Preliminary Program Outline

SATURDAY, MAY 9, 2009

8:00 am – 12:00 pm  New Technologies and Procedures in Congenital and Acquired Heart Surgery
Room 302-306, Hynes Convention Center
Chairman: Mark E. Galantowicz, MD
Nationwide Children’s Hospital

8:00 am – 8:10 am  Welcome and Introduction

8:10 am – 8:30 am  Overview of Pediatric Heart Assist Devices in Development
Tim Baldwin, PhD
National Heart Lung and Blood Institute

8:30 am – 8:50 am  A Decision Matrix to Guide Device Selection for Pediatric Circulatory Support
8:50 am – 9:10 am  A Decision Matrix for Adult Mechanical Circulatory Support
Benjamin C. Sun, MD
Ohio State University

9:10 am – 9:30 am  Heart Transplantation and High Pulmonary Vascular Resistance:
Another Fallen Commandment?
Sanjiv K. Gandhi, MD
Saint Louis Children’s Hospital

9:30 am – 10:00 am  Pulmonary Assist Devices–Where Do We Stand?
Robert H. Bartlett, MD
University of Michigan

10:00 am – 10:30 am  BREAK

10:30 am – 10:50 am  Hybrid Approach to HLHS
Mark E. Galantowicz, MD
Nationwide Children’s Hospital

10:50 am – 11:10 am  Hybrid Approach to other Congenital Heart Defects
Emile A. Bacha, MD
Children's Hospital Boston

11:10 am – 11:30 am  Advanced Imaging in Coronary Surgery and Hybrid Procedures
John G. Byrne, MD
Vanderbilt Heart Institute

11:30 am – 11:50 am  3-D Image Based Surgical Planning of Aortic Valve Repair
Pedro J. del Nido, MD
Children’s Hospital Boston

11:50 am – 12:00 pm  Discussion

8:00 am – 12:00 pm  Thoracic Developmental Skills
Room 312, Hynes Convention Center
Chairman: Raja M. Flores, MD
Memorial Sloan-Kettering Cancer Center

8:00 am – 8:05 am  Welcome and Introduction
Raja M. Flores, MD
Memorial Sloan-Kettering Cancer Center

8:05 am – 8:25 am  The Thoracic Surgeon and Endobronchial Ultrasound
Harvey I. Pass, MD
New York University

8:25 am – 8:45 am  VATS Lobectomy: Technical Details of All Five Lobes
Raja M. Flores, MD
Memorial Sloan-Kettering Cancer Center

8:45 am – 9:05 am  Robotic Lobectomy
Bernard J. Park, MD
Memorial Sloan-Kettering Cancer Center

9:05 am – 9:25 am  Thoracoscopic LVRS and Sympathectomy
Robert J. McKenna, MD
Cedars Sinai Medical Center
9:25 am – 9:45 am  
**Resection and Reconstruction of Major Intrathoracic Vascular Structures**  
Erino A. Rendina, MD  
University La Sapienza

9:45 am – 10:15 am  
**BREAK**

10:15 am – 10:35 am  
**Ivor Lewis Esophagectomy—Refined, Expeditious and Oncologically Sound**  
Manjit S. Bains, MD  
Memorial Sloan-Kettering Cancer Center

10:35 am – 10:55 am  
**Minimally Invasive Esophagectomy**  
Michael S. Kent, MD  
Beth Israel Deaconess Medical Center

10:55 am – 11:15 am  
**Tracheal Lesions—Initial Management and Subsequent Surgical Treatment**  
Joel D. Cooper, MD  
University of Pennsylvania

11:15 am – 11:35 am  
**Chest Wall Resection and Reconstruction**  
Michael J. Weyant, MD  
University of Colorado

11:35 am – 12:00 pm  
**Discussion**

1:00 pm – 5:00 pm  
**Developing the Academic Surgeon**  
Room 302-306, Hynes Convention Center  
**Chairman:** A. Marc Gillinov, MD  
Cleveland Clinic Foundation

1:00 pm – 1:10 pm  
**Introduction and Course Overview**  
A. Marc Gillinov, MD  
Cleveland Clinic Foundation

1:10 pm – 1:30 pm  
**Academic Practice in Cardiothoracic Surgery: An Outdated Concept?**  
Irving L. Kron, MD  
University of Virginia Health System

1:30 pm – 1:50 pm  
**The Cardiothoracic Surgeon as an Educator**  
Stephen C. Yang, MD  
Johns Hopkins Medical Institute

1:50 pm – 2:10 pm  
**Basic Research in Thoracic Surgery**  
David R. Jones, MD  
University of Virginia Health System

2:10 pm – 2:30 pm  
**Research and Medical Device Development**  
A. Marc Gillinov, MD  
Cleveland Clinic Foundation

2:30 pm – 3:00 pm  
**Cardiothoracic Surgery: A Time of Opportunity**  
James L. Cox, MD  
Washington University/St. Louis

3:00 pm – 3:20 pm  
**BREAK**

3:20 pm – 3:40 pm  
**Beyond Clinical Trials: Building an Evidence Basis for Cardiothoracic Surgery of the Future**  
Eugene H. Blackstone, MD  
Cleveland Clinic Foundation
3:40 pm – 4:00 pm  
The NIH–Sponsored Cardiothoracic Surgical Trials Network  
Timothy J. Gardner, MD  
Christiana Care Health System

4:00 pm – 4:20 pm  
Training for the Future  
Matthew R. Williams, MD  
Columbia University

4:20 pm – 4:40 pm  
Cardiovascular Disease: An Integrated, Programmatic Approach  
Bruce W. Lytle, MD  
Cleveland Clinic Foundation

4:40 pm – 5:00 pm  
Discussion

2009 PROGRAM AND ABSTRACTS

Preliminary Program Outline

SUNDAY, MAY 10, 2009 | AATS/STS Postgraduate Symposia

8:00 am - 5:00 pm  
AATS/STS ADULT CARDIAC SURGERY SYMPOSIUM  
Ballroom 20 A-C, Hynes Convention Center  
Chairmen: Michael A. Acker, MD  
Joseph E. Bavaria, MD  
University of Pennsylvania

Session I  
Thoracic Aorta

8:00 am – 8:20 am  
TEVAR: Indications, Current Trends and Results  
G. Chad Hughes, MD

8:20 am – 8:40 am  
TEVAR in Setting of Aortic Dissection: Type A and B  
Alberto Pochettino, MD  
University of Pennsylvania

8:40 am – 9:00 am  
Hybrid Arch  
Wilson Y. Szeto, MD  
University of Pennsylvania

9:00 am – 9:15 am  
Discussion

Session II  
Aortic Root/Aortic Valve
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
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<tbody>
<tr>
<td>9:15 am -</td>
<td>Aortic Valve Repair/Retention with Aortic Root Disease</td>
<td>G. Michael Deeb, MD</td>
<td>University of Michigan</td>
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<td>9:35 am -</td>
<td>Aortic Valve Repair without Root Pathology Tricuspid/Bicuspid</td>
<td>Gebrine El Khoury</td>
<td>St-Luc Hospital</td>
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<td>9:35 am -</td>
<td>BREAK</td>
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<tr>
<td>10:15 am -</td>
<td>Transcatheter Aortic Valve Replacement: Transfemoral</td>
<td>Joseph E. Bavaria, MD</td>
<td>University of Pennsylvania</td>
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<td>10:35 am -</td>
<td>Transcatheter Aortic Valve Replacement: Transapical</td>
<td>Todd M. Dewey, MD</td>
<td>Medical City Dallas Hospital</td>
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<td>10:55 am -</td>
<td>Discussion</td>
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<td>11:10 am -</td>
<td>Mitral Valve Repair</td>
<td>3-D Echo: Clinical Breakthrough or Pretty Pictures?</td>
<td>Joseph S. Savino, MD</td>
<td>University of Pennsylvania</td>
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<td>11:30 am -</td>
<td>Degenerative Disease: Complex Repair Made Simple</td>
<td>David H. Adams, MD</td>
<td>Mount Sinai Medical Center</td>
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<td>11:50 am -</td>
<td>Discussion</td>
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<td>12:05 pm -</td>
<td>LUNCH</td>
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<td>1:05 pm -</td>
<td>The Surgical Treatment of Atrial Fibrillation: Are We Ready for Prime Time?</td>
<td>Niv Ad, MD</td>
<td>Fairfax Hospital</td>
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<td>1:25 pm -</td>
<td>Aortic Stenosis/ Mitral Regurgitation:When to Repair the Mitral Valve?</td>
<td>Thomas G. Gleason, MD</td>
<td>University of Pittsburgh</td>
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<td>1:45 pm -</td>
<td>Mitral Stenosis/Mitral Regurgitation and Tricuspid Regurgitation: When to Repair the Tricuspid Valve?</td>
<td>Richard J. Shemin, MD</td>
<td>University of California, Los Angeles</td>
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<td>2:05 pm -</td>
<td>Discussion</td>
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<td>2:20 pm -</td>
<td>Heart Failure</td>
<td>Should Functional Mitral Regurgitation in Heart Failure Patients be Repaired?</td>
<td>Patrick M. McCarthy, MD</td>
<td>Northwestern University</td>
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**Session III**

