal R

W
Wada, Hiromi
Waddell, Thomas K
Wain, John C
*Wakabayashi, Akio
*Waldhausen, John A
Walker, William E
*Walkup, Harry E
*Wallace, Robert B
*Walls, Joseph T
*Wallsh, Eugene
Wallwork, John
Walsh, Garrett L
Walters, Henry L
Walther, Thomas
Wan, Song
Ward, Herbert B
*Wareham, Elsworth E
Warner, Kenneth G
Warren, William H
Waters, Paul F
Watkins, Levi
Watson, Donald C
*Webb, Watts R
*Wechsler, Andrew S
Weder, Walter
Wei, Jeng
Weigl, Tracey L
Weiman, Darryl S
*Weinberg, Milton Jr
*Weintraub, Ronald M
*Wellons, Harry A, Jr
Wells, Francis C
Wells, Winfield J
Wernly, Jorge A
Westaby, Stephen
*Wheat, Myron W, Jr
*Wheatley, David J
Whitman, Glenn JR
Whyte, Richard I
*Wichern, Walter, Jr
*Wilkins, Earle W
Williams, Mathew R
*Williams, Thomas E, Jr
*Williams, William G
Williams, Willis H
*Wilson, James Miller
*Wilson, Robert F
*Wisoff, George
Wolf, Randall K
*Wolfe, Walter G
*Wolff, William I
*Wolner, Ernst
Woo, Y Joseph
Wood, Douglas E
Wright, Cameron D
*Wright, Creighton B
Wu, Qingyu
*Wukasch, Don C

Y
Yagihara, Toshikatsu
Yang, Stephen C
Yasufuku, Kazuhiro
*Yasui, Hisataka
Yau, Terrence M
Yee, Edward S
*Yeh, Thomas J
Yim, Anthony P
Young, J Nilas
*Young, William P
Yozu, Ryohei
Yuh, David D

Z
*Zajtchuk, Rostik
*Zaroff, Lawrence I
*Zeff, Robert H
Zehr, Kenton J
Zembala, Marian
Zenati, Marco A
Zielinski, Marcin
*Zuhdi, M Nazih
*Zumbro, G Lionel, Jr
Zwischenberger, Joseph B

*Senior Member
# 2010–2011
## Geographical Roster
*Current as of April, 2011*

## North America
### United States

### Alabama

**Birmingham**
- Athanasuleas, Constantine L
- Cerfolio, Robert J
- Holman, William L
- Kahn, Donald R
- Kirklin, James K
- McGiffin, David C

**Indian Springs**
- Pacifico, Albert D

**Mobile**
- LoCicero, Joseph, III

**Montgomery**
- Simmons, Earl M

### Alaska

**Anchorage**
- Misbach, Gregory A

### Arizona

**Carefree**
- Michaelis, Lawrence

**Chandler**
- Shennib, Hani

**Phoenix**
- Arabia, Francisco A
- Pearl, Jeffrey M
- Vaughn, Cecil C

**Scottsdale**
- Fisk, R Leighton
- Mullaney, Charles J
- Pluth, James R
- Shields, Thomas W
- Trastek, Victor F

**Tempe**
- Cornell, William P

**Tucson**
- Little, Alex G
- Sanderson, Richard G
- Sethi, Gulshan K

### Arkansas

**Little Rock**
- Campbell, Gilbert S
- Read, Raymond C

### California

**Alameda**
- Ecker, Roger R

**Bonita**
- Gonzalez-Lavin, Lorenzo

**Capistrano Beach**
- Flynn, Pierce J

**Carmel**
- Iverson, Leigh I

**Coronado**
- Silver, Arthur W

**El Macero**
- Andrews, Neil C
Fresno
Bolton, JW Randolph

Hillsborough
Thomas, Arthur N
Ulliot, Daniel J

Huntington Beach
Blanche, Carlos

Irvine
Kirsh, Marvin M

La Canada
Penido, John RF

La Jolla
Hutchin, Peter
Swain, Julie A
West, John B

Lakeside
Aaron, Benjamin L

Loma Linda
Bailey, Leonard L
Razzouk, Anees J
Wareham, Ellsworth E

Los Angeles
Allen, Bradley S
Ardehali, Abbas
Benfield, John R
Buckberg, Gerald D
Cohen, Robin G
DeMeester, Steven R
DeMeester, Tom R
Fontana, Gregory P
Holmes, E Carmack
Kay, Jerome H
Khoynezhad, Ali
Laks, Hillel
Lee, Myles E
Maloney, James V, Jr
Matloff, Jack M
McFadden, P Michael
McKenna, Robert J, Jr
Shemin, Richard J
Starnes, Vaughn A
Trento, Alfredo
Wells, Winfield J

