AATS Centennial 1917-2017

Reflecting on the Past.
Building our Future.
Always Learning.

PRELIMINARY PROGRAM

April 29 – May 3, 2017
Boston Hynes Convention Center
Boston, MA, USA
Dear Colleagues,

On behalf of the AATS Council as well as the Abstract and Didactic Committees, I’d like to welcome you to our Centennial year! We invite you to join us in celebrating our 100th birthday this April 29 – May 3 in Boston, Massachusetts. It is an enormous privilege and honor to have been selected to serve as the AATS President for the year leading up to this important milestone and I look forward to celebrating the history of our Association – and more importantly our specialty. We aim to create a once in a lifetime event for every member of the surgical team.

As we reflect on the last 100 years and enter our second century as an Association for Thoracic Surgery, the 2017 meeting will provide again, as it always does, an extraordinary variety of educational opportunities across all areas of our specialty. Whether via the formal program of didactic and abstract presentations or through the rich discussions encouraged inside and outside of the sessions, we are confident that you will come away with new insights applicable to your practice to the benefit of patients. Consistent with the mission of the organization to promote leadership, scholarship, mentoring, excellence in patient care, integrity and professionalism, the official theme of the meeting is “Always Learning.” We know that you attend the meeting because of your drive to life-long learning and commit to making your time well-spent.

There are some new twists to the meeting this year as well. The Association has long recognized the essential nature of a multidisciplinary approach to care of the cardiothoracic surgical patient as reflected in the original membership roster, as well as the more recent addition of a postgraduate symposium for the Interprofessional Cardiothoracic Team. As before we look forward to participation from nurses, perfusionists, anesthesiologists, and others within the program and as faculty. This year we have taken another step forward by holding our meeting in conjunction with the American Society of ExtraCorporeal Technology (AmSECT) 55th International Conference. In addition to the programs with which you have become familiar, we’ll also be conducting collaborative parallel sessions during the didactic portion of the program with AmSECT which are sure to be of interest to all members of the team.

Although I am certainly biased, celebrating such a historic milestone for the Association seems particularly appropriate in so historic a city as Boston. More than that, though, we will embrace the city’s rich culture of higher education – Colleges, Universities, Schools of Music and Performing Arts – throughout our program including the AATS Centennial Gala to take place at the famed Wang Theatre.

So please join us in Boston to celebrate and to learn together.

I hope you’ll make it a point to join us this April in Boston to learn about the specialty, take advantage of interactions with the collection of international leaders in attendance and we’ll learn together about how to improve outcomes for our patients.

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

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

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

WHO SHOULD ATTEND
The AATS Annual Meeting is specifically designed to meet the educational needs of:

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

AATS ANNUAL MEETING ACCREDITATION
ACCME Accreditation Statement
The American Association for Thoracic Surgery is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

This live activity has been approved for 31.5 AMA PRA Category 1 Credit(s)™**.

**Credit hours subject to change.

Disclosure Statement
It is the policy of the American Association for Thoracic Surgery (AATS) that any individual who is in a position to control or influence the content of an educational activity to disclose all relevant financial relationships or affiliations. All identified conflicts of interest must be resolved and the educational content thoroughly vetted by AATS for fair balance, scientific objectivity, and appropriateness of patient care recommendations. In addition, faculty members are asked to disclose when any discussion of unapproved use of pharmaceuticals or medical devices occur.

For further information on the Accreditation Council for Continuing Medical Education (ACCME) Standards of Commercial Support, please visit www.accme.org.

* Physician Assistant This program will be submitted to the Physician Assistant Review Panel for continuing education credit.

* AATS Member  + AmSECT Member
AATS COURSES

Saturday April 29

6:30 am - 6:00 pm  REGISTRATION OPEN
8:00 am - 3:30 pm  COURSES
In Collaboration with AmSECT

Adult Cardiac Skills
Congenital Skills
General Thoracic Skills
Cardiothoracic Transplant
and Mechanical Circulatory Support of Heart and Lung Failure
Surgical Ethics Forum

12:00 pm-1:00 pm  COMBINED LUNCHEON SPEAKER  
*W. Gerald Austen
11:45 pm - 4:00 pm  SURVIVAL GUIDE: YOUR FIRST NIGHT ON CALL
Available to Residents / Fellows Only
4:00 pm - 6:00 pm  HANDS-ON SESSIONS AT THE SHERATON HOTEL
Separate registration required

AATS/STS Postgraduate Symposia

Sunday April 30

6:30 am - 6:00 pm  REGISTRATION OPEN
8:00 am - 5:00 pm  POSTGRADUATE SYMPOSIA
In Collaboration with AmSECT

Adult Cardiac Surgery
Congenital Heart Disease
General Thoracic Surgery
Interprofessional Cardiothoracic Team Symposium

12:00 pm - 1:00 pm  LEGENDS LUNCHEONS
5:00 pm - 7:00 pm  AATS CENTENNIAL WELCOME RECEPTION

OPEN EVENING
Various Satellite Post-Activity Symposia**

For additional details regarding the presentations, abstracts, and authors, please visit www.aats.org/centennial
Day One - May 1

6:00 am - 5:00 pm
Registration Open

7:00 am - 8:25 am
Preparing Yourself for an Academic Career Breakfast at the Sheraton Hotel
For Residents, Fellows & Medical Students Only, Pre-registration required

7:00 am - 8:25 am
SIMULTANEOUS SESSIONS

8:45 am - 12:30 pm
PleNary SciEntific Session Award Presentations
Honored Guest Lecture: General Stanley A. McChrystal, McChrystal Group, Alexandria, VA

12:30 pm - 2:00 pm
Lunch in the Exhibit Hall

12:30 pm - 2:00 pm
MODERATED POSTER COMPETITIONS

5:35 pm - 6:15 pm
EXECUTIVE SESSION FOR AATS MEMBERS ONLY

Day Two - May 2

6:00 am - 5:00 pm
Registration Open

7:00 am - 9:35 am
SIMULtANEOUS SESSIONS

7:30 am - 11:25 am
Presidential Address
Thoralf M. Sundt, III, Massachusetts General Hospital, Boston, MA

12:15 pm - 2:00 pm
Lunch in the Exhibit Hall

12:45 pm - 2:00 pm
20th Annual C. Walton Lillehi Resident Forum

2:00 pm - 5:00 pm
SIMULTANEOUS SESSIONS

5:00 pm - 6:30 pm
OPEN EVENING Various Satellite Post-Activity Symposia**

6:30 pm - 10:00 pm
AATS Centennial Gala, At the Wang Theater
Ticketed Event: $250.00 USD per person, $350.00 USD for non-members.
All attendees, guests, & exhibitors are encouraged to attend.