**Session IV**

**Session V**
### Session VI: Coronary Artery Bypass

**3:55 pm - 4:15 pm**
**Drug Eluding Stents: Has the Pendulum Started to Swing Back?**
- **David P. Taggart, MD**
  - **University of Oxford**

**4:15 pm - 4:35 pm**
**Debate – Optimal Coronary Revascularization: Off Pump (Puskas) vs. On Pump (Sabik) vs. Hybrid (Byrne)**
- **John D. Puskas, MD**
  - **Emory University**
- **Joseph F. Sabik, MD**
  - **Cleveland Clinic**
- **John G. Byrne, MD**
  - **Vanderbilt Heart Institute**

**4:35 pm - 4:50 pm**
**Discussion**

**5:00 pm**
**Welcome Reception** Exhibit Hall

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**SUNDAY, MAY 10, 2009**

**8:00 am - 5:00 pm**
**GENERAL THORACIC SURGERY SYMPOSIUM**
- **Room 302-306, Hynes Convention Center**
- **Chairman:** David H. Harpole, Jr., MD
  - **Duke University**

**8:00 am - 8:10 am**
**Introduction and Course Overview**
- **David H. Harpole, Jr., MD**
  - **Duke University**

**Session I: Non-small Cell Lung Cancer**

**8:10 am -**
**New Lung Cancer Staging System**
- **Joe B. Putnam, MD**
  - **Vanderbilt University**

**8:30 am - 9:00 am**
**Chemotherapy 101**
- **Ramaswamy Govindan, MD**
  - **Washington University**

**9:00 am - 9:30 am**
**Tyrosine Kinase Inhibitors**
- **Pasi A. Janne, MD, PhD**
  - **Dana-Farber Cancer Institute**
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<th>Time</th>
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<tr>
<td>9:30 am -</td>
<td>Anti-angiogenesis and other Molecular Targets</td>
<td>Thomas J. Lynch, MD</td>
<td>Massachusetts General Hospital</td>
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<td>10:00 am</td>
<td>Discussion</td>
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<td>10:45 am</td>
<td>Radiotherapy 101</td>
<td>Jeffrey Bogart, MD</td>
<td>State University of New York Upstate Medical University</td>
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<td>11:15 am</td>
<td>Current Early Stage Lung Cancer Trials</td>
<td>Eric Valleries, MD</td>
<td>Swedish Cancer Institute</td>
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<td>1:00 pm -</td>
<td>Controversies in Lung Cancer</td>
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<td>Mediastinoscopy or EBUS/EUS</td>
<td>Bryan F. Meyers, MD</td>
<td>Washington University</td>
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<td>1:30 pm</td>
<td>Who is Medically Inoperable?</td>
<td>Robert J. Cerfolio, MD</td>
<td>University of Alabama</td>
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<td>2:00 pm</td>
<td>Ablative Therapies for Nodules</td>
<td>Jo-Anne O. Shepard, MD</td>
<td>Massachusetts General Hospital</td>
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<td>Upfront or Outback Chemotherapy</td>
<td>Ramaswamy Govindan, MD</td>
<td>Washington University</td>
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<td>3:30 pm -</td>
<td>Updates of General Thoracic Surgery</td>
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<td>STS Database Risk Adjustment</td>
<td>Cameron D. Wright, MD</td>
<td>Massachusetts General Hospital</td>
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<td>4:00 pm</td>
<td>Pulmonary Metastasectomy</td>
<td>Thomas A. D’Amico, MD</td>
<td>Duke University</td>
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<td>4:20 pm</td>
<td>Interventions for Emphysema</td>
<td>Malcolm M. DeCamp, MD</td>
<td>Beth Israel Deaconess Medical Center</td>
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<td>5:00 pm</td>
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<td>5:00 pm</td>
<td>WELCOME RECEPTION – Exhibit Hall</td>
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<td>8:00 am -</td>
<td>Congenital Heart Disease Symposium</td>
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<td>8:00 am</td>
<td>Pro/Con Debate:</td>
<td>NIRS is “Standard of Care” for Post-operative Management</td>
<td>Pro: James S. Tweddell, MD</td>
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<td>Con: Jennifer C. Hirsch, MD</td>
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<td>9:00 am</td>
<td>Surgical Techniques</td>
<td>Aortic Valvuloplasty for Aortic Regurgitation</td>
<td>Richard A. Jonas, MD</td>
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<td>9:30 am</td>
<td>Pro/Con Debate:</td>
<td>Use of a Fenestration Should be Routine During the Fontan Procedure</td>
<td>Pro: Scott M. Bradley, MD</td>
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<td>Con: Frank L. Hanley, MD</td>
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<td>10:50 am</td>
<td>Clinical Research in Pediatric Cardiac Surgery: How Can We Do Better?</td>
<td>Uses and Limitations of Academic and Registry Databases</td>
<td>William G. Williams, MD</td>
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<td>11:05 am</td>
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<td>Randomized Treatment Trials: Lessons Learned from the BCAS and Other Studies</td>
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<td>Multi-institutional Studies: Lessons Learned from the CHSS Studies</td>
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<td>Multi-institutional Studies: Lessons Learned from the SVR Trial</td>
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<td>12:00 - 1:00 pm</td>
<td>LUNCH</td>
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<td>1:00 - 1:20 pm</td>
<td>Session V – Variability in Outcomes&lt;br&gt;Perioperative Genomics: Why do “Similar” Patients have Different Outcomes?</td>
<td>Mark F. Newman, MD  &lt;br&gt;<em>Duke University</em></td>
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<td>1:20 - 1:40 pm</td>
<td>Does Protocol Driven Post-operative Management Improve Outcomes?&lt;br&gt;Difficulties Comparing Outcomes Between Institutions</td>
<td>Peter C. Laussen, MD  &lt;br&gt;<em>Children’s Hospital Boston</em>&lt;br&gt;Karl F. Welke, MD  &lt;br&gt;<em>Oregon Health and Science University</em></td>
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<td>1:40 - 2:00 pm</td>
<td>How Do We Translate Clinical Research to Clinical Practice?&lt;br&gt;How Do We Translate Clinical Research to Clinical Practice?</td>
<td>Gil Wernovsky, MD  &lt;br&gt;<em>Children’s Hospital of Philadelphia</em></td>
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<td>2:00 - 2:20 pm</td>
<td>Discussion&lt;br&gt;Surgical Techniques: “How I Do It”&lt;br&gt;Living-Donor Lobar Lung Transplantation</td>
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<td>2:30 - 2:50 pm</td>
<td>Living-Donor Lobar Lung Transplantation&lt;br&gt;Surgical Repair of Tricuspid Atresia</td>
<td>Vaughn A. Starnes, MD  &lt;br&gt;<em>University of Southern California</em></td>
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<td>2:50 - 3:00 pm</td>
<td>Discussion&lt;br&gt;The Fontan/Kreutzer Procedure at 40&lt;br&gt;Surgical Repair of Tricuspid Atresia</td>
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<td>3:00 - 3:20 pm</td>
<td>Break&lt;br&gt;An Operation for Correction of Tricuspid Atresia&lt;br&gt;Evolution of the Fontan/Kreutzer Procedure</td>
<td>Guillermo O. Kreutzer, MD  &lt;br&gt;<em>Ricardo Gutierrez Children’s Hospital</em>&lt;br&gt;Marc R. de Leval, MD  &lt;br&gt;<em>International Congenital Cardiac Centre</em></td>
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<td>3:20 - 3:40 pm</td>
<td>Evolution of the Fontan/Kreutzer Procedure&lt;br&gt;Current Status of Survivors of the Fontan/Kreutzer Procedure</td>
<td>Marc R. de Leval, MD  &lt;br&gt;<em>International Congenital Cardiac Centre</em>&lt;br&gt;Jack Rychik, MD  &lt;br&gt;<em>Children’s Hospital of Philadelphia</em></td>
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<td>3:40 - 4:00 pm</td>
<td>Current Status of Survivors of the Fontan/Kreutzer Procedure&lt;br&gt;The Fontan/Kreutzer Procedure: Future Directions</td>
<td>Jack Rychik, MD  &lt;br&gt;<em>Children’s Hospital of Philadelphia</em>&lt;br&gt;Edward L. Bove, MD  &lt;br&gt;<em>University of Michigan</em></td>
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<td>4:00 - 4:20 pm</td>
<td>Discussion&lt;br&gt;The Fontan/Kreutzer Procedure: Future Directions</td>
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<td>4:20 - 5:00 pm</td>
<td>Welcome Reception&lt;br&gt;Exhibit Hall</td>
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SUNDAY AFTERNOON, MAY 10, 2009
3:00 pm - 5:00 pm  
C. WALTON LILLEHEI RESIDENT FORUM SESSION
Room 311, Hynes Convention Center
(7 minutes presentation, 8 minutes discussion)
Moderators: Gus J. Vlahakes, MD  
Ara A. Vaporciyan, MD