Martinez
Guernsey, James M

Montebello
Lui, Alfred HF

Murrieta
Wakabayashi, Akio

Oakland
Harken, Alden H

Orange
Connolly, John E
Milliken, Jeffrey C
Ott, Richard A

Pacific Palisades
Mulder, Donald G

Palm Desert
Fosburg, Richard G

Palo Alto
Champsaur, Gerard L

Palos Verdes Estates
Stiles, Quentin R

Pebble Beach
Miller, George E, Jr

Portola Valley
Fogarty, Thomas J

Rancho Palos Verdes
Mandal, Ashis K

Rancho Santa Fe
DeLaria, Giacomo A
Geha, Alexander S

Sacramento
Berkoff, Herbert A
Follette, Walter P
Jamieson, Stuart W
Lamberti, John J
Miller, Fletcher A
Moreno-Cabral, Ricardo J
Thistlethwaite, Patricia A
Trummer, Max J

San Diego
Copeland, Jack G
Dembitsky, Walter P
Jamieson, Stuart W
Lamberti, John J
Miller, Fletcher A
Moreno-Cabral, Ricardo J
Thistlethwaite, Patricia A
Trummer, Max J

San Francisco
Ellis, Robert J
Hill, J Donald
Jablons, David M
Merrick, Scot H
Ratcliffe, Mark B
Yee, Edward S

San Jose
Oakes, David D

San Rafael
Roe, Benson B

Santa Ana
Gazzaniga, Alan B
Santa Barbara
Jahnke, Edward J
Love, Jack W

Santa Cruz
Fishman, Noel H

Santa Monica
Fonkalsrud, Eric W
Morton, Donald L
Robertson, John M

Sausalito
Zaroff, Lawrence I

Stanford
Mainwaring, Richard D
Burdon, Thomas A
Fann, James I
Hanley, Frank L
Mark, James BD
Miller, D Craig
Mitchell, R Scott
Oyer, Philip E
Reddy, V Mohan
Reitz, Bruce A
Robbins, Robert C
Shrager, Joseph B
Whyte, Richard I

Tiburon
Heydorn, William H

Torrance
Carey, Joseph S
Moore, Thomas C
State, David

Valencia
Kernstine, Kemp

Ventura
Brandt, Berkeley, III
Dart, Charles H, Jr

Walnut Creek
May, Ivan A

COLORADO

Aurora
Campbell, David N
Clarke, David R
Cleveland, Joseph C, Jr
Fullerton, David A
Grover, Frederick L
Jaggers, James
Mitchell, John D
Mitchell, Max B
Pomerantz, Marvin

Denver
Eisman, Ben
Paton, Bruce C
Rainer, W Gerald

Greenwood Village
Pappas, George

Parker
Olinger, Gordon N

Snowmass Village
McEnany, M Terry
Mills, Lawrence J

Steamboat Springs
Greenberg, Jack J

CONNECTICUT

Bridgeport
Rose, Daniel M

Essex
Jaretzki, Alfred, III

Greenwich
Waters, Paul F

Hamden
Baue, Arthur E

New Haven
Detterbeck, Frank C
Elefteriades, John A
Kopf, Gary S
Shinoka, Toshiharu

North Haven
Hammond, Graeme L

Old Greenwich
Brodman, Richard F

Waterbury
Sanchez, Juan A

Woodbridge
Stern, Harold

DELAWARE

Dover
Mannion, John D

Greenville
Norwood, William I

Newark
Banbury, Michael K
Gardner, Timothy J
DISTRICT OF COLUMBIA

Washington
Jonas, Richard A
Katz, Nevin M
Keshishian, John M
Marshall, M Blair
Simmons, Robert L

