



The Society of Thoracic Surgeons
46TH Annual Meeting

January 25–27, 2010 | Fort Lauderdale, Florida
January 24–26, 2010 | Exhibit Dates



STS 46th ANNUAL MEETING HIGHLIGHTS

- Practice Management Summit will provide tools and guidelines to benefit daily practice
- Thomas B. Ferguson Lecture, “Transforming the U.S. Health Care Delivery System: Moving From Volume to Value,” by Jeffrey B. Rich, MD, former director of the Center for Medicare Management
- Presidential Address by Gordon F. Murray, MD
- Parallel Surgical Forum IV: Critical Care for the Cardiothoracic Surgeon
- Health Policy Forum: Health Care Reform — How Does Recently Passed Legislation Impact Cardiothoracic Surgeons
- STS University courses offered twice on Wednesday



As President of The Society of Thoracic Surgeons, I invite you to join your colleagues in Fort Lauderdale, FL, for the STS 46th Annual Meeting, January 25-27, 2010. Fort Lauderdale is a popular city, especially in the winter, and this Annual Meeting promises to be outstanding—one you won't want to miss.

The 2010 STS Annual Meeting will again be the premier educational event in cardiothoracic surgery. It's where you'll learn about new developments that can guide your decisions regarding disease management. You'll also find insights and ideas on how to improve your practice management skills. The Annual Meeting is where you'll have the opportunity to explore the latest thinking on new trends and gain perspective on how others are coping in these challenging times. You'll network with colleagues and friends, learn from experts, and take away practical applications that will help you serve your patients better.

For STS members, the Annual Meeting is still one of the best values around. It also represents an important investment in your career, your practice and your patients.

Please take a moment to review this Advance Program Book and plan which of the many offerings you will attend. Whatever your interests, you'll have much to choose from.

I look forward to seeing you in Fort Lauderdale in January!

Sincerely,

Gordon F. Murray, MD

President, The Society of Thoracic Surgeons



Gordon F. Murray, MD

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Future Meetings

STS 47th Annual Meeting

January 31 – February 2, 2011
San Diego, CA

STS 48th Annual Meeting

January 30 – February 1, 2012
Fort Lauderdale, FL

STS 49th Annual Meeting

January 28 – 30, 2013
Los Angeles, CA

STS 50th Annual Meeting

January 27-29, 2014
Orlando, FL

EDUCATIONAL DISCLOSURE POLICY

As a sponsor of continuing medical education accredited by the Accreditation Council for Continuing Medical Education (ACCME), The Society of Thoracic Surgeons requires that any individual who is in a position to control the content of an educational activity must disclose all relevant financial relationships (including known relationships of his or her immediate family, department, and partners) with any healthcare-related business or other entity whose products or services may be discussed in, or directly affected in the marketplace by, the educational content. The ACCME defines a “relevant financial relationship” as a relationship of any amount occurring within the previous twelve months. The question of whether a disclosed conflict situation could represent undue influence on the educational activity by a commercial interest or whether the disclosed information is sufficient to consider an abstract, presentation, or other educational enduring material to represent potentially biased information must be resolved prior to an individual's involvement in STS educational programming.

Required disclosures include (1) a financial interest of any amount (e.g., through ownership of stock, stock options, or bonds) (2) the receipt of any amount of cash, goods or services within the current 12-month period (e.g., through research grants, employment, consulting fees, royalties, travel, or gifts) or (3) a nonremunerative position of influence (e.g., as officer, director, trustee or public spokesperson). NOTE: To avoid confusion with regard to the question of “relevance,” STS requires that anyone in a position to control content (planners, speakers, authors, volunteer leaders, staff) must review the content they are addressing and disclose relationships with companies that have a material interest in the content being covered regardless of the division of the company for which that relationship exists. For instance, if a speaker will be referencing a product made by the X division of ABC company, but his relationship is with the Y division, he must still disclose the relationship. EXCLUDED from this disclosure requirement are blind trusts or other passive investments such as mutual funds. In the case of a financial or other relationship disclosure, the company, product/service, and specific nature of the relationship must be noted. Disclosure is mandatory for any person involved in the planning, management, presentation, and/or evaluation of STS educational activities.

Failure to disclose relevant financial relationships disqualifies the individual from being a planning committee member, a teacher, or an author of CME materials, and this individual cannot have any responsibility for the development, management, presentation, or evaluation of STS CME activities. This requirement is intended neither to imply any impropriety of such relationships nor to prejudice any individual planner, presenter or author. It is merely to identify such relationships through full disclosure, and to allow the STS to assess and resolve potential influences on the educational activity prior to the planning and implementation of an educational activity. If no relevant financial relationships exist, the individual must indicate this on the disclosure form.

Additionally, the fact that the presentation, paper, or other educational product describes (a) the use of a device, product, or drug that is not FDA approved or (b) an off-label use of an approved device, product, or drug must also be disclosed. This requirement has been adopted in response to FDA policy and recent case law involving medical societies, and is not intended to prohibit or inhibit independent presentation or discussion regarding the uses of devices, products, and drugs as described in (a) or (b) above.

For live presentations, all disclosures must be stated orally or on a slide at the beginning of the presentation and will be noted in published material related to the activity. Slides, handouts, and other materials utilized as part of an educational activity cannot contain any advertising, trade names or a product group message. Speakers are required to disclose that they have nothing to disclose if this is the case.

Amended by the STS Board of Directors: January 25, 2009

STS ANNUAL MEETING

The Society of Thoracic Surgeons is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. STS designates this educational activity for a maximum of 25.50 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Friday January 22, 2010

2:00 PM – 6:00 PM

Registration:
STS/AATS Tech-Con 2010
and STS 46th Annual Meeting

Saturday January 23, 2010

10:00 AM – 6:00 PM

Registration:
STS/AATS Tech-Con 2010
and STS Annual Meeting

12:00 PM – 7:00 PM

STS/AATS Tech-Con 2010 Exhibits

1:00 PM – 5:00 PM

STS/AATS Tech-Con 2010

5:00 PM – 7:00 PM

STS/AATS Tech-Con 2010
Reception

Sunday January 24, 2010

7:00 AM – 6:30 PM

Registration:
STS/AATS Tech-Con 2010
and STS 46th Annual Meeting

7:00 AM – 8:00 AM

STS/AATS Tech-Con 2010
Continental Breakfast

7:00 AM – 3:00 PM

STS/AATS Tech-Con 2010 Exhibits

7:50 AM – 12:00 PM

STS Practice Management Summit

8:00 AM – 11:35 AM

STS/AATS Tech-Con 2010

11:45 AM – 1:00 PM

Networking Luncheon

12:00 PM – 6:30 PM

Scientific Posters Open

1:00 PM – 4:30 PM

STS Residents Symposium

1:15 PM – 4:30 PM

Parallel Surgical Symposia:
Congenital and General Thoracic

1:15 PM – 4:30 PM

STS/AATS Tech-Con 2010

2:30 PM – 4:30 PM

STS Workforce on International
Relationships Symposium

4:00 PM – 6:30 PM

STS Exhibits Open

4:30 PM – 6:30 PM

Opening Reception in
STS Exhibit Hall

Monday January 25, 2010

6:30 AM – 5:00 PM

Registration:
STS 46th Annual Meeting

7:00 AM – 5:30 PM

Scientific Posters Open

7:30 AM – 12:20 PM

General Scientific Session I

7:30 AM – 7:50 AM

Opening Remarks

7:50 AM – 8:00 AM

Introduction of New Members

8:00 AM – 9:00 AM

J. Maxwell Chamberlain Memorial
Paper Presentations

9:00 AM – 9:20 AM

Richard E. Clark Award Presentation

9:00 AM – 4:30 PM

STS Exhibits Open

9:20 AM – 10:20 AM

C. Walton Lillehei Lecture

10:20 AM – 10:35 AM

Award Presentations:

*Earl Bakken Scientific
Achievement Award*
TSDA Benson R. Wilcox Award
TSRA Socrates Award
Geriatric Patient Care Award

10:35 AM – 11:20 AM

Break – Visit Exhibits
and Scientific Posters

11:20 AM – 12:20 PM

Gordon F. Murray
Presidential Address

12:20 PM – 1:30 PM

Break – Visit Exhibits
and Scientific Posters

12:45 PM – 1:15 PM

CABG vs. PCI: An NIH
STS—ACC National Study

1:30 PM – 3:30 PM

Parallel Surgical Forum I:

Adult Cardiac

Parallel Surgical Forum II:

General Thoracic

Parallel Surgical Forum III:

Congenital

Parallel Surgical Forum IV:

Critical Care for the

Cardiothoracic Surgeon

Parallel Surgical Forum V:

Patient Safety Symposium

3:30 PM – 4:15 PM

Break – Visit Exhibits
and Scientific Posters

4:15 PM – 5:15 PM

Surgical Motion Picture Matinee:
Adult Cardiac, Congenital,
and General Thoracic

5:30 PM – 6:30 PM

Business Meeting
(STS Members Only)

Tuesday January 26, 2010

6:30 AM – 4:30 PM

Registration:
STS 46th Annual Meeting

7:00 AM – 8:00 AM

Ticketed Breakfast Sessions

7:00 AM – 8:00 AM

Health Policy Forum:
Health Care Reform – How Does
Recently Passed Legislation Impact
Cardiothoracic Surgeons?

7:00 AM – 5:45 PM

Scientific Posters Open

8:15 AM – 12:30 PM

General Scientific Session II

9:00 AM – 4:30 PM

STS Exhibits Open

9:45 AM – 10:30 AM

Break – Visit Exhibits
and Scientific Posters

11:45 AM – 12:30 PM

Thomas B. Ferguson Lecture:
Transforming the U.S. Healthcare
Delivery System: Moving From
Volume to Value

12:40 PM – 1:40 PM

Break – Visit Exhibits
and Scientific Posters

12:40 PM – 1:40 PM

Ethics Debate: The Financial Link
Between Industry and Physician
Consultants Should be Severed—
Pro/Con

12:40 PM – 1:40 PM

STS Residents Luncheon

1:45 PM – 5:45 PM

Parallel Surgical Forum I:

General Thoracic I

Parallel Surgical Forum II:

General Thoracic II

Parallel Surgical Forum III:

Adult Cardiac I

Parallel Surgical Forum IV:

Adult Cardiac II

Parallel Surgical Forum V:

Congenital

2:45 PM – 4:15 PM

Break – Visit Exhibits
and Scientific Posters

7:00 PM – 10:00 PM

Social Event: Fort Lauderdale
Antique Car Museum

Wednesday January 27, 2010

6:30 AM – 10:30 AM

Registration:
STS 46th Annual Meeting

7:00 AM – 9:30 AM

STS University Courses

10:00 AM – 12:30 PM

STS University Courses Repeated

**Registration:
STS/AATS Tech-Con 2010
and STS 46th Annual Meeting**

**2:00 PM – 6:00 PM
FRIDAY, JANUARY 22**

**10:00 AM – 6:00 PM
SATURDAY, JANUARY 23**

**7:00 AM – 6:30 PM
SUNDAY, JANUARY 24**

Robust technical reviews of leading-edge techniques delivered by a cast of internationally-recognized surgeons and cardiologists will provide a superior educational experience during STS/AATS Tech-Con 2010. This year's program will focus on concepts that are currently in development, with panel discussions and debates incorporated throughout the sessions to further refine controversial areas and engage participants. The program will open on Saturday with a joint session addressing continuous improvement as a surgeon. Cardiac and thoracic parallel sessions will immediately follow and cover recent advances in less invasive aortic valve replacement, the artificial lung, and robotic mitral valve repair. These sessions will also include presentations on novel therapies for hybrid coronary revascularization, less invasive valve procedures, new techniques and technology, the latest cell therapy for the heart, and much more. In addition to cardiac sessions on Sunday afternoon, general thoracic and congenital participants will seamlessly join the STS General Thoracic Symposium or Congenital Symposium —with no additional registration fee!

SATURDAY, JANUARY 23

**12:00 PM – 7:00 PM
STS/AATS Tech-Con 2010 Exhibits**

**1:00 PM – 2:45 PM
Joint Session: Training the Cardiothoracic Surgeon of the Future**

Moderators: *Irving L. Kron, Charlottesville, VA and Carolyn E. Reed, Charleston, SC*

- 1:00 PM Introductory Remarks
Irving L. Kron, Charlottesville, VA and Carolyn E. Reed, Charleston, SC
- 1:05 PM Advancing Cardiothoracic Education
Edward D. Verrier, Seattle, WA
- 1:30 PM The New Training Paradigms
Michael P. Fischbein, Stanford, CA
- 1:55 PM The Use of Simulators to Train Cardiothoracic Surgeons
Richard H. Feins, Chapel Hill, NC
- 2:20 PM Panel Discussion
Irving L. Kron, Carolyn E. Reed, Edward D. Verrier, Michael P. Fischbein, and Richard H. Feins

**2:45 PM – 3:15 PM
Break – Visit STS/AATS Tech-Con 2010 Exhibits**

**3:15 PM – 5:00 PM
Cardiac Track I: Valvular Heart Disease**

Moderators: *Peter C. Block, Atlanta, GA and Thomas Walther, Leipzig, Germany*

- 3:15 PM Introductory Remarks
Peter C. Block, Atlanta, GA and Thomas Walther, Leipzig, Germany
- 3:20 PM Less Invasive Aortic Valve Replacement: Simple and Safe
Aubrey C. Galloway, New York, NY
- 3:40 PM Transcatheter Aortic Valve Replacement: Not Just for Cardiologists
Thomas Walther, Leipzig, Germany
- 4:00 PM Apico-Aortic Conduit: Revival of a Worthwhile Approach
James S. Gammie, Baltimore, MD
- 4:15 PM Less Invasive Mitral Valve Repair: Non-Robotic Techniques
Michael R. Petracek, Nashville, TN
- 4:30 PM Robotic Mitral Valve Repair
L. Wiley Nifong, Greenville, NC
- 4:45 PM Transcatheter Mitral Valve Procedures
Peter C. Block, Atlanta, GA
- 5:00 PM Adjourn

**3:15 PM – 5:00 PM
General Thoracic Track I: New Techniques and Technology**

Moderator: *Michael Lanuti, Boston, MA*

- 3:15 PM Introductory Remarks
Michael Lanuti, Boston, MA
- 3:20 PM Isolated Lung Perfusion and Suffusion
Mark F. Berry, Durham, NC
- 3:40 PM Advances With the Artificial Lung
Joseph B. Zwischenberger, Lexington, KY
- 4:00 PM Progress in Tracheal Surgery
Paolo Macchiarini, Barcelona, Spain
- 4:20 PM Endoscopic Management of Gastroesophageal Reflux Disease (GERD)
Thomas W. Rice, Cleveland, OH
- 4:40 PM Endobronchial Ultrasound (EBUS)/Navigational Bronchoscopy
Michael Lanuti, Boston, MA
- 5:00 PM Adjourn

STS/AATS Tech-Con 2010

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SUNDAY, JANUARY 24**7:00 AM – 8:00 AM****STS/AATS Tech-Con 2010
Continental Breakfast****7:00 AM – 3:00 PM****STS/AATS Tech-Con 2010 Exhibits****8:00 AM – 9:35 AM****Cardiac Track II: Revascularization**Moderators: *Mathew R. Williams, New York, NY*
and *Thomas A. Vassiliades, Atlanta, GA*

8:00 AM Introductory Remarks

Mathew R. Williams, New York, NY
and *Thomas A. Vassiliades, Atlanta, GA*8:05 AM Less Invasive Left Internal Mammary
Artery (LIMA) to Left Anterior
Descending Coronary Artery (LAD):
Many Ways To Do It*Thomas A. Vassiliades, Atlanta, GA*8:25 AM Hybrid Coronary Revascularization:
How and Why*David A. Zimrin, Baltimore, MD*8:45 AM Building a Hybrid
Revascularization Program*Mathew R. Williams, New York, NY*9:05 AM Hybrid Case Presentations and
Discussion*Johannes Bonatti, Baltimore, MD*

9:20 AM Panel Discussion

Thomas A. Vassiliades, David A. Zimrin,
Mathew R. Williams, and Johannes
*Bonatti***8:00 AM – 9:35 AM****General Thoracic Track II: How I Do It**Moderator: *Ross M. Bremner, Phoenix, AZ*

8:00 AM Introductory Remarks

*Ross M. Bremner, Phoenix, AZ*8:05 AM VATS Lobectomy With Chest Wall
Resection*Todd L. Demmy, Buffalo, NY*

8:15 AM Botox Therapy for Hyperhidrosis

Daniel L. Miller, Atlanta, GA

8:25 AM Thoracoscopic Thymectomy

*Mark W. Onaitis, Durham, NC*8:35 AM Video-Assisted
Mediastinoscopic
Lymphadenectomy (VAMLA)/
Transcervical Extended
Mediastinal Lymphadenectomy
(TEMLA)*Marcin Zielinski, Zakopane, Poland*8:45 AM Single-Incision Laparoscopic
Esophageal Surgery*Ross M. Bremner, Phoenix, AZ*8:55 AM Debate: Pro — There is a Role for
Natural Orifice Transluminal
Endoscopic Surgery (NOTES) in
Thoracic Surgery*Michael A. Maddaus, Minneapolis, MN*9:05 AM Debate: Con— There is a Role
for Natural Orifice Transluminal
Endoscopic Surgery (NOTES) in
Thoracic Surgery*Claude Deschamps, Rochester, MN*

9:15 AM Panel Discussion

Daniel L. Miller, Mark W. Onaitis,
Marcin Zielinski, Ross M. Bremner,
Michael A. Maddaus, Claude Deschamps
and *Todd L. Demmy***9:35 AM – 10:20 AM****Break – Visit STS/AATS Tech-Con
2010 Exhibits****10:20 AM – 11:35 AM****Cardiac Track II: Disruptive Technology
on the Horizon**Moderators: *Robert P. Gallegos, Boston, MA*
and *A. Marc Gillinov, Cleveland, OH*

10:20 AM Introductory Remarks

Robert P. Gallegos, Boston, MA and
*A. Marc Gillinov, Cleveland, OH*10:25 AM The Latest on Myocardial Cell
Therapy*Robert P. Gallegos, Boston, MA*10:40 AM Multi Detector Computed
Tomography (MDCT) for
Computer – Aided Detection*(CAD): Will it Replace the**Diagnostic Cath?**Jonathan M. Levin, Milwaukee, WI*

10:55 AM Pericardioscopic Batrial Ablation

*Andy C. Kiser, Pinehurst, NC*11:10 AM Atrial Appendage Occlusion
Technology*A. Marc Gillinov, Cleveland, OH*

11:25 AM Panel Discussion

Robert P. Gallegos, Jonathan M. Levin,
*Andy C. Kiser, and A. Marc Gillinov***10:20 AM – 11:35 AM****General Thoracic Track II: Continued**Moderator: *Thomas A. D'Amico, Durham, NC*

10:20 AM Introductory Remarks

*Thomas A. D'Amico, Durham, NC*10:25 AM Advances in Minimally Invasive
Esophagectomy (MIE)*Arjun Pennathur, Pittsburgh, PA*10:45 AM Advances in Thoracoscopic
Lobectomy*Scott J. Swanson, Boston, MA*

11:05 AM Advances in Robotics

*Kemp H. Kernstine, Duarte, CA*11:25 AM Panel Discussion: Technical
and Scientific Advances in
Thoracic Surgery*Thomas A. D'Amico, Arjun Pennathur,*
*Scott J. Swanson, and Kemp H. Kernstine***11:45 AM – 1:00 PM****Networking Lunch****1:15 PM – 4:30 PM****STS Parallel Surgical Symposia:
Congenital and General Thoracic****1:15 PM – 2:30 PM****Cardiac Track III: Aortic Therapies**Moderators: *Joseph E. Bavaria, Philadelphia, PA*
and *Eric E. Roselli, Cleveland, OH*

1:15 PM Introductory Remarks

Joseph E. Bavaria, Philadelphia, PA and *Eric*
*E. Roselli, Cleveland, OH*1:20 PM Aortic Valve Repair — Modified David
*Lars G. Svensson, Cleveland, OH*1:30 PM Aortic Valve Repair — Florida Sleeve
Tomas D. Martin, Gainesville, FL

1:40 PM Frozen Elephant Trunks

Eric E. Roselli, Cleveland, OH

1:50 PM Debranching

*Joseph E. Bavaria, Philadelphia, PA*2:00 PM Debate: Pro — Open Repair of
Chronic Dissection/Aneurysm*G. Chad Hughes, Durham, NC*2:10 PM Debate: Con— Open Repair of
Chronic Dissection/Aneurysm*Grayson H. Wheatley, III, Phoenix, AZ*

2:20 PM Panel Discussion

Lars G. Svensson, Tomas D. Martin,
Eric E. Roselli, Joseph E. Bavaria, G. Chad
*Hughes, and Grayson H. Wheatley, III***2:30 PM – 3:00 PM****Break – Visit STS/AATS Tech-Con
2010 Exhibits****3:00 PM – 4:30 PM****Cardiac Track IV: Heart Failure**Moderators: *Michael A. Acker, Philadelphia, PA*
and *Joseph J. DeRose, Bronx, NY*

3:00 PM Introductory Remarks

Michael A. Acker, Philadelphia, PA and
*Joseph J. DeRose, Bronx, NY*3:05 PM Epicardial Lead Placement and
the Surgeon's Role in
Resynchronization Therapy
Joseph J. DeRose Medical Center,
*Bronx, NY*3:25 PM Surgical Restoration and
Restraint Devices for Heart Failure
*Michael A. Acker, Philadelphia, PA*3:45 PM Ventricular Assist Devices (VAD)
for Temporary Mechanical Support
Gonzalo V. Gonzalez-Starwinski,
*Cleveland, OH*4:00 PM Ventricular Assist Devices (VAD)
for Destination Therapy*Igor D. Gregoric, Houston, TX*

4:15 PM Panel Discussion

Joseph J. DeRose, Michael A. Acker,
Gonzalo V. Gonzalez-Starwinski,
and *Igor D. Gregoric*

4:30 PM Adjourn

4:30 PM – 6:30 PM**Opening Reception in STS Exhibit Hall**

SUBSPECIALTY SESSIONS OF INTEREST

The following is a list of sessions which should be of particular interest to the three subspecialties: adult cardiac, general thoracic, and congenital. The poster sessions at the back of this book are also divided by subspecialty. Those sessions targeted for residents are also listed below.