L1. In Vivo Structure and Function of Engineered Pulmonary Valves
Danielle Gottlieb,1 Kunal Tandon,1 Sitaram Emani,1 Elena Aikawa,2 David W. Brown,1 Andrew J. Powell,1 Arthur Nedder,1 Michael S. Sacks,3 John E. Mayer1
1. Children’s Hospital Boston and Harvard Medical School, Boston, MA, USA
2. Massachusetts General Hospital and Harvard Medical School, Boston, MA, USA
3. University of Pittsburgh, Pittsburgh, PA, USA

L2. The Graft Imaging to Improve Patency (GRIIP) Trial Results
Steve Singh, Nimesh Desai, Genta Chikazawa, Hiroshi Tsuneyoshi, Visal Pen, Jessica Vincent, Jennifer Ku, Fuad Moussa, Gideon Cohen, George Christakis, Stephen E. Femes
Sunnybrook Health Sciences Centre, Toronto, ON, Canada

L3. Tissue Engineered Pro-Angiogenic Fibroblast Matrix Improves Myocardial Perfusion and Function and Limits Ventricular Remodeling Following Infarction
J. Raymond Fitzpatrick, John R. Frederick, Ryan C. McCormick, David A. Harris, Ah-Young Kim, Max J. Smith, Carine M. Laporte, Jeffrey R. Muenzer, Alex J. Gambogi, Y. Joseph Woo
Division of Cardiovascular Surgery, Hospital of the University of Pennsylvania, Philadelphia, PA, USA

L4. Atorvastatin at Reperfusion Reduces Myocardial Infarct Size in Mice by Activating eNOS of Bone Marrow-derived Cells
Zequan Yang,1 Gorav Ailawadi,1 Joel Linden,2 Brent A. French,3 Irving L. Kron1
1. Surgery, University of Virginia Health System, Charlottesville, VA, USA
2. Medicine, University of Virginia Health System, Charlottesville, VA, USA
3. Biomedical Engineering, University of Virginia Health System, Charlottesville, VA, USA

L5. Quantitative Assessment of Technical Proficiency of Residents in Cardiac Surgery
Hiroo Takayama, Yoshifumi Naka, Mehmet C. Oz, Allan S. Stewart, Mathew R. Williams, Craig R. Smith, Micheal Argenziano
Columbia University, New York, NY, USA

L6. Divergent Impact of Osteopontin Isoforms on Lung Cancer Angiogenesis
Preliminary Program Outline

MONDAY, May 11, 2009 | Plenary Scientific Session

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<tr>
<td>7:30 am</td>
<td>Business Session</td>
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<td>7:45 am</td>
<td>PLENARY SCIENTIFIC SESSION</td>
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<td>(8 minutes presentation, 12 minutes discussion)</td>
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<td>Ballroom A-C, Hynes Convention Center</td>
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<td>Moderators: Thomas L. Spray, MD</td>
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<td>Thoralf M. Sundt, III, MD</td>
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<td>1.</td>
<td>A Formidable Task: Population Analysis Predicts a Deficit of 2,000 Cardiothoracic Surgeons by 2030</td>
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<td>Thomas E. Williams, Benjamin Sun, Patrick Ross, Andrew M. Thomas Surgery, Ohio State University, Columbus, OH, USA</td>
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<td>Roland Hetzer, Evgenij V. Potapov, Oliver Miera, Yu-Guo Weng, Michael Hübler, Felix Berger DHZB, Berlin, Germany</td>
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<td>3.</td>
<td>Long-term Results of Aortic Valve Sparing Operations in Patients with Marfan Syndrome</td>
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<td>Tirone E. David, Susan Armstrong, Manjula Maganti, Jack Colman, Timothy Bradley Cardiovascular Surgery, Toronto General Hospital, Toronto, ON, Canada</td>
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4. Outcomes After Laparoscopic Giant Paraesophageal Hernia Repair in 636 Patients
James D. Luketich, Katie S. Nason, Rodney J. Landreneau, Samuel Keeley, Omar Awais, Manisha Shende, Matthew J. Schuchert, Ghulam Abbas, Blair A. Jobe, Arjun Pennathur
The Heart, Lung and Esophageal Surgery Institute, University of Pittsburgh Medical Center, Pittsburgh, PA, USA

9:05 am
AWARD PRESENTATIONS

9:20 am
INTERMISSION – Visit Exhibits
Exhibit Hall C-D, Hynes Convention Center

10:00 am
BASIC SCIENCE LECTURE
Ballroom A-C, Hynes Convention Center

"Insights from Developmental and Stem Cell Biology"
Jonathan A. Epstein, MD, William Wikoff Smith Professor of Medicine, Chairman, Department of Cell and Developmental Biology, Scientific Director, Penn Cardiovascular Institute, Founding Co-Director, Penn Institute of Regenerative Medicine, University of Pennsylvania
Introduced By: Thomas L. Spray, MD

10:40 am
PLENARY SCIENTIFIC SESSION
Moderators: G. Alexander Patterson, MD
Thoralf M. Sundt, III, MD

5. The Relationship Between Hospital CABG Volume and Multiple Dimensions of CABG Quality
David M. Shahian,1 Sean O'Brien,2 Sharon-Lise Normand,3 Eric Peterson,2 Fred Edwards4
1. Massachusetts General Hospital, Boston, MA, USA
2. Duke Clinical Research Institute, Durham, NC, USA
3. Harvard Medical School, Boston, MA, USA
4. University of Florida, Jacksonville, FL, USA

Sabine Bleiziffer, Hendrik Ruge, Domenico Mazzitelli, Christian Schreiber, Andrea Hutter, Robert Bauernschmitt, Ruediger Lange
Clinic for Cardiovascular Surgery, German Heart Center Munich, Munich, Germany

11:25 am
PRESIDENTIAL ADDRESS
"The Quality Conundrum"
Thomas L. Spray, MD
Philadelphia, Pennsylvania
Introduced by: G. Alexander Patterson, MD

12:15 pm
LUNCH Visit Exhibits Exhibit Hall C-D, Hynes Convention Center

12:15 pm
CARDIOThoracic RESIDENTS’ LUNCHEON
Hynes Convention Center

Hosted by Immediate Past President, D. Craig Miller, the 32nd Annual Cardiothoracic Residents’ Luncheon will be held at 12:15 pm on Monday, May 11th at the Hynes Convention Center. During lunch, residents and medical students will have the opportunity to engage in discussion with the group leader seated at their table. Following the luncheon, the group leaders will respond to questions from the floor.

Although cardiothoracic residents will be guests of the Association, they must still pre-register.
All attendees who register for the luncheon will receive a ticket with their registration materials. This ticket must be presented for admittance to the luncheon.

Tickets for this luncheon are limited and reserved seating will be on a first come, first serve basis.

### ADULT CARDIAC SURGERY

**2:00 pm**

**SIMULTANEOUS SCIENTIFIC SESSION**

(8 minutes presentation, 12 minutes discussion)

Ballroom A-C, Hynes Convention Center

Moderators: R. Duane Davis, Jr, MD

Chuen-Neng Lee, MD

7. **Outcomes of Reoperative Aortic Valve Replacement Following Previous Sternotomy**


*Surgery, University of Virginia, Charlottesville, VA, USA*

8. **Apical Myectomy: A New Surgical Technique for the Management of Severely Symptomatic Patients With Apical Hypertrophic Cardiomyopathy**

Hartzell V. Schaff,1 Morgan L. Brown,1 Steve R. Ommen,1 Joseph A. Dearani,1 Martin D. Abel,1 A. J. Tajik,2 Rick A. Nishimura1

1. Mayo Clinic, Rochester, MN, USA

2. Mayo Clinic, Scottsdale, AZ, USA

9. **Where Does AF Surgery Fail? Implications for Increasing AF Surgical Ablation Effectiveness:**

Patrick M. McCarthy, Jane Kruse, Shanaz Shalli, Leonard Ilkhanoff, Jeffrey Goldberger, Alan Kadish, Rishi Arora, Richard Lee

*Division of Cardiothoracic Surgery, Northwestern University; Northwestern Memorial Hospital, Chicago, IL, USA*

**3:00 pm**

**INTERMISSION**

Visit Exhibits Exhibit Hall C-D, Hynes Convention Center

**3:45 pm**

**SIMULTANEOUS SCIENTIFIC SESSION**

Ballroom A-C, Hynes Convention Center

Moderators: R. Duane Davis, Jr.