Naples
Gonzalez, Luis L
Linberg, Eugene J
MacGregor, David C

Ocala
Chaux, Aurelio

Orlando
Accola, Kevin D
DeCampli, William M

Palm City
Timmis, Hilary H

Ponte Vedra Beach
Barnhorst, Donald A
Gilbert, Joseph, Jr

Saint Petersburg
Daicoff, George
Jacobs, Jeffrey P

Sanibel
Raffensperger, John

Tallahassee
Kraeft, Nelson H
Lambert, Cary J

Tampa
Angell, William W
Robinson, Lary A

FLORIDA

Atlantic Beach
Stranahan, Allan

Aventura
Bregman, David

Bal Harbour
Grondin, Pierre R

Belleair
Lasley, Charles H

Boca Raton
Kiser, Joseph C
Litwin, S Bert

Coconut Grove
Center, Sol

Delray Beach
Rosensweig, Jacob

Fernandina Beach
Malm, James R

Gainesville
Alexander, James A
Wheat, Myron W, Jr

Jacksonville
Edwards, Fred H
Koster, J Kenneth, Jr
Landolfo, Kevin P

Jupiter
Gerbasi, Francis S

Longboat Key
Lajos, Thomas Z

Miami Beach
Spear, Harold C

Miami
Harrison, Lynn H, Jr
Jude, James R
Kaiser, Gerard A
Kurlansky, Paul A
Nguyen, Dao M
Pham, Si Mai

Reis, Robert L
Ricci, Marco
Salerno, Tomas A
Subramanian, S
Thurer, Richard J

District of Columbia
Washington
Jonas, Richard A
Katz, Nevin M
Keshishian, John M
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Angell, William W
Robinson, Lary A

GEORGIA

Atlanta
Chen, Edward P
Craver, Joseph M
Gott, John P
Guyton, Robert A
Hatcher, Charles R, Jr
Kanter, Kirk R
Kirshbom, Paul M
Lee, Arthur B, Jr
Mansour, Kamal A
Miller, Daniel L
Miller, Joseph I, Jr
Puskas, John D
Symbras, Panagiotis
Thourani, Vinod H
American Association for Thoracic Surgery

Vega, J David
Vinten-Johansen, Jakob
Williams, Willis H

Chickamauga
Hall, David P

Dunwoody
Rivkin, Laurence M

Evans
Zumbro, G Lionel, Jr

Kennesaw
Northrup, William F, III

Macon
Dalton, Martin L, Jr
Van De Water, Joseph M

Savannah
Yeh, Thomas J

HAWAII

Honolulu
Ching, Nathaniel P
Gebauer, Paul W
McNamara, J Judson

Kailua
Young, William P

Kihei
Smeloff, Edward A

Wailuku
Cochran, Richard P

IDAHO

Boise
Herr, Rodney H

ILLINOIS

Burr Ridge
Blakeman, Bradford P

Chicago
Akhter, Shahab
Amato, Joseph J
Backer, Carl L
Barker, Walter L
Breuer, Robert H
Campbell, Charles D
DeCamp, Malcolm M
Faber, LeRoy Pe

Ferguson, Mark K
Goldin, Marshall D
Hanlon, C Rollins
Jeevanandam, Valluvan
Kittle, C Frederick
Liptay, Michael
Massad, Malek G
McCarthy, Patrick M
Najafi, Hassan
Raman, Jaishankar
Replogle, Robert L
Snow, Norman J
Tatooles, Constantine J
Vanecko, Robert M
Warren, William H
Zajtchuk, Rostik
Elk Grove Village
Sullivan, Henry J

Evanston
Head, Louis R

Glenview
Montoya, Alvaro

Lake Forest
Weinberg, Milton, Jr

Maywood
Love, Robert B
Pifarre, Roque

Oak Lawn
Ilbawi, Michel N

Oak Park
Hartz, Renee S

River Forest
Mason, G Robert

Springfield
Hazelrigg, Stephen R

Western Springs
Thomas, Paul A, Jr

Willowbrook
Leininger, Bernard J

Winnetka
Fry, Willard A

INDIANA

Fort Wayne
Ladowski, Joseph S

Indianapolis
Brown, John W
Kesler, Kenneth A
King, Harold
### LOUISIANA

**Alexandria**
- Webb, Watts R

**Baton Rouge**
- Berry, B Eugene

**Nathitoches**
- Bloodwell, Robert D

**New Orleans**
- Blalock, John B
- DeCamp, Paul T
- DeLeon, Serafin Y
- Hewitt, Robert L
- Lindsey, Edward S
- Ochsner, John L