Day Three - May 3

6:00 am - 12:00 pm
Registration Open

7:00 am - 11:45 am
Masters of Surgery Video Sessions
Saturday, April 29, 2017  8:00 am - 3:30 pm

**ADULT CARDIAC SKILLS**
100 Years of Training - More Skills Still Needed!
Course Chair: *Kenton J. Zehr, Johns Hopkins Hospital
Course Co-Chair: *Volkmar Falk, Deutsches Herzzentrum Berlin
Course Co-Chair: *David Fitzgerald, Medical Center of South Carolina

**CONGENITAL SKILLS**
Mastery of Common and Uncommon Challenges
Course Chair: *David Bichell, Vanderbilt University/Children’s Hospital
Course Chair: *Bohdan Maruszewski, Children’s Memorial Health Institute
Course Chair: *Ron Angona, University of Rochester

**GENERAL THORACIC SKILLS**
Management of Thoracic Tumors in 2017
Course Chair: *Virginia R. Litle, Boston University
Course Co-Chair: *Kazuhito Yasufuku, University of Toronto

**CARDIOTHORACIC TRANSPLANT AND MECHANICAL CIRCULATORY SUPPORT OF HEART AND LUNG FAILURE**
Mastery of the Management of End Stage Heart and Lung Disease
Course Co-Chairs: *Matthew Bacchetta, Columbia University
* Carmelo A. Milano, Duke University
* Rich Walczak, Duke University

**SURGICAL ETHICS FORUM**
Interdisciplinary Approaches to Ethical Problems in CT Surgery
Course Co-Chairs: *William J. DeBois, New York Presbyterian Hospital
* Martin F. McKneally, University of Toronto
* Robert M. Sade, Medical University of South Carolina

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Sunday, April 30, 2017  8:00 am - 5:00 pm

**AATS/STS ADULT CARDIAC SURGERY SYMPOSIUM**
Excellence Through Knowledge
Course Chair: *Vinod H. Thourani, Emory University
Course Co-Chair: *Hitoshi Ogino, Tokyo Medical University
Course Co-Chair: *David Fitzgerald, Medical Center of South Carolina

**AATS/STS CONGENITAL HEART DISEASE SYMPOSIUM**
Innovations and Controversies in the Surgical Management of Congenital Heart Disease
Course Chair: *Michael E. Mitchell, Children’s Hospital of Wisconsin
Course Co-Chair: *Giovanni Stellin, University of Padova
Course Co-Chair: *Ron Angona, University of Rochester

**AATS/STS GENERAL THORACIC SURGERY SYMPOSIUM**
Thoracic Surgery 2107 - State of the Art
Course Chair: *Seth D. Force, Emory University
Course Co-Chair: *Moishe Liberman, Centre Hospitalier de l’Université de Montréal

**INTERPROFESSIONAL CARDIOTHORACIC TEAM SYMPOSIUM**
Improving Systems of Care, Quality and Safety
Course Co-Chairs: Katherine J. Hoercher, Cleveland Clinic Foundation
Steven Gottesfeld, Sharp Memorial Hospital
Bruce Searles, SUNY Upstate Medical Center
*Glenn J. Whitman, Johns Hopkins Hospital

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**COMBINED LUNCHEON SPEAKER**
12:00 - 1:00 pm
*W. Gerald Austen
Massachusetts General Hospital

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**HANSD-ON SESSIONS AT THE SHERATON HOTEL**
Separate registration required

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**LEGENDS LUNCHEON SPEAKERS**
12:00 - 1:00 pm

*William I. Norwood
Alfred I. Du Pont Hospital for Children
*Valerie W. Rusch
Memorial Sloan-Kettering Cancer Center
*Sir Magdi Yacoub
The Magdi Yacoub Institute

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* AATS Member  * AmSECT Member  ♦ In collaboration with AmSECT
PLENARY SCIENTIFIC SESSION
MONDAY, MAY 1, 2017 7:30 am – 12:30 pm

BUSINESS SESSION
AATS Members Only: 7:20 – 7:30 am
1. Comparative Effectiveness of CABG versus PCI in a Real World STICH Population
Alexander Inbarne, Dartmouth-Hitchcock Medical Center, Lebanon, NH
2. A Comparison of the Belsey Mark IV and Laparoscopic Nissen Fundoplication in Patients with Large Paraesophageal Hernia
Danael Laan, Mayo Clinic, Rochester, MN
3. Outcomes of Surgical Intervention for Anomalous Aortic Origin of a Coronary Artery: A Large Contemporary Prospective Cohort Study
Carlos M. Merry, Texas Children’s Hospital, Houston, TX

IN THE WORDS OF THE PRESIDENTS: A VIDEO CELEBRATION OF THE AATS CENTENNIAL

AWARD PRESENTATIONS

PLENARY TH ANNUAL C. WALTON LILLEHEI RESIDENT FORUM
MONDAY, MAY 1, 2017 12:45 – 2:00 pm Not for Credit

L1. Mutations in R0804 Lead to the Development of Bicuspid Aortic Valve and Ascending Aortic Aneurysm
Hamza Aziz, Duke University, Durham, NC

L2. Targeted Near-Infrared Intraoperative Molecular Imaging Can Identify Residual Disease During Pulmonary Resection
Jarrod D. Predina, University of Pennsylvania, Philadelphia, PA

L3. Delivery of Endothelial Progenitor Cells with Injectable Shear-Thinning Hydrogels Maintains Ventricular Geometry and Normalizes Dynamic Strain to Stabilize Cardiac Function Following Ischemic Injury
Ann C. Gaffey, University of Pennsylvania, Philadelphia, PA

MYOCARDIAL PROTECTION

The Science Behind Cardioplegia
*Frank W. Sellke, Brown Medical School, Providence, RI

6. The Use of del Nido Cardioplegia in Surgery: A Prospective Randomized Trial
David Fitzgerald, Medical University of South Carolina, Charleston, SC

7. A Normokalemic Long Acting Blood Cardioplegia
Amber Malhotra, U. N. Mehta Institute of Cardiology and Research Center, Ahmedabad, India

8. Single Dose Cardioplegia Protects Myocardium as well as Traditional Repetitive Dosing: a Randomized Study
Alessandro Vivacqua, Beaumont Health, Royal Oak, MI

TRICUSPID VALVE REPAIR

9. Tricuspid Anulus Diameter Does Not Predict the Development of Tricuspid Regurgitation after Mitral Valve Repair for Mitral Regurgitation Due to Degenerative Diseases
*Trione E. Davíd, Toronto General Hospital, Toronto, ON, Canada

10. Outcome of Tricuspid Annuloplasty Following Current Guidelines
Filip Dulguerov, Cardiothoracic Center of Monaco, Monte Carlo, Monaco