MD Chuen-Neng Lee, MD

10. **Have Hybrid Procedures Replaced Open Aortic Arch Reconstruction in High Risk Patients: A Comparative Study of Open Arch Debranching with Endovascular Stent Graft Placement and Conventional Open Total and Distal Aortic Arch Reconstruction**


*Hospital of the University of Pennsylvania, Philadelphia, PA, USA*

11. **Effect of Partial Thrombosis on Distal Aorta after Repair of Acute DeBakey Type I Aortic Dissection**

Suk-Won Song,1 Byung-Chul Chang,2 Bum-Koo Cho,2 Kyung-Jong Yoo2

1. Yondong Severance Hospital, Yonsei University College of Medicine, Seoul, South Korea

2. Severance Hospital, Yonsei University College of Medicine, Seoul, South Korea

12. **Staged Repair Significantly Reduces Paraplegia Rate after Extensive Thoracoabdominal Aortic Aneurysm Repair**
13. Preoperative Very Short Term High Dose Erythropoietin Administration Diminishes Blood Transfusion Rate in Off Pump Coronary Artery Bypass. A Randomized Blind Controlled Study
Luca Weltert, Stefano D'Alessandro, Saverio Nardella, Fabiana Girola, Alessandro Bellisario, Daniele Maselli, Ruggero De Paulis
European Hospital, Rome, Italy

5:05 pm
NHLBI STICH Trial Debate:
Coronary Bypass with Ventricular Reconstruction Does Not Improve Survival Compared to Coronary Bypass Surgery
Ballroom A-C Hynes Convention Center

Moderator: Andrew S. Wechsler, MD
Drexel University College of Medicine

PRO: Robert H. Jones, MD
Duke University Medical Center

CON: Gerald D. Buckberg, MD
UCLA Medical Center

6:00 pm
ADJOURN

2:00 pm SIMULTANEOUS SCIENTIFIC SESSION
(8 minutes presentation, 12 minutes discussion)
Room 302-306, Hynes Convention Center
Moderators: James D. Luketich, MD
Bryan F. Meyers, MD

14. Thoracoscopic Lobectomy is Associated with Lower Morbidity than Open Lobectomy: A Propensity-Matched Analysis from the STS Database
Subroto Paul,1 Nasser K. Altorki,1 Shubin Sheng,2 Paul C. Lee,1 David H. Harpole,2 Mark W. Onaitis,2 Brendon M. Stiles,1 Jeffrey L. Port,1 Thomas A. D'Amico2
1. Cardiothoracic Surgery, New York Presbyterian-Weill Cornell Medical Center, New York, NY, USA
2. Duke University Medical Center, Durham, NC, USA

15. Learning Curves for Video-Assisted Thoracic Surgery Lobectomy in Non-small Cell Lung Cancer
Hyun-Sung Lee, Byung-Ho Nam, Jae Il Zo Center for Lung Cancer, National Cancer Center, Goyang, Gyeonggi, South Korea

Chadrick Denlinger, Jeffrey D. Bradley, Issam M. El Naqa, Jennifer B. Zoole, Bryan F. Meyers, Alec Patterson, Daniel Kreisel, Alexander S. Krupnick, Traves Crabtree
Cardiothoracic Surgery, Washington University School of Medicine, St. Louis, MO, USA
17. **NETT REDUX (Accentuating the Positive)**
Pablo G. Sanchez, John C. Kucharczuk, Stacey Su, Larry R. Kaiser, Joel D. Cooper  
Department of Surgery, Division of Thoracic Surgery, University of Pennsylvania,  
Philadelphia, PA, USA

**INTERMISSION** Visit Exhibits Exhibit Hall C-D, Hynes Convention Center

**SIMULTANEOUS SCIENTIFIC SESSION**  
Room 302-306, Hynes Convention Center  
Moderators: James D. Luketich, MD  
Bryan F. Meyers, MD

18. **Minimally Invasive Repair of Pectus Excavatum: 10-Year Appraisal with 1,170 Patients**
Hyung Joo Park, Jongho Cho, Kwang Taik Kim, Young Ho Choi  
Korea University Medical Center,  
Seoul, South Korea

19. **Aggressive Surgical Treatment of Multidrug-resistant Tuberculosis in the Extensive Drug Resistance Era**
Yuji Shiraishi, Naoya Katsuragi, Hidefumi Kita, Yoshiaki Tominaga, Kota Kariatsumari, Takahito Onda  
Chest Surgery, Fukuijuji Hospital,  
Tokyo, Japan

20. **Reconstruction of the Pulmonary Artery for Lung Cancer: Long Term Results**
Federico Venuta,¹ Anna Maria Ciccone,² Marco Anile,¹ Mohsen Ibrahim,² Francesco Pugliese,¹ Domenico Massullo,² Tiziano De Giacomo,¹ Giorgio F. Coloni,¹ Erino A. Rendina²  
1. University Sapienza of Rome– Policlinico Umberto I,  
Rome, Italy  
2. University Sapienza of Rome– Ospedale S. Andrea,  
Rome, Italy

21. **Tracheal Sleeve Pneumonectomy for Lung Cancer After Induction Chemotherapy**
Domenico Galetta, Piergiorgio Solli, Giulia Veronesi, Alessandro Borri, Roberto Gasparri, Francesco Petrella, Lorenzo Spaggiari  
Division of Thoracic Surgery, European Institute of Oncology,  
Milan, Italy

5:15 pm  
**ADJOURN**

**CONGENITAL HEART DISEASE**

2:00 pm  
**SIMULTANEOUS SCIENTIFIC SESSION**  
(8 minutes presentation, 12 minutes discussion)  
Room 312, Hynes Convention Center  
Moderators: James S. Tweddell, MD  
Vaughn A. Starnes, MD

22. **Is Cardiac Diagnosis a Predictor of Neurodevelopmental Outcome after Cardiac Surgery in Infancy?**
J. W. Gaynor,¹ Marsha Gerdes,¹ Alex S. Nord,² Judy Bernbaum,¹ Elaine H. Zackai,¹ Gil Wernovsky,¹ Robert R. Clancy,¹ Patrick J. Heagerty,² Cynthia B. Solot,¹ Jo Ann D’Agostino,¹ Nancy B. Burnham,¹ Donna McDonald- McGinn,¹ Susan C. Nicolson,¹ Thomas L. Spray,¹ Gail P. Jarvik²  
1. The Children’s Hospital of Philadelphia,
23. Endothelial Nitric Oxide Synthase Gene Polymorphism and Pulmonary Hypertension in Children with Congenital Heart Diseases
Tsvetomir S. Loukanov,¹ Christian Sebening,¹ Nina Hoss,² Pencho Tonchev,² Matthias Karck, Matthias Gorenflo
¹. Cardiac Surgery, University of Heidelberg, Heidelberg, Germany
². Pediatric Cardiology, University of Heidelberg, Heidelberg, Germany

24. Left Ventricular Rehabilitation is Effective in Maintaining Two-Ventricle Physiology in the Borderline Left Heart
Sitaram Emani, Emile A. Bacha, Doff McElhinney, Gerald Marx, Wayne Tworetzky, Frank A. Pigula, Pedro J. del Nido
Children's Hospital Boston, Boston, MA, USA

25. A Contemporary Comparison of the Effect of Shunt Type in Hypoplastic Left Heart Syndrome on the Hemodynamics and Outcome at Fontan Completion
Jean A. Ballweg,¹ Troy E. Dominguez,¹ Chitra Ravishankar,¹ Peter J. Gruber,¹ Gil Wernovsky,¹ J. W. Gaynor,¹ Susan C. Nicolson,¹ Thomas L. Spray,¹ Sarah Tabbutt²
¹. Children's Hospital of Philadelphia, Philadelphia, PA, USA
². University of California San Francisco, San Francisco, CA, USA

3:20 pm
INTERMISSION
Visit Exhibits Exhibit Hall C-D, Hynes Convention Center

4:00 pm
SIMULTANEOUS SCIENTIFIC SESSION
Room 312, Hynes Convention Center
Moderators: James S. Tweddell, MD
Vaughn A. Starnes, MD

26. Chronological Changes in P-wave Characteristics after the Fontan Procedure: Impact of Surgical Modification
Masahiro Koh,¹ Hideki Uemura,² Akiko Kada,¹ Koji Kagisaki,¹ Ikuo Hagino,¹ Toshikatsu Yagihara¹
¹. National Cardiovascular Center, Osaka, Japan
². Royal Brompton Hospital, London, United Kingdom