**Shreveport**
- Mancini, Mary C

### MAINES

**Cape Elizabeth**
- Bredenberg, Carl E

**Portland**
- Morton, Jeremy R

**Rome**
- Tarnay, Thomas J

**Sedgwick**
- Siewers, Ralph D

### MARYLAND

**Baltimore**
- Attar, Safuh
- Baker, R Robinson
- Battafarano, Richard J
- Baumgartner, William A
- Brock, Malcolm V
- Brown, James M
- Cameron, Duke E
- Cardarelli, Marcelo G
- Conte, John V
- Gammie, James S
- Greene, Peter S

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**King, Robert D**
**Mahomed, Yousuf**
**Mandelbaum, Isidore**
**Meldrum, Daniel R**
**Rodefeld, Mark D**
**Siderys, Harry**
**Turrentine, Mark W**

**Louisville**
- Austin, Erle H, III
- Dowling, Robert D
- Gray, Laman A, Jr
- Mahaffey, Daniel E
- Slaughter, Mark

**Valparaiso**
- O’Neill, Martin J, Jr

**IOWA**

**Cedar Rapids**
- Levett, James M

**Council Bluffs**
- Sellers, Robert D

**Des Moines**
- Zeff, Robert H

**iamowa City**
- Behrendt, Douglas M
- Iannettoni, Mark D
- Richenbacher, Wayne E
- Rossi, Nicholas P
- Stanford, William

**Urbandale**
- Phillips, Steven J

**KANSAS**

**Kansas City**
- Reed, William A

**Mission Hills**
- Ashcraft, Keith W

**Overland Park**
- Killen, Duncan A

**Prairie Village**
- Holder, Thomas M
- Piehler, Jeffrey M

**Shawnee Mission**
- Padula, Richard T

**KENTUCKY**

**LaGrange**
- Cox, James L

**Lexington**
- Ferraris, Victor A
- Todd, Edward P
- Zwischenberger, Joseph B

**Louisville**
- Austin, Erle H, III
- Dowling, Robert D
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- Cox, James L

**Lexington**
- Ferraris, Victor A
- Todd, Edward P
- Zwischenberger, Joseph B

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Griffith, Bartley P
Haller, J Alex, Jr
McLaughlin, Joseph S
Pierson, Richard N, III
Shah, Ashish S
Vricella, Luca A
Watkins, Levi, Jr
Yang, Stephen C
Yuh, David D

Bethesda
Horvath, Keith A
Schrump, David S

Glen Arm
Turney, Stephen Z

Lutherville Timonium
Hankins, John R

Lutherville
Salomon, Neal W

Reisterstown
Heitmiller, Richard F

Towson
Krasna, Mark J

Worten
Walkup, Harry E

MASSACHUSETTS

Amherst
Levine, Frederick H

Beverly
Maloney, William T

Boston
Agnihotri, Arvind K
Akins, Cary W
Allan, James S
Aranki, Sary F
Austen, W Gerald
Bolman, R Morton, III
Bueno, Raphael
Burke, John F
Chen, Frederick Y
Cohn, Lawrence H
Colson, Yolonda L
Couper, Gregory S
Daggett, Willard M
Daly, Benedict DT
Del Nido, Pedro J
Ellis, F Henry, Jr
Fernando, Hiran C
Gaisser, Henning A
Jaklitsch, Michael T
Lazar, Harold L
Levitsky, Sidney
MacGillivray, Thomas E
Madsen, Joren C
Mathisen, Douglas J
Mayer, John E
Mentzer, Steven J
Pigula, Frank A
Rosengard, Bruce R
Sugarbaker, David J
Sundt, Thoralf M
Swanson, Scott J
Thurer, Robert L
Torchiara, David F
Urschel, John D
Vlahakes, Gus J
Wain, John C, Jr
Warner, Kenneth G
Wright, Cameron D
Zenati, Marco A