CORONARY BYPASS SURGERY SESSION
MONDAY, MAY 1, 2017 2:00 – 5:15 pm

Controversies in CABG 2017
*John D. Puskas, Mount Sinai Hospital, New York, NY

C1. Priorities in CABG: Is Long-Term Survival More Dependent on Completeness of Revascularization or Multiple Arterial Graft?
William B. Keeling, Emory University, Atlanta, GA

Discussion: Priorities in CABG
*Bruce W. Lyle, Cleveland Clinic, Cleveland, OH

C2. Saphenous Vein versus Right Internal Thoracic Artery as a Y-Composite Graft: 5-Year Angiography and Midterm Clinical Follow-Up of the SAVE RITA Trial
Min-Seok Kim, Seoul National University Hospital, Seoul, Republic of Korea

Discussion: Conduits in CABG
*Joseph Sabik, University Hospitals Cleveland Medical Center, Cleveland, OH

4. Safety and Feasibility of Lobectomy Following Concurrent Chemotherapy and High Dose Radiation for Stage IIIA NSCLC: Pooled Surgical Results of NRG Oncology RTOG 0229 and 0839
*Jessica S. Donington, New York University, New York, NY

5. 10 Year Clinical Experience of Humanitarian Cardiothoracic Surgery: Building a Platform for Ultimate Sustainability in a Resource-Limited Setting
Ralph Morton Bolman, III, University of Vermont, Burlington, VT

NEW MEMBER INDUCTION

PRESIDENTIAL ADDRESS
Ancora Imparo: Always Learning
11:25 am – 12:30 pm
Thoralf M. Sundt, III, Massachusetts General Hospital, Boston, MA

LUNCH IN THE EXHIBIT HALL: 12:30 – 2:00 pm

ETHICS FORUM LUNCH: 12:30 – 2:00 pm Separate Registration Required

Final Exit with Medical Help: Should State Law Legitimize Physician-Assisted Suicide?
Moderator: *Robert M. Sade, Medical University of South Carolina, Charleston, SC
Pro: Haider J. Warrainch, Duke University Medical Center, Durham NC
Con: Robert Sewell, Master Center of North Texas, Southlake, TX

AORTIC VALVE REPLACEMENT

Innovation in Valve Design
*James L. Cox, Washington University, St. Louis, MO

12. Repeat Conventional Biological Valve Replacement over 20 Years: Surgical Benchmarks Should Guide Patient Selection for Transcatheter Valve-in-Valve Therapy
*John M. Stulak, Mayo Clinic, Rochester, MN

13. Aortic Root Enlargement Does Not Increase the Operative Risk of Aortic Valve Replacement
*Christopher M. Feindel, University of Toronto, Toronto, ON, Canada

14. Bioprosthetic Aortic Valve Replacement: Revisiting Prosthesis Choice in Patients Younger than 50 Years of Age
Nana Toyoda, Mount Sinai Medical Center and Stony Brook University Hospital, New York, NY

11. Long Term Effect of Concomitant Tricuspid Repair
Sarah Ward, University of Michigan, Ann Arbor, MI

For additional details regarding the presentations, abstracts, and authors, please visit www.aats.org/centennial
### MONDAY, MAY 1, 2017

#### GENERAL THORACIC SURGERY

**Simultaneous Scientific Session**

**2:00 – 5:15 pm**

21. Comparison of Morbidity of Pulmonary Segmentectomy and Lobectomy: Initial Results of a Phase III Randomized Trial of Lobectomy versus Segmentectomy for Small (2 cm or Less) Peripheral Non-small Cell Lung Cancer
   - Kenji Suzuki, Kyoto Prefectural University of Medicine, Kyoto, Japan

22. Variability in Surgical Quality in Patients with Early Stage Non-Small Cell Lung Cancer Undergoing Wedge Resection Impacts Overall Survival When Compared to Stereotactic Body Radiation Therapy
   - Seth B. Krantz, NorthShore University Health System, Evanston, IL

23. Endosonographic Mediastinal Lymph Node Staging in Positron Emission Tomography and Computed Tomography Negative Non-Small Cell Lung Cancer: Initial Results of a Phase III Randomized Trial of Lobectomy versus Pravachan Hegde, University of Montreal, Montreal, QC, Canada

24. Declining Use of Surgical Therapy for Early Stage Non-small Cell Lung Cancer in the United States
   - Kathryn E. Engelhardt, Northwestern University, Chicago, IL

#### PERIOPERATIVE CARE

**Simultaneous Scientific Session**

**2:00 – 5:15 pm**

29. Early Predictors of Permanent Pacemaker Implantation after Surgical Aortic Valve Replacement in High Risk Patients
   - Alejandro Suarez-Pierre, Johns Hopkins University, Baltimore, MD

30. Predicting Readmission After Cardiac Surgery: Insights From A State-Level Analysis
   - J. Trent Magruder, Johns Hopkins University, Baltimore, MD

31. A Novel Risk Score to Predict New Atrial Fibrillation after Isolated Coronary Artery Bypass Grafting
   - Todd C. Crawford, Johns Hopkins University, Baltimore, MD

32. Preoperative Left Ventricular Diastolic Dysfunction Predicts Postoperative Atrial Fibrillation after Aortic Valve Replacement for Aortic Valve Stenosis
   - Yoshihisa Morimoro, Awaji Medical Center, Hyogo, Sumoto, Japan

33. Utilizing Observed to Expected 30-Day Mortality as a Benchmark for Transcatheter Aortic Valve Replacement Programs: Outliers and Potential Implications for Reimbursement
   - Matthew C. Henn, Washington University, St Louis, MO

34. Predictors of Distant Recurrence Following R0 Lobectomy for pN0 Lung Adenocarcinoma
   - Whitney Brandt, Memorial Sloan Kettering Cancer Center, New York, NY

35. Partial Thromboplastin Time is More Predictive of Bleeding Than Heparin Levels in Heparinized Pediatric Patients Following Cardiac Surgery
   - Shruti N. Dahotre, McGovern Medical School, UT Health at Houston, Houston, TX

36. Propensity and Impact of Autologous Platelet Rich Plasma Utilization in Acute Type A Dissection
   - Shrutti A. Schubert, University Hospitals Cleveland Medical Center, Cleveland, OH

37. The Impact of Prolonged Intensive Care Stay on Quality of Life, Recovery and Clinical Outcomes: A Prospective Study
   - Mohammad S. Diab, George’s University Hospital, London, United Kingdom

38. Preoperative Beta-Blocker Use Correlates with Worse Outcomes in Patients Undergoing Valve Surgery
   - Sarah A. Schubert, University of Virginia, Charlottesville, VA