27. Depth of Ventricular Septal Defect and Impact on Reoperation for Left Ventricular Outflow Obstruction after Repair of Complete Atrioventricular Septal Defect: Does Double Patch Technique Decrease the Incidence of Left Ventricular Outflow Obstruction? Anatomical and Clinical Correlation
Anastasios C. Polimenakos,¹ Shyam K. Sathanandam,² Soraia Bharati,² Vivian Cui,² David Roberson,² Mary Jane Barth,² Chawki ElZein,² Robert S.D. S. Higgins,¹ Michel Ilbawi²
¹. Center for Congenital and Structural Heart Disease/Rush University Medical Center, Chicago, IL, USA
2. The Heart Institute for Children at Hope Christ Hospital, Oak Lawn, IL, USA
## 28. Fenestration During Fontan Palliation: Now the Exception Instead of the Rule
Jorge D. Salazar, Kashif Siddiqui, Farhan Zafar, Ryan Coleman, David L. Morales, Jeffrey Heinle, Charles D. Fraser
*Congenital Heart Surgery, Texas Children’s Hospital, Houston, TX, USA*

5:00 pm

**ADJOURN**

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### 2009 PROGRAM AND ABSTRACTS

#### Preliminary Program Outline

**Tuesday, May 12, 2009 | Cardiac Surgery Forum Session**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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| 7:00 am – 8:45 am | CARDIAC SURGERY FORUM SESSION  
(5 minutes presentation, 7 minutes discussion)  
Ballroom A-C, Hynes Convention Center  
Moderators: James S. Gammie, MD, John A. Kern, MD |

**F1. Vascularized Patch Used for Cardiac Reconstruction Stimulates Myocardial Tissue-Specific Regeneration**
Serghei Cebotari,1 Sava Kostin,2 Igor Tudorache,1 Matthias Karck,1 Christoph Bara,1 Omke Teebken,1 Tanja Meyer,1 Alexandru Calistru,1 Andres Hilfiker,1 Axel Haverich1
1. Thoracic and Cardiovascular Surgery, Hannover Medical School, Hannover, Germany  
2. Max-Planck-Institute for Heart and Lung Research, Bad Nauheim, Germany

**F2. Repair of the Right Ventricular Outflow Tract by a Mesenchymal Stem Cell-Seeded Bioabsorbable Valved Patch: Medium-Term Follow-Up in a Growing Lamb Model**
David Kalfa,1 Alain Bel,2 Annabel Chen-Tournoux,1 Philippe Rochereau,1 Cyrielle Coz,1 Valérie Bellamy,1 Elie Mousseaux,3 Patrick Bruneval,1 Jérôme Larghero,5 Philippe Menasché1
1. INSERM U633, Paris, France  
2. Hôpital Européen Georges Pompidou, Department of Cardiovascular Surgery, University Paris Descartes, Paris, France  
3. Hôpital Européen Georges Pompidou, Department of Radiology,
F3. The Novel Synthetic Serine-Protease Inhibitor CU2010 Dose-Dependently Reduces Postoperative Blood Loss and Improves Postischemic Recovery after Cardiac Surgery
Gábor Szabó, Tamás Radovits, Gábor Veres, Matthias Karck
Department of Cardiac Surgery, University of Heidelberg, Heidelberg, Germany

F4. 3D Geometry of the Mitral Valve Determines the Success of Secondary Chordal Cutting in Alleviating Ischemic Mitral Regurgitation
Muralidhar Padala,1 Katherine L. Bell,1 Vinod H. Thourani,3 David H. Adams,2 Ajit P. Yoganathan1
1. Biomedical Engineering, Georgia Institute of Technology, Atlanta, GA, USA
2. Mt. Sinai Hospital, New York, NY, USA
3. Emory University, Atlanta, GA, USA

F5. Successful Resuscitation after Prolonged Periods of Cardiac Arrest—A New Field in Cardiac Surgery
Georg Trummer,1 Katharina Foerster,1 Gerald D. Buckberg,2 Christoph Benk,1 Claudia Heilmann,1 Irina Mader,1 Friedrich Feuerhake,1 Oliver Liakopoulos,2 Kerstin Brehm,1 Friedhelm Beyersdorf1
1. University Hospital Freiburg, Freiburg, Germany
2. David Geffen School of Medicine, University of California, Los Angeles, CA, USA

F6. Smooth Muscle Phenotypic Modulation is an Early Event in Murine Aortic Aneurysms and Human Aneurysms
Gorav Ailawadi, Sandra P. Walton, Hong Pei, Chris W. Moehle, Zequan Yang, Christine Lau, Mark C. Mochel, Irving L. Kron, Gary K. Owens
TCV Surgery, University of Virginia, Charlottesville, VA, USA

F7. Biodegradable Synthetic Small-calibre Vascular Grafts: Long-term Results after Replacement of the Rat Aorta
Beat H. Walpolt,1 Damiano Mugnai,1 Jean-Christophe Tille,2 Francesco Innocente,1 Benjamin Nottelet,3 Corinne Berthonneche,4 Xavier Montet,5 Sarra de Valence,6 Wojciech Mrowczynski,1 Michael Moeller,3 Robert Gurny,3 Afksendiyos Kalangos1
1. Dept. of Cardiovascular Surgery, University Hospital of Geneva, Geneva, Switzerland
2. Dept. of Pathology, University Hospital of Geneva, Geneva, Switzerland
3. Dept. of Pharmaceutics & Biopharmaceutics EPGL, University of Geneva, Geneva, Switzerland
4. Dept. of Medicine, University Hospital of Lausanne, Lausanne, Switzerland
5. Dept. of Radiology, University Hospital of Geneva, Geneva,
F8. Optimal Flow Rate For Antegrade Cerebral Perfusion
Takashi Sasaki, Shoichi Tsuda, Robert K. Riemer, Vadiyala Mohan Reddy, Frank L. Hanley
Cardiothoracic Surgery, Stanford University, Stanford, CA, USA

F9. Reduced Oxidative Stress Response in the Ascending Aorta of Bicuspid Aortic Valve Patients: Impact on the Extracellular Matrix
Julie A. Phillippi, Michael A. Eskay, Bruce R. Pitt, Thomas G. Gleason
Division of Cardiothoracic Surgery, University of Pittsburgh, Pittsburgh, PA, USA

7:00 am – 8:45 am
GENERAL THORACIC FORUM SESSION
(5 minutes presentation, 7 minutes discussion)
Room 302-306, Hynes Convention Center
Moderators: Yolonda L. Colson, MD
David S. Schrump, MD

F10. MAGE-A3 Expression is an Independent Determinant of Worse Survival in Stage IA Non-Small Cell Lung Cancer
Jeffrey L. Port,1 Sacha Gnjatic,2 Otavia Caballero,2 Ramon Chua,2 Achim A. Jungbluth,2 Gerd Ritter,2 Cathy A. Ferrara,1 Paul C. Lee,1 Lloyd J. Old,2 Nasser K. Altorki1
1. Weill Cornell Medical College/NY Presbyterian Hospital, New York, NY, USA
2. Ludwig Institute for Cancer Research, New York, NY, USA

F11. MicroRNA Expression Profiles Predict Recurrence after Surgery for Stage 1 Non-small Cell Lung Cancer
Sai Yendamuri,1 Steen Knudsen,2 Todd L. Demmy,1 Santosh Patnaik1
1. Roswell Park Cancer Institute, Buffalo, NY, USA
2. Medical Prognosis Institute, Horsholm, Denmark

F12. Seventy-two Hours Total Respiratory Support with a Single Double-lumen Cannula Placed in a Venousvenous Pump-driven Extracorporeal Lung Membrane
David Sanchez-Lorente, Tetsuhiko Go, Philipp Jungebluth, Irene Rovira, Paolo Macchiarini
General Thoracic Surgical Experimental Laboratory, Universitat de Barcelona, Barcelona, Spain

F13. Replacement of the Trachea with Fully Bioengineered Graft in Pigs
Tetsuhiko Go, Philipp Jungebluth,1 Adelaide Asnaghi,2 Sara Mantero,2 Maria-Teresa Conconi,3 Antony Hollander,4 Martin Birchall,4 Paolo Macchiarini1
1. General Thoracic Surgical Experimental Laboratory, Universitat de Barcelona, Barcelona, Spain
2. Department of Bioengineering, Politecnico di Milano, Milano, Italy
3. Pharmaceutical Science, University of Padua, Padua, Italy
4. Department of Cellular and Molecular Medicine, School of Medical Sciences, Bristol, United Kingdom
F14. **DYRK2, a Dual-specificity Tyrosine-(Y)-Phosphorylation-regulated Kinase Gene, Expression can be a Predictive Marker for Chemotherapy in Non-small Cell Lung Cancer**  
Shin-ichi Yamashita, Katsunobu Kawahara  
Surgery II, Oita University Faculty of Medicine, Yufu, Japan