Brookline
Berger, Robert L
Neirotti, Rodolfo

Cambridge
Malcolm, John A
Weintraub, Ronald M

Centerville
Lefemine, Armand A

Chestnut Hill
Bougas, James A

Concord
Norman, John C

Falmouth
McElvein, Richard B

Framingham
Bernhard, William F

Melrose
Desforges, Gerard

North Andover
Cook, William A

Plymouth
Moran, John M

Salem
Vander Salm, Thomas J

Springfield
Engelman, Richard M
Rousou, John A

Sudbury
Shahian, David M

Wayland
Moncure, Ashby C
MINNESOTA

Coon Rapids
Joyce, Lyle D

Hopkins
Garamella, Joseph J

Minneapolis
Foker, John E
Gannon, Paul G
Hopeman, Alan R
Kelly, Rosemary
Liao, Kenneth K
Maddaus, Michael A
Moazami, Nader
Shumway, Sara J
Sun, Benjamin
Ward, Herbert B

Mounds View
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Forbess, Joseph
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Pierucci, Louis, Jr

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Trachiotis, Gregory D
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Crosby, Ivan K
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- **Smita Sihag, MD**, Massachusetts General Hospital
  “Gene Expression Signatures and Mechanistic Pathways of Tolerance and Rejection in Orthotopic Swine Lung Allografts”

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- **Jules Lin, MD**, University of Michigan
  “The Role of Dkk-3 Overexpression in the Invasion and Metastasis of Esophageal Adenocarcinoma as a Downstream Mediator of the TGF-beta Pathway”

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- **Michael Argenziano, MD**, Columbia University College of Physicians and Surgeons
  “Coronary Anastomosis Simulation: A New Paradigm in Surgical Education?”
- **Thomas Bilfinger, MD**, Stony Brook University School of Medicine
  “Cardiothoracic Surgical Simulation: Identifying Achievable Benchmark Comparisons (ABCs) for Surgical Education Programs”
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Sunday, May 8  5:00 p.m. – 7:00 p.m.  (Welcome Reception)
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                                           3:20 p.m. – 3:55 p.m.,
                                           Lunch – 12:15 p.m. – 2:00 p.m.)
Tuesday, May 10  9:00 a.m. – 4:00 p.m. (Breaks – 10:05 a.m. – 10:40 p.m.,
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astinoscopes with DCI-D1 Camera allow video recording while working under direct
vision. The Karl Storz Endocameleon combines the comfort of conventional 0*
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PO Box 16369, Jacksonville, FL 32245
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products for oral, plastic and craniomaxillofacial surgery. New product develop-
ments in our titanium osteosynthesis plating systems allow these products to be
used for rapid sternal fixation and reconstruction.
www.klsmartin.com

LifeLike BioTissue, Inc. ................................................................. 103
25 Chicora Ave, Toronto, ON, Canada
LifeLike BioTissue Inc. uses proprietary technology to manufacture artificial soft tis-
sues (e.g., saphenous veins, thoracic aortas, arteries, micro vessels, bowels etc.) that
have the same mechanical properties as real tissues, for a highly realistic surgical
skills training or procedure demonstration experience. LifeLike BioTissue offers “The
Closest Thing to Real Tissue” at an affordable price.
www.lifelikebiotissue.com

LifeNet Health .............................................................. 204
1864 Concert Dr., Virginia Beach, VA 23453
LifeNet Health Bio-Implants Division is a leader in the engineering and processing of
dental, cardiovascular, spinal and orthopedic bio-implants and distributes more than
300,000 bio-implants every year to restore health to patients around the world.
www.lifenethealth.org
Lippincott Williams & Wilkins ................................................................. 306
1578 Fordham St., Bolingbrook, IL 60490
Lippincott; Williams & Wilkins publishes extensively in the area of thoracic and cardiothoracic surgery. Please visit our display to see new and current textbooks in this specialty area.
www.lww.com

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40 Parker, Irvine, CA 92618
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www.masimo.com
Medela, Inc. .......................................................................................................... 221
1101 Corporate Drive, McHenry, IL 60050
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Medical Concepts Europe .................................................................................... 102
1083 Delaware Ave., Buffalo, NY 14209
MCE provide complete solutions for temporary pacing of cardiac surgery patients. Advanced designs in bipolar temporary pacing leads for adults and pediatrics and FastLock single use interconnect cable to increase reliability and efficacy of pacing.