Adult Cardiac

Saturday, January 23

3:15 PM – 5:00 PM

STS/AATS Tech-Con 2010 Cardiac Track I: Valvular Heart Disease

Sunday, January 24

8:00 AM – 9:35 AM

STS/AATS Tech-Con 2010 Cardiac Track II: Revascularization

10:20 AM – 11:35 AM

STS/AATS Tech-Con 2010 Cardiac Track II (continued):
Disruptive Technology on the Horizon

1:15 PM – 2:30 PM

STS/AATS Tech-Con 2010 Cardiac Track III: Aortic Therapies

3:00 PM – 4:30 PM

STS/AATS Tech-Con 2010 Cardiac Track IV: Heart Failure

Monday, January 25

8:40 AM – 9:00 AM

J. Maxwell Chamberlain Memorial Paper for Adult Cardiac Surgery:
Utilization and Outcomes of Less Invasive Mitral Valve Operations in
North America

1:30 PM – 3:30 PM

Parallel Surgical Forum I: Adult Cardiac

4:15 PM – 5:15 PM

Surgical Motion Pictures Matinee II: Adult Cardiac

Tuesday, January 26

7:00 AM – 8:00 AM

Breakfast Session 1: STS National Database: Adult Cardiac

Breakfast Session 6: Percutaneous and Transapical Aortic Valves

Breakfast Session 7: Destination Therapy — Updated

Breakfast Session 8: Options for Mitral Valve Repair: Open Versus
Minimally Invasive Techniques, Equipment and
Instrumentation

1:45 PM – 5:45 PM

Parallel Surgical Forum III: Adult Cardiac I

1:45 PM – 5:45 PM

Parallel Surgical Forum IV: Adult Cardiac II

Wednesday, January 27

7:00 AM – 9:30 AM and 10:00 AM – 12:30 PM

STS U Course 2: Mitral Valve Repair: Minimally Invasive Approaches
and Repair Techniques

STS U Course 3: Valve Sparing Aortic Root Replacement

STS U Course 4: Mechanical Circulatory Support for Cardiogenic Shock

STS U Course 5: Advanced Coronary Revascularization Techniques

STS U Course 6: Pacemaker Lead Removal/Electrophysiology for the
Cardiac Surgeon

General Thoracic

Saturday, January 23

3:15 PM – 5:00 PM

STS/AATS Tech-Con 2010 General Thoracic Track I: New Techniques
and Technology

Sunday, January 24

8:00 AM – 11:35 AM

STS/AATS Tech-Con 2010 General Thoracic Track II: How I Do It

1:15 PM – 4:30 PM

STS General Thoracic Symposium

Monday, January 25

8:20 AM – 8:40 AM

J. Maxwell Chamberlain Memorial Paper for General Thoracic Surgery:
Predictors of Mortality and Major Morbidity After Resection for Lung
Cancer: A Society of Thoracic Surgeons General Thoracic Surgery
Database Risk Model

1:30 PM – 3:30 PM

Parallel Surgical Forum II: General Thoracic

4:15 PM – 5:15 PM

Surgical Motion Pictures Matinee I: General Thoracic

Tuesday, January 26

7:00 AM – 8:00 AM

Breakfast Session 2: STS National Database: General Thoracic

Breakfast Session 4: Mediastinal Staging: Role of Mediastinoscopy, EBUS,
and EUS in Primary Staging and Restaging After
Induction Therapy

Breakfast Session 5: Minimally Invasive Management of Benign
Esophagus Disease

Breakfast Session 10: Surgical Treatment of Hyperhidrosis: Face, Feet, Axilla

Breakfast Session 11: Radiofrequency Ablation, Cryotherapy, Gamma Knife
and IMRT for Lung Nodules: Review, Equipment,
Technique and Results

Breakfast Session 12: Treatment of Barrett's Esophagus: H2 Blockers,
Antireflux Procedures, Laser and RFA

1:45 PM – 5:45 PM

Parallel Surgical Forum I: General Thoracic I

1:45 PM – 5:45 PM

Parallel Surgical Forum II: General Thoracic II

Wednesday, January 27

7:00 AM – 9:30 AM and 10:00 AM – 12:30 PM

STS U Course 1: Thoracoscopic Lobectomy

STS U Course 9: Endoscopic Intervention of the Esophagus

STS U Course 10: Tracheobronchial Interventions: New Tools
for the Thoracic Surgeon

Congenital

Sunday, January 24

1:15 PM – 4:30 PM

STS Congenital Symposium

Monday, January 25

8:00 AM – 8:20 AM

J. Maxwell Chamberlain Memorial Paper for Congenital Heart Surgery: Deep Hypothermic Circulatory Arrest (DHCA) is not a Risk Factor for Impaired Neurodevelopmental Outcome in School-Age Children Following Infant Cardiac Surgery

1:30 PM – 3:30 PM

Parallel Surgical Forum III: Congenital

4:15 PM – 5:15 PM

Surgical Motion Pictures Matinee III: Congenital

Tuesday, January 26

7:00 AM – 8:00 AM

Breakfast Session 3: STS National Database: Congenital

1:45 PM – 5:45 PM

Parallel Surgical Forum V: Congenital

Wednesday, January 27

7:00 AM – 9:30 AM and 10:00 AM – 12:30 PM

STS U Course 11: Hybrid Procedures, Interventional Devices, Balloons and Catheters

Adult Cardiac and General Thoracic

Saturday, January 23

1:00 PM – 2:45 PM

STS/AATS Tech-Con 2010 Joint Session: Training the Cardiothoracic Surgeon of the Future

Adult Cardiac, General Thoracic, and Congenital

Sunday, January 24

7:50 AM – 12:00 PM

Practice Management Summit

2:30 PM – 4:30 PM

STS Workforce on International Relationships Symposium: Indications and Present Surgical Management of Pulmonary Tuberculosis

Monday, January 25

7:30 AM – 12:20 PM

General Session I

1:00 PM – 3:30 PM

Parallel Surgical Forum IV: Critical Care for the Cardiothoracic Surgeon

1:00 PM – 3:30 PM

Parallel Surgical Forum V: Patient Safety Symposium

Tuesday, January 26

7:00 AM – 8:00 AM

Breakfast Session 9: How to Staff an ICU

7:00 AM – 8:00 AM

Health Policy Forum: Health Care Reform — How Does Recently Passed Legislation Impact Cardiothoracic Surgeons?

8:15 AM – 12:30 PM

General Session II

12:40 PM – 1:40 PM

Ethics Debate: The Financial Link Between Industry and Physician Consultants Should be Severed — Pro/Con

Wednesday, January 27

7:00 AM – 9:30 PM and 10:00 AM – 12:30 PM

STS U Course 7: Minimally Invasive Surgical Treatment of Atrial Fibrillation

STS U Course 8: Simulation in Cardiothoracic Surgery Training

STS U Course 12: Pain Management

Residents

Sunday, January 24

1:00 PM – 4:30 PM

STS Residents Symposium

Monday, January 25

12:20 PM – 1:15 PM

TSRA Luncheon

Tuesday, January 26

12:40 PM – 1:40 PM

STS Residents Luncheon

Wednesday, January 27

7:00 AM – 9:30 AM and 10:00 AM – 12:30 PM

STS University Course 12: Simulation in Cardiothoracic Surgery Training

7:00 AM – 6:30 PM

**Registration:
STS/AATS Tech-Con 2010
and STS 46th Annual Meeting**

12:00 PM – 6:30 PM

Scientific Posters Open

4:00 PM – 6:30 PM

STS Exhibits Open

4:30 PM – 6:30 PM

Opening Reception in STS Exhibit Hall

7:50 AM – 12:00 PM

STS Practice Management Summit

Program Description: The dynamic state of health care has resulted in several proposed changes to the business of cardiothoracic surgery over the next two to five years. Through national communications and the peer reviewed medical literature over the last 12 months (NEJM, JACC, JTCVS, ATS), specific questions have been raised and debated on how the use of quality based indicators and changing health care policies will affect clinical practice, surgeon and hospital payment, hospital employment of surgeons, medical communications, resource availability and the future manpower needs of the specialty. In addition, new technology and new methods of practice diversification have been shown by several practices to enhance care to patients while providing added efficiency and fiscal benefit. This has been reported in the medical literature and presented in reviews by the Medical Group Management Association (MGMA).

This program has been designed to provide adaptive strategies to navigate current and future management dynamics of private and academic practice. STS has benefited in the development of the Summit by input from volunteers from MGMA. The program will present a comprehensive and timely update on issues surrounding the management and direction of cardiothoracic surgery. The program will encourage discussion by surgeons and practice administrators on issues of daily practice while reviewing those faced in the broader health care and economic environment.

Learning Objectives:

Upon completion of this program, participants will be able to:

- Describe and evaluate current trends in practice management in cardiothoracic surgery.
- Evaluate new services and identify appropriate business development strategies to increase productivity.
- Identify new procedural terminology codes and upcoming changes to the Medicare fee schedule, particularly on quality based initiatives.
- Describe how Electronic Health Records (EHR) may be introduced and how incentives may impact practice.
- Discuss surgeon recruitment and retention and how economic changes may impact the future manpower of cardiothoracic surgery.
- Navigate the hospital employment process.
- Explain how current regulatory proposals may impact resource availability and reimbursement in cardiothoracic surgery.
- Assess how new technologies will impact practice.

Session I: Adaptive Strategies to Evolve Current Practice

Moderators: *Vinay Badhwar, Orlando, FL and L. Lynne Tromble, San Francisco, CA*

- 7:50 AM Introductory Remarks
Vinay Badhwar, MD and Gordon F. Murray, MD
- 8:00 AM Electronic Health Records in Cardiothoracic Surgery: Analysis, Options and Advantages in the Current Economic Environment
L. Lynne Tromble, San Francisco, CA

- 8:20 AM Preparing for our Endo-Cardiac/Vascular Future: How to Make the Case to Hospital Administration on Hybrid Room Construction and Development
Joseph E. Bavaria, Philadelphia, PA
- 8:40 AM Physician Reimbursement for Non-Clinical Hospital Duties
Todd Carl, St. Petersburg, CA
- 9:00 AM Implementing Quality-Based Incentive Payments in Your Practice: PQRI, ePrescribing, and Others
Julie R. Painter, Denver, CO
- 9:20 AM Navigating Trends and Pitfalls in Hospital Employment: Is Resistance Potentially Not Futile?
L. Lynne Tromble, San Francisco, CA
- 9:40 AM Open Discussion Forum
Joseph E. Bavaria, Todd Carl, James Field, Jeff Rich, Lynne Tromble, and W. Randolph Chitwood, Jr.
- 10:00 AM Break

Session II: Preparing for Future Changes to Cardiothoracic Surgery

- 10:20 AM Resource Use and Quality Indicators for Cardiothoracic Surgery in 2010
Jeffrey B. Rich, Norfolk, VA
- 10:40 AM Projections of Cardiothoracic Surgical Reimbursement in a Revised Health Care Environment
Peter K. Smith, Durham, NC
- 11:00 AM Cardiothoracic Surgery Shortfall Projections and Implications: Should the Retirement-Recruitment Dichotomy be Revised for Today's Economy?
Irving L. Kron, Charlottesville, VA
- 11:20 AM Retooling Cardiothoracic Surgical Practice Structure for a New Health Care Environment: Is the Bundling Threat Real?
James L. Field, Washington, DC
- 11:40 AM Open Discussion Forum
James L. Field, Irving L. Kron, Michael Mack, Jeffrey B. Rich, Peter K. Smith, and Edward D. Verrier

1:00 PM – 4:30 PM

STS Residents Symposium

Symposium Description: This symposium provides resident participants with practical early career information. Topics to be covered include career preparation during residency and beginning medical practice, loan repayment, future workforce needs, and other early career issues. At the conclusion, there will be a question and answer session with the opportunity for discussion among participants and faculty.

Learning Objectives:

Upon completion of this program, participants will be able to:

- Recognize basic financial issues and perform proper debt management.
- Appraise the private sector hiring process.
- Describe basic elements of a physician employment contract.
- Outline a career plan during residency.

Moderator: *George L. Hicks, Rochester, NY*

- 1:00 PM Introductory Remarks
George L. Hicks, Jr., Rochester, NY
- 1:05 PM Debt Management/Financial Issues
Clinton E. Baisden, Temple, TX
- 1:25 PM Hiring Perspective From the Private Sector
Stephen J. Dewan, Austin, TX
- 1:45 PM Contracting
Kevin D. Accola, Orlando, FL
- 2:05 PM Question and Answer Session
- 2:30 PM Break
- 3:00 PM Positioning During Residency (How to be a Good Mentee)
Michael R. Mill, Chapel Hill, NC
- 3:20 PM Cardiothoracic Surgery and Deliberate Practice
James I. Fann, Stanford, CA
- 4:00 PM Question and Answer Session

1:15 PM – 4:30 PM TICKET**STS Parallel Surgical Symposium: Congenital**

Symposium Description: The STS Congenital Surgical Symposium addresses several topics of contemporary interest to all congenital heart surgeons. The early session will focus on the surgical approach and management of aortic and mitral valve malformations in congenital heart disease. The later session will address a variety of current topics of interest in the evolving specialty. Panel discussions will follow each session with the opportunity for the audience to direct questions to the speakers.

Learning Objectives:

Upon completion of this program, participants will be able to:

- Summarize current knowledge and techniques about the following:
 - Surgical approach to aortic and truncal valve pathology in CHD.
 - Surgical approach to mitral valve repair in primary congenital malformations.
 - Surgical approach to mitral regurgitation following atrioventricular canal repair.
 - Surgical approach to atrioventricular valve repair in single ventricle CHD.
- Discuss the current management of the patient with a failing systemic right ventricle.
- Describe the current advances toward fetal intervention for congenital heart disease.
- Discuss the current management of congenital heart surgery patients in the pediatric ICU.
- Summarize the current outcomes with the hybrid approach to HLHS.

Moderators: *Mark D. Plunkett, Lexington, KY, Erle H. Austin, III, Louisville, KY, and Emile A. Bacha, Boston, MA*

1:15 PM	Introductory Remarks <i>Mark D. Plunkett, Lexington KY</i>
1:20 PM	Mitral Valve Repair (Congenital Malformation) <i>Hillel Laks, Los Angeles, CA</i>
1:40 PM	Aortic and Truncal Valve Repair <i>Pedro J. del Nido, Boston, MA</i>
2:00 PM	Mitral Valve Repair or Replacement Following Atrioventricular Canal Repair <i>John J. Lamberti, San Diego, CA</i>
2:20 PM	Atrioventricular Valve Repair in Single Ventricle Defects <i>Frank L. Hanley, Stanford, CA</i>
2:40 PM	Panel Discussion <i>Hillel Laks, Pedro J. del Nido, John J. Lamberti, San Diego, CA, and Frank L. Hanley</i>
3:00 PM	Break
3:15 PM	Management of the Failing Systemic Right Ventricle <i>William J. Brawn, Birmingham, United Kingdom</i>
3:30 PM	Fetal Cardiac Surgery: Where Are We Now? <i>Pirooz Eghtesady, Cincinnati, OH</i>
3:45 PM	Critical Care Issues in Pediatric Cardiac Surgery <i>John M. Costello, Boston, MA</i>
4:00 PM	Hybrid Norwood Update <i>Christopher A. Caldarone, Toronto, Canada</i>
4:15 PM	Panel Discussion <i>William J. Brawn, Pirooz Eghtesady, John M. Costello, and Christopher A. Caldarone</i>

1:15 PM – 4:30 PM TICKET**STS Parallel Surgical Symposium: General Thoracic**

Symposium Description: The staging systems of lung and esophageal cancer are changing. There is a new histological classification in non-small cell lung cancer and advancements in the molecular evaluation to determine prognosis and personalize therapy. The spectrum of lung cancer is also changing, the histology, types of patients, and co-morbidities present issues that may alter surgical management. During the symposium, each of these components will be addressed with their affect and impact on clinical practice. The specific measures and the current status and future plans of outcomes and quality research will also be presented, along with the means to optimize the quality of surgical management.

Learning Objectives:

Upon completion of this program, participants will be able to:

- Describe and utilize the new international staging, histological, and molecular systems for lung cancer.
- Describe the new international staging system for esophageal cancer.
- Discuss the current research in outcomes and quality in thoracic surgical practice.
- Describe methods to improve quality in general thoracic surgical practice.

1:15 PM – 2:10 PM**Session I: The Evolution of Language (Changing Classification)**

Moderator: *Frank C. Detterbeck, New Haven, CT*

1:15 PM	The New Lung Cancer Stage Classification <i>Valerie W. Rusch, New York, NY</i>
1:27 PM	The New Esophageal Cancer Stage Classification <i>Thomas W. Rice, Cleveland, OH</i>
1:39 PM	The New Histologic Classification of Non-Small Cell Lung Cancer (NSCLC) <i>Wilbur A. Franklin, Denver, CO</i>
1:51 PM	Implications of New Stage Classification in Daily Practice <i>Daniel J. Boffa, New Haven, CT</i>
2:03 PM	Panel Discussion <i>Valerie W. Rusch, Thomas W. Rice, Wilbur A. Franklin, Denver, CO, and Daniel J. Boffa</i>

2:10 PM – 3:00 PM**Session II: From Lung Cancer Study Group (LCSG) to 21st Century**

Moderator: *Kemp H. Kernstine, Duarte, CA*

2:10 PM	Changing Outcomes of Surgical Interventions <i>John R. Handy, Portland, OR</i>
2:22 PM	Changing Spectrum of Disease of Non-Small Cell Lung Cancer (NSCLC) <i>Frank C. Detterbeck, New Haven, CT</i>
2:34 PM	The Impact of Molecular Biology on Surgery for Non-Small Cell Lung Cancer (NSCLC) <i>David H. Harpole Jr., Durham, NC</i>
2:46 PM	Panel Discussion <i>John R. Handy, Frank C. Detterbeck, and David H. Harpole Jr.</i>
3:00 PM	Break

3:15 PM – 4:30 PM**Session III: Quality in Lung Cancer**

Moderator: *Andrew C. Chang, Ann Arbor, MI*

3:15 PM	What is Quality (How do we Define, Measure?) <i>Cameron D. Wright, Boston, MA</i>
3:27 PM	The Impact of Specialization <i>Douglas E. Wood, Seattle, WA</i>
3:39 PM	The Impact and Implications of Volume of Cases <i>David R. Jones, Charlottesville, VA</i>
3:51 PM	The Impact of Regional Organization <i>John D. Birkmeyer, Ann Arbor, MI</i>
4:03 PM	Confounding Factors in Studies of Quality <i>Peter Bach, New York, NY</i>
4:15 PM	Panel Discussion <i>Cameron D. Wright, Douglas E. Wood, David R. Jones, John D. Birkmeyer, and Peter Bach</i>

2:30 PM – 4:30 PM**Workforce on International Relationships Symposium**

Program Description: The program will involve a comprehensive review of the present day diagnosis and management of pulmonary tuberculosis. Emphasis will be placed on surgical indications and modern surgical techniques. Also included will be a review of the basic pathology and the growing problem of resistance to medical management.

Learning Objectives:

Upon completion of this program, participants will be able to:

- Describe the pathologic changes that the disease causes in the lungs, the recovery of the lungs with successful medical management, or the conversion of the disease to a chronic resistant variety requiring other modalities of treatment.
- Discuss present day indications for surgical resection of tuberculosis lesions.
- Describe modern surgical techniques and the challenges of thoroscopic resection, including how associated results compare with those of open techniques.
- Discuss possible causes for the increased need for surgical resection of tuberculosis lesions.
- Discuss the public health challenges and the need for additional training for thoracic surgeons to meet potential future demands for surgical treatment precipitated by the increased incidence of drug-resistant tuberculosis.