F15. **Generation of Epigenetically-modified Autologous Tumor Cell Lines for Vaccines Targeting Cancer-testis Antigens in Thoracic Malignancies**  
David S. Schrump, Julie A. Hong, Mary Zhang, Yuwei Zhang, Tricia F. Kunst, Ana Hancox, Leandro Mercedès, King Kwong  
Thoracic Oncology Section, NCI, Bethesda, MD, USA

F16. **Atrial Natriuretic Peptide Extends Lung Preservation Attenuating Ischemia-Reperfusion Lung Injury Through Phospholipase A2 Inhibition**  
Yury A. Bellido Reyes, Prudencio Díaz-Agero, Joaquin García S. Girón  
Thoracic Surgery, La Paz Hospital, Madrid, Spain

F17. **Comparative Glycomic Profiling in Esophageal Adenocarcinoma**  
Zane Hammoud,¹ Yehia Mechref,² Ahmed Hussein,² Slavka Bekesova,² Min Zhang,² Kenneth Kesler,³ Robert Hickey,³ Milos Novotny²  
1. Cardiothoracic Surgery, Henry Ford Health System, Detroit, MI, USA  
2. Indiana University, Bloomington, IN, USA  
3. Indiana University School of Medicine, Indianapolis, IN, USA

F18. **Matrix Metalloproteinase Expression in Adenocarcinoma and Squamous Cell Carcinoma of the Lung**  
Sonam A. Shah,¹ John S. Ikonomidis,² Robert E. Stroud,² Eileen I. Chang,² Francis G. Spinale,² Carolyn E. Reed²  
1. Medical University of South Carolina, College of Medicine, Charleston, SC, USA  
2. Medical University of South Carolina, Department of Surgery, Charleston, SC, USA

**Tuesday, May 12, 2009 | Plenary Scientific Session**

**PLENARY SCIENTIFIC SESSION**  
(8 minutes presentation, 12 minutes discussion)  
Ballroom A-C, Hynes Convention Center  
Moderators: Thomas L. Spray, MD  
Thoralf M. Sundt, III, MD

29. **Non Operative Thoracic Duct Embolization for Traumatic Chylothorax: Experience in 103 patients**  
Maxim Itkin, John C. Kucharczuk, Scott O. Trerotola, Andrew Kwak, Constantin Cope, Larry R. Kaiser Maxim Itkin,  
University of Pennsylvania, Philadelphia, PA, USA

30. **Valve Repair for Regurgitant Bicuspid Aortic Valves: A Systematic Approach**  
Munir Boodhwani, Laurent de Kerchove, David Glineur, Robert Verhelst,
Jean Rubay, Christine Watremez, Pasquet Agnes, Philippe Noirhomme, Gebrine El Khoury Cardiovascular and Thoracic Surgery, Cliniques Universitaires Saint Luc, Brussels, Belgium

31. Ten-Year Experience of Off-Pump Coronary Artery Bypass; Lessons Learned from Early Postoperative Angiograms
Ki-Bong Kim, Jun-Sung Kim, Hae-Young Lee, Hyun-Jae Kang, Bon-Kwon Koo, Hyo-Soo Kim, Dae-Won Sohn, Byung-Hee Oh, Young-Bae Park
Seoul National University Hospital, Seoul, South Korea

32. Pneumonectomy after Chemo- or Chemoradiotherapy for Advanced Non-Small Cell Lung Cancer
Walter Weder,1 Stéphane Collaud,1 Thomas Krbek,2 Sven Hillinger,1 Sylvia Fechner,2 Peter Kestenholz,1 Rolf Stahel,1 Georgios Stamatis2
1. Zurich University Hospital, Zürich, Switzerland
2. Ruhrlandklinik, Essen, Germany

10:05 am INTERMISSION Visit Exhibits Exhibit Hall C-D, Hynes Convention Center

10:40 am PLENARY SCIENTIFIC SESSION
(8 minutes presentation, 12 minutes discussion)
Ballroom A-C, Hynes Convention Center
Moderators: Thomas L. Spray, MD Thoralf M. Sundt, III, MD

33. Right Ventricle and Tricuspid Valve Function at Mid-term Following the Fontan Operation for Hypoplastic Left Heart Syndrome: Impact of Shunt Type.
Victor Bautista-Hernandez, Ravi Thiagarajan, Hugo Loyola, Jared Schiff, Joshua Salvin, John E. Mayer, Mark Scheurer, Frank A. Pigula, Francis Fynn-Thompson, Pedro J. del Nido, Emile A. Bacha
Children’s Hospital Boston, Harvard Medical School, Boston, MA, USA

34. Four Decades of Experience with Mitral Valve Repair: Analysis of Differential Indications, Technical Evolution and Long-Term Outcome
Daniel J. DiBardino, Andrew W. ElBardissi, Ann Maloney, R Scott McClure, Oswaldo Razo-Vasquez, Judah A. Askew, Lawrence H. Cohn
Cardiac Surgery, Harvard Medical School, Boston, MA, USA

11:20 am The Role of Simulation in Future Cardiothoracic Surgical Education

11:50 am HONORED SPEAKER LECTURE
The Creation of the Universe, String Theory and Time Travel
Dr. Michio Kaku
City University of New York
Introduced By: Thomas L. Spray, MD

12:30 pm LUNCH - Visit Exhibits
Exhibit Hall C-D, Hynes Convention Center
2:00 pm  SIMULTANEOUS SCIENTIFIC SESSION
(8 minutes presentation, 12 minutes discussion)
Ballroom A-C, Hynes Convention Center
Moderators: Joseph F. Sabik, MD
          David H. Adams, MD

35. The Papillary Muscle Sling for Ischemic Mitral Regurgitation
U. Hvass, Thomas Joudinaud
Heart Surgery, Bichat Hospital,
Paris, France

36. Surgical Management of Secondary Tricuspid Valve Regurgitation: Anulus, Commissure, or Leaflet Procedure?
Cleveland Clinic,
Cleveland, OH, USA

37. When is the Ross Procedure a Good Option to Treat Aortic Valve Disease?
Tirone E. David, Anna Woo, Susan Armstrong, Manjula Maganti
Cardiovascular Surgery, Toronto General Hospital,
Toronto, ON, Canada

3:00 pm  INTERMISSION - Visit Exhibits
Exhibit Hall C-D, Hynes Convention Center

3:45 pm  SIMULTANEOUS SCIENTIFIC SESSION
Ballroom A-C, Hynes Convention Center
Moderators: Joseph F. Sabik, MD
          David H. Adams, MD

38. Surgical Ventricular Restoration for Anteroseptal Scars. Volume or Shape?
Antonio M. Calafiore,¹ Angela L. Iacò,¹ Davide Amata,¹ Cataldo Castello,¹ Egidio Varone,¹ Fabio Falconieri,¹ Antonio Bivona,¹ Sabina Gallina,² Michele Di Mauro³
1. Cardiac Surgery, University of Catania, Catania, Italy
2. University of Chieti– Department of Cardiology, Chieti, Italy
3. University of Catania– Villa Bianca Hospital, Catania–Bari, Italy

39. Early and Late Outcome of 517 Consecutive Adult Patients Treated with Extracorporeal Membrane Oxygenation for Refractory Postcardiotomy Cardiogenic Shock
Ardawan J. Rastan, Andreas Dege, Matthias Mohr, Nicolas Doll, Sven Lehmann, Volkmar Falk, Friedrich W. Mohr
Heart Surgery, Heart Center Leipzig,
Leipzig, Germany

40. Duration of LVAD Support Does Not Impact Post-Cardiac Transplant Survival in the Continuous-Flow Pump Era
Ranjit John,¹ Francis D. Pagani,² Yoshifumi Naka,³ John V. Conte,⁴ Charles T. Klodell,⁶ Carmelo A. Milano,⁶ David Farrar,⁷ O Howard
1. Frazier
2. University of Minnesota, Minneapolis, MN, USA
3. University of Michigan, Ann Arbor, MI, USA
4. Columbia University, New York, NY, USA
5. John Hopkins, Baltimore, MD, USA
6. University of Florida, Gainesville, FL, USA
7. Duke University, Durham, NC, USA
8. Thoratec Corporation, Pleasanton, CA, USA.
9. Texas Heart Institute, Houston, TX, USA.