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MediStim now expands your intraoperative CABG guidance with epiaortic and epicardial ultrasound scanning technologies. Coupled with our class-leading transit time flowmetry platform, MediStim presents the capability to clearly identify aortic plaque with user-friendly, high resolution ultrasonography through a probe specifically designed for cardiac surgical procedures.

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710 Medtronic Parkway, Minneapolis, MN 55432
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3701 Sea Ray Channel, Edmond, OK 73013
Med-USA’s STRATOSTM and STRACOSTM Thoracic Osteosyntheses Systems are an innovative, universal and easy-2-use solution for internal chest wall stabilization in deformities, costal fractures, Flail Chest, defect bridging after tumor removal, and secondary sternal closure. No Screws, No Wires, No Pull-outs! Provides reduced patient length-of-stay, and pain.

www.med-usainc.com
A traveling exhibition: “Innovation & Invention: NIH and Prosthetic Heart Valves,” produced by the NIH’s and the FDA’s Offices of History, and underwritten by AATS, opens here at the annual meeting to engage its most discerning audience. Please visit the object-rich museum installation at the NIH’s Clinical Center in Bethesda.

www.nih.gov

Neomend, Inc. ................................................................. 735
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Nonin Medical, Inc. .......................................................... 728
13700 1st Avenue North, Plymouth, MN 55441
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www.nonin.com

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3500 Corporate Parkway, POB 610, Center Valley, PA 18034-0610
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www.onxvalves.com
Orthovita, Inc. ......................................................................................................................... 107
77 Great Valley Parkway, Malvern, PA 19312
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Oscor Medical Corp. .............................................................................................................. 733
3816 De Soto Blvd., Palm Harbor, FL 34683-1618
www.oscor.com

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5663 Brecksville Road, Cleveland, OH 44131-1593
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633 N. St. Clair, Suite 2320, Chicago, IL 60611
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900 Cummings Center, Suite 221-U, Beverly, MA 01915
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www.shvd.org/
Thoracic Surgery Foundation for Research and Education (TSFRE) .......................... A5
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lished in 1992 to increase knowledge and enhance treatment of patients with
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the specialty. Physicians, corporate partners and patients are urged to contribute to
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Industry Supported Symposia*

Saturday, May 7, 2011

Reconstructive Heart Valve Surgery Forum  
7:00 a.m. – 11:30 a.m.  
Commonwealth A1 A2  
Loews Philadelphia Hotel  
Supported by Edwards Lifesciences

The Rationale for Blood Conservation: Decreasing Morbidity, Mortality, and Cost  
6:00 p.m. – 8:00 p.m.  
Liberty A  
Philadelphia Downtown Marriott  
Supported by CMEology

Sunday, May 8, 2011

Starting Up a TAVR Program and Heart Valve Team in Your Center: The Nuts and Bolts of What You Probably Do Not Want to Learn (Eastern United States)  
6:45 a.m. – 7:15 a.m.  
Washington AB  
Loews Philadelphia Hotel  
Supported by Edwards Lifesciences

A Review of Anatomy, Techniques & Tools in VATS Lobectomy  
7:00 p.m. – 9:00 p.m.  
Salon F  
Philadelphia Downtown Marriott  
Supported by Covidien

Great Debates: 5 Controversies in Thoracic Aortic Surgery  
7:00 p.m. – 9:00 p.m.  
Salon E  
Philadelphia Downtown Marriott  
Supported by Terumo and Vascutek

*Industry supported satellite programs are not part of the AATS Scientific Program.
Monday, May 9, 2011

Building a Valve Clinic
6:15 a.m. – 7:30 a.m.
Washington AB
Loews Philadelphia Hotel
Supported by Edwards Lifesciences

New Anti-Coagulation for Mechanical Heart Valves
12:15 p.m. – 1:20 p.m.
Exhibit Hall A
Pennsylvania Convention Center
Supported by On-X Life Technologies, Inc.