Moderators: *Aurelio Chaux, Los Angeles, CA and Carlos A. Olivares-Torres, Tijuana, Mexico*

- 2:30 PM Introductory Remarks
Aurelio Chaux, Los Angeles, CA and Carlos A. Olivares-Torres, Tijuana, Mexico
- 2:40 PM Public Policy and Protocols in Current Management of Tuberculosis
Selim C. Isbir, Istanbul, Turkey
- 3:00 PM Surgical Pathology of Pulmonary Tuberculosis Lesions
Alberto Marchevsky, Los Angeles, CA
- 3:20 PM Surgical Treatment of Pulmonary Tuberculosis With Minimally Invasive Techniques (VATS): The Mexican Experience
Carlos A. Olivares-Torres, Tijuana, Mexico
- 3:40 PM Present Indications and Results of Surgical Treatment of Pulmonary Tuberculosis
Carlos Alberto Guimaraes, Rio de Janeiro, Brazil
- 4:00 PM Panel Discussion/Questions & Answers
Selim C. Isbir, Alberto Marchevsky, Carlos Olivares-Torres, and Carlos Alberto Guimaraes
- 4:30 PM Adjourn

6:30 AM – 5:00 PM**Registration: STS 46th Annual Meeting****7:00 AM – 5:30 PM****Scientific Posters Open****9:00 AM – 4:30 PM****STS Exhibits Open****7:30 AM – 12:20 PM****General Session I**

Moderators: *Gordon F. Murray, Southport, NC and Douglas E. Wood, Seattle, WA*

- 7:30 AM Introductory Remarks
Gordon F. Murray, Southport, NC and Douglas E. Wood, Seattle, WA
- 7:50 AM Introduction of New Members
Constantine Mavroudis, Cleveland, OH
- 8:00 AM J. Maxwell Chamberlain Memorial Paper for Congenital Heart Surgery: Deep Hypothermic Circulatory Arrest (DHCA) is not a Risk Factor for Impaired Neurodevelopmental Outcome in School-Age Children Following Infant Cardiac Surgery
S. Fuller¹, R. Rajagopalan², G. P. Jarvik², M. Gerdes¹, J. Bernbaum¹, G. Wernovsky¹, R. R. Clancy¹, C. B. Soto¹, S. C. Nicolson¹, T. L. Spray¹, J. W. Gaynor¹
¹Children's Hospital of Philadelphia, Philadelphia, PA
²University of Washington, Seattle, WA

Discussant: *Erle H. Austin, III, Louisville, KY*

- 8:20 AM J. Maxwell Chamberlain Memorial Paper for General Thoracic Surgery: Predictors of Mortality and Major Morbidity After Resection for Lung Cancer—A Society of Thoracic Surgeons General Thoracic Surgery Database Risk Model
Benjamin D. Kozower¹, Michael J. Liptay², Shubin Sheng³, Sean O'Brien³, David M. Shabian⁴, Cameron D. Wright⁴
¹University of Virginia, Charlottesville, VA
²Rush University, Chicago, IL
³Duke University, Durham, NC
⁴Massachusetts General Hospital, Boston, MA
- Discussant: *Joe B. Putnam, Nashville, TN*
- 8:40 AM J. Maxwell Chamberlain Memorial Paper for Adult Cardiac Surgery: Utilization and Outcomes of Less Invasive Mitral Valve Operations in North America
J. S. Gammie¹, Y. Zhao², J. S. Rankin³, S. O'Brien², B. P. Griffith¹
¹University of Maryland Medical Center, Baltimore, MD
²Duke University, Durham, NC
³Vanderbilt University, Nashville, TN

Discussant: *W. Randolph Chitwood, Jr., Greenville, NC*

- 9:00 AM Richard E. Clark Award Presentation: Aortic Dissection as a Complication of Cardiac Surgery—A Report From the STS National Database
M. L. Williams¹, S. Sheng², C. K. Haan³, P. K. Smith¹, G. Hughes¹
¹Duke University Medical Center, Durham, NC
²Duke Clinical Research Institute, Durham, NC
³University of Florida – Jacksonville, Jacksonville, FL

Discussant: *Aubrey C. Galloway, New York, NY*

- 9:20 AM C. Walton Lillehei Lecture: The Minnesota Metastasis — Translational Research Before it had a Name
William A. Neal, Morgantown, WV

10:20 AM

Award Presentations:

Earl Bakken Scientific Achievement Award, TSDA Benson R. Wilcox Award, TSRA Socrates Award, and Geriatric Patient Care Award

10:35 AM – 11:20 AM

Break – Visit Exhibits and Scientific Posters

11:20 AM

Though Medicine Can be Learned, It Cannot Be Taught
The First 100 Years: Flexnerian Competency 2010
Gordon F. Murray, Southport, NC

12:20 PM – 1:15 PM

TSRA Luncheon

12:20 PM – 1:30 PM

Break – Visit Exhibits and Scientific Posters

12:45 PM – 1:15 PM

CABG vs. PCI: An NIH STS-ACC National Study

1:30 PM – 3:30 PM

Parallel Surgical Forum I: Adult Cardiac

Moderators: *R. Scott. Mitchell, Stanford, CA and John S. Ikonomidis, Charleston, SC*

- 1:30 PM Successful Linking of the STS Adult Cardiac Surgery Data to CMS Medicare Data to Examine the Penetration, Completeness, and Representativeness of the STS National Database
J. P. Jacobs¹, F. H. Edwards², D. M. Shabian³, C. K. Haan², J. D. Puskas⁴, D. L. Morales⁵, J. S. Gammie⁶, J. Brennan⁷, S. M. O'Brien⁷, R. S. Dokholyan⁷, B. G. Hammill⁷, L. H. Curtis⁸, E. D. Peterson⁷, J. E. Mayer⁸, W. Chitwood⁹, G. F. Murray¹⁰, F. L. Grover¹¹
¹*Congenital Heart Institute of Florida (CHIF), Cardiac Surgical Associates of Florida (CSAoF), University of South Florida (USF), All Children's Hospital, Children's Hospital of Tampa, St. Petersburg and Tampa, FL*
²*Shands Jacksonville, University of Florida, Gainesville and Jacksonville, FL*
³*Massachusetts General Hospital, Harvard University, Boston, MA*
⁴*Crawford Long Hospital, Emory University, Atlanta, GA*
⁵*Texas Children's Hospital, Baylor College of Medicine, Houston, TX*
⁶*University of Maryland Medical Center, Baltimore, MD*
⁷*Duke Clinical Research Institute (DCRI), Durham, NC*
⁸*Children's Hospital Boston, Harvard University, Boston, MA*
⁹*Brody School of Medicine, East Carolina University, Greenville, NC*
¹⁰*West Virginia University, Morgantown, WV*
¹¹*University of Colorado Denver, School of Medicine, Aurora, CO*
- 1:45 PM Predictors of Failure for Surgical Treatment of AF Using Cryotherapy in Patients Undergoing Concomitant Cardiac Surgery
S. Redzepagic
Alfred Hospital, Prabran, Australia
- 2:00 PM Successful Correction of Aortic Valve Incompetence and Ascending Aortic Aneurysm by Relocation of the Aortic Valve Plane Through a Short Aortic Graft Replacement
R. Hetzer¹, S. Mulahasanovic¹, M. Amiri¹, C. Knosalla¹, N. Solowjorwa¹, R. Roettgen²
¹*German Heart Institute Berlin, Berlin, Germany*
²*Charité University Medicine Berlin, Berlin, Germany*
- 2:15 PM Moderate Hypothermia With Selective Antegrade Cerebral Perfusion is not a Predictor of Adverse Outcome Following Aortic Arch Surgery
B. G. Lesnower, P. Kilgo, T. A. Vassiliades, J. Vega, V. H. Thourani, J. D. Puskas, R. A. Guyton, E. P. Chen
Emory University School of Medicine, Atlanta, GA

- 2:30 PM Predicting Risk of Paraplegia After Thoracic and Thoracoabdominal Aneurysm Repair
S. Zoli, F. Roder, C. D. Etz, R. M. Brenner, C. A. Bodian, H. Lin, G. Di Luozzo, R. B. Griepp
Mount Sinai School of Medicine, New York, NY
- 2:45 PM Extending the Horizon — A Comparative Study of Open Distal Arch Repair to Thoracic Endovascular Aortic Repair With Left Carotid/Subclavian Artery Bypass: Optimal Management of the Distal Aortic Arch and Proximal Thoracic Aorta on High-Risk Patients
R. C. Milewski, W. Y. Szeto, A. Pochettino, Y. J. Woo, G. Moser, P. Moeller, J. E. Bavaria
University of Pennsylvania, Philadelphia, PA
- 3:00 PM Antegrade Delivery of Stent Grafts to Treat Complex Thoracic Aortic Disease
E. E. Roselli, E. G. Soltesz, T. Mastracci, L. G. Svensson, B. W. Lytle
Cleveland Clinic, Cleveland, OH
- 3:15 PM Progress in the Treatment of Blunt Thoracic Aortic Injury: A 12-Year Single Institution Experience
A. L. Estrera¹, D. C. Gochnour¹, C. C. Miller², A. Azizzadeh¹, S. Coogan¹, J. B. Holcomb¹, L. R. Kaiser¹, H. J. Safi¹
¹*University of Texas Houston Medical School, Houston, TX*
²*Texas Tech University Health Sciences Center, El Paso, TX*

3:30 PM – 4:15 PM

Break – Visit Exhibits and Scientific Posters

1:30 PM – 3:30 PM

Parallel Surgical Forum II: General Thoracic

Moderators: *Thomas A. D'Amico, Durham, NC and Kemp H. Kernstine, Duarte, CA*

- 1:30 PM Genes Associated With Prognosis After Surgery in Malignant Pleural Mesothelioma Promote Tumor Cell Survival In Vitro
G. Gordon, R. Bueno, D. Sugarbaker
Brigham and Women's Hospital, Harvard Medical School, Boston, MA
- 1:45 PM Paclitaxel-Loaded Expansile Nanoparticles Delay Local Recurrence in a Murine Model of Non-Small Cell Lung Cancer
R. Liu¹, A. Grise², K. V. Zubris², J. Wade¹, M. W. Grinstaff², Y. L. Colson¹
¹*Brigham and Women's Hospital, Boston, MA*
²*Boston University, Boston, MA*
- 2:00 PM A 10-Gene Progenitor Cell Signature Predicts Poor Prognosis in Lung Adenocarcinoma
M. Onaitis, E. Rawlins, T. A. D'Amico, J. Guinney, D. H. Harpole, B. Hogan
Duke University, Durham, NC
- 2:15 PM Novel Mechanisms of Virus Induced Chronic Human Lung Allograft Rejection
A. Bharat, E. Kuo, G. Patterson, B. F. Meyers, T. Mohanakumar
Washington University School of Medicine, St. Louis, MO
- 2:30 PM Conditional Survival Analysis Comparing Cancer-Specific Survival and Chronic Disease-Specific Survival After Lobectomy for Stage I Non-Small Cell Lung Cancer: Data From the Surveillance Epidemiology and End - Results Database
S. S. Groth, N. M. Rueth, E. B. Habermann, J. D' Cunha, R. S. Andrade, M. A. Maddaus
University of Minnesota, Minneapolis, MN
- 2:45 PM Surgical Management of Acquired Nonmalignant Tracheo and Broncho-Esophageal Fistula
K. Shen, M. Allen, S. D. Cassivi, F. C. Nichols, D. A. Wigle, C. Deschamps
Mayo Clinic, Rochester, MN

3:00 PM Video-Assisted Thoracic Surgery Utilizing Local Anesthesia/
Sedation: 384 Consecutive Cases
M. R. Katlic, M. A. Facktor
Geisinger Health System, Wilkes – Barre, PA

3:15 PM Different Morbidity After Pneumonectomy: Multidrug-Resistant
Tuberculosis Versus Nontuberculous Mycobacteria
Y. Shiraisbi, N. Katsuragi, H. Kita, Y. Tominaga
Fukujuji Hospital, Tokyo, Japan

3:30 PM – 4:15 PM

Break – Visit Exhibits and Scientific Posters

1:30 PM – 3:30 PM

Parallel Surgical Forum III: Congenital

Moderators: *Mark D. Plunkett, Lexington, KY and James J. Gangemi,*
Charlottesville, VA

1:30 PM Long-Term Results of the Ross Procedure in Neonates
and Infants
T. Shinkawa, J. C. Hirsch, E. J. Devaney, E. L. Bove, R. G. Ohye
University of Michigan Medical School, Ann Arbor, MI

1:45 PM Reoperation for Left Ventricular Outflow Tract in Interrupted
Aortic Arch Repair
Y. Hirata¹, R. S. Mosca¹, J. M. Quaegebeur², J. M. Chen²
¹Columbia University College of Physicians and Surgeons, New York, NY
²Joan and Sanford Weill Medical College of Cornell University, New York, NY

2:00 PM Durability of Truncal Valve Repair
A. K. Kaza, N. Pinto, L. Tani, L. Minich, J. A. Hawkins
University of Utah and Primary Children's Medical Center, Salt Lake City, UT

2:15 PM Histopathology of Ascending Aorta and the Risk Factors Related
to Histopathological Conditions and Aortic Dilatation in Patients
With Tetralogy of Fallot
U. K. Chowdhury
All India Institute of Medical Sciences, New Delhi, India

2:30 PM Thymus Mesenchymal Stromal Cells Augment Force Production
in Bioengineered Heart Muscle
Ming-Sing Si, Chani Hodonsky, Luda Khat, John Shaw, Richard G.
Ohye, M. Si, C. Hodonsky, L. Khat, J. Shaw, R. G. Ohye, E. L. Bove
University of Michigan, Ann Arbor, MI

2:45 PM Continuous Cerebral Perfusion for Aortic Arch Repair:
Hypothermia Versus Normothermia
A. Serraf, M. Ly, F. Roubertie, R. Roussin, E. Le Bret, E. Belli
Marie Lannelongue Surgical Center, Le Plessis Robinson, France

3:00 PM Regional High-Flow Cerebral Perfusion Improves Both Cerebral
and Somatic Tissue Oxygenation in Aortic Arch Repair for
Neonates and Small Infants
K. Miyaji, T. Miyamoto, S. Kohira, K. Itatani, T. Tomoyasu, K. Obara
Kitasato University Hospital, Sagami, Japan

3:15 PM Preoperative Predictors for Postoperative Left Ventricular
Mechanical Circulatory Support After Repair of Anomalous Left
Coronary Artery Origin From Pulmonary Artery
B. A. Nasser, V. Alexi – Meskishvili, B. Schmitt, S. Eder, Y. Weng,
F. Berger, R. Hetzer
German Heart Institute Berlin, Berlin, Germany

3:30 PM – 4:15 PM

Break – Visit Exhibits and Scientific Posters

1:30 PM – 3:30 PM

STS Parallel Surgical Forum IV: Critical Care for the
Cardiothoracic Surgeon

Symposium Description: The United States is currently facing an unprecedented and largely unrecognized decline of cardiothoracic surgeons. Despite continued medical progress, future demand for critical care services in the United States will soon exceed the capabilities of the current delivery system. Educating cardiothoracic surgeons trained to care for the critically ill patient is essential if this demand is to be filled. To address this concern, the Parallel Surgical Forum IV: Critical Care for the Cardiothoracic Surgeon, will feature didactic presentations and a panel discussion from renowned surgeons who are experts in critical care.

Learning Objectives:

Upon completion of this program, participants will be able to:

- Manage blood glucose levels following open-heart surgery.
- Discuss the complexities surrounding inotrope and sedation medications in the ICU.
- Manage the hemodynamics following LVAD insertion.
- Outline the benefits of having a fast-track extubation protocol following heart surgery.

Moderator: *David R. Jones, Charlottesville, VA*

1:30 PM Introductory Remarks

David R. Jones, Charlottesville, VA

1:35 PM Fast-Track Extubation Following Cardiac Surgery

Gorav Ailawadi, Charlottesville, VA

1:55 PM The Importance of Glucose Control Following Open-Heart
Surgery: How Low Do We Go?

Anthony P. Furnary, Portland OR

2:15 PM What's New With Vasopressors and Inotropes?

Robert L. Smith, Dallas, TX

2:35 PM Managing Hemodynamics in the ICU Post-LVAD Insertion

John V. Conte, Baltimore MD

2:55 PM Sedation and Pain Control in the Cardiothoracic ICU

George L. Zorn, III, Kansas City, KS

3:15 PM Panel Discussion

Gorav Ailawadi, Anthony P. Furnary, Robert L. Smith, John V. Conte,
and George L. Zorn, III

3:30 PM – 4:15 PM

Break – Visit Exhibits and Scientific Posters

1:30 PM – 3:30 PM

Parallel Surgical Forum V: Patient Safety Symposium

Symposium Description: Cardiothoracic surgeons function in high-risk environments where the potential for error and significant harm is high. The increasing complexity of procedures, the introduction of new techniques and technology, as well as the training of residents brings ever expanding challenges to those charged with training cardiothoracic surgery residents and the care of cardiothoracic patients. A key element in the management of risk and reduction of errors is communication. The STS Patient Safety Symposium will highlight effective communication strategies to address the challenges faced for improving patient safety in the current health care environment.

Learning Objectives:

Upon completion of this program, participants will be able to:

- List latent conditions and active failures that contribute to error and subsequent adverse events.
- Describe human factors that consistently contribute to errors and near misses.
- Describe the application and evaluation of quality measures to improve patient safety on multiple levels, from resident training to point of care.
- Identify best practices to promote safety in cardiothoracic surgery.

Moderator: *Emile A. Bacha, Boston, MA*

- 1:30 PM Introductory Remarks
Emile A. Bacha, Boston, MA
- 1:35 PM Military Medical Transport Communication
T. Sloane Guy, San Francisco, CA
- 1:55 PM Friendly Fire: Communication Challenges on the Battlefield
Yvette D. Nonte, Chicago, IL
- 2:15 PM Patient-Physician Communication: The Patient's Perspective
A. Osama Gaber, Houston, TX
- 2:35 PM Communication in the Operating Room With Special Emphasis on Perfusionist-Surgeon Communication
Harold M. Burkhart, Rochester, MN
- 2:55 PM Panel Discussion
T. Sloane Guy, Yvette D. Nonte, A. Osama Gaber, and Harold M. Burkhart

3:30 PM – 4:15 PM

Break – Visit Exhibits and Scientific Posters

4:15 PM – 5:15 PM

Surgical Motion Pictures Matinee I: General Thoracic

Moderators: *Bryan F. Meyers, St. Louis, MO and John D. Mitchell, Aurora, CO*

- 4:15 PM Technical Pearls of Laparoscopic Diaphragm Plication
*R. S. Andrade, N. M. Rueth, S. S. Groth, J. D'Cunha, M. A. Maddaus
University of Minnesota, Minneapolis, MN*
- 4:27 PM Reverse Barclay Carinal Resection for Tracheo-Carinal Primary Tumor (Eschaspasse Technique)
*L. Spaggiari¹, P. Solli¹, G. Veronesi¹, A. Borri¹, D. Galetta¹,
F. Petrella¹, J. Guarize², F. Vannucci¹
¹European Institute of Oncology (IEO), Milano, Italy
² University of the Studies of Milan, Milan, Italy*
- 4:39 PM Segmentectomy Using Indocyanine Green (ICG) Dye for Lung Cancer: A New Method for Detecting Intersegmental Plane
*S. Oh, K. Suzuki, K. Takamochi
Juntendo University, Tokyo, Japan*
- 4:51 PM Minimally Invasive Ivor Lewis Esophagectomy: An Illustration of Technique
*J. O. Wee
Brigham and Women's Hospital, Boston, MA*
- 5:03 PM Hybrid VATS/Robotic Approach for Right Upper Sleeve Lobectomy
*J. Bodner¹, F. Augustin¹, G. Kainz², T. Schmid¹
¹Innsbruck Medical University, Innsbruck, Austria
²Bozen County Hospital, Bozen, Italy*

4:15 PM – 5:15 PM

Surgical Motion Pictures Matinee II: Adult Cardiac

Moderators: *Todd M. Dewey, Dallas, TX and Howard Song, Portland, OR*

- 4:15 PM Mitral Valve Repair for HOCM With Severe Mitral Anomalies
*J. S. Rankin
Vanderbilt University, Nashville, TN*
- 4:27 PM A Lesion Specific Approach in Rheumatic Mitral Valve Repair
*A. C. Anyanwu, J. G. Castillo, J. Chikwe, D. H. Adams
Mount Sinai Medical Center, New York, NY*
- 4:39 PM Mitral Valve Repair Strategies and Techniques for Dealing With Severe Annular Calcification
*J. G. Castillo, A. C. Anyanwu, J. Chikwe, D. H. Adams
Mount Sinai Medical Center, New York, NY*

- 4:51 PM A Totally Thoracoscopic Procedure for Atrial Fibrillation Incorporating a Novel Five – Box Verification Technique
*J. H. Sirak
The Ohio State University, Columbus, OH*
- 5:03 PM Distal Reconstruction in Patients Undergoing Total Arch Replacement
*H. Nishi, M. Mitsuno, M. Yamamura, H. Tanaka, M. Ryomoto,
S. Fukui, Y. Yoshioka, N. Tsujiya, T. Kajiyama, Y. Miyamoto
Hyogo College of Medicine, Nishinomiya, Japan*

4:15 PM – 5:15 PM

Surgical Motion Pictures Matinee III: Congenital

Moderators: *Mark D. Plunkett, Lexington, KY and James J. Gangemi, Charlottesville, VA*

- 4:15 PM Yasui Operation
*P. Murin, J. Photiadis, B. Asfour, V. Hraska
Asklepios Clinic, Skt. Augustin, Germany*
- 4:27 PM Fresh Autologous Pericardial Valved Conduit for Repair of Transposition of the Great Arteries With Ventricular Septal Defect and Pulmonary Stenosis
*C. L. Gilbert¹, W. M. Novick², K. Saleem³, X. Li⁴, X. Mo⁵
¹International Children's Heart Foundation, Memphis, TN
²University of Tennessee Health Sciences Center, Memphis, TN
³Armed Forces Institute of Cardiology, Rawalpindi, Pakistan
⁴Beijing Children's Hospital, Beijing, China
⁵Nanjing Children's Hospital, Nanjing, China*
- 4:39 PM Surgical Repair of Common Arterial Trunk With Single Origin of Left Pulmonary Artery in a Newborn
*M. Nosal, R. Poruban, P. Valentik, I. C. Omeje, M. Sagat
Children's Heart Center Slovak Republic, Bratislava, Slovakia*
- 4:51 PM Valve-Sparing Neo-aortic Root Replacement Following Staged Palliation for Hypoplastic Left Heart Syndrome
*C. Pizarro, G. Baffa, C. D. Derby, M. A. McCullough
Alfred I. duPont Hospital for Children, Wilmington, DE*
- 5:03 PM Berlin Heart Support of a Neonate With Single Ventricle Circulation: Standard Cannulation Modification
*C. D. Derby, C. Pizarro
Alfred I. DuPont Hospital for Children, Wilmington, DE*

5:30 PM – 6:30 PM

Annual Business Meeting (Members Only)

6:30 AM – 4:30 PM

Registration: STS 46th Annual Meeting

7:00 AM – 5:45 PM

Scientific Posters Open

7:00 AM – 8:00 AM TICKET

Health Policy Forum

Health Care Reform – How Does Recently Passed Legislation Impact Cardiothoracic Surgeons?