5:00 pm
EXECUTIVE SESSION
(AATS Members Only)
Ballroom A-C, Hynes Convention Center

GENERAL THORACIC SURGERY

2:00 pm
SIMULTANEOUS SCIENTIFIC SESSION
(8 minutes presentation, 12 minutes discussion)
Room 302-306, Hynes Convention Center
Moderators: Nasser K. Altorki, MD
Shaf Keshavjee, MD

41. Endobronchial Ultrasound-Guided Fine-Needle Aspiration of Mediastinal Lymph Nodes: The Thoracic Surgeon’s Perspective
Shawn S. Groth, Natasha M. Rueth, Jonathan D’Cunha, Michael A. Maddaus, Rafael S. Andrade
Surgery, University of Minnesota, Minneapolis, MN, USA

42. Extracorporeal Membrane Oxygenation in Pediatric Lung Transplantation
Varun Puri,1 Deirdre Epstein,1 Steven C. Raithal,1 Sanjiv K. Gandhi,1 Stuart C. Sweet,2 Albert Faro,2 Charles B. Huddleston1
1. Division of Cardiothoracic Surgery, Washington University, St. Louis, MO, USA
2. Department of Pediatrics, Washington University, St. Louis, MO, USA

43. Lung Transplantation Using Donation after Cardiac Death Donors: Long-term Follow-up in a Single Center
Satoru Osaki,1 James D. Maloney,1 Keith C. Meyer,2 Richard D. Cornwell,2 Holly K. Thomas,1 Niloo M. Edwards,1 Nilto C. De Oliveira1
1. Division of Cardiothoracic Surgery, Department of Surgery, University of Wisconsin School of Medicine and Public Health, Madison, WI, USA
2. Section of Allergy, Pulmonary, and Critical Care Medicine, Department of Medicine, University of Wisconsin School of Medicine and Public Health, Madison, WI, USA

3:00 pm
INTERMISSION - Visit Exhibits
Exhibit Hall C-D, Hynes Convention Center

3:45 pm
SIMULTANEOUS SCIENTIFIC SESSION
Room 302-306, Hynes Convention Center
Moderators: Nasser K. Altorki, MD
Shaf Keshavjee, MD

44. Laparoscopic Diaphragm Plication: An Objective Evaluation of Short-and Mid-Term Results
Shawn S. Groth,¹ Natasha M. Rueth,¹ Amy Klopp,¹ Teri Kast,¹ Jonathan D’Cunha,¹ Rosemary F. Kelly,² Michael A. Maddaus,¹ Rafael S. Andrade,¹
1. Surgery, University of Minnesota, Minneapolis, MN, USA
2. Minneapolis Veterans Affairs Medical Center, Minneapolis, MN, USA

45. Minimally Invasive Resection of Stage 1 and 2 Thymoma: Comparison with Open Resection
Arjun Pennathur, Irfan Qureshi, Matthew Schuchert, Peter Ferson, Neil A. Christie, Sebastien Gilbert, William Gooding, Manisha Shende, Rodney J. Landreneau, James D. Luketich
University of Pittsburgh Medical Center, Pittsburgh, PA, USA

46. Predictive Factors for Survival in Esophageal Cancer Patients with Persistent Lymph Node Metastases Following Neoadjuvant Therapy and Surgery
Brendon M. Stiles,¹ Subroto Paul,¹ Jeffrey L. Port,¹ Paul C. Lee,¹ Paul Christos,² Nasser K. Altorki¹
1. Division of Thoracic Surgery, New York Presbyterian Hospital, Weill Cornell Medical College, New York, NY, USA
2. Department of Biostatistics and Epidemiology, New York Presbyterian Hospital, Weill Cornell Medical College, New York, NY, USA

5:00 pm EXECUTIVE SESSION
(Members Only)
Ballroom A-C, Hynes Convention Center

2:00 pm SIMULTANEOUS SCIENTIFIC SESSION
(8 minutes presentation, 12 minutes discussion)
Room 312, Hynes Convention Center
Moderators: J. William Gaynor, MD
Richard G. Ohye, MD

47. Genetic Factors are Important Determinants of Impaired Growth Following Infant Cardiac Surgery
Nancy B. Burnham,¹ Richard F. Ittenbach,² Virginia A. Stallings,¹ Marsha Gerdes,¹ Elaine H. Zackai,¹ Judy Bernbaum,¹ Gil Wernovsky,¹ Robert R. Clancy,¹ Jo Ann D'Agostino,¹ Donna McDonald-McGinn,¹ Diane Hartman,¹ Jennifer Raue,¹ Jennifer Hufford,¹ Courtney Terrili,¹ Susan C. Nicolson,¹ Thomas L. Spray,¹ J. William Gaynor¹
1. Children’s Hospital of Philadelphia, Philadelphia, PA, USA
2. Cincinnati Children’s Hospital Medical Center, Cincinnati, OH, USA

48. Mechanical Mitral Valve Prostheses in Children Don’t Deserve Their Ill Repute
Roland Henaine, Joseph Nloga, Fabrice Wautot, Jacques Robin, Jean-François L. Obadia, Jean Ninet
Cadiothoracique Surgery, Lyon, France

49. Fate of Reconstructed Biventricular Outflow Tracts after Repair for Transposition of the Great Arteries with Ventricular Septal Defect and Left Ventricular Outflow Tract Obstruction: Midterm Results and Future Implications
Sheng-shou Hu, Yan Li, Shoujun Li, Zhigang Liu, Zhe Zheng, Yongqing
3:00 pm  INTERMISSION - Visit Exhibits  
Exhibit Hall C-D, Hynes Convention Center

3:30 pm  SIMULTANEOUS SCIENTIFIC SESSION  
Room 312, Hynes Convention Center  
Moderators: J. William Gaynor, MD  
Richard G. Ohye, MD

50. Gene Expression Profiling in the Right Ventricular Myocardium of Newborns with Hypoplastic Left Heart Syndrome  
Marco Ricci,1 Bhagyalaxmi Mohapatra,2 Arnel Urbiztondo,1 Matteo Vatta2  
1. Cardiothoracic Surgery, University of Miami Miller School of Medicine, Miami, FL, USA  
2. Texas Children’s Hospital/Baylor College of Medicine, Houston, TX, USA

51. Twenty Three Years of One-stage End-to-Side Anastomosis Repair of Interrupted Aortic Arch  
Yves d’Udekem,1 Aisyah S. Hussin,1 Ajay J. Iyengar,1 Igor E. Konstantinov,1 Suzan M. Donath,1 Gavin R. Wheaton,2 Andrew M. Bullock,3 Leeanne E. Grigg,4 Bryn O. Jones,5 Christian P. Brizard1  
1. Cardiac Surgery, Royal Children’s Hospital, Parkville, Melbourne, VIC, Australia  
2. Women’s and Children’s Hospital, Adelaide, SA, Australia  
3. Princess Margaret Hospital, Perth, WA, Australia  
4. Royal Melbourne Hospital, Melbourne, VIC, Australia

52. Unifocalisation of Major Aortopulmonary Arteries in Pulmonary Atresia with Ventricular Septal Defect is Essential to Achieve Excellent Outcomes Irrespective of Native Pulmonary Artery Morphology  
Ben Davies,1 Shafi Mussa,1 Paul Davies,2 John Stickley,1 John G. Wright,1 Joseph V. de Giovannì,1 Oliver Stümper,1 Rami Dhillon,1 Timothy J. Jones,1 David J. Barron,1 William J. Brawn1  
1. Department of Cardiac Surgery, Birmingham Children’s Hospital, Birmingham, United Kingdom  
2. Institute of Child Health, University of Birmingham, Birmingham, United Kingdom

53. Impact of Comprehensive Perioperative and Interstage Monitoring on Survival in High-risk Infants after Stage 1 Palliation of Univentricular Heart Disease  
Nancy S. Ghanayem,1 Kathleen A. Mussatto,2 George M. Hoffman,1 Michael E. Mitchell,1 Michele A. Frommelt,1 Joseph R. Cava,1 James S. Tweddell1  
1. Medical College of Wisconsin, Milwaukee, WI, USA  
2. Children’s Hospital of Wisconsin, Milwaukee, WI, USA