**2:00 – 5:15 pm**
F1. Overexpression of MicroRNA-30a Contributes to the Aortic Dissection via Down-Regulation of Lysyl Oxidase
Tianxiang Gu, The First Hospital of China Medical University, Shenyang, China

F2. Circulating Endothelial Specific Exosome Profiles Enable Noninvasive Diagnosis of Aortic Aneurysm Disease
Prashanth Vallabhajosyula, University of Pennsylvania, Philadelphia, PA

F3. Model Bicuspid Aortic Valve by Knocking Out NOTCH1 Gene in Patient’s Induced Pluripotent Stem Cells with CRISPR/Cas9
Bo Yang, University of Michigan, Ann Arbor, MI

F4. Donor Heart Specific Exosome Profiling enables Noninvasive Monitoring for Early Allograft Rejection in a Mouse Heterotopic Heart Transplantation Model
Andreas Habertheuer, University of Pennsylvania, Philadelphia, PA

F5. Angiogenesis and Arteriogenesis Precede Cardiomyocyte Migration in the Regeneration of Mammalian Hearts
Andrew B. Goldstone, Stanford University, Stanford, CA

F6. Regeneration of a Neoartery Through a Completely Autologous Acellular Conduit in a Minipig Model
Xufeng Qiu, University of California, Los Angeles, CA

F7. Prolonged Treatment with S-Nitroso Human Serum Albumin is More Effective and Prevents Inflammatory and Oxidative Effects Compared to Inhaled Nitric Oxide in Experimental Congenital Pulmonary Arterial Hypertension
Alessio Rungatscher, University of Verona, Verona, Italy

F8. Therapeutic Targeting of Tumor-promoting Macrophages in EGFR Mutant Lung Adenocarcinoma with Trabectedin
Hye-Sung Lee, Baylor College of Medicine, Houston, TX

F9. A Tumor Immune Microenvironment Signature Predicts Response to Immune Checkpoint Blockade in Malignant Pleural Mesothelioma
Hyun-Sung Lee, Baylor College of Medicine, Houston, TX

F10. Asbestos Up-regulates EZH2 to Mediate Epigenetic Repression of the INK4a/ARF Gene Locus in Normal Human Mesothelial Cells
*David S. Schrump, National Cancer Institute, Bethesda, MD

F11. Naturally-occurring IgG antibodies for the Treatment of Human Non-Small Cell Lung Cancer
Bryan M. Burt, Baylor College of Medicine, Houston, TX

F12. The Impact of Early Oral Feeding on Proinflammatory Cytokines After McKeown Minimally Invasive Esophagectomy for Cancer
Yin Li, The Affiliated Cancer Hospital of Zhengzhou University, Zhengzhou, China

F13. In Vivo Development Of Transplant Arteriosclerosis in Humanized Mice Reflects BOS in lung Transplant Recipients and is Controlled by Autologous Regulatory T Cells
Thierry Siemeni, Hannover Medical School, Hannover, Germany

F14. Matrix Metalloproteinase 12 Promotes Tumor Propagation in the Lung
Hanna Wald, Hadassah Hebrew University Hospital, Jerusalem, Israel

F15. Meta-analysis Identifies a Novel Anti-apoptotic Gene and Potential Therapeutic Target in Malignant Pleural Mesothelioma
Chuong D. Hoang, National Institutes of Health, Bethesda, MD

T1. Transcarotid TAVR: A Comparison of In-Hospital and Intermediate Term Outcomes with Transapical and Transaortic Access
*Keith B. Allen, St. Luke’s Mid American Heart Institute, Kansas City, MO

T2. Surgical Treatment May Enhance Reverse Remodeling of the Ventricle in Patients with Functional Mitral Regurgitation
*Masashi Komeda, Iseikai Hospital, Osaka, Japan

T3. Transcaval Transcatheter Aortic Valve Replacement: No Patient Left Behind!
*Talal Al-Atassi, Emory University, Atlanta, GA

T4. Sutureless Aortic Valve Replacement in High Risk Patients Neutralizes Expected Worse Hospital Outcome: a Clinical and Economic Analysis
Emmanuel Villa, Poliambulanza Foundation Hospital, Brescia, Italy

T5. Aortic Valve Repair for Aortic Insufficiency Associated with Ascending Aortic Aneurysms using Geometric Ring Annuloplasty
*J. Scott Rankin, West Virginia University, Morgantown, WV

T6. Hemodynamic Follow-up after Valve-in-valve TAVI for Failed Aortic Bioprosthesis
Konstantin Alexiou, University Heart Center, Dresden, Germany

T7. Robotic Hybrid Coronary Bypass Grafting
Gianluca Torregrossa, Mount Sinai Hospital, New York, NY

T8. Computational Fluid Dynamics Assessment of Type-B Dissections as Tool to Predict Evolution of the Disease and Indicate Treatment Strategies
Domenico Calcaterra, Minneapolis Heart Institute, Minneapolis, MN

For additional details regarding the presentations, abstracts, and authors, please visit www.aats.org/centennial
T9. Primary Repair of Total Anomalous Pulmonary Venous Connection With Sutureless Strategy
*Yiqun Ding, Shenzhen Children’s Hospital, Shenzhen, China

T10. Anatomical Correction Including Aortic Root Translocation and Hemi-Senning / Bidirectional Glenn Atrial Switch Procedure in a Patient with Congenitally Corrected Transposition of the Great Arteries, Ventricular Septal Defect, Pulmonary Stenosis and Dextro
*Eun Seok Choi, Sejong General Hospital, Bucheon, Republic of Korea

T11. Novel Surgical Strategy for Complicated Pulmonary Stenosis Using Hemodynamic Analysis Based on a Virtual Operation with Numerical Flow Analysis
*Kagami Miyaji, Kitasato University, Sagamihara, Japan

T12. Repair Quadricuspid Truncal Valve with Utilization of Pulmonary Cusp to Reconstruct RVOT, Repair without Conduit
Shu-chien Huang, National Taiwan University Hospital, Taipei, Taiwan

T13. Chimney Reconstruction of the Aortic Arch in the Norwood Procedure
Satoshi Asada, Kyoto Prefectural University of Medicine, Kyoto, Japan

Zhongdong Hua, Chinese Academy of Medical Sciences & Peking Union Medical College Fuwai Hospital, Beijing, China

T15. A Successful Biventricular Repair for a Neonate with Critical Aortic Stenosis Complicated With Left Ventricular Aneurysm and Endocardial Fibroelastosis
Yuiro Ide, Mt. Fuji Shizuoka Children’s Hospital, Shizuoka City, Japan