Forum Description: Congress is poised to enact comprehensive health care reform legislation that will have a lasting impact on surgical practice and the way health care is delivered in the United States. The STS 2010 Health Policy Forum will identify key provisions of the legislation, outlining the potential impact on cardiothoracic surgery. The session will also provide a comparison of STS Health Care Reform Principles to key goals of the legislation. What are the goals of health care reform legislation at the federal level? How do these goals impact (negatively and positively) on practicing cardiothoracic surgeons? What role can comparative effectiveness research play in reducing the costs of health care reform? How will the STS National Database be utilized in achieving health care reform goals? Panelists will discuss health care reform legislation and how key provisions in the legislation will impact the health care delivery system and cardiothoracic surgeons.

Learning Objectives:

Upon completion of this program, participants will be able to:

- Outline the primary goals of health care reform legislation.
- Discuss how specific policies in health care reform directly impact cardiothoracic surgeons.
- Discuss STS Health Care Reform Principles in comparison to key provisions in the legislation.
- Identify comparative effectiveness research provisions in legislation and how the STS National Database will be utilized under the new legislation.

Moderator: *T. Bruce Ferguson, Greenville, NC*

7:00 AM – 8:00 AM TICKET

Ticketed Breakfast Sessions

Session 1: STS Adult Cardiac Surgery Database – 2010 and Beyond
Fred H. Edwards, Jacksonville, FL, Richard L. Prager, Ann Arbor, MI, and David M. Shabian, Boston, MA

Session 2: The Utility of the STS General Thoracic Surgery Database
Fred H. Edwards, Jacksonville, FL, and Cameron D. Wright, Boston, MA

Session 3: Status Report of the STS Congenital Heart Surgery Database
Fred H. Edwards, Jacksonville, FL, Jeffrey P. Jacobs, St. Petersburg, FL, and Marshall L. Jacobs, Newtown Square, PA

Session 4: Mediastinal Staging: Role of Mediastinoscopy, Endobronchial Ultrasound (EBUS), and Endoscopic Ultrasound (EUS) in Primary Staging and Restaging After Induction Therapy
Rafael S. Andrade, Minneapolis, MN and Bryan F. Meyers, St. Louis, MO

Session 5: Minimally Invasive Management of Benign Esophageal Disease
James D. Luketich, Pittsburgh, PA

Session 6: Transcatheter Aortic Valves: Transapical and Transfermoral
Joseph E. Bavaria, Philadelphia, PA

Session 7: Destination Therapy – Updated
Robert L. Kormos, Pittsburgh, PA and Mark S. Slaughter, Louisville, KY

Session 8: Options for Mitral Valve Repair: Open Versus Minimally Invasive Techniques, Equipment and Instrumentation
W. Randolph Chitwood, Greenville, NC

Session 9: How to Staff an ICU
Jennifer S. Lawton, St. Louis, WA

Session 10: Surgical Treatment of Hyperhidrosis: Face, Feet, Axilla
Mark J. Krasna, Towson, MD

Session 11: Radiofrequency Ablation, Cryotherapy, Gamma Knife and Intensity Modulated Radiation Therapy (IMRT) for Lung Nodules: Review, Equipment, Technique and Results
Michael Lanuti, Boston, MA

Session 12: Treatment of Barrett's Esophagus: H2 Blockers, Antireflux Procedures, Laser and Radiofrequency Ablation (RFA)
Neil A. Christie, Pittsburgh, PA

9:00 AM – 4:30 PM
STS Exhibits Open

8:15 AM – 12:30 PM
General Session II

Moderators: *Gordon F. Murray, Southport, NC and Douglas E. Wood, Seattle, WA*

8:15 AM Thirty Year Follow-Up Defines Survival Benefit for Second IMA in Propensity Matched Groups
P. A. Kurlansky¹, E. Traad², M. Dorman², D. Galbut¹, M. Zucker², G. Ebra²
¹*Florida Heart Research Institute, Miami, FL*
²*JFK Medical Center, Atlantis, FL*

Discussant: *Joseph F. Sabik, III, Cleveland, OH*

8:30 AM Thoracic Surgeons Providing Cardiac Critical Care Improve Patient Management and Decrease Costs
G. J. Whitman, M. Haddad, H. Hirose, M. Lusardi, M. Murphy
Jefferson Medical College, Philadelphia, PA

Discussant: *Jonathan W. Haft, Ann Arbor, MI*

8:45 AM Same Admission Cardiac Catheterization and Cardiac Surgery: Is There an Increased Incidence of Acute Kidney Injury?
R. S. Kramer¹, J. R. Brown², R. D. Quinn¹, R. C. Groom¹, J. H Braxton¹, D. J. Malenka², M. A. Kellett¹
¹*Maine Medical Center, Portland, ME*
²*Dartmouth Medical School, Lebanon, NH*

Discussant: *John V. Conte, Baltimore, MD*

9:00 AM Early Repair for Mitral Endocarditis
M. A. Romano, J. W. Haft, H. J. Patel, S. F. Bolling
University of Michigan, Ann Arbor, MI

Discussant: *Walter H. Merrill, Jackson, MS*

9:15 AM Pre-Transplant Autoantibodies Lead to Primary Graft Dysfunction (PGD) and Predispose to Bronchiolitis Obliterans Syndrome (BOS)
A. Bharat, E. Kuo, E. Trulock, R. Hachem, G. Patterson, B. F. Meyers, T. Mohanakumar
Washington University School of Medicine, St. Louis, MO

Discussant: *Thomas K. Waddell, Toronto, Canada*

9:30 AM The True False Negative Rates of Esophageal and Endobronchial Ultrasound in the Staging of Patients With NSCLC
R. J. Cerfolio, A. S. Bryant, D. J. Minnich, M. A. Eloubeidi, K. C. Harbour, M. T. Dransfield
University of Alabama, Birmingham, AL

Discussant: *Michael A. Maddaus, Minneapolis, MN*

9:45 AM – 10:30 AM
Break – Visit Exhibits and Scientific Posters

10:30 AM Risk Factors for Atrial Fibrillation After Lung Cancer Surgery: An Analysis of the STS General Thoracic Surgery Database
M. Onaitis, T. A. D'Amico, Y. Zhao, S. O'Brien, D. H. Harpole
Duke University, Durham, NC

Discussant: *Malcolm M. DeCamp, Jr., Boston, MA*

10:45 AM Simulator Experience Enhances Medical Student's Interest in Cardiothoracic Surgery
L. J. Tesche, R. H. Feins, M. Dedmon, K. Newton, T. M. Egan, B. E. Haithcock, N. K. Veeramachaneni, M. Bowdish
University of North Carolina – Chapel Hill, Chapel Hill, NC

Discussant: *Michael F. Reed, Cincinnati, OH*

11:00 AM Survival and Freedom From Aortic Valve Replacement After Aortic Cusp Extension Valvuloplasty With Tricuspidation in Infants and Children
A. C. Polimenakos, S. Satbanandam, C. El Zein, R. S. Higgins, M. N. Ilbarwi
Rush University/Advocate Hope Children's Hospital, Chicago, IL

Discussant: *Hillel Laks, Los Angeles, CA*

11:15 AM Mitral Valve Repair for Congenital Mitral Valve Stenosis in Younger Population
T. Hoashi, E. L. Bove, E. J. Devaney, J. C. Hirsch, R. G. Ohye
University of Michigan Medical School, Ann Arbor, MI

Discussant: *Pedro J. del Nido, Boston, MA*

11:30 AM Use of Ventricular Assist Devices in Children Across the United States: An Analysis of 7.5 Million Pediatric Hospitalizations
D. L. Morales, F. Zafar, J. W. Rossano, J. D. Salazar, J. S. Heinle, C. D. Fraser
Baylor College of Medicine, Houston, TX

Discussant: *James K. Kirklin, Birmingham, AL*

11:45 AM Ferguson Lecture: Transforming the U.S. Health Care Delivery System: Moving From Volume to Value
Jeffrey B. Rich, Norfolk, VA

12:40 PM – 1:40 PM
Break – Visit Exhibits and Scientific Posters

12:40 PM – 1:40 PM 
Ethics Debate: The Financial Link Between Industry and Physician Consultants Should be Severed

Debate Description: There is evidence that payments from industry to physicians have a corrupting influence on physicians' clinical judgment and practices, so some argue that all arrangements for physicians consulting with industry should be made through consultants' academic institutions and any payments should be made directly to the institution.

Learning Objectives:

Upon completion of this program, participants will be able to:

- Discuss how payments from industry to physicians can influence patient outcomes.
- Analyze the influence that industry may have on physicians who receive payments.

12:40 PM Pro: *Steven J. Immelt, Baltimore, MD*

1:10 PM Con: *Vincent A. Gaudiani, Redwood City, CA*

Moderator: *Robert M. Sade, Charleston, SC*

12:40 PM – 1:40 PM
STS Residents Luncheon

Session Description: This program is designed to help cardiothoracic surgery residents with their job search and provides guidance on how to avoid the obstacles faced when beginning their career. A representative from each of the subspecialties will give a brief presentation about early career issues, followed by a panel discussion. Practicing cardiothoracic surgeons from among STS leadership will be seated at each table for further discussion with residents in attendance.

Learning Objectives:

Upon completion of this program, participants will be able to:

- Describe the differences between academic and private medical practice.
- Discuss the components involved in finding a job within each subspecialty.
- Obtain practical early career advice from STS leadership.

Moderator: *George L. Hicks, Jr., Rochester, NY*

12:40 PM Introductory Remarks

George L. Hicks, Jr., Rochester, NY

12:45 PM Adult Cardiac Practice

John R. Mehall, Colorado Springs, CO

12:50 PM General Thoracic Practice

Carolyn Jones, Rochester, NY

12:55 PM Congenital Practice

James J. Gangemi, Charlottesville, VA

1:00 PM Panel Discussion:

John R. Mehall, Carolyn Jones, Rochester, NY, and James J. Gangemi

1:15 PM Lunch: Discussion With Faculty Mentors

1:45 PM – 3:00 PM
Parallel Surgical Forum I: General Thoracic I

Moderators: *David R. Jones, Charlottesville, VA and Donald E. Low, Seattle, WA*

1:45 PM Reoperative Anti-Reflux Surgery After Failed Primary Fundoplication: An Analysis of Outcomes

O. Awais, A. Pennathur, M. Schubert, C. R. Morse, R. J. Landreneau, J. D. Luketich
University of Pittsburgh Medical Center, Pittsburgh, PA

2:00 PM Aggressive Surgical Intervention Lowers Mortality for Esophageal Perforation

W. B. Keeling, S. Force, G. Lam, H. J. Reich, A. Pickens, J. I. Miller, K. A. Mansour, D. L. Miller
Emory University, Atlanta, GA

2:15 PM Efficacy of Endoscopic Ultrasound in Patients With Esophageal Cancer Predicted to Have NO Disease

R. J. Cerfolio, A. S. Bryant, S. Varadarajulu, M. A. Eloubeidi
University of Alabama, Birmingham, AL

- 2:30 PM The Kaizen Method for Esophagectomy Patients: Improved Quality Control, Outcomes and Decreased Costs
M. D. Iannettoni, W. R. Lynch, K. R. Parekh
University of Iowa, Iowa City, IA
- 2:45 PM Pathologic TON1 After Neoadjuvant Therapy and Surgery for Esophageal Cancer: An Orphan Status
M. P. Kim, W. L. Hofstetter, A. Correa, D. C. Rice, J. A. Roth, G. L. Walsh, R. J. Mehran, A. A. Vaporciyan, J. A. Ajani, D. M. Maru, J. Y. Chang, E. M. Marom, H. A. Macapinlac, J. H. Lee, S. G. Swisher
University of Texas, Houston, TX

3:00 PM – 3:45 PM

Break – Visit Exhibits and Scientific Posters

3:45 PM – 5:45 PM

Parallel Surgical Forum I: General Thoracic I (Continued)

Moderators: *Seth D. Force, Atlanta, GA and Christine L. Lau, Charlottesville, VA*

- 3:45 PM Multidisciplinary Approach for Advanced Stage Thymic Tumors: Long-Term Outcome
G. Marulli, F. Di Chiara, M. Loy, C. Breda, M. Schiavon, A. G. Favaretto, F. Calabrese, F. Rea
University of Padova–Italy, Padova, Italy
- 4:00 PM Induction Therapy With Anti-Thymocyte Globulin Prior to Reperfusion Reduces the Incident of Acute Cellular Rejection During the First Six Months Post Transplantation
S. Goldfarb¹, J. W. Gaynor¹, S. Fuller¹, J. Kreindler¹, L. Montenegro¹, F. Fynn – Thompson², G. Visner²
¹*Children's Hospital of Philadelphia, Philadelphia, PA*
²*Children's Hospital Boston, Boston, MA*
- 4:15 PM Guidelines for Donor Lung Selection: Appropriate or Inappropriate?
K. G. Reyes, D. P. Mason, S. C. Murthy, L. Thuita, G. Pettersson, E. R. Nowicki, E. H. Blackstone
Cleveland Clinic, Cleveland, OH
- 4:30 PM Persistent N2 Disease After Induction Radio-Chemotherapy for Stage IIIa/IIIb–N2 Non-Small-Cell Lung Cancer: Prognostic Stratification With Mediastinal Lymph Nodes Involvement
E. Meacci, G. Cusumano, T. Congedo, F. Lococo, S. Margaritora, P. Granone
Catholic University of Sacred Heart, Rome, Italy
- 4:45 PM Prognostic Factors in Isolated Pulmonary Colon–Rectal Metastases: Multivariate Analysis in 102 Patients Treated in a Single Institution
G. Cardillo, M. Di Martino, S. Treggiari, F. Carleo, F. M. Keinan, A. Forcione, M. Martelli
University Hospital of San Camillo Forlanini, Rome, Italy
- 5:00 PM Predictors of Major Morbidity and Mortality After Pneumonectomy for Benign or Malignant Disease Using an STS National Database
M. Shapir¹, S. J. Swanson², S. Sheng⁴, C. S. Chin¹, C. D. Wright³, T. S. Weiser², J. P. Wisnivesky¹
¹*Mount Sinai Medical Center, New York, NY*
²*Brigham and Women's Hospital, Boston, MA*
³*Massachusetts General Hospital, Boston, MA*
⁴*Duke University, Durham, MA*

- 5:15 PM Validation of the Revised Cardiac Risk Index in Lung Resection Candidates
A. Brunelli¹, G. Varela², M. Salati¹, M. F. Jimenez², M. Refai¹, C. Pompili¹, A. Sabbatini¹
¹*Combined Hospitals of Ancona, Ancona, Italy*
²*Salamanca University Hospital, Salamanca, Spain*
- 5:30 PM Malignant Pleural Mesothelioma in Women: The Gender Role – A Single Center Report of 2,201 Patients
T. R. Tillemann, W. F. Powell, W. G. Richards, A. Winterkorn, L. Friedman, D. J. Sugarbaker
Brigham and Women's Hospital, Boston, MA

1:45 PM – 2:45 PM

Parallel Surgical Forum II: General Thoracic II

Moderators: *Ross M. Bremner, Phoenix, AZ and Gaetano Rocco, Naples, Italy*

- 1:45 PM An Acuity Adaptable Patient Care Unit Improves Surgical Outcomes in Patients Undergoing Major Pulmonary Resections
M. Hennon, T. L. Weigel, A. Kotbari
University of Wisconsin Hospital and Clinics, Madison, WI
- 2:00 PM Technical Aspects and Outcomes of Tracheobronchoplasty for Severe Tracheobronchomalacia
S. P. Gangadharan¹, A. Majid¹, S. K. Ashiku², C. T. Bakbos¹, M. S. Kent¹, M. M. DeCamp¹, A. Ernst¹
¹*Beth Israel Deaconess Medical Center, Boston, MA*
²*Kaiser–Permanente Walnut Creek, Walnut Creek, CA*
- 2:15 PM Separating the Wheat From the Chaff: Is it Time for A Model That Predicts Benign Disease in Patients With Pulmonary Nodules?
J. M. Isbell¹, S. Deppen¹, P. P. Massion¹, S. L. Deming¹, M. McPheeters¹, E. S. Lambrigh¹, J. C. Nesbitt¹, A. Dawes¹, J. B. Putnam¹, E. L. Grogan¹, D. R. Jones²
¹*Vanderbilt University, Nashville, TN*
²*University of Virginia, Charlottesville, VA*
- 2:30 PM Laryngeal Split and Rib Cartilage Interpositional Grafting for Glottic-Subglottic Stenosis in Adults: Long-Term Outcome
R. M. Terra, H. Minamoto, B. J. Bibas, T. R. Nadai, P. M. Pego–Fernandes, F. B. Jatene
University of São Paulo Medical School, São Paulo, Brazil

2:45 PM – 3:30 PM

Break – Visit Exhibits and Scientific Posters

3:30 PM – 5:45 PM

Parallel Surgical Forum II: General Thoracic II (Continued)

Moderators: *David H. Harpole, Jr., Durham, NC and Scott J. Swanson, Boston, MA*

- 3:30 PM A Scoring System to Predict the Risk of Prolonged Air Leak After Lobectomy
A. Brunelli¹, G. Varela², M. Refai¹, M. F. Jimenez², C. Pompili¹, A. Sabbatini¹, J. L. Aranda²
¹*Combined Hospitals of Ancona, Ancona, Italy*
²*Salamanca University Hospital, Salamanca, Spain*
- 3:45 PM Surgical Lung Biopsy for Diffuse Lung Disease: A Tool or a Weapon?
S. Defranchi, A. Bertolotti, R. R. Favaloro, J. Caneva, J. M. Osses, C. Vigliano
Favaloro Foundation, Buenos Aires, Argentina
- 4:00 PM Resection of Lung Cancer in Lymphoma Survivors
M. P. Kim, A. Correa, C. Moran, J. Erasmus, W. L. Hofstetter, R. J. Mehran, D. C. Rice, G. L. Walsh, A. A. Vaporciyan, S. G. Swisher, J. A. Roth
University of Texas, Houston, TX