Redefining Healthcare
6:00 p.m. – 10:00 p.m.
Salon CDE
Philadelphia Downtown Marriott
Supported by Edwards Lifesciences

Tuesday, May 10, 2011

Starting Up a TAVR Program and Heart Valve Team in Your Center: The Nuts and Bolts of What You Probably Do Not Want to Learn (Western United States)
5:30 a.m. – 7:00 a.m.
Washington AB
Loews Philadelphia Hotel
Supported by Edwards Lifesciences

A New Paradigm for Quality Assessment in On- and Off Pump Cardiac Surgery
12:30 p.m. – 1:35 p.m.
Exhibit Hall A
Pennsylvania Convention Center
Supported by Medi-Stim

*Industry supported satellite programs are not part of the AATS Scientific Program.
AATS CME Meetings and Educational Activities

2011 Meetings and Programs

AATS/ASCVTS Postgraduate Course*
May 26, 2011
Hilton Phuket Arcadia Resort & Spa
Phuket, Thailand

International Society for Rotary Blood Pumps Annual Meeting
September 8–10, 2011
Marriott Downtown
Louisville, KY, USA

Cardiovascular-Thoracic (CVT) Critical Care 2011***
September 22–24, 2011
Omni Shoreham Hotel
Washington, DC, USA

Masters of Minimally Invasive Thoracic Surgery*
September 22–24, 2011
Waldorf Astoria Orlando
Orlando, FL, USA

3rd International Biennial Minimally Invasive Thoracic Surgery Summit
October 7–8, 2011
Joseph B. Martin Conference Center, Harvard Medical School
Boston, MA, USA

2011 Heart Valve Summit: Medical, Surgical and Interventional Decision Making
October 13–15, 2011
JW Marriott Chicago
Chicago, IL, USA

7th Triennial Brigham Cardiac Valve Symposium*
October 20–21, 2011
Fairmont Copley Plaza Hotel
Boston, MA, USA

*=Co-Sponsored by AATS  **=Content provided by AATS  ***=Jointly sponsored by AATS
Surgical Innovation Summit: Cutting-Edge Therapies for Cardiovascular and Valve Disease*
November 7–9, 2011
Moscone Convention Center
San Francisco, CA, USA

2012 Meetings and Programs

Aortic Symposium 2012
April 26–27, 2012
Sheraton New York Hotel & Towers
New York, NY, USA

AATS 92nd Annual Meeting
April 28–May 2, 2012
Moscone West Convention Center
San Francisco, CA, USA

Future AATS Annual Meetings

AATS 93rd Annual Meeting
May 4–8, 2013
Minneapolis Convention Center
Minneapolis, MN, USA

AATS 94th Annual Meeting
April 26–30, 2014
Metro Toronto Convention Centre
Toronto, ON, Canada

AATS 95th Annual Meeting
April 25–29, 2015
Washington State Convention and Trade Center
Seattle, WA, USA

AATS 96th Annual Meeting
May 14–18, 2016
Baltimore Convention Center
Baltimore, MD, USA

*= Co-Sponsored by AATS  **= Content provided by AATS  ***= Jointly sponsored by AATS
American Association for Thoracic Surgery

2011 Heart Valve Summit
Medical, Surgical and Interventional Decision Making

October 13 – 15, 2011
JW Marriott Chicago

Program Directors
David H. Adams, M.D., F.A.C.C.
Steven F. Bolling, M.D., F.A.C.C.
Robert O. Bonow, M.D., M.A.C.C.
Howard C. Herrmann, M.D., F.A.C.C., F.S.C.A.I.

Honored Lecturers
Martin B. Leon, M.D., F.A.C.C.
Michael J. Mack, M.D., F.A.C.C.

Space is Limited! Register today at www.aats.org/valve.

Accreditation
Physicians
The American Association for Thoracic Surgery is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

This live activity is approved for AMA PRA Category 1 Credits™

Nurses
The American College of Cardiology Foundation is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center’s commission on Accreditation.
APRIL 26–27, 2012
Sheraton Hotel & Towers
New York City

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Prepare to go further with Edwards Lifesciences.

Together, we’ve reached new heights in patient care, and it’s only the beginning. Visit us at booth 400 to explore:

– Minimal incision valve surgery
– Leading valve replacement technologies
– Advancing repair solutions
– Groundbreaking new technology