GENERAL THORACIC EMERGING TECHNOLOGIES AND TECHNIQUES / CASE VIDEO FORUM
TUESDAY, MAY 2, 2017 7:00 – 8:25am

T16. Laparoscopic Ligation of Cisterna Chyli
*Iltch Diaz Gutierrez, University of Minnesota, Minneapolis, MN

T17. The Role of Minimally Invasive Thoracoscopic Approach for The Operation of Non-small Cell Lung Cancer Involving Vertebral Column
Kwangong Hyun, Seoul National University College of Medicine, Seoul, Republic of Korea

T18. Endoscopic Repair of Bronchogastric Fistula after Esophagectomy
Igor Brichkov, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

T19. Thoracoscopic Anatomical Lung Segmentectomy based on Dissection along the Intersegmental Veins, Left Lateral Basal Segmentectomy
Hiroyuki Oizumi, Yamagata University, Yamagata, Japan

T20. Electromagnetic Navigation Bronchoscopy-Guided Dye Marking for Minimally Invasive Resection of more than 100 Pulmonary Nodules
Kunal Mehta, University of Pittsburgh, Pittsburgh, PA

PLEINARY SCIENTIFIC SESSION
TUESDAY, MAY 2, 2017 7:30 am – 8:30 pm

39. Intraoperative Extracorporeal Membrane Oxygenation Improves Survival in Lung Transplantation
Konrad Hoetzenecker, Medical University of Vienna, Vienna, Austria

40. Long-term Outcome Following Concomitant Mitral Valve Surgery and Cox Maze Procedure for Atrial Fibrillation: High Return to Sinus Rhythm and Remarkably Low Incidence of Stroke
*Niv Ad, West Virginia University Heart and Vascular Institute, Morgantown, WV

41. Surgery for Congenital Heart Disease Beyond 50 Years of Age: Mid-term Outcomes and Risk Factors of an Emerging Population
Mauro Lo Rito, IRCCS Policlinico San Donato, San Donato Milanese, Italy

IN THE BEGINNING...A VIDEO HISTORY OF THE AATS
AWARD PRESENTATIONS
WINNER OF THE 20TH ANNUAL C. LILLEHEI RESIDENT FORUM PRESENTATION

42. Clinical Outcomes and Rates of Aortic Reoperation Following 1-Stage Repair of Extensive Chronic Thoracic Aortic Dissection
*Nicholas T. Kouchoukos, Missouri Baptist Medical Center, St. Louis, MO

PLEINARY

T21. Predicting Pulmonary Air Leak Resolution Using Transpleural Airflow Data after Lung Resection
*Sebastien Gilbert, University of Ottawa, Ottawa, ON, Canada

T22. Laparoscopic Trans-diaphragmatic Chest Surgery: Early Experience
*Iltch Diaz Gutierrez, University of Minnesota, Minneapolis, MN

Hiroyasa Kato, Yamanaka University, Yamanaka-shi, Japan

Thomas Kiefer, Klinikum, Konstanz, Germany; 2Yale University, New Haven, CT

43. Definitive Chemoradiation Compared to Induction Chemoradiotherapy Followed by Surgery in The Treatment of Esophageal Squamous Cell Carcinoma
Arianna Barbeta, Memorial Sloan Kettering Cancer Center, New York, NY

44. Surgeon Volume Impact on Mitral Valve Repair Rates, Durability and Survival in New York State
*Joanna Chikwe, Mount Sinai Medical Center and Stony Brook University Hospital, New York, NY

HONORED GUEST LECTURE
11:45 am - 12:35 pm
General Stanley A. McChrystal, McChrystal Group, Alexandria, VA

MODERATED POSTER COMPETITIONS IN THE EXHIBIT HALL 12:45 – 2:00pm
P1. Outcomes of Aortic Valve Replacement with Bioprosthetic or Mechanical Valves in End-Stage Renal Disease Patients
Taro Nakatsu, Kyoto University, Kyoto, Japan

P2. Long-Term Effects of Prosthesis Selection in Adults Under 40 Years Old Undergoing Mitral Valve Replacement At 117 Hospitals in the State of California
Andrew B. Goldstone, Stanford University, Stanford, CA

P3. Early Reperfusion Strategy Improves the Outcome of Surgery for Type A Acute Aortic Dissection with Malperfusion
Keiji Uchida, Yokohama City University Medical Center, Yokohama, Japan

P4. Combined Transartrial and Transapical Approach to Septal Myectomy in Patients with Hypertrophic Cardiomyopathy and Complex Subaortic and Midventricular Obstruction
Dustin Hang, Mayo Clinic, Rochester, MN

P5. Computed Tomography versus Coronary Angiography for Coronary Screening in Heart Valve Surgery
Joon Bum Kim, Asan Medical Center, Seoul, Republic of Korea

P6. Surgical Treatment of Atrial Fibrillation with Different Lesion Set and Energy Sources: Mid-term Results in Nine Hundred Patients
Alexander Bogachev-Prokophiev, Novosibirsk State Research Institute of Circulation Pathology, Novosibirsk, Russian Federation

Kai Ma, Fuwai Hospital, Beijing, China

P14. MELD Score and Ventilation Indices are Strong Determinants of Death, Intensive Care Morbidity and Massive Transfusion after Adult Congenital Heart Disease Surgery
Jane E. Heggie, Toronto General, Toronto, ON, Canada

P15. The CHSS Complete Atrioventricular Septal Defect Inception Cohort: Pre-Intervention Echocardiographic Characteristics
James M. Meza, Hospital for Sick Children, Toronto, ON, Canada

P16. Effect of Atrioventricular Valve Repair on Multi-stage Palliation Outcomes of Single Ventricle Anomalies
Bahaaldin AlSoufi, German Heart Center Munich, Munich, Germany

P17. Long-term Results of Tissue-engineered Vascular Grafts in Pediatric Patients with Congenital Heart Disease
Todahisa Sugiuira, Nationwide Children’s Hospital, Columbus, OH

P18. Outcomes and Prognostic Factors for Acquired Pulmonary Vein Stenosis in the Current Era
David Kafka, Columbia University, New York, NY

P19. Autosomal Dominant Mannose-Binding Lecithin Binding Deficiency is Associated with Worse Neurodevelopmental Outcomes After Cardiac Surgery in Infants
Daniel Seung Kim, University of Washington, Seattle, WA

P20. Bovine Arch Anatomy Influences Re-Coarctation Rates in the Era of the Extended End-to-End Anastomosis
Joseph W. Turek, University of Iowa Children’s Hospital, Iowa City, IA

P21. Atrioventricular Valve Regurgitation in Patients Undergoing Total Cavopulmonary Connection: Impact of Valve Morphology on Survival and Reintervention
Masamichi Ono, Japanese Heart Center Munich, Munich, Germany