- 4:15 PM Sustained Air Sealing Efficacy of a Sealing Patch in Pulmonary Lobectomy
G. Marta¹, F. Facciolo², L. Ladegaard³, H. Dienemann⁴, A. Csekeo⁵, F. Rea⁶, S. Dango⁷, L. Spaggiari⁸, V. Tetens⁹, W. Klepetko¹
¹Vienna University Hospital, Vienna, Austria
²Regina Elena National Cancer Institute of Rome, Rome, Italy
³Odense University Hospital, Odense, Denmark
⁴University Thoracic Clinic Heidelberg, Heidelberg, Germany
⁵Koranyi National Institute, Budapest, Hungary
⁶Thoracic Surgery University of Padua, Padua, Italy
⁷Albert Ludwigs University Freiburg, Freiburg, Germany
⁸European Institute of Oncology, Milano, Italy
⁹Nycomed, Roskilde, Denmark
- 4:30 PM Lung Volume Reduction Surgery Using the NETT Selection Criteria
M. Ginsburg¹, B. M. Thomasbarw¹, Y. Chun¹, A. M. DiMango¹, R. A. Maxfield¹, M. Bartels¹, P. A. Jellen¹, W. A. Bulman¹, D. L. Lederer², J. H. Austin¹, F. L. Brogan², L. A. Gorenstein¹, J. R. Sonett¹
¹Columbia University, New York, NY
²New York Presbyterian Hospital, New York, NY
- 4:45 PM Systematic Classification of Morbidity and Mortality Following Thoracic Surgery
A. J. Seely¹, J. Ivanovic², J. Threder², A. AlHussaini¹, D. Alshehab¹, T. Ramsay², D. E. Maziak¹, F. Shamji¹, R. Sundaresan¹
¹University of Ottawa, Ottawa, Canada
²Ottawa Hospital Research Institute, Ottawa, Canada
- 5:00 PM Oncologic Outcomes Following Surgical Resection of Subcentimeter Stage IA Non-Small Cell Lung Cancer (NSCLC): A Comparison of Lobectomy, Segmentectomy, and Wedge Resection
M. Schubert, A. Kilic, R. Pereira y Silva, B. L. Pettiford, S. Gilbert, D. O. Wilson, J. D. Luketich, R. J. Landreneau
University of Pittsburgh Medical Center, Pittsburgh, PA
- 5:15 PM Predictors of Cervical and Recurrent Laryngeal Lymph Node Metastases From Esophageal Cancer: When is Dissection of the Third Field Necessary?
B. M. Stiles, S. Paul, J. Port, P. C. Lee, J. Saunders, N. K. Altorki
Weill Cornell Medical Center, New York, NY
- 5:30 PM Robotic Anatomic Lobectomy: 200 Consecutive Cases at One Institution
F. Gharagozloo, M. Margolis, B. J. Tempesta
George Washington University Medical Center, Washington, DC
- 2:15 PM Mechanisms of Recurrent Regurgitation After Valve Repair for Prolapsed Mitral Valve Disease
T. Shimokawa, H. Kasegarwa, S. Matsuyama, Y. Katayama, S. Manabe, M. Tabata, T. Fukui, S. Takanashi
Sakakibara Heart Institute, Fuchu, Japan
- 2:30 PM Should Patients With Degenerative Mitral Regurgitation Delay Surgery Until Symptoms Develop?
A. M. Gillinov, K. M. George, E. H. Blackstone, P. L. Houghtaling, E. R. Nowicki, A. Jayaraman, L. G. Svensson, T. Mihaljevic, D. R. Johnston, J. F. Sabik, B. W. Lytle
Cleveland Clinic, Cleveland, OH
- 2:45 PM The Impact of Mitral Valve Repair for Mild (Grade 2) Ischemic Mitral Regurgitation on Long-Term Cardiac Events
N. Morimoto, N. Izawa, S. Miyahara, H. Murakami, K. Nakagiri, M. Yoshida, N. Mukohara
Himeji Cardiovascular Center, Himeji, Japan
- 3:00 PM Does Urgent/Emergent Status Influence Choice in Mitral Valve Operations? An Analysis of Outcomes From the Virginia Cardiac Surgery Quality Initiative
D. J. LaPar, S. A. Hennessy, E. Fonner, J. A. Kern, I. L. Kron, G. Ailawadi
University of Virginia, Charlottesville, VA

3:15 PM - 4:00 PM

Break - Visit Exhibits and Scientific Posters

4:00 PM - 5:45 PM

Parallel Surgical Forum III: Adult Cardiac I (continued)

Moderators: David A. Fullerton, Aurora, CO and Walter H. Merrill, Jackson, MS

1:45 PM - 3:15 PM

Parallel Surgical Forum III: Adult Cardiac I

Moderators: John V. Conte, Baltimore, MD and Patrick M. McCarthy, Chicago, IL

- 1:45 PM Predictors of Mitral Valve Repair: Clinical and Surgeon Factors
S. F. Bolling¹, S. M. O'Brien³, J. Brennan³, S. Li³, R. L. Prager¹, J. S. Gammie²
¹University of Michigan Hospital, Ann Arbor, MI
²University of Maryland, Baltimore, MD
³Duke University, Durham, NC
- 2:00 PM Minimally Invasive Versus Sternotomy Approach for Mitral Valve Surgery: A Propensity Analysis
A. Iribarne, M. J. Russo, K. N. Hong, A. Karpenko, F. H. Cheema, T. Umann, M. C. Oz, C. R. Smith, M. Argenziano
Columbia University Medical Center, New York, NY
- 4:00 PM Reoperative Valve Surgery in the Elderly: Predictors of Short-Term Risk and Long-Term Survival
L. Balsam, E. A. Grossi, G. A. Crooke, C. F. Schwartz, G. H. Ribakove, A. T. Culliford, A. C. Galloway
NYU School of Medicine, New York, NY
- 4:15 PM Impact of Preoperative Renal Dysfunction on Long-Term Survival for Patients Undergoing Aortic Valve Replacement
V. H. Thourani, A. B. Dara, P. Kilgo, O. M. Lattouf, J. D. Puskas, E. P. Chen, W. A. Cooper, J. Vega, C. D. Morris, T. A. Vassiliades, R. A. Guyton
Emory University Hospital Midtown, Atlanta, GA
- 4:30 PM Dual Blockade of Renin-Angiotensin System Promotes Left Ventricular Hypertrophy Regression in Patents With Patient-Prosthesis Mismatch Following Aortic Valve Replacement
U. Benedetto, E. Angeloni, S. Refice, R. Sinatra
University of Rome, Rome, Italy
- 4:45 PM Durability of Porcine Bioroots in Younger Patients With Aortic Root Pathology: A Propensity Matched Comparison With Composite Mechanical Roots
N. D. Desai, W. Y. Szeto, A. Zeeshan, D. Brown, A. Pochettino, F. McCarthy, P. Moeller, J. E. Bavaria
University of Pennsylvania, Philadelphia, PA
- 5:00 PM Moderate Aortic Stenosis in CABG Patients Over 70 Years Old: To Replace or not to Replace?
F. Dagenais, P. Mathieu, P. Voisine
Laval University, Quebec, Canada

5:15 PM Changing Outcome Characteristics of Multiple Valve Surgery: A 15-Year Perspective
R. Lee¹, S. Li², J. S. Rankin³, S. O'Brien⁴, J. S. Gammie⁵, P. M. McCarthy¹, F. H. Edwards⁶
¹Northwestern University, Chicago, IL
²Duke Clinical Research Institute, Durham, NC
³Vanderbilt University, Nashville, TN
⁴Labey Clinic, Burlington, MA
⁵University of Maryland Medical Center, Baltimore, MD
⁶University of Florida, Jacksonville, FL

5:30 PM Transapical Aortic Valve Implantation in Very High-Risk Patients With Aortic Valve Stenosis: A Single Center Experience With 120 Patients
M. B. Pasic, S. Dreysse, S. Buz, T. Drews, A. Unbehaun, M. Kukucka, A. Mladenow, R. Hetzer
German Heart Institute Berlin, Germany

1:45 PM – 3:30 PM
Parallel Surgical Forum IV: Adult Cardiac II

Moderators: *Jennifer S. Lawton, St. Louis, MO and Joseph F. Sabik, III, Cleveland, OH*

1:45 PM The Impact of Hospital-Specific Report Cards on CABG Volume
T. R. McLean
Eastern Kansas VA Healthcare System, Leavenworth, KS

2:00 PM A Propensity-Matched Comparison of Arterial Y-Composite Grafts Anastomosed to the Left Internal Thoracic Artery: Right Internal Thoracic Artery Versus Right Gastroepiploic Artery
K. Cho¹, J. Lee², H. Hwang², D. Jeong², K. Kim²
¹Halla General Hospital, Jeju-City, South Korea
²Seoul National University Hospital, Seoul, South Korea

2:15 PM Consumer Comprehension of Surgeon Performance Data for Coronary Bypass (CABG) Procedures
K. Donelan¹, R. S. Rogers¹, A. Eisenbauer², E. Mort¹, A. K. Agnihotri¹
¹Massachusetts General Hospital, Boston, MA
²Brigham and Women's Hospital, Boston, MA

2:30 PM Off-Pump and On-Pump Coronary Artery Bypass are Associated With Similar Graft Patency, Myocardial Ischemia and Freedom From Reintervention: Long-Term Follow-Up of a Randomized Trial
J. D. Puskas, W. H. Williams, R. O'Donnell, R. E. Patterson, S. R. Sigman, A. Smith, K. T. Bai², P. Kilgo, R. A. Guyton
Emory University, Atlanta, GA

2:45 PM Repeated Percutaneous Coronary Intervention as a Risk for Subsequent Coronary Artery Bypass Surgery
G. Sakaguchi, T. Shimamoto, T. Komiya
Kurashiki Central Hospital, Kurashiki City, Japan

3:00 PM On-Pump Versus Off-Pump Surgical Revascularization in Patients With Acute Coronary Syndromes: Analysis From the Acute Catheterization and Urgent Intervention Triage Strategy (ACUITY) Trial
Y. Ben-Gal¹, R. Mehran¹, C. Smith¹, J. W. Moses¹, E. Nikolsky², M. Williams¹, M. Argenziano¹, G. Weisz¹, G. W. Stone¹
¹Columbia University Medical Center, New York, NY
²Cardiovascular Research Foundation, New York, NY

3:15 PM Incidence, Determinants, and Outcome Effects of Deep Vein Thrombosis in Cardiac Surgery: A Prospective Observational Study
T. A. Schwann¹, L. Kistler², M. Engoren¹, R. H. Habib¹
¹St. Vincent Mercy Medical Center, Toledo, OH
²University of Toledo, Toledo, OH

3:30 PM – 4:15 PM
Break – Visit Exhibits and Scientific Posters

4:15 PM – 5:45 PM
Parallel Surgical Forum IV: Adult Cardiac II (Continued)

Moderators: *Francis D. Pagani, Ann Arbor, MI and Sara J. Shumway, Minneapolis, MN*

4:15 PM Continuous Flow LVAD Recipients Uniformly Develop Impaired Von Willebrand Factor Platelet Binding Ability
N. R. Villamizar¹, V. Piacentino¹, R. Sharma¹, J. R. Wu¹, L. D. Joyce², D. Chen², W. Thomas², D. Bowles¹, G. Arepally¹, C. Milano¹, S. Crow²
¹Duke University Medical Center, Durham, NC
²Mayo Clinic, Rochester, MN

4:30 PM Endoscopic Thoracic Sympathectomy as a Novel Surgical Treatment for Dilated Cardiomyopathy: Initial Results of a Phase I Clinical Trial
P. M. Pego – Fernandes, L. Moreira, G. E. Souza, E. A. Bocchi, F. Bacal, N. Stolf, F. B. Jatene
College of Medicine of the University of São Paulo, São Paulo, Brazil

4:45 PM Predicting Post-Heart Transplant Survival Using Pre-Transplant Risk Factors: Who is too High Risk?
M. J. Russo¹, A. Iribarne¹, K. N. Hong¹, R. Davies¹, H. Takayama¹, M. Argenziano¹, B. Ramlawi², M. R. Williams¹, A. S. Stewart¹, A. Gelijs², D. M. Mancini², Y. Naka¹
¹Columbia University Medical Center, New York, NY
²Mount Sinai Medical Center, New York, NY

5:00 PM Impact of Tricuspid Valve Regurgitation in Patients With Implantable Left Ventricular Assist Device Support
V. Piacentino, M. L. Williams, T. Depp, P. Egan, J. D. Pal, R. Sharma, K. Garcia-Huerta, S. Stinnett, M. H. Watson, N. R. Villamizar, C. Cohen, L. Blue, M. Swaminathan, J. Rogers, C. Milano
Duke University Medical Center, Durham, NC

5:15 PM Should Graft Failure Recipients be Retransplanted Within 90 Days of a Previous Transplant?
K. N. Hong, M. J. Russo, A. Iribarne, R. Davies, H. Takayama, M. R. Williams, D. Ascheim, A. S. Stewart, M. Argenziano, Y. Naka
Columbia University Medical Center, New York, NY

5:30 PM Angiographic Predictors of Hemodynamic Improvement After Pulmonary Endarterectomy
T. Kunihara, M. Möller, F. Langer, D. Tscholl, D. Aicher, H. Schafers
University Hospital Homburg, Homburg, Germany

1:45 PM – 3:00 PM
Parallel Surgical Forum V: Congenital

Moderators: *Joseph M. Forbess, Dallas, TX and John E. Mayer, Jr., Boston, MA*

1:45 PM Midterm Results of 170 Single Institutional Contegra Implantations for Reconstruction of the Right Ventricular Outflow Tract
H. Dave, O. Mueggler, M. Comber, B. Enodien, G. Nikolaou, D. Bettex, U. Bauersfeld, R. Pretre
University Children's Hospital Zurich, Zurich, Switzerland

2:00 PM Decellularized Cryopreserved Valved Allografts Compared to Standard Allografts: Are They Really Better?
P. T. Burch¹, R. Holubkov¹, C. T. Sower¹, R. E. Shaddy², J. A. Hawkins¹
¹Primary Children's Medical Center and the University of Utah, Salt Lake City, UT
²Children's Hospital of Philadelphia, Philadelphia, PA

2:15 PM Pulmonary Homograft Monocusp Reconstruction of the Right Ventricular Outflow Tract: Outcomes to the Intermediate Term
D. P. Nussbaum, D. S. Nath, C. Yurko, O. M. Ragab, A. J. Shin, V. A. Starnes, W. J. Wells
Childrens Hospital Los Angeles — University of Southern California Keck School of Medicine, Los Angeles, CA

2:30 PM The Increasing Use of Mechanical Pulmonary Valve Replacement Over a 40-Year Period
J. M. Stulak, J. Dearani, H. M. Burkhart, H. Connolly, C. A. Warnes, R. M. Suri, H. V. Schaff
Mayo Clinic College of Medicine, Rochester, MN

2:45 PM Performance of Bicuspidized Pulmonary Allografts Compared to Standard Trileaflet Pulmonary Allografts
T. Shib, J. G. Gurney, E. L. Bove, J. C. Hirsch, E. J. Devaney, R. G. Ohye
University of Michigan, Ann Arbor, MI

3:00 PM – 3:45 PM
Break – Visit Exhibits and Scientific Posters

3:45 PM – 5:45 PM
Parallel Surgical Forum V: Congenital (continued)

Moderators: *J. William Gaynor, Philadelphia, PA and Jeffrey S. Heinle, Houston, TX*

3:45 PM Contemporary Patterns of Management of Tetralogy of Fallot: Data From the STS National Database
H. F. Al Habib¹, J. P. Jacobs², C. Mavroudis³, C. I. Tchervenkov⁴, S. M. O'Brien⁴, M. L. Jacobs³
¹*Montreal Children's Hospital, Montreal, QC, Canada*
²*Congenital Heart Institute of Florida (CHIF), Cardiac Surgical Associates of Florida (CSAoF), University of South Florida (USF), All Children's Hospital, Children's Hospital of Tampa, St. Petersburg and Tampa, FL*
³*Cleveland Clinic, Case Western Reserve University, Cleveland, OH*
⁴*Duke Clinical Research Institute (DCRI), Durham, NC*

4:00 PM Risk Factors for Surgical Site Infection After Cardiac Surgery in Children
J. M. Costello, D. A. Graham, D. F. Morrow, J. Morrow, G. Potter-Bynoe, T. J. Sandora, F. A. Pigula, P. C. Laussen
Children's Hospital Boston, Boston, MA

4:15 PM Tissue Engineered Vascular Grafts: The Role of Autologous Bone Marrow Cell Seeding in Post-Implantation Remodeling
N. Hibino, Y. Naito, G. Villalona, E. McGillicuddy, T. Yi, C. K. Breuer, T. Shinoka
Yale University, New Haven, CT

4:30 PM Additional Malformation of the Atrioventricular Valve (AVV) Predisposing to Residual Regurgitation and Stenosis in Patients With Atrioventricular Septal Defects (CAVSD)
M. Ando, Y. Takahashi
Sakakibara Heart Institute, Tokyo, Japan

4:45 PM Mitral Valve Growth After Stabilization of Posterior Annulus With Untreated Autologous Pericardial Strip in Children With Mitral Valve Insufficiency
E. B. Delmo Walter¹, H. Siniawski², S. Ovroutski², R. Hetzer²
¹*Children's Hospital Boston/Harvard Medical School, Boston, MA*
²*German Heart Institute Berlin, Germany*

5:00 PM Interventional Trans-Catheter Fontan Completion: Mid-Term Results
B. Alsoufi, F. Fadley, A. Awan, Z. Y. Al-Halees, M. Al-Ahmadi, A. Osman, A. Kalloghlian, C. C. Canver
King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia

5:15 PM Scoring System for Predicting Serious Morbidity After Revision Fontan Surgery
H. Vohra, G. R. Veldtman, R. DeSilva, Z. Ahmad, S. Badle, R. Cope, A. P. Salmon, M. P. Haw
Southampton University Hospitals, Southampton, United Kingdom

5:30 PM Hypoplastic Left Heart Syndrome and Norwood Palliation: Is the Variant Mitral Stenosis With Aortic Atresia a Significant Predictor of Mortality?
A. C. Polimenakos, S. Sathanandam, C. El Zein, D. Roberson, R. S. Higgins, M. N. Ibarwi
Rush University/Advocate Hope Children's Hospital, Chicago, IL



7:00 PM – 10:00 PM
Social Event: Fort Lauderdale Antique Car Museum

Travel back in time and relive America's love affair with the automobile at the STS Tuesday Evening Dinner Reception at the Fort Lauderdale Antique Car Museum. Enjoy a buffet dinner and glass of wine while wandering through the museum and viewing some of the most impressive automobiles of past years. The museum houses 22 pre-war Packard motor cars, the Rolls Royce of American automobiles. Displayed in a reproduced Packard showroom, the museum also has thousands of vintage pieces of Packard memorabilia such as classic dashboard clocks, intricate hood ornaments, and custom gear shift knobs. In addition, the museum gallery and library, dedicated to Franklin D. Roosevelt, features a display of mementos, audiotapes, and video footage featuring Roosevelt's life. Don't miss this fantastic opportunity to enjoy an evening of history, mingling with peers and some truly incredible machines!

STS University Courses TICKET

7:00 AM – 9:30 AM and Repeated 10:00AM – 12:30 PM

Course 1: Thoracoscopic Lobectomy

Course Director: *Thomas A. D'Amico, Durham, NC*

Course Description: This course is designed to teach the fundamentals of thoracoscopic lobectomy using practical experience with a porcine simulator model. The session will include several edited videos highlighting the technical aspects of thoracoscopic lobectomy. Following the brief didactic session, there will be a practical laboratory experience utilizing a novel tissue model and state-of-the-art thoracoscopic instrumentation, providing experience with thoracoscopic lobectomy under close supervision with experienced proctors. The goal of this session will be to demonstrate the technical aspects of the procedure, including positioning, instrumentation, and troubleshooting difficult situations. Each participant will have the opportunity to complete an upper and lower lobectomy.

Learning Objectives:

Upon completion of this program, participants will be able to:

- Define complete thoracoscopic anatomic lobectomy.
- Outline strategies and instrumentation needed for a complete thoracoscopic anatomic lobectomy.
- Describe the technical aspects of thoracoscopic hilar dissection and mediastinal lymph node dissection.
- Discuss the management of difficult clinical situations.
- Develop a strategy to incorporate thoracoscopic lobectomy into their practice.
- Demonstrate techniques for performing a thoracoscopic lobectomy.

Course 2: Mitral Valve Repair: Minimally Invasive Approaches and Repair Techniques

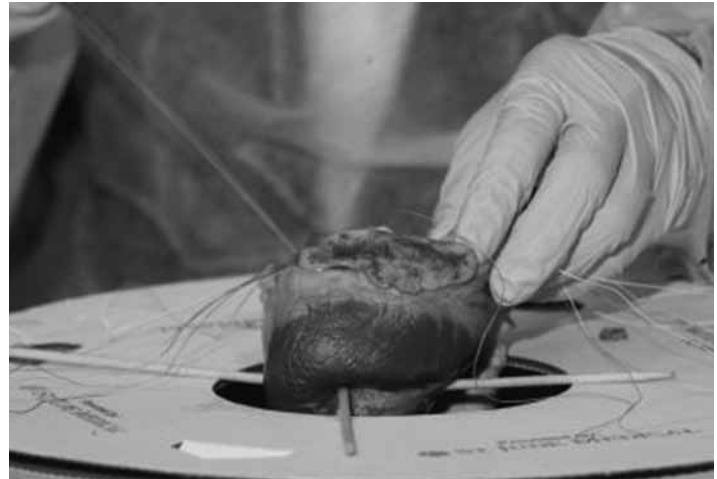
Course Director: *A. Marc Gillinov, Cleveland, OH*

Course Description: This course on surgical mitral valve repair provides the participant with a detailed review of simplified repair techniques and minimally invasive approaches to the mitral valve. The faculty will provide detailed information that will enable participants to perform both simple and complex repairs, focusing on surgical technique and surgical decision-making (i.e. which technique in which patient). In addition, the faculty will provide detailed instruction on the application of minimally invasive approaches to the mitral valve and robotic approaches, including their advantages and limitations, emphasizing the clinical pearls and nuances that are critical to the successful application of these approaches. Surgical videos will be used to illustrate surgical technique.

Learning Objectives:

Upon completion of this program, participants will be able to:

- Apply simplified repair techniques for correction of anterior or posterior leaflet prolapse.
- Identify patients who are suitable for a right thoracic approach to the mitral valve.
- Discuss the key technical maneuvers employed when the mitral valve is approached from the right chest.



Course 3: Valve-Sparing Aortic Root Replacement

Course Director: *Duke E. Cameron, Baltimore, MD*

Course Description: This course will provide a comprehensive review of valve sparing aortic root replacement (VSRR), a procedure which has many technical nuances that are critical to a successful surgical outcome. Faculty members will cover everything from basic anatomy and physiology of the aortic root to technical aspects of the procedure, its evolution, late results and specific complications. Special attention will be given to sizing and choice of various root prostheses. A "How I Do It" wet lab using porcine hearts will provide the opportunity for course participants to work with several experts in a personalized session.

Learning Objectives:

Upon completion of this program, participants will be able to:

- Identify the anatomy and physiology of the aortic root.
- Describe the indications, evolution, and results of VSRR.
- Apply different methods for choosing a graft size.
- Discuss the management of late complications of VSRR.