5:00 pm  EXECUTIVE SESSION  
(Members Only)  
Ballroom A-C, Hynes Convention Center
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<tr>
<th>Time</th>
<th>Session</th>
<th>Presenters</th>
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<td>7:00 am</td>
<td><strong>EMERGING TECHNOLOGIES AND TECHNIQUES FORUM</strong></td>
<td>(5 Minutes Presentation, 7 Minutes Discussion)</td>
<td>Ballroom A-C, Hynes Convention Center</td>
<td>Moderators: Robert J. McKenna, MD</td>
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<td>Lars G. Svensson, MD</td>
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<td><strong>T1. The Direct Flow Valve: First in Man Experience with a Repositionable and Retrievable Pericardial Valve for Percutaneous Aortic Valve Replacement</strong></td>
<td>Hendrik Treede, Jochen Schofer, Thilo Tuebler, Olaf Franzen, Thomas Meinertz, Reginald Low, Steven F. Bolling, Hermann Reichenspurner</td>
<td>1. Department of Cardiovascular Surgery, University Heart Center Hamburg, Hamburg, Germany</td>
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<td>2. University of California Davis, Davis, CA, USA</td>
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<td>4. University of Michigan Hospital, Ann Arbor, MI, USA</td>
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<td><strong>T2. Use of Subclavian-Carotid Bypass and Thoracic Stent Grafting to Minimize Cerebral Ischemia in Total Aortic Arch Reconstructions</strong></td>
<td>Steve Xydas, Benjamin Wei, Hiroo Takayama, Mark J. Russo, Craig R. Smith, Matthew D. Bacchetta, Allan Stewart</td>
<td>1. NY Presbyterian Hospital-Columbia, Division of Cardiothoracic Surgery, New York, NY, USA</td>
<td>1. NY Presbyterian Hospital-Columbia, Division of Cardiothoracic Surgery, New York, NY, USA</td>
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<td>2. NY Presbyterian Hospital-Columbia, Department of Surgery, New York, NY, USA</td>
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<td><strong>T3. Transcatheter Aortic Valve Replacement in High-risk Patients: Superior Results Compared to Conventional Surgery</strong></td>
<td>Robert Bauernschmitt, Domenico Mazzitelli, Christian Schreiber, Hendrik Ruge, Sabine Bleiziffer, Peter Tassani, Ruediger Lange</td>
<td>Clinic for Cardiovascular Surgery, German Heart Center Munich, Munich, Germany</td>
<td>1. NY Presbyterian Hospital-Columbia, Division of Cardiothoracic Surgery, New York, NY, USA</td>
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<td>2. NY Presbyterian Hospital-Columbia, Department of Surgery, New York, NY, USA</td>
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<td><strong>T4. Cavopulmonary Assist Using a Percutaneous, Bi-conical, Single Impeller Pump: a New Spin for Fontan Circulatory Support</strong></td>
<td>Mark D. Rodefeld, Brandon Coats, Travis Fisher, John Brown, Steve Frankel</td>
<td>1. Department of Surgery, Indiana University School of Medicine, Indianapolis, IN, USA</td>
<td>1. Department of Surgery, Indiana University School of Medicine, Indianapolis, IN, USA</td>
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<td>2. Purdue University Department of Mechanical Engineering, West Lafayette, IN, USA</td>
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<td><strong>T5. Tissue Engineered Vascular Grafts in Humans: Correlating Clinical Outcomes to Vascular Neotissue Formation in Mice</strong></td>
<td>Narutoshi Hibino, Edward McGillickey, Tai Yi, Goki Matsumura, Uji Naito, Hiromi Kurosawa, Christopher Breuer, Toshiharu Shinoka</td>
<td>1. Yale University School of Medicine, New Haven, CT, USA</td>
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<td>2. Tokyo Women’s Medical University, Tokyo, Japan</td>
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<td><strong>T6. Abdominal Debranching with Thoracic Endografting for the Treatment of</strong></td>
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Thoraco-abdominal Aneurysm in 21 Consecutive Patients
Jacques Kpodonu,1 Venkatesh Ramaiah,2 Grayson H. Wheatley,2 Julio Rodriguez-Lopez,2 David Caparrelli,2 Rame Iberdemaj,2 Edward B. Diethrich2
1. Hoag Memorial Presbyterian, Newport Beach, CA, USA
2. Arizona Heart Institute, Phoenix, AZ, USA

T7. High Resolution Analysis of Lung Cancer Stem and Progenitor Cells in Primary Non Small Cell Adenocarcinoma
Vera S. Donnenberg,1 Rodney J. Landreneau,2 James D. Luketich,2 Albert D. Donnenberg1
1. Surgery, University of Pittsburgh, Pittsburgh, PA, USA
2. Hillman Cancer Center, Pittsburgh, PA, USA

T8. Robotic Lobectomy for the Treatment of Early Stage Lung Cancer
Giulia Veronesi,1 Franca Melfi,2 Domenico Galetta,1 Ralph A. Schmid,3 Patrick Maisonneuve,1 Nicole Rotmensz,1 Fernando Vannucci,1 Raffaella Bertolotti,1 Lorenzo Spaggiari1
1. Division of Thoracic Surgery, European Institute of Oncology, Milan, Italy
2. Department of Cardio-Thoracic Surgery, University Hospital, Pisa, Italy
3. Division of Thoracic Surgery, University Hospital, Berne, Switzerland

9:00 am
CONTROVERSIES IN CARDIOTHORACIC SURGERY
PLENARY SESSION
Ballroom A-C, Hynes Convention Center

Topic: The Sole Pathway Leading to ABTS Certification Should be a Comprehensive Integrated Cardiothoracic Surgery Training Program Beginning Directly after Medical School
Moderator: G. Alexander Patterson, MD St. Louis, MO

Pro: Richard H. Feins, MD
University of North Carolina, Chapel Hill

Con: David R. Jones, MD
University of Virginia, Charlottesville

Simultaneous Scientific Session

10:00 am - 12:00 pm
Ablation vs. Surgery for Atrial Fibrillation: Antagonism or Synergism?
Ballroom A-C, Hynes Convention Center
Chairman: Thoralf M. Sundt, III, MD

10:00 am
The “Classic Maze”: Experimental Origins, Surgical Lesion Sets, Alternative Energy Sources
Ralph J. Damiano, Jr., MD
Washington University

10:15 am
Neurological Approaches to the AF Problem

Ganglion Mapping
James H. McClelland, MD
Oregon Cardiology, PC

Cervical Interventions
Benjamin J. Scherlag, MD
Cardiac Arrhythmia Research Institute
Less Invasive Approaches – Critical Step or Critical Mistake?

Robotics as Applied to Arrhythmia Surgery
Ranny Chitwood, MD
East Carolina University School of Medicine

Thoracoscopic Arrhythmia Surgery
Richard Lee, MD
Northwestern

Intravascular Approaches
Vivek Y. Reddy, MD
University of Miami Hospital

Defining Success
Richard J. Shemin, MD
University of California, Los Angeles

11:25 am

Working Together Panel
Ralph J. Damiano, Jr., MD
Washington University

James H. McClelland, MD
Oregon Cardiology, PC
Benjamin J. Scherlag, MD
Cardiac Arrhythmia Research Institute

Ranny Chitwood, MD
East Carolina University School of Medicine

Richard Lee, MD
Northwestern

Simultaneous Scientific Session

10:00 am - 12:00 pm
Pneumonectomy: A treatment or a disease?
Room 302-306, Hynes Convention Center
Chairman: Thomas A. D’Amico, MD

10:00 am - 10:15 am
Patient Selection for Pneumonectomy
Joseph P. Shrager, MD
University of Pennsylvania

10:15 am - 10:30 am
Role of Thoracoscopic Pneumonectomy
Todd L. Demmy, MD
Roswell Park Cancer Institute

10:30 am - 10:45 am
Managing Intraoperative Complications
G. Alexander Patterson, MD
Washington University

10:45 am - 11:00 am
Early Complications after Pneumonectomy
Valerie W. Rusch, MD
Memorial Sloan-Kettering Cancer Center

11:00 am - 11:15 am
Late Complications after Pneumonectomy
Douglas J. Mathisen, MD
Massachusetts General Hospital
11:15 am - 11:30 am  Pneumonectomy after Induction Therapy
Walter Weder, MD
University Hospital

11:30 am - 11:45 am  Extrapleural Pneumonectomy
David J. Sugarbaker, MD
Brigham & Women’s Hospital

11:45 am – 12:00 pm  Discussion

AATS 2009 FACULTY DISCLOSURE

Disclosure Policy

It is the policy of the American Association for Thoracic Surgery that any individual who makes a presentation or is a co-author on a program designated for AMA Physician’s Recognition Award Category 1 Credit must disclose any financial interest or other relationship (grant, research support, consultant, etc.) that individual has with any manufacturer(s) of any commercial product(s) that may be discussed in the individual’s presentation. Authors who may have a possible conflict of interest are denoted in the program book. Authors must disclose any material, financial, or other relationships that may pose conflict of interest at the time of presentation.

To view the faculty disclosure index, please click on the link below:
Disclosure Index >

CONTINUING MEDICAL EDUCATION

The 89th Annual Meeting
May 9–13, 2009
Hynes Convention Center, Boston, MA, USA

CME Certificate/Certificate of Attendance

Thank you to all who attended the 89th Annual Meeting of the American Association for Thoracic Surgery, held May 9 – 13, 2009 in Boston, Massachusetts, USA. The meeting attracted many of the world’s leading experts in the field of cardiothoracic surgery who both led and participated in the outstanding scientific program.

For CME purposes, we kindly ask that you complete a brief evaluation of the Annual
Meeting. Upon completion of the survey, you may download your CME Certificate if you are an MD and your Certificate of Attendance if you are an Allied Health Professional.

Please note that you will log in to the site using your last name and zip code. For all International Attendees, you will log in using your last name and your password is your country.