P22. Cardiac Progenitor Cell Infusion to Treat the Patients with Single Ventricle Univentricular Heart Disease Strategy using Cardiac Progenitor Cell Infusion in Children with Single Ventricle Regenerative Therapy Using Cardiac Progenitor Cells for Congenital Heart Disease
Shunji Sano, Okayama University, Okayama, Japan

Giovanni Battista Luciani, University of Verona, Verona, Italy

P24. The Most Prevalent Tetralogy of Fallot Surgical Repair Strategy is Associated with Unfavorable Right Bundle Branch Block
Sara Hussain, Population Health Research Institute, Hamilton, ON, Canada

P25. Comparison of a Digital with a Traditional Thoracic Drainage System for Postoperative Chest Tube Management after Pulmonary Resection: A Prospective Randomized Trial
Kazuya Takamochi, Juntendo University, Tokyo, Japan

P26. Are Minimum Volume Standards Appropriate for Lung and Esophageal Cancer Surgery?
*Brendon M. Stiles, Weill Cornell Medical College, New York-Presbyterian Hospital, New York, NY

Chi-Fu Jeffrey Yang, Duke University, Durham, NC

P28. Impact of the Number of Lymph Nodes Examined During a Sublobar Resection on the Survival of Patients with Stage I Non-Small Cell Lung Cancer
*Saif Yandamuri, S.50oswell Park Cancer Institute, Buffalo, NY

P29. Improvements in TNM Staging of Pulmonary Neuroneuroendocrine Tumors Requires Histology and Regrouping of Tumor Sizes
Maria Cattou, Swedish Cancer Institute, Seattle, WA

P30. Tumor Site Microenvironment Factors May Influence Number of Circulating Tumor Cells in NSCLC Patients
Lukasz Gasiorowski, Poznan University of Medical Sciences, Poznan, Poland

P31. Prognostic Significance of Ground Glass Opacity Component in the Clinical T Classification of Non-Small Cell Lung Cancer
Antonio Hattori, Juntendo University, Tokyo, Japan

P32. Natural History of Ground Glass Lesions Among Patients with Previous Lung Cancer: Predictors of Progression
Mara B. Antonoff, MD Anderson Cancer Center, Houston, TX

P33. The Dose–Response Relationship between Perioperative Blood Transfusion and Decreased Survival after Pulmonary Resection for Non-Small Cell Lung Cancer
James Isbell, Memorial Sloan Kettering Cancer Center, New York, NY

P34. Impact of Body Mass Index on Lung Transplant Survival in the United States Following Implementation of the Lung Allocation Score
Ramiro Fernandez, Northwestern University, Chicago, IL

Michael Lu, University of Pittsburgh, Pittsburgh, PA

P36. Using the National Cancer Database to Create a Scoring System that Identifies Patients with Early-Stage Esophageal Adenocarcinoma at Risk for Nodal Metastases
*Benny Weksler, University of Tennessee, Memphis, TN
VALVE REPAIR

45. Complex vs. Simple Degenerative Mitral Valve Disease: Does Valve Complexity Matter?
Hoda Javadikasgari, Cleveland Clinic, Cleveland, OH

46. Respect When You Can, Resect When You Should: A Realistic Approach to Mitral Valve Repair
*Gilles Daniel Dreyfus, Cardiothoracic Center of Monaco, Monte Carlo, Monaco

47. Outcome of Tricuspid Valve Surgery in the Presence of Permanent Pacemaker: Analysis of 616 Patients
Nishant Saran, Mayo Clinic, Rochester, MN

48. Transcatheter or Surgical Intervention for the Failed Pulmonary Valve Homograft in the Ross Population?
Khadija Alassas, King Faisal Specialist Hospital and Research Centre, Riyadh, Saudi Arabia

49. The Aortic Root and Arch Do Not Dilate Over Time After Aortic Valve and Ascending Aorta Replacement in Patients With Bicuspid Aortic Valves
Sonya R. Hui, University of Toronto, Toronto, ON, Canada

EXECUTIVE SESSION AATS Members Only

MECHANICAL CIRCULATORY SUPPORT / TRANSPLANT SCIENTIFIC SESSION

TUESDAY, MAY 2, 2017 3:55 – 5:35 pm

50. Impact of Initial Pump Positioning on Pump Thrombosis: Insights from the PREVENT Study
*Ahmet Kilic, Ohio State University, Columbus, OH

51. The High Cost of Gastrointestinal Bleeding in LVAD Patients: Impact of Readmissions on Financial Burden and Patient Morbidity
Danielle Savino, University of Pennsylvania, Philadelphia, PA

52. Posttransplant Outcomes in Patients on Venoarterial Extracorporeal Membrane Oxygenation: A Comparison with Population on Continuous-Flow Left Ventricular Assist Device Support
Shinichi Fukuhara, Columbia University, New York, NY

53. High-Risk Conventional Cardiac Surgery in Patients with Profound Left Ventricular Dysfunction - A Proposed Treatment Algorithm in the Mechanical Circulatory Support Era
Nassir M. Thalji, Mayo Clinic, Rochester, MN

54. Ten-year Experience with Continuous-flow External Ventricular Assist Device: Evolution and Improving Outcomes in the Treatment of Refractory Cardiogenic Shock
Koji Takeda, Columbia University, New York, NY

55. Early Circulatory Support with Extracorporeal Membrane Oxygenation Improves Outcomes after Severe Graft Dysfunction
Pierre-Emmanuel Noly, Montreal Heart Institute, Montreal, QC, Canada

EXECUTIVE SESSION AATS Members Only

*AATS Member  +AmSECT Member
56. Frozen Elephant Trunk and Total Arch Replacement for Type A Aortic Dissection: Competing Risk Analysis of Long-Term Outcomes in 1063 Patients
Wei-Guo Ma, Capital Medical University, Beijing, China

57. Epidemiologic Analysis and Descriptive Assessment of Management Strategies for Thoracic Aortic Dissections and Thoracic Aortic Aneurysms — A Population Based Study
R. Scott McClure, University of Calgary, Calgary, AB, Canada

58. Stroke Following Thoracic Endovascular Aortic Repair: Implications for Branched Endovascular Arch Repair
Arnoud V. Kamman, University of Michigan, Ann Arbor, MI

59. The Impact Of Chronic Kidney Disease on Outcomes after Crawford Extent II Thoracoabdominal Aortic Aneurysm Repair in 1003 Patients
*Joseph S. Coselli, University of Texas, Houston, TX

Aortic Surgery in the 21st Century: Have We Gone Too Far?
*D. Craig Miller, Stanford University, Stanford, CA