Course 4: Mechanical Circulatory Support for Cardiogenic Shock

Course Director: *Edwin C. McGee, Chicago, IL*

Course Description: Because many non-transplant programs see patients with acute cardiogenic shock and chronic heart failure, this course will cover the basic knowledge of mechanical assist devices currently available for the treatment of these diseases. Device selection, surgical techniques, patient management and outcomes for acute MI, postcardiotomy shock and myocardial recovery will be discussed. Several hands-on stations will demonstrate the differences and allow the participants to perform left ventricular, left atrial and pulmonary vein cannulation with temporary devices for acute cardiogenic shock. Continuous and pulsatile flow pumps will be functioning on mock loops for observation and demonstration. The current devices, surgical techniques, outcomes and requirements for mechanical circulatory support for chronic heart failure will be reviewed and demonstrated in mock loops. At the completion of the course, the participant will have additional knowledge and hands-on experience with continuous flow and pulsatile pumps for both temporary and chronic support.

Learning Objectives:

Upon completion of this program, participants will be able to:

- Describe the differences between pulsatile and continuous flow pumps.
- Perform LV apex and atrial cannulation.
- Discuss current outcomes for acute cardiogenic shock, bridge to transplant and destination therapy.
- Discuss how to establish and manage a VAD program.



Course 5: Advanced Coronary Revascularization Techniques

Course Director: *Joseph F. Sabik, III, Cleveland, OH*

Course Description: This course will provide an update on advances in the surgical treatment of coronary artery disease through didactic and hands-on sessions. In addition to informing participants about the 2009 Appropriateness Criteria for Coronary Revascularization released by ACCF/SCAI/STS/AATS/AHA/ASNC, faculty members will also cover the latest updates involving coronary artery bypass techniques. Technology, procedures and guidelines are evolving rapidly, and a better understanding of current trends relating to coronary revascularization will help guide a more effective, efficient, and equitable allocation of health care resources, and ultimately, better patient outcomes.

The course will begin with 10 minute presentations on multiple arterial coronary revascularization; off-pump coronary surgery; endoscopic vein and radial harvesting; multivessel, small thoracotomy coronary revascularization (on and off-pump); robotic assisted coronary revascularization; and proximal and distal anastomotic connectors. Following the didactic portion, a hands-on wet lab will provide training in cardiac positioning and stabilization techniques for OPCAB; endoscopic radial and saphenous vein harvesting; bilateral ITA harvesting techniques; multivessel small thoracotomy CABG; and the use of clampless proximal and distal anastomotic connectors and devices.

Learning Objectives:

Upon completion of this program, participants will be able to:

- Discuss the indications and techniques of multiple arterial coronary revascularization, off-pump coronary surgery, multivessel, small thoracotomy coronary surgery, and robotic assisted coronary surgery.
- Discuss the indications and techniques of endoscopic vein and radial harvesting.
- Discuss the indications and techniques of using clampless proximal and distal anastomotic connectors and devices.

Course 6: Pacemaker Lead Removal/ Electrophysiology for the Cardiac Surgeon

Course Director: *Marc R. Moon, St. Louis, MO*

Course Description: This course is designed to teach advanced surgical techniques for percutaneous and open pacemaker and defibrillator placement and removal of chronically-implanted leads. The course will familiarize the attendee with the numerous guidewires, sheaths, leads, subcutaneous coils, locking stylets, and both laser and non-laser lead extraction systems available to the physician interested in advanced surgical electrophysiology. The course will include a brief didactic session during which experts in the field will discuss the indications and technical aspects for removal of chronically-implanted leads, indications for defibrillator placement and revision, and advanced implantation techniques including azygous lead, coronary sinus lead, subcutaneous array, and epicardial lead and patch placement. Following the brief didactic session, there will be a practical laboratory experience including a simulator for lead implantation and removal. An interactive session will then offer each participant hands-on experience to manipulate and test the extensive variety of device-related instrumentation available to safely and successfully complete these complex procedures. The goal of the course will be to demonstrate the technical aspects of these advanced electrophysiology procedures through both a didactic and interactive session including simulation.

Learning Objectives:

Upon completion of this program, participants will be able to:

- Describe the indications for placement, revision, and removal of percutaneous and open pacemaker and defibrillator leads and devices.
- Describe the technical aspects of device implantation and removal.
- Gain hands-on familiarity with the various device-related instrumentation required to perform these procedures (leads, stylets, sheaths, etc.).
- Discuss the management of complex lead and device issues including those specifically related to improving patient safety.

Course 7: Minimally Invasive Surgical Treatment of Atrial Fibrillation

Course Director: *Patrick M. McCarthy, Chicago, IL*

Course Description: This course will provide physicians and associated professionals with information on the latest surgical techniques for the treatment of atrial fibrillation. Current recommendations for surgical treatment options and patient management will be reviewed along with patient selection criteria to match the patient to the approach. Techniques for treatment of atrial fibrillation with minimally invasive thoracotomy and port access approaches using the latest technology for pulmonary vein and ganglionated plexi ablation and intraoperative testing will be presented. Panel discussion will provide dialogue with experts on when and how to perform surgical treatment of atrial fibrillation with concomitant procedures. Participants will be given hands-on instruction with a variety of the latest energy sources available to perform atrial fibrillation surgery. Wet lab stations will provide participants the ability to review anatomical targets and create lesions from various energy sources and examine the resulting scar lines.

Learning Objectives:

Upon completion of this program, participants will be able to:

- Discuss issues regarding management of patients undergoing surgical treatment of atrial fibrillation.
- Describe the adverse effects of pre-operative atrial fibrillation and how to determine surgical treatment options.
- Evaluate the stand-alone, minimally invasive surgical techniques to treat atrial fibrillation.
- Evaluate the state of the art energy sources for ablation lesions via hands-on analysis of equipment.



Course 8: Simulation in Cardiac Surgery Training

Course Director: *James I. Fann, Stanford, CA*

Course Description: Simulation-based learning has been proposed as a means to provide needed training and practice outside the operating room. Plastic/silicone and other synthetic simulators, considered “low-tech, low to moderate fidelity” are useful in developing basic surgical skills. Open “low-tech, high fidelity” surgical simulators, such as the wet-lab experience, can provide the individual with more advanced skills and good tissue or haptic response. Since not all aspects of surgery require simulation and given the time and cost of development, a selective approach to simulation can be employed. Because procedures in surgery can be partitioned into components and lead to the development of partial-task trainers, the priority in establishing cardiothoracic surgery simulation-based learning has been to provide the trainee with laboratory models that can replicate surgical procedures and portable simulators for deliberate and distributed practice outside the operating room. In order to achieve the educational objectives, simulation-based training must be incorporated formally in the residency program with scheduled courses and having the means to provide adequate materials, instructions for practice and formative feedback. To date, most cardiothoracic surgery resident training programs have not initiated a simulation program. This session will present the requirements for setting up and supporting a cardiac surgery simulation laboratory. In this session, participants will be introduced to and have hands-on experience with various cardiac surgery simulators. Using a combination of dry-lab and wet-lab, an effective simulation program can be established. The requirements for funding, setting up, and supporting such a simulation laboratory will be discussed. Performance assessment and the need for formative feedback will also be addressed.

Learning Objectives:

- Upon completion of this program, participants will be able to:
- Work with cardiac surgery simulators.
 - Set up a cardiac surgery simulation laboratory.
 - Use basic assessment tools.

Course 9: Endoscopic Intervention of the Esophagus

Course Director: *Daniel L. Miller, Atlanta, GA*

Course Description: Gastroesophageal reflux disease (GERD) affects over 40 percent of Americans. Barrett’s esophagus (BE) is a common pathologic finding on upper endoscopy and is a pre-malignant condition that is associated with GERD. A subset of patients with BE will progress to develop dysplasia or, of most concern, invasive adenocarcinoma. A number of endoscopic technologies and techniques are evolving to eliminate BE with or without dysplasia and offer the potential to avoid subsequent esophagectomy for high-grade dysplasia or cancer. The practicing thoracic surgeon should be well-versed in the appropriate application of such procedures, including the relative indications, contraindications, efficacy and risks. This course is intended to review the experience to date regarding the outcomes of these endoscopic therapies, comparing them to traditional esophagectomy, as well as to provide hands-on exposure to the devices and their application in various animate and inanimate models.

Learning Objectives:

Upon completion of this program, participants will be able to:

- Discuss issues relevant to patient selection for endoscopic treatment of Barrett’s Esophagus.
- Describe the options available for mucosal resection (ablation of Barrett’s Esophagus).
- Utilize various technologies available for endoscopic treatment of Barrett’s Esophagus.
- Describe the indications of stent placement in esophageal cancer patients.

Course 10: Tracheobronchial Interventions: New Tools for the Thoracic Surgeon

Course Directors: *Alberto L. de Hoyos, Chicago, IL and Sudish C. Murthy, Cleveland, OH*

Course Description: Successful management of tracheobronchial disease requires a thorough understanding of the techniques and tools available for intervention, including familiarity with both rigid and flexible applications, in order to provide the service that the patient needs. With a fundamental grasp of these basics, a variety of diseases can be effectively diagnosed and managed. Such processes include: malignant and benign tracheal stenosis, emphysema, difficult airway control, and lung cancer involving the central airways. This course is designed to introduce both thoracic surgeons and interventional pulmonologists to innovative approaches used in the diagnosis and management of tracheobronchial diseases. Course attendees will have the opportunity to gain hands-on experience with interventional bronchoscopic techniques, percutaneous tracheostomy, rigid bronchoscopy, placement of airway stents, cold and hot airway interventions and airway control with direct laryngoscopy.

Learning Objectives:

Upon completion of this program, participants will be able to:

- Deploy airway stents.
- Discuss hot and cold airway therapies.
- Discuss percutaneous tracheostomy.
- Successfully perform rigid bronchoscopy and suspension laryngoscopy.



Course 11: Congenital Course: Hybrid Procedures, Interventional Devices, Balloons and Catheters

Course Directors: *Gordon A. Cohen, Seattle, WA and Thomas K. Jones, Seattle, WA*

Course Description: The course is designed to familiarize cardiac surgeons with various technologies that have largely been limited to the cardiac catheterization laboratory. The recent emergence of hybrid procedures involving both surgical and interventional cardiology techniques has had a significant impact on the care of patients with congenital heart disease and has potential applications in adult cardiac surgery as well. As this era of hybrid care emerges, there is an increasing need for surgeons to be aware of the different modalities and equipment that interventional cardiologists use in the cardiac catheterization laboratory. A thorough understanding of the different modalities and equipment that interventional cardiologists use will benefit surgeons in the development of hybrid cardiac surgical procedures. Course participants will have the opportunity for hands-on instruction of the different catheter based devices, stents and balloons that are part of the armamentarium of the interventional cardiologist. In addition, there will be discussion on the various hybrid surgical procedures using the demonstrated technology. At each station, participants will have the opportunity to handle the interventional devices and there will be corresponding video documentation of interventional and hybrid procedures.

Learning Objectives:

Upon completion of this program, participants will be able to:

- Discuss the complementary role that transcatheter treatments offer in the care of patients with congenital heart disease and the potential application in ischemic and acquired heart disease.
- Identify specific transcatheter devices including indications, risks, benefits and alternatives.
- Explain which congenital and acquired heart diseases are amenable to hybrid surgical approaches.
- Discuss the requirements to establish a successful hybrid surgical program.

Course 12: Pain Management

Course Directors: *Traves D. Crabtree, St. Louis, MO and Todd L. Demmy, Buffalo, NY*

Course Description: This course will provide the participant with a working understanding of common methods used to reduce or control postoperative thoracic pain. An introductory didactic session will feature faculty with experience in regional analgesic therapy and evidence-based methods to reduce perioperative pain. Lectures will focus on the methods, risks, and benefits of intrapleural, paravertebral, epidural, and other anesthetic therapies. Methods to reduce nerve injury or stimulation from thoracotomy will also be presented. There will be an emphasis on pain management following both thoracotomy and VATS procedures, however, enhanced pain control after median sternotomy will be covered as well. The hands-on sessions will provide the participants with opportunities to examine and place various regional anesthetic delivery devices such as paravertebral catheters with portable infusion reservoirs. Another station will feature specialty chest catheters that reduce pain by design including those that deliver intrapleural anesthetics at the time of thoracotomy and specialty devices that facilitate placement during VATS procedures. Another station will allow for performance and discussion of various incisional techniques (i.e. axillary mini-thoracotomy, VATS, etc.) and their impact on post-surgical pain as well as reviewing chest tubes available for decreasing postoperative pain at the chest tube site. Surgeons will be able to practice specific nerve-sparing methods to reduce incisional pain at another practical station and discuss such strategies with course faculty for both open and thoracoscopic techniques.

Learning Objectives:

Upon completion of this program, participants will be able to:

- Describe new surgical approaches and modifications to traditional operations that reduce perioperative pain.
- Place paravertebral and intrapleural devices to deliver postoperative regional thoracic anesthetics.
- Perform modifications to traditional incisions or closures to reduce perioperative pain.

ADULT CARDIAC SCIENTIFIC POSTERS

Impact of Timing and Surgical Approach on Outcomes Following Mitral Valve Regurgitation Surgery

L. Stevens¹, E. Rodriguez², L. Nijong², E. Lebr², T. Ferguson², W. Chitwood²

¹Hospital of University of Montreal, Montreal, Canada

²East Carolina University, Greenville, NC

Do Short-Term Post-Transplant Outcomes Differ in Heart Transplant Recipients Bridged With Continuous and Pulsatile Flow Left Ventricular Assist Devices?

M. J. Russo¹, K. N. Hong², H. Takayama¹, K. Leitz¹, R. Davies¹, A. Iribarne¹, A. S. Stewart¹, M. R. Williams¹, B. Ramlawi¹, D. Ascheim², A. Gelijns², Y. Nakai²

¹Columbia University, New York, NY

²Mount Sinai Medical School, New York, NY

A Comparison of Aortic Root Enlargement Techniques and Stentless Valve Implantation for the Management of the Small Aortic Root

J. M. Lyons, J. D. Puskas, P. Kilgo, K. T. Baio, E. R. Lyons, R. A. Guyton, E. P. Chen

Emory University, Atlanta, GA

Reconsideration of Patient – Prosthesis Mismatch Definition From the Valve Effective Orifice Area Index

Y. Sakamoto¹, M. Yosbitake¹, H. Naganuma¹, K. Hasbimoto¹, K. Morita¹, K. Kinouchi¹, M. Yamazaki²

¹Jikei University School of Medicine, Tokyo, Japan

²Saitama Cardiovascular and Respiratory Center, Kumagaya, Japan

Clinical Results and Atrial Function Following Surgical Treatment of Lone Atrial Fibrillation

G. Bisleri¹, N. Berlinghieri¹, A. Manzato², P. Piccoli¹, A. Repossini¹, C. Muneretto¹

¹University of Brescia Medical School, Brescia, Italy

²Hospital Spedali Civili of Brescia, Brescia, Italy

Operative Strategy for Descending and Thoracoabdominal Aneurysm Repair With Preoperative Demonstration of the Adamkiewicz Artery Using Intra-Arterial Computed Tomography

K. Furukawa, S. Morita

Saga University, Saga, Japan

Surgical Thoracic Sympathectomy Induces Structural and Biomechanical Remodeling of the Thoracic Aorta in Pigs

D. C. Angouras¹, T. J. Dosiou¹, N. G. Kostomitsopoulos², C. A. Dimitriou², T. Manos², T. Chamogeorgakis³, C. K. Rokkas⁴, D. P. Sokolis²

¹Athens University School of Medicine, Athens, Greece

²Academy of Athens, Athens, Greece

Short- and Mid-Term Outcomes of Off-Pump Left Ventricular to Descending Aortic Conduit Bypass for the Relief of Aortic Stenosis in Adults

V. H. Thourani, A. B. Dara, W. B. Keeling, R. A. Guyton

Emory University Hospital Midtown, Atlanta, GA

Delivery of Combined Growth Factors by Genetically Engineered Myoblasts Improves Cardiac Function and Induces a Patent Vasculature in the Rat Failing Heart

M. Gmeiner, P. Paulus, R. Schaefer, N. Sela, M. Grimm, S. Aharinejad

Medical University of Vienna, Vienna, Austria

Transcatheter Aortic Valve Implantation Versus Conventional Aortic Valve Replacement: A Single Centre Experience

G. Michael, S. Chaubey, R. Dworakowski, E. Kapetanakis, A. El Gamel,

P. MacCarthy, M. Monaghan, O. Wendler

King's College Hospital, London, United Kingdom

Long-Term Survival for Bioprosthetic Valve Replacement is Similar to Mechanical Valve Replacement in Patients With Preoperative End Stage Renal Failure

V. H. Thourani, A. B. Dara, P. Kilgo, O. M. Lattouf, J. D. Puskas, E. P. Chen,

W. A. Cooper, J. Vega, C. D. Morris, T. A. Vassiliades, R. A. Guyton

Emory University Hospital Midtown, Atlanta, GA

Marrow Stromal Cells Differentiate Into Vasculature After Autologous Transplantation Into Ischemic Myocardium

Y. Zhou, S. Wang, Z. Yu, R. F. Hoyt, K. A. Horvath

National Heart Lung and Blood Institute, Bethesda, MD

The Future of Cardiac Surgery in Canada: A Workforce Simulation Model

C. Feindel¹, S. Vanderby², M. Carter², T. Latham², M. Ouzounian³, A. Hassan²,

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¹University Health Network, Toronto, Canada

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⁵Royal Columbian Hospital, Vancouver, Canada

What is the Optimal Revascularization Strategy in Patients With Liver Cirrhosis? Insights From CREDO Kyoto Registry

A. Marui, T. Kimura, S. Mirwa, K. Yamazaki, K. Minakata, T. Nakata, T. Ikeda,

T. Kita, R. Sakata

Kyoto University Graduate School of Medicine, Kyoto, Japan

Aortic Valve Repair With Ascending Aortic Aneurysms: Associated Lesions and Adjunctive Techniques

M. Boodhwani, L. de Kerchove, D. Glineur, J. Rubay, R. Verhelst, M. Van Dyck,

A. Pasquet, P. Noirhomme, G. El Khoury

Private Universities Saint – Luc, Brussels, Belgium

Concomitant Septal Myectomy at the Time of Aortic Valve Replacement for Aortic Stenosis

N. Kayalar, R. C. Daly, H. V. Schaff, T. M. Sundt, J. Dearani, S. J. Park

Mayo Clinic, Rochester, Rochester, MN

Transapical Aortic Valve Replacements Under Real-Time MRI Guidance: Experimental Results With Balloon Expandable and Self-Expanding Stents

K. A. Horvath, D. Mazilu, O. Kocaturk, M. Li

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Transcatheter Aortic Valve Implantation as the Treatment of Choice in Patients With Previous Open Heart Surgery

J. Strauch, P. Haldenwang, R. Pfister, E. Kubn, U. Hoppe, F. Baer, T. C. Wablers

University of Cologne, Cologne, Germany

Transapical Aortic Valve Implantation in Patients With Porcelain Aorta

J. Kempfert, A. Van Linden, G. Schuler, A. Linke, S. Lehmann, L. Lehmkuhl,

F. W. Mohr, T. Walther

Heart Center University of Leipzig, Leipzig, Germany

A Two-Stage Approach Reduces Risk of Paraplegia Following Repair of Extensive Thoracoabdominal Aneurysms

S. Zoli, C. D. Etz, F. Roder, R. M. Brenner, C. A. Bodian, G. Kleinman,

G. Di Luozzo, R. B. Griepp

Mount Sinai Medical Center, New York, NY

Helipported ECMO for Cardiogenic Shock Expands Cardiac Assist Surgical Programs

V. Gariboldi, D. Grisoli, N. Jaussaud, A. Riberi, V. Chalvignac, F. Kerbaul, F. Collart

Hospital of Timone, Marseille, France

Safe Surgical Pacemaker Lead Extraction

J. M. Kratz, J. M. Toole

Medical University of South Carolina, Charleston, SC

Saddle-Shaped Mitral Annuloplasty Increases Leaflet Coaptation Area After Repair for Myxomatous Disease

M. Vergnat, A. T. Cheung, S. J. Weiss, B. M. Jackson, M. A. Acker, J. H. Gorman, R. C. Gorman

University of Pennsylvania, Philadelphia, PA

Radial Artery Conduits Improve Long-Term Survival After Coronary Artery Bypass Surgery

R. F. Tranbaugh, K. R. Dimitrova, D. M. Hoffman, C. M. Geller, L. J. Harris, P. Stelzer, B. Cohen, P. Friedmann

Beth Israel Medical Center, New York, NY

Multi-Disciplinary Approach to Prevent Spinal Cord Injury After TEVAR for Distal Descending Aorta

H. Matsuda, H. Ogino, T. Fukuda, K. Minatoya, H. Sasaki, H. Tanaka, S. Sato, O. Iritani, J. Kobayashi

National Cardiovascular Center, Suita, Osaka, Japan

Quality of Life Changes in High Risk Surgical Candidates Treated by Transcatheter Aortic Valve Implantation

F. Maisano, M. Taramasso, I. Michev, S. Ferrarello, E. Dorigo, A. Zangrillo, A. Colombo, O. Alfieri

San Raffaele Scientific Institute, Milan, Italy

Leaflet Tethering not Annular Dilation is Responsible for Load-Dependent Exacerbations of Ischemic Mitral Regurgitation

M. Vergnat, M. Minakawa, J. D. Robb, M. Morita, R. C. Gorman, J. H. Gorman

University of Pennsylvania, Philadelphia, PA

Risk Factors Associated With Increased Mortality Following Tricuspid Valve Replacement: Mechanical Over Tissue Valves?