60. Height Alone (Rather than Body Surface Area) Suffices for Risk Estimation in Ascending Aortic Aneurysm
Mohammad A. Zafar, Yale University, New Haven, CT

CONGENITAL HEART DISEASE Simultaneous Scientific Session
TUESDAY, MAY 2, 2017 2:00 – 5:35 pm

Insights from the Congenital Heart Surgeons’ Society Anomalous Coronary Artery Database
*Marshall Jacobs, Johns Hopkins Hospital, Baltimore, MD

66. Patients with Anomalous Aortic Origin of the Coronary Artery Remain at Risk Even After Surgical Repair
Shannon N. Nees, Columbia University, New York, NY

67. Selection of Prosthetic Aortic Valve and Root Replacement in Young Patients Less Than Thirty Years of Age
Rita K. Milewski, University of Pennsylvania, Philadelphia, PA

68. Outcomes of the Arterial Switch Operation in ≤2.5kg Neonates: A 10 Year Study
Michael Salina, Columbia University, New York, NY

69. Reoperation for Coronary Artery Stenosis after Arterial Switch Operation
Joon Chul Jung, National University Hospital, Seoul, Republic of Korea

70. Laryngeal Ultrasound Detects A High Prevalence of Vocal Cord Paresis After Aortic Arch Repair in Neonates and Young Children
Melissa G. Y. Lee, Royal Children’s Hospital, Parkville, Australia

71. Management of Aortic Aneurysms Following Repair of Congenital Heart Disease
*Christian Pizarro, Alfred I duPont Hospital for Children, Wilmington, DE

72. Outcomes of Patients Undergoing Surgical Repair of Multiple Ventricular Septal Defects: a 22-year Study of 157 Patients
Michael Daley, Royal Children’s Hospital, Melbourne, Australia

EXECUTIVE SESSION AATS Members Only

GENERAL THORACIC SURGERY Simultaneous Scientific Session
TUESDAY, MAY 2, 2017 2:00 – 5:35 pm

PRACTICE MANAGEMENT AND ECONOMICS

73. The Impact of Enhance Recovery After Surgery Protocol Compliance on Morbidity from Resection for Lung Cancer: Experience from a UK Specialist Center
Luke J. Rogers, Derriford Hospital, Plymouth, United Kingdom

74. The Economic Impact of a Nurse Practitioner Directed Lung Cancer Screening, Incidental Pulmonary Nodule, and Tobacco Cessation Clinic
Christopher R. Gilbert, Swedish Cancer Institute, Seattle, WA

75. Intraoperative Costs of VATS Lobectomy can be Dramatically Reduced without Compromising Outcomes
Michael T. Richardson, Stanford University, Palo Alto, CA

76. Financial Impact of Adapting Robotics to a Thoracic Practice in an Academic Institution
*Abbas E. Abbas, Temple University, Philadelphia, PA

61. Differences in Outcomes Between Mechanical and Non-Mechanical Valve Replacement following Repair of Acute Type A Dissection
Gabriel Loor, University of Minnesota, Minneapolis, MN

62. Late Reoperations After Acute Type A Dissection: A Report from the Nordic Consortium for Acute Type A Aortic Dissection Study
Emily Pan, University Hospital of Turku, Turku, Finland

63. Total Aortic Arch Replacement With Frozen Elephant Trunk Technique. Results From Two European Institutes
*Davide Pacini, S.Orsola-Malpighi Hospital, Bologna, Italy

64. Valvular Root Replacement in Patients With Bicuspid vs. Tricuspid Aortic Valves
Maral Ouzounian, University of Toronto, Toronto, ON, Canada

65. The Fate of Abdominal Aorta after TEVAR in Chronic Debakey IIb Aneurysms and Risk Factor Analysis — Is Residual Abdominal Aortic Dissection Stabilized after TEVAR?
Tae-Hoon Kim, Yonsei University College of Medicine, Seoul, Republic of Korea

EXECUTIVE SESSION AATS Members Only

LUNG TRANSPLANT AND LUNG FAILURE

77. Lung Transplantation in the Era of Lung Allocation Scoring: A Single Center Experience of 1500 Patients
Keki Balsara, Washington University, St. Louis, MO

78. Extracorporeal Life Support as a Bridge to Lung Transplantation: Experience of a High-Volume Transplant Center
Konrad Hoetzenecker, University of Toronto, Toronto, ON, Canada

79. Early Initiation of Extracorporeal Membrane Oxygenation for Influenza Associated Adult Respiratory Distress Syndrome Improves Survival
Gary S. Schwartz, Baylor University, Dallas, TX

80. Management of Bronchial Stump in Lobar Lung Transplantation
Hidenao Kayawake, Kyoto University, Kyoto, Japan

81. A Propensity Score Matched Study of Lung Transplant Surgery and Concomitant Coronary Artery Bypass Surgery
*Yoshiya Toyoda, Temple University, Philadelphia, PA

EXECUTIVE SESSION AATS Members Only

For additional details regarding the presentations, abstracts, and authors, please visit www.aats.org/centennial
82. Triage and Optimization: A New Paradigm in the Treatment of Massive Pulmonary Embolism
Chetan Pasrija, University of Maryland, Baltimore, MD

83. Mid-term Outcomes in 850 Patients Treated with Aortic Valve Neo-cuspidization using Glutaraldehyde-treated Autologous Pericardium
*Shigeyuki Ozaki, Toho University, Tokyo, Japan

84. Role of Transcatheter versus Surgical Mitral Valve Procedures in High-Risk Patients with Recurrent Mitral Valve Disease
Dave G. Cervantes, Emory University, Atlanta, GA

85. Training the Cardiothoracic Surgeon of the Future: The Power of High Fidelity Simulation and the UK Tailored Continued Learning Programme
Louise Kenny, Freeman Hospital, Newcastle, United Kingdom

Integrity and Professionalism: Our Guides to Educating the Next Generation
*G. Alexander Patterson, Washington University, St. Louis, MO

86. Teaching Operative Cardiac Surgery in the Era of Increasing Patient Complexity: Can it Still Be Done?
George Tolis, Jr., Massachusetts General Hospital, Boston, MA

87. Sutureless Aortic Valves Versus Transcatheter Aortic Valve in Patients with Severe Aortic Stenosis and Intermediate Risk Profile: A Propensity Match Comparison in the Real World
*Claudio Muneretto, University of Brescia, Brescia, Italy

88. Oral Anticoagulation Is Not Necessary following Cox-MAZE IV Procedure for Persistent Atrial Fibrillation Discharged in Sinus Rhythm
Takashi Murashita, West Virginia University, Morgantown, WV