Y. Jeon, S. J. Park, H. V. Schaff, T. M. Sundt, R. C. Daly, J. Dearani, H. M. Burkhardt, R. M. Suri, K. Greason, R. A. Nishimura, Z. Li

Mayo Clinic, Rochester, MN

Spinal Cord Ischemia After Thoracic Aortic Endovascular Repair: Is Simple Coverage of the Intercostal Arteries the Reason?

B. Zipfel, S. Buz, R. Hammerschmidt, V. Dusterhöft, R. Hetzer

German Heart Institute Berlin, Berlin, Germany

Echo-Endoscope Biplane Navigation System for Endovascular Aneurysm RepairY. Inoue¹, R. Yozu²¹Siaseikai Utsunomiya Hospital, Utsunomiya, Japan²Keio University School of Medicine, Tokyo, Japan**Application of a "Hemispherical" Annuloplasty Frame to Repair of Experimental Aortic Valve Insufficiency**

J. S. Rankin, L. Beavan

Vanderbilt University, Nashville, TN

Perioperative Risks of Patients With Recent ST-Elevation Myocardial Infarction: A Comparison With Non-ST-Elevation Myocardial Infarction

L. Zhang, K. Kumar, B. Hiebert, M. Moon, R. Arora

University of Manitoba, Winnipeg, Canada

ST2 Biomarker Predicts One Year Mortality Among High Risk Patients Undergoing Coronary Artery Bypass Surgery

S. Henkin, P. Desai, A. Brown, P. Ziu, R. Poston

Boston University School of Medicine, Boston, MA

Late Stroke/TIA and Major Bleeding Events Following the Cox-Maze Procedure: Does the CHADS Score Have any Predictive Value?

N. Ad, L. Henry, S. Hunt, K. Schlauch

Inova Heart and Vascular Institute, Falls Church, VA

Fully Echo-Guided Transapical Aortic Valve Replacements

E. Ferrari, C. Sulzer, L. von Segesser

University Hospital of Vaud Lausanne (CHUV), Lausanne, Switzerland

Midterm Results After Endovascular Treatment of Acute, Complicated Type B Aortic Dissection

M. P. Ebrlich, J. Dumfarth, R. Gottardi, J. Holfeld, A. Juraszek, T. Dziodzio,

G. Sodeck, M. Funovics, M. Schoder, M. Grimm, M. Czerny

General Hospital Vienna, Vienna, Austria

CONGENITAL SCIENTIFIC POSTERS**Endovascular Stent-Graft Repair of Late Complications After Surgery for Aortic Coarctation**

B. Zipfel, P. Exwert, S. Buz, V. Dusterhöft, R. Hetzer

German Heart Institute Berlin, Berlin, Germany

Midterm Follow-Up of Porcine Xenografts for Redo Right Ventricular Outflow Tract Reconstruction in Young Adults

J. W. Brown, M. Ruzmetov, O. Yurdakok, M. D. Rodefeld, M. W. Turrentine

Indiana University School of Medicine, Indianapolis, IN

The Effects of Basic-FGF in an Animal Model of Acute Mechanically Induced Right Ventricular Hypertrophy

V. L. Vida, S. Speggorin, E. Faggin, A. Dedja, M. A. Padalino, G. Boccuzzo,

P. Pauletto, A. Angelini, O. Milanese, G. Thiene, G. Stellin

University of Padua, Padua, Italy

Age is a Risk Factor for Maladaptive Changes of the Pulmonary Root in Rats Exposed to Increased Pressure Loading

V. L. Vida, N. Maschietto, S. Rizzo, G. Boccuzzo, O. Milanese, G. Thiene, G. Stellin, C. Basso

University of Padua, Padua, Italy

The UltraMag Ventricular Assist Device Provides Hemodynamic Stability in a Strategy of Single Ventricle Palliation

M. P. Schiralli, A. N. Winterborn, R. Angona, K. Belmont, K. Jones, H. Wang, G. M. Alfieri, J. J. Gangemi

University of Rochester, Rochester, NY

Impact of Primary Sutureless Repair on Survival and Reintervention in Neonates and Infants With Mixed Total Anomalous Pulmonary Venous Drainage

O. Honjo, C. R. Atlin, B. C. Hamilton, N. Viola, J. G. Coles, G. S. Van Arsdell, C. A. Caldarone

The Hospital for Sick Children, Toronto, Canada

Use of Bosentan in Children With Single Ventricle Physiology and Elevated Pulmonary Pressures to Improve Fontan Candidacy

S. Seltzer, J. C. Alejos, B. L. Reemtsma

University of California Los Angeles, Los Angeles, CA

Cardiac Surgery After PDA Stenting In Duct - Depending Pulmonary Circulation

S. Speggorin, V. L. Vida, M. A. Padalino, M. Lo Rito, N. Maschietto, R. Biffanti,

A. Cerutti, O. Milanese, G. Stellin

University of Padua, Padua, Italy

Contemporary Treatment of Isolated VSD in Children: Amplatzer Versus Surgical Closure

P. Oses¹, G. Brugada¹, N. Hugues¹, S. Vobecky¹, N. Dabdab¹, M. Pellerin², J. Miro¹, N. Poirier¹

¹St. Justine Hospital, Montreal, Canada

²Heart Institute of Montreal, Montreal, Canada

Impact of Inspired Oxygen Concentration on Cerebral Blood Flow in Univentricular Circulation

S. Haydar¹, B. Willis¹, D. H. Frakes², E. K. Rhee¹, J. J. Nigro¹

¹St. Joseph's Hospital and Medical Center, Phoenix, AZ

²Arizona State University, Phoenix, AZ

In Vivo Implantation of a Functional Tissue Engineered Stentless Pulmonary Valve Using Bone-Marrow-Derived Mesenchymal Stem Cells and Circulating Endothelial Progenitor Cells

E. B. Delmo Walter¹, V. L. Sales¹, B. Sill¹, D. Martin², E. Rusk², S. Emami¹, C. Estrada¹, R. Hetzer³, J. E. Mayer¹

¹Children's Hospital Boston/Harvard Medical School, Boston, MA

²TEPHA, Inc, Cambridge, MA

³German Heart Institute Berlin, Berlin, Germany

Does a Biodegradable Ring Enable Growth of the Native Tricuspid Annulus?

W. Mrowczynski¹, B. Mrozinski¹, B. H. Walpot², M. Parwelec-Wojtalik¹, A. Kalangos², M. Wojtalik¹

¹Poznan University of Medical Sciences, Poznan, Poland

²University Hospitals of Geneva, Geneva, Switzerland

Viscous Impeller Pump (VIP) for Cavopulmonary Assist in a Univentricular Fontan Circulation: Performance Predictions and Analysis

G. Giridharan², S. Koenig², J. Graham², B. Coats³, J. Chen³, S. Frankel³, M. D. Rodefeld¹

¹Indiana University School of Medicine, Indianapolis, IN

²University of Louisville, Louisville, KY

³Purdue University, West Lafayette, IN

Blood Arginine-Vasopressin Concentration in Patients Undergoing Pediatric Cardiac Surgery

V. Chirumamilla, A. Vivencio, A. DeAnda, S. Weinstein

Montefiore Medical Center-Albert Einstein College of Medicine, Bronx, NY

Fetal Right Ventricular Myocardial Function is Better Preserved by Fibrillatory Arrest During Fetal Cardiac Bypass

O. Petrucci¹, R. Baker², C. Lam², C. Reed², J. Duffy², P. Egbtesady²

¹State University of Campinas, Campinas, Brazil

²Cincinnati Children's Hospital Medical Center, Cincinnati, OH

Posterior Leaflet Obliteration: A Simple, Reproducible and Effective Technique for Tricuspid Valve Repair In Hypoplastic Left Heart Syndrome

D. C. Dinh, J. G. Gurney, J. E. Donohue, E. L. Bove, J. C. Hirsch, E. J. Devaney, R. G. Ohye

University of Michigan, Ann Arbor, MI

Hypothermic Circulatory Arrest Increases Permeability of the Blood Brain Barrier in Watershed Areas

T. Okamura, N. Ishibasbi, Y. Iwata, K. Susheel, H. Lidov, D. Zurakowski, R. A. Jonas

Children's National Medical Center, Washington, DC

Perioperative Blood Conservation Strategies in Pediatric Patients Undergoing Open Heart Surgery: Impact of Nonautologous Blood Transfusion and Surface Coated Extracorporeal Circuits

S. Gunaydin¹, K. McCusker², V. Vijay³

¹University of Kirikkale, Ankara, Turkey

²Portsmouth Regional Hospital, Portsmouth, NH

³Hudson Cardiothoracic Surgeons, New York, NY

A Congenital Heart Surgery Failure-to-Rescue Measure

J. H. Silber, S. Smith – Simone, S. Fuller, C. Ravishankar, A. T. Kennedy, Y. Teng,

O. Even-Shoshan, J. W. Gaynor

Children's Hospital of Philadelphia, Philadelphia, PA

GENERAL THORACIC SCIENTIFIC POSTERS

Sub-Lobar Resection With Absorbable Mesh I-125 Brachytherapy for Early Stage Non-Small Cell Lung Cancer (NSCLC)

M. A. Manning¹, C. Bryan², M. K. Mohamed¹, D. Burney¹

¹Moses Cone Health System, Greensboro, NC

²University of Florida, Gainesville, FL

Winning the Battle, Losing the War: The Non-Curative "Curative" Resection for Stage I Adenocarcinoma of the Lung

S. C. Murthy, U. Ogawudu, S. I. Reznik, T. W. Rice, D. P. Mason, P. L. Houghtaling,

E. R. Nowicki, E. H. Blackstone

Cleveland Clinic, Cleveland, OH

Lung Cancer and Lung Transplantation: A Single Center Perspective

J. K. Bhama, D. Zaldonis, M. Crespo, J. M. Pilerwski, B. A. Johnson, S. Dacic, C.

Bermudez, S. Gilbert, Y. Toyoda

University of Pittsburgh Medical Center, Pittsburgh, PA

Argatroban Inhibition of Osteopontin Modulates Isoform Specific Malignant Properties in Non-Small Cell Lung Cancer (NSCLC)

J. D. Blasberg, C. M. Goparaju, H. I. Pass, J. S. Donington

New York University Medical Center, New York, NY

A Sublobar Resection due to a Compromised Medical Condition has an Equivalent Long-Term Outcome to That of a Standard Lobectomy in Elderly Patients With Stage IA Non-Small Lung Cancer (NSCLC)

J. Okami, M. Higashiyama, J. Maeda, K. Oda, A. Fujiwara, R. Kanzaki, K. Kodama

Osaka Medical Center for Cancer and Cardiovascular Diseases, Osaka, Japan

Results of Superior Vena Cava Reconstruction With Externally Stented-Polytetrafluoroethylene Vascular Prostheses

I. C. Okereke, K. A. Kesler, K. M. Rieger, T. Birdas, D. Mi, M. W. Turrentine,

J. W. Brown

Indiana University School of Medicine, Indianapolis, IN

Oropharyngeal Dysphagia Increases Mortality After Orthotopic Lung Transplantation

B. Z. Atkins¹, R. Prince – Petersen², S. S. Lin², R. Davis²

¹Durham VA Medical Center, Durham, NC

²Duke University Medical Center, Durham, NC

Is Pulmonary Ablation More Effective With Single Lung Ventilation?

R. S. Santos², M. Ebright¹, G. Steiner¹, M. DeSimone¹, B. D. Daly¹,

H. C. Fernando¹

¹Boston Medical Center, Boston, MA

²Albert Einstein Institute for Research and Education, São Paulo, Brazil

The Intrathoracic Vacuum Assisted Closure (VAC) Device to Control Thoracic Sepsis

*J. Y. Perentes, A. Saadi, A. Tempia, N. Demartines, H. Ris, T. Krueger
University Hospital of Vaud Lausanne (CHUV), Lausanne, Switzerland*

Impact of Awake Thoracoscopic Surgery on Postoperative Lymphocyte Responses

*G. Vanni, E. Pompeo, F. Tacconi, T. C. Mineo
University of Rome Tor Vergata, Rome, Italy*

Adenosine A2B Receptor Signaling is Important in Bronchiolitis Obliterans Development

*Y. Zhao, J. Steidle, H. Zhao, I. L. Kron, G. Ailawadi, J. M. Linden, C. L. Lau
University of Virginia, Charlottesville, VA*

The Ravitch Versus Nuss Procedure for Treatment of Funnel Chest: Midterm Surveillance of the Degree of Satisfaction With the Surgical Result

*C. Kang¹, H. Lee², Y. Kim¹, S. Jbeon², S. Sung², J. Kim¹
¹Seoul National University Hospital, Seoul, South Korea
²Seoul National University Bundang Hospital, Bundang, South Korea
³Asan Medical Center, Seoul, South Korea*

Management of Delayed Gastric Emptying After Esophagectomy With Endoscopic Balloon Dilatation of the Pylorus

*M. Lanuti, P. E. de Delva, J. C. Wain, H. Gaissert, C. D. Wright, D. M. Donahue,
D. J. Mathisen
Massachusetts General Hospital, Boston, MA*

Patterns of Presentation of Primary Adenosquamous Carcinoma of the Lung Compared to Primary Adenocarcinoma and Squamous Cell Carcinoma, and Early Stage Post-Lobectomy Survival

*D. T. Cooke, N. V. Danb, Y. Yang, S. L. Chen, R. F. Calhoun
University of California, Sacramento, CA*

Acute Changes in Right Ventricular Function After Lung Isolation Predict Postoperative Arrhythmias

*R. Matyal, F. Mahmood, P. Hess, J. Mitchell, J. Pawlowski, S. Karthik, A. Maslow,
S. P. Gangadharan, M. S. Kent, M. M. DeCamp
Beth Israel Deaconess Medical Center, Boston, MA*

The Impact of Number of Evaluated N1 Nodes on the Survival of Resected Patients With Non-Small Cell Lung Cancer

*A. Turna, A. Celikten, N. Urer, M. Metin, A. Gurses
Yedikule Teaching Hospital for Chest Diseases and Thoracic Surgery, Istanbul, Turkey*

Photodynamic Therapy (PDT) and the Evolution of a Lung Sparing Surgical Treatment for Malignant Pleural Mesothelioma

*J. S. Friedberg, A. Fernandes, M. J. Culligan, R. Mick, D. Smith, J. Stevenson,
S. M. Hahn, K. Cengel
University of Pennsylvania, Philadelphia, PA*

Neurogenic Thoracic Outlet Syndrome (N-TOS): Predictive Value of Ultrasound-Guided Muscle Injections (U/S-MI)

*D. M. Donahue, G. R. Veillette, E. Collins, R. Gupta, M. Torriani
Harvard Medical School, Boston, MA*

Treatment of Acute Severe Pulmonary Hypertension With Right to Left Atrial Shunting and Venovenous Extracorporeal Life Support

*D. Camboni, B. Akay, J. Toomasian, J. W. Haft, K. Cook, R. Bartlett
University of Michigan, Ann Arbor, MI*

Video-Assisted Versus Open Lobectomy for Lung Cancer in the US Mid-Atlantic Region (2007–2008): Significant Variations in Practice Patterns and Measured Outcomes

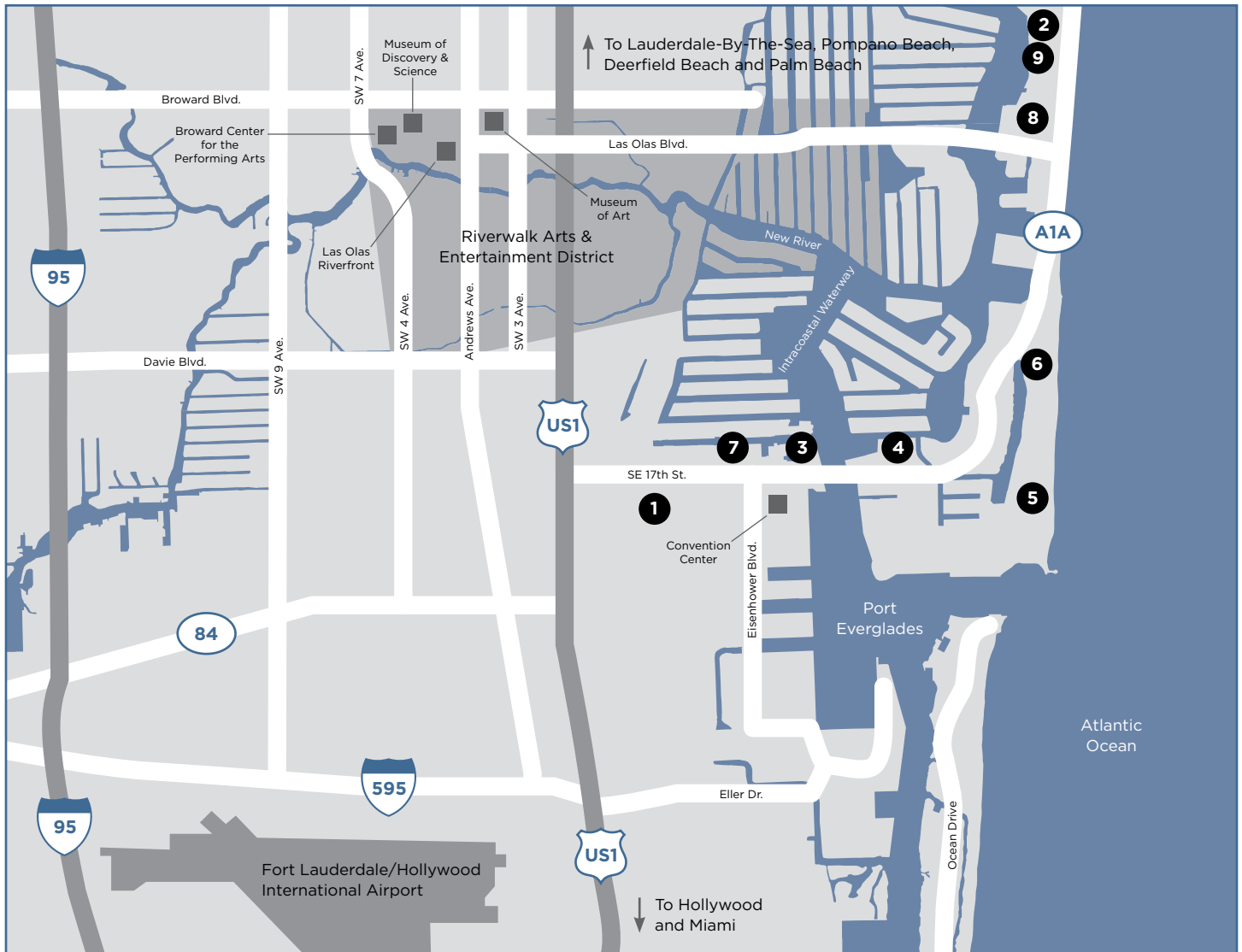
*K. Stitzenberg, W. J. Scott, A. Leberthal
Fox Chase Cancer Center, Philadelphia, PA*

A Novel Tissue-Engineered Solution for the Post-Pneumonectomy Space

*N. Tsunooka¹, S. Hirayama¹, J. A. Medin², M. Liu¹, S. H. Keshtavjee¹,
T. K. Waddell¹*

¹University Health Network, Toronto, Canada

²Ontario Cancer Institute, Toronto, Canada



1. Embassy Suites Hotel, Fort Lauderdale

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9. Westin Beach Resort, Fort Lauderdale

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 Fort Lauderdale, FL 33304
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Complimentary shuttle service will be provided between all official hotels and the Greater Fort Lauderdale/Broward County Convention Center beginning Friday, January 22.

HOTEL RESERVATION DEADLINE: DECEMBER 21, 2009

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	Hilton Fort Lauderdale Marina	Across street	\$259.00	\$259.00	\$279.00	\$279.00
	Hyatt Regency Pier 66	.7 mile	\$249.00	\$249.00	\$269.00	\$289.00
	Lago Mar Resort & Club	1 mile	\$285.00	\$295.00	\$305.00	\$315.00
	Marriott Harbor Beach Resort & Spa	1.3 miles	\$299.00	\$299.00	\$299.00	\$299.00
	Renaissance Fort Lauderdale Hotel	Across street	\$239.00	\$239.00	\$239.00	\$239.00
	Ritz-Carlton Fort Lauderdale	2.2 miles	\$319.00	\$319.00	\$319.00	\$319.00
	Westin Beach Resort, Fort Lauderdale	2.5 miles	\$249.00	\$249.00	\$274.00	\$299.00

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Complete **ONE** housing form for **EACH ROOM** requested. **ALL** reservations **MUST** be made through the STS Housing Bureau **or** online at www.sts.org. If booking online, be sure to print a copy of your acknowledgement. **If you do not receive an acknowledgement number, the STS Housing Bureau did NOT receive your reservation.** An acknowledgement of your reservation request will be sent to you via e-mail, fax or mail by the STS Housing Bureau within 7 business days. Check the accuracy of your acknowledgement and print a copy for your records. You will **NOT** receive a separate confirmation from your hotel and please **DO NOT** call the hotels directly. Group rates and availability are subject to change after the reservation deadline of **December 21, 2009**.

Booking Policy: Room reservations will not be held unless guaranteed by a valid credit card **ONLY**. Contact the STS Housing Bureau to block **10 or more rooms** or to make payment arrangements by check. Room rates do not include 11% tax.

Cancellation Policy: All cancellations must be received in writing and will be issued a cancellation date and number. Cancellations made **after December 21, 2009** will result in a **\$100.00 non-refundable penalty**, and may result in forfeiture of a one-night's deposit charged at your hotel's discretion.

Changes/Early Departure Policy: Access your reservation online at **www.sts.org** OR contact the STS Housing Bureau through **January 13, 2010**. Please reference your acknowledgement number. An early departure penalty of one-night's room rate plus tax may be charged at your hotel's discretion.

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Deadline Date: Advance registration must be postmarked, submitted online or received via fax by Monday, January 4, 2010. Please note: Registration fees will increase after this date.

Registrant Information

Please include all registrant information, including your area code, office telephone number, fax number, and e-mail address. If your spouse plans to attend, please print his/her first and last name in the space allotted.

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STS SURGEON MEMBER REGISTRATION: This category is for STS member MDs and DOs. Please note: Members are NOT automatically registered.

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Please indicate if you will be attending the General Thoracic Symposium on January 24, 2010. The fee for the General Thoracic Symposium is waived if you are registered for STS/AATS Tech-Con.

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Please visit www.sts.org or see page 35 for the spouse postgraduate program details, spouse tour descriptions and special event information.

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Before completing this section, please visit www.sts.org or see page 20-23 for course outlines.

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PO Box 809336
Chicago, IL 60680-9336
- Fax (if paying by credit card): (301) 694-5124
- Phone (if paying by credit card): (866) 229-2386 or (301) 694-5243

Cancellation Policy

All requests for cancellations must be made in writing and postmarked to The Society of Thoracic Surgeons by Monday, January 4, 2010. Requests for refunds will not be honored if submitted after that date. Please note: A processing fee of \$50 will be charged for all cancellations.

On-Site Registration Hours

Friday, January 22	2:00 PM - 6:00 PM
Saturday, January 23	10:00 AM - 6:00 PM
Sunday, January 24	7:00 AM - 6:30 PM
Monday, January 25	6:30 AM - 5:00 PM
Tuesday, January 26	6:30 AM - 4:30 PM
Wednesday, January 27	6:30 AM - 10:30 AM



46TH ANNUAL MEETING REGISTRATION

THE SOCIETY OF THORACIC SURGEONS | FORT LAUDERDALE, FLORIDA

STS/AATS Tech-Con: Jan. 23-24, 2010 STS Exhibition: Jan. 24-26, 2010 STS 46th Annual Meeting: Jan. 25-27, 2010

FOUR WAYS TO REGISTER: MAIL: STS, P.O. BOX 809336, CHICAGO, IL 60680-9336
ONLINE: STS.EXPERIENT-INC.COM **FAX:** (301) 694-5124 **PHONE:** (866) 229-2386 OR (301) 694-5243

Advance Registration Deadline: January 4, 2010 : To take advantage of the advance discounted fees, registrations must be postmarked, submitted online or received via fax by January 4, 2010. Registrations will continue to be accepted at higher fees until January 15, 2010, after which you must register on site. Please visit www.sts.org or see the Annual Meeting Advance Program for details.

Cancellation Policy: All requests for cancellations must be submitted in writing to The Society of Thoracic Surgeons by Monday, January 4, 2010. A processing fee of \$50 will apply to all cancellations. No requests for refunds will be honored after Monday, January 4, 2010.

1. REGISTRANT INFORMATION PLEASE PRINT CLEARLY

FIRST NAME (HOW YOU WISH IT TO APPEAR ON YOUR BADGE)	LAST NAME	DEGREE (REQUIRED)	
JOB TITLE	INSTITUTION/COMPANY		
SPOUSE/GUEST FIRST NAME	SPOUSE/GUEST LAST NAME		
STREET			
CITY	STATE/PROVINCE	ZIP/POSTAL CODE	COUNTRY
PHONE	FAX	E-MAIL ADDRESS (REQUIRED)	

2. TYPE OF REGISTRATION:

STS ONLY (complete sections 3-6)
 STS & TECH-CON (complete sections 3-7)
 TECH-CON ONLY (complete section 7 only)

PRACTICE MANAGEMENT SUMMIT ONLY (complete section 8 only)
 PRACTICE MANAGEMENT SUMMIT & STS (complete sections 3-6 & 8)

3. REGISTRATION CATEGORY PLEASE SELECT ONLY ONE

Category	On/before Jan. 4	After Jan. 4	Amount
<input type="checkbox"/> STS Surgeon Member	\$150	\$250	\$ _____
<input type="checkbox"/> STS Associate Member	\$100	\$200	\$ _____
<input type="checkbox"/> Non-Member Physician	\$550	\$700	\$ _____
<input type="checkbox"/> Non-Member Allied Health	\$200	\$350	\$ _____
<i>Includes non-member research scientists, physician assistants, perfusionists, nurses, nurse practitioners, data managers and other health care professionals who work with CT surgeons.</i>			
<input type="checkbox"/> CT Resident/Fellow * Must complete section 3A	no charge	no charge	\$ _____
<input type="checkbox"/> Non-CT Resident/Fellow * Must complete section 3A	\$125	\$175	\$ _____
<input type="checkbox"/> Medical Student Please fax copy of student ID with registration form.	no charge	no charge	\$ _____

TOTAL FOR SECTION 3: \$ _____

3A. RESIDENT / FELLOW CERTIFICATION

This section must be completed in order to register for this category.

I (chief of service): _____

Certify that (registrant): _____

is a Resident/Fellow at (institution): _____

Chief of service signature: _____

Registrant signature: _____

4. TICKETED SYMPOSIA

SUNDAY AFTERNOON, JANUARY 24

If you plan on attending either the General Thoracic or Congenital Symposia, please check the appropriate box below:

- STS Congenital Symposium includes Networking Luncheon • \$75
 - STS General Thoracic Symposium includes Networking Luncheon • \$75
- There is no charge for the Congenital or General Thoracic Symposia if you are registered for Tech-Con.
- International Symposium • \$25

TUESDAY, JANUARY 26

- Health Policy Forum, 7:00 a.m.- 8:00 a.m. • n/c
- Ethics Debate, includes lunch, 12:40 p.m.- 1:40 p.m. • \$25

TUESDAY, JANUARY 26, 7:00 a.m. - 8:00 a.m.

TICKETED BREAKFAST SESSIONS • \$40 EACH

Please select one. Space is limited. Registration is on a first-come, first-served basis.

- STS National Database: Adult Cardiac
- STS National Database: General Thoracic
- STS National Database: Congenital
- Mediastinal Staging: Role of Mediastinoscopy, EBUS, and EUS in Primary Staging and Restaging after Induction Therapy
- Minimally Invasive Management of Benign Esophageal Disease
- Transcatheter Aortic Valves: Transapical and Transfemoral
- Destination Therapy: Updated
- Options for Mitral Valve Repair: Open vs. Minimally Invasive Techniques, Equipment, and Instrumentation
- How to Staff an ICU
- Surgical Treatment of Hyperhidrosis: Face, Feet, Axilla
- Radiofrequency Ablation, Cryotherapy, Gamma Knife and IMRT for Lung Nodules
- Treatment of Barrett's Esophagus: H2 Blockers, Antireflux Procedures, Laser & RFA

TOTAL FOR SECTION 4: \$ _____

5. STS UNIVERSITY • WEDNESDAY, JANUARY 27 • \$60 PER SESSION

7:00 a.m. - 9:30 a.m. and 10:00 a.m. - 12:30 p.m. (Sessions are held at 7:00 a.m. and then repeated at 10:00 a.m.)

Please select only one course per time period.

Course 1: Thoracoscopic Lobectomy	<input type="checkbox"/> 7:00 a.m.	<input type="checkbox"/> 10:00 a.m.
Course 2: Mitral Valve Repair: Minimally Invasive Approaches & Repair Techniques	<input type="checkbox"/> 7:00 a.m.	<input type="checkbox"/> 10:00 a.m.
Course 3: Valve-Sparing Aortic Root Replacement	<input type="checkbox"/> 7:00 a.m.	<input type="checkbox"/> 10:00 a.m.
Course 4: Mechanical Circulatory Support for Cardiogenic Shock	<input type="checkbox"/> 7:00 a.m.	<input type="checkbox"/> 10:00 a.m.
Course 5: Advanced Coronary Revascularization Techniques	<input type="checkbox"/> 7:00 a.m.	<input type="checkbox"/> 10:00 a.m.
Course 6: Pacemaker Lead Removal / Electrophysiology for the Cardiac Surgeon	<input type="checkbox"/> 7:00 a.m.	<input type="checkbox"/> 10:00 a.m.
Course 7: Minimally Invasive Surgical Treatment of Atrial Fibrillation	<input type="checkbox"/> 7:00 a.m.	<input type="checkbox"/> 10:00 a.m.
Course 8: Simulation in Cardiothoracic Surgery Training	<input type="checkbox"/> 7:00 a.m.	<input type="checkbox"/> 10:00 a.m.
Course 9: Endoscopic Intervention of the Esophagus	<input type="checkbox"/> 7:00 a.m.	<input type="checkbox"/> 10:00 a.m.
Course 10: Tracheobronchial Interventions: New Tools for the Thoracic Surgeon	<input type="checkbox"/> 7:00 a.m.	<input type="checkbox"/> 10:00 a.m.
Course 11: Congenital Course: Hybrid Procedures, Interventional Devices, Balloons & Catheters	<input type="checkbox"/> 7:00 a.m.	<input type="checkbox"/> 10:00 a.m.
Course 12: Pain Management	<input type="checkbox"/> 7:00 a.m.	<input type="checkbox"/> 10:00 a.m.

TOTAL FOR SECTION 5: \$ _____

6. SPOUSE & SPECIAL EVENTS

SUNDAY, JANUARY 24	Number of tickets	Amount
9:00 a.m. - 2:00 p.m., includes lunch Spouse Postgraduate Program \$95 per ticket	_____	\$ _____
MONDAY, JANUARY 25 11:30 a.m. - 2:30 p.m. Lunch Cruise of Intracoastal Waterway \$155 per ticket	_____	\$ _____
TUESDAY, JANUARY 26 11:15 a.m. - 4:00 p.m. Lunch and Museum of Art \$65 per ticket	_____	\$ _____
TUESDAY EVENING DINNER RECEPTION AND ANTIQUE CAR MUSEUM 7:00 p.m. - 10:00 p.m. \$95 per ticket	_____	\$ _____
TOTAL FOR SECTION 6: \$ _____		

7. STS/AATS TECH-CON 2010 • JANUARY 23-24

Please select only one. (Includes Networking Luncheon)

Category	On/before Jan. 4	After Jan. 4	Amount
<input type="checkbox"/> STS or AATS Member	\$350	\$450	\$ _____
<input type="checkbox"/> Non-Member	\$550	\$650	\$ _____
<input type="checkbox"/> Medical Student/ Resident	n/c	n/c	\$ _____
<i>If you plan on attending the following Symposia, please check the appropriate box below (there is no charge for the Symposia if you are registered for Tech-Con):</i>			
<input type="checkbox"/> STS Congenital Symposium	n/c	n/c	\$ _____
<input type="checkbox"/> STS General Thoracic Symposium	n/c	n/c	\$ _____

TOTAL FOR SECTION 7: \$ _____

**8. STS PRACTICE MANAGEMENT SUMMIT
SUNDAY, JANUARY 24 • 7:50 a.m. - 12:00 p.m.**

- \$50 if attending the STS 46th Annual Meeting
- \$100 if **not** attending the STS 46th Annual Meeting

TOTAL FOR SECTION 8: \$ _____

ADA REQUESTS: _____

PAYMENT INFORMATION

GRAND TOTAL (ADD FEES FROM SECTIONS 3-8): \$ USD _____

PAYMENT METHOD: CHECK ENCLOSED CREDIT CARD: VISA MASTERCARD AMERICAN EXPRESS

CREDIT CARD NUMBER _____ EXP. DATE _____

CARDHOLDER NAME _____

BILLING ADDRESS _____

STREET _____

CITY _____ STATE/PROVINCE _____ ZIP/POSTAL CODE _____ COUNTRY _____

CARDHOLDER SIGNATURE _____

**THANK YOU FOR REGISTERING! FOR QUESTIONS RELATED TO THE STATUS OF YOUR REGISTRATION,
PLEASE E-MAIL STS@EXPERIENT-INC.COM OR CALL TOLL-FREE (866) 229-2386.**

Ground Transportation

From Fort Lauderdale — Hollywood International Airport

Fort Lauderdale — Hollywood International Airport is located five miles from the Greater Fort Lauderdale/Broward County Convention Center and most STS hotels. To access all ground transportation, follow the terminal signs to the baggage claim area on the lower level. Outside the terminal, arrangements can be made for a taxi or shared ride/private car at any of several transportation podiums. There will also be bus stops for courtesy shuttles to other terminals, the rental car center, remote parking lots and hotels.

Car Rental

The Society of Thoracic Surgeons has negotiated special rental car rates for 2010 through Hertz Rent A Car. Reservations may be placed online at www.hertz.com or through the Hertz meeting sales desk from within the U.S. and Canada at (800) 654-2240; from international locations, call the nearest Hertz reservation center at (405) 749-4434. For the special rate, reference convention number (CV#) 03HW0353.

Shuttle Service/Private Car

For door-to-door, shared-ride transportation, consider a luxury sedan or van from Go Airport Shuttle, which provides a zone fare from the airport. Private car service is also available. Check in at the transportation podium located outside the baggage area on the lower level curbside.

A comparison list of fares is posted at each podium. For more information, contact Go Airport Shuttle at (954) 561-8888 or toll free (800) 244-8252.

Taxi Service

Taxi cab stands are centrally located at the airport. The approximate fares to the Convention Center or STS hotels are \$25 to \$35, plus tip.

Transportation To Convention Center

Complimentary shuttle service will be provided between all official STS hotels and the Greater Fort Lauderdale/Broward County Convention Center beginning Friday, January 22, 2010. Schedules will be posted in the lobby of each hotel.

Housing Instructions

For best availability and immediate confirmation, make reservations online at www.sts.org. Requests received via fax/mail take longer to process. Housing requests must be received by the STS Housing Bureau no later than Monday, December 21, 2009. All hotel requests are processed on an availability basis.

Exhibitors/groups needing 10 or more rooms, please call the STS Housing Bureau at (877) 664-4774 or (954) 765-4774.

For further housing information and policies, refer to the Housing Reservation Request Form on page 29 and the housing map on page 28.



SPOUSE AND GUEST ACTIVITIES

Please visit www.sts.org to register today!

SPOUSE/GUEST HOSPITALITY AREA

Date: Sunday, January 24 – Tuesday, January 26, 2010

Time: 9:00 AM – 4:00 PM

Location: Greater Fort Lauderdale/Broward County Convention Center

Information on all activities will be available in the spouse/guest hospitality area. A complimentary continental breakfast will be provided each morning. This is a great place to meet other spouses and guests attending the Annual Meeting.

SCHEDULE OF EVENTS

Registration, spouse/guest hospitality, and spouse/guest tour departures will all take place at the Greater Fort Lauderdale/Broward County Convention Center. Spouses can get to the convention center by utilizing the complimentary convention shuttles.



Friday, January 22, 2010

2:00 PM – 6:00 PM

Registration — Greater Fort Lauderdale/Broward County Convention Center

Saturday, January 23, 2010

10:00 am – 6:00 PM

Registration — Greater Fort Lauderdale/Broward County Convention Center

Sunday, January 24, 2010

7:00 am – 6:30 PM

Registration — Greater Fort Lauderdale/Broward County Convention Center

9:00 am – 4:00 PM

Spouse/Guest Hospitality

9:00 am – 2:00 PM

Spouse/Guest Postgraduate Program

Monday, January 25, 2010

6:30 am – 5:00 PM

Registration — Greater Fort Lauderdale/Broward County Convention Center

9:00 am – 4:00 PM

Spouse/Guest Hospitality

11:30 am – 2:30 PM

Lunch Cruise of Intracoastal Waterway

Tuesday, January 26, 2010

6:30 am – 4:30 PM

Registration — Greater Fort Lauderdale/Broward County Convention Center

9:00 am – 4:00 PM

Spouse/Guest Hospitality

11:15 am – 4:00 PM

Museum of Art Fort Lauderdale — Featuring Norman Rockwell Exhibit

7:00 PM – 10:00 PM

Tuesday Evening Dinner Reception & Antique Car Museum

Spouse Postgraduate Program

Date: Sunday, January 24, 2010

Time: 9:00 AM – 2:00 PM

Location: Greater Fort Lauderdale/Broward County Convention Center

Cost: \$95 per ticket

Spouses 27th Postgraduate Program: Revolutionary New Brain Science Unravels the Mysteries of Addictive Human Behavior

Exciting new scientific breakthroughs offer hope for those struggling with addictive human behavior. Whether the addictions are work, exercise or alcohol, this new generation of therapy offers unprecedented possibilities for treatment and recovery. Dr. Hal Urschel III, an addiction psychiatrist and author of the new book, "Healing the Addicted Brain" will discuss the innovative treatments that have dramatically raised recovery rates. Dr. Urschel has appeared on many national television shows, including Dr. Phil, Oprah and 60 Minutes. During this program, Dr. Urschel will bring insight, clarity, and understanding to one of the major medical problems of this century.

Spouse & Special Events

All tours depart from the Greater Fort Lauderdale/Broward County Convention Center

Lunch Cruise of Intracoastal Waterway

Date: Monday, January 25, 2010

Time: 11:30 AM – 2:30 PM

Cost: \$155 per ticket

Enjoy lunch and an Intracoastal Waterway cruise with friends along Fort Lauderdale's magnificent coastline aboard the Summer Wind. This 91 foot yacht has been completely restored as one of the premier luxury cruising vessels in Southern Florida. Decorated with rich wood paneling, bay windows, and plush velvet couches, the interior exudes elegance on this world class yacht. The top deck offers an ideal location for lounging in the ocean breeze and enjoying a glass of wine, while setting the stage for an exquisite luncheon experience. Gaze upon scenic natural inlets while viewing some of the most beautiful shorelines Florida has to offer. Catch a glimpse of coastal mansions which are homes to celebrity powerhouses and millionaires such as Sylvester Stallone, Oprah Winfrey, and notorious gangster Al Capone. Space is limited so sign up today!



Museum of Art Fort Lauderdale — Norman Rockwell Exhibit

Date: Tuesday, January 26, 2010

Time: 11:15 AM – 4:00 PM

Cost: \$65 per ticket

The STS Spouse Tour of the Museum of Art Fort Lauderdale will take place during the Museum's highly anticipated Norman Rockwell exhibit. One of the most popular American artists of the past century, Rockwell (1894 - 1978) is renowned for his intricate visual tales depicting human nature and is famous for the cover illustrations he created for The Saturday Evening Post for more than four decades. With more than 21,000 square feet of exhibition space overlooking the scenic New River and an additional 2,000 square feet exclusively dedicated to sculpture installations, the Museum itself is an architectural masterpiece. One of South Florida's leading cultural attractions, the Museum displays more than 6,000 pieces of art while reflecting the creative instinct of the South Florida and Caribbean cultures. Lunch is included with the tour and will be held at the picturesque American piano bar and restaurant, Casablanca Cafe. Register now for a unique tour of one of Fort Lauderdale's finest treasures.



Tuesday Evening Dinner Reception & Antique Car Museum

Date: Tuesday, January 26, 2010

Time: 7:00 PM – 10:00 PM

Cost: \$95 per ticket

Travel back in time and relive America's love affair with the automobile at the STS Tuesday Evening Dinner Reception at the Fort Lauderdale Antique Car Museum. Enjoy a buffet dinner and glass of wine while wandering through the museum and viewing some of history's most impressive automobiles. The museum houses 22 pre-war Packard motor cars, the Rolls Royce of American automobiles. Displayed in a reproduced Packard showroom, the museum also has thousands of vintage pieces of Packard memorabilia such as classic dashboard clocks, intricate hood ornaments, and custom gear shift knobs. In addition, the museum gallery and library, dedicated to Franklin D. Roosevelt, features a display of mementos, audiotapes, and video footage featuring Roosevelt's life. Don't miss this fantastic opportunity to enjoy an evening of history, mingling with peers, and some truly incredible machines! *Transportation will be provided from official STS Annual Meeting hotels.*



STS gratefully acknowledges the following sponsors of the STS 46TH Annual Meeting.*

STS Patron Sponsor MEDTRONIC, INC.

STS Supporter Sponsor Sorin Group USA, Inc.

Please support our exhibitor partners and visit the Exhibit Hall during the hours of the STS 46th Annual Meeting:

Sunday, 4:00 PM – 6:30 PM

Monday through Tuesday, 9:00 AM – 4:30 PM

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*This list includes exhibitors committed as of October 13, 2009

As Chair of the Workforce on the Annual Meeting, I would like to thank the members of the following Task Forces and abstract reviewers who volunteered their time, energy, and expertise in developing the STS 46th Annual Meeting Program.

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*Joint STS/AATS activity



The Society of Thoracic Surgeons
46TH Annual Meeting

January 25–27, 2010 | Fort Lauderdale, Florida
January 24–26, 2010 | Exhibit Dates

The Society of Thoracic Surgeons

633 N. Saint Clair Street, Suite 2320
Chicago, IL 60611-3658