89. Concomitant Cox-Maze IV Procedure is Associated with Improved Long-Term Survival in Patients with a History of Atrial Fibrillation Undergoing Cardiac Surgery: A Propensity Matched Study
Farah N. Musharbash, Washington University, St. Louis, MO

90. Staged Ventricular Recruitment via Atrial Septation Alone in Patients with Borderline Ventricles and Large Ventricular Septal Defects
Olubunmi Oladunjoye, Boston Children’s Hospital, Boston, MA

91. Planned Growth of Hypoplastic Cardiac Structures to Achieve Improved Long-Term Outcomes
Daniel Labuz, Oregon Health Sciences University, Portland, OR

Staged Ventricular Recruitment- Strategies to Rehabilitate Borderline Ventricles
*Sitaram Emani, Boston Children’s Hospital, Boston, MA

92. Surgical Algorithm and Results for Repair of Pulmonary Atresia/Ventricular Septal Defect/Major Aortopulmonary Collaterals
*Frank L. Hanley, Stanford University, Stanford, CA

93. Descending Aortectomy and Posterior Tracheoectomy for Severe Tracheomalacia and Left Mainstem Bronchomalacia
Hester F. Shieh, Boston Children’s Hospital, Boston, MA

94. Early and Mid-Term Results of Autograft-Sparing/Ross Reversal: A One-Valve Disease need not become a Two-Valve Disease
Syed T. Hussain, Cleveland Clinic, Cleveland, OH

95. Surgical Unroofing of Hemodynamically Significant Myocardial Bridges in a Pediatric Population
Katsuhide Maeda, Stanford University, Stanford, CA

96. Intraoperative Completion Angiogram may be Superior to Transosophageal Echocardiogram for Detection of Pulmonary Artery Residual Lesions in Congenital Heart Surgery
Luke Lamers, University of Wisconsin, Madison, WI

97. Induction Therapy for Locally Advanced Distal Esophageal Adenocarcinoma: Is Radiation Always Necessary?
Douglas Z. Liou, Stanford University, Stanford, CA

98. Use of Drain Amylase allow for Early and Definitive Intervention of Esophageal Leaks and Aids in Preventing Esophagectomy Mortality
*Philip A. Linden, University Hospitals Cleveland Medical Center, Cleveland, OH

99. Endoscopic Mucosal Resection for Submucosal Esophageal Cancer
David B. Nield, MD Anderson Cancer Center, Houston, TX

100. Esophagectomy versus Endoscopic Resection for Patients with Early-Stage Esophageal Cancer: A National Cancer Database Propensity-Matched Study
Katy A. Marino, Emory University, Atlanta, GA

101. AdjUniversity of Virginia, Charlottesville, VA

102. Macrophage Complete Resection Does Not Affect Survival in Patients With Malignant Pleural Mesothelioma: It Is All Histology And Nodal Disease
*Hasan F Batirel, Marmara University Hospital, Istanbul, Turkey

103. A Phase I Trial of Extrapleural Pneumonectomy or Pleurectomy/Decortication, Intrapleuric/Intrapertitoneal Hyperthermic Cisplatin and Gemcitabine with Intravenous Amifostine and Sodium Thiosulfate Cytoprotection for Patients with Resectable Malignant
*Dave J. Sugarbaker, Baylor College of Medicine, Houston, TX

104. Lung Adenocarcinoma with Perioperatively Diagnosed Pleural Seeding: Is Main Tumor Resection Beneficial for Prognosis?
Mong-Wei Lin, National Taiwan University Hospital, Taipei, Taiwan

105. Lymph Nodal Metastasis in Thymic Malignancies-Results of the Chinese Alliance for Research in Thymomas Prospective Observational Study
Takashi Murashita, West Virginia University, Morgantown, WV
REGISTRATION INFORMATION

REGISTRATION PACKAGES AVAILABLE

Register for AATS Week 2017 and receive a $100 discount!*  
AATS Mitral Conclave April 27-28, 2017 | New York, NY  
AATS Centennial April 29-May 3, 2017 | Boston, MA  
*Discount does not apply to Resident/Fellows or Medical Students. The discount is applied to the AATS Mitral Conclave registration fee.

Genius Pass | Registration Includes:
- Access to all the Saturday Skills Courses
- Access to all the Sunday Symposia
- Access to all simulations sessions at the Centennial (Monday-Wednesday)
- Lunch in the Exhibit Hall on Monday and Tuesday
- Attendance to the Welcome Reception in the exhibit hall

Innovation Pass | Registration Includes:
- Registration for the Saturday AATS Innovation Summit
- Access to all the Sunday Symposia
- Access to all simulations sessions at the Centennial (Monday-Wednesday)
- Lunch in the Exhibit Hall on Monday and Tuesday
- Attendance to the Welcome Reception in the exhibit hall

Please note you can only attend the AATS Innovation Summit or the Saturday Skills Courses. You cannot choose to attend both events on Saturday.

Conference Flex Pass
Customize your participation at the AATS Centennial by adding individual educational events to your cart. This pass is best suited for those who want to attend some but not all of the offerings of the AATS Centennial. You will be able to add any combination of the Saturday Courses, Sunday Symposia, and the Monday-Wednesday simultaneous sessions to your cart for a custom experience.

DEADLINES AND MEETING FEES

<table>
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<th>Registration Deadlines</th>
<th>Early Rate</th>
<th>Advance Rate</th>
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<tr>
<td>On or before March 20, 2017</td>
<td>$450</td>
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<td>March 21, 2017 and April 18, 2017</td>
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**Member, Non-Member Physician, & Non-Exhibiting Industry**

- Prices are shown for each day.
- Register for a Saturday course and/or Sunday Symposium and you will have access to all other courses/symposia taking place that same day.
- If you would like to attend a Hand-On Session on Saturday from 4-6pm, there will be an additional $75 fee.

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<th>Registration Rates for the AATS Centennial</th>
<th>Early</th>
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MEETING HOTELS | Housing Deadline: March 20, 2017
- Sheraton Boston Hotel & Towers, (Headquarter Hotel), Connected to the Hynes Convention Center via The Shops at Prudential Center
- Boston Marriott Copley Place, 2 blocks from the convention center and connected via Skybridge and The Shops at Prudential Center
- Westin Hotel Copley Place, 2 blocks from the convention center and connected via Skybridge and The Shops at Prudential Center

HOUSING INFORMATION

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- Westin Hotel Copley Place, 2 blocks from the convention center and connected via Skybridge and The Shops at Prudential Center

SOCIAL EVENTS

AATS / AmSECT KICK-OFF RECEPTION
Saturday, April 29, 6:30 – 8:30 pm
Wang Theater
$20 per ticket

The Celebration continues on Monday, May 1st at the once in a lifetime AATS Centennial Gala, which will be held at the famed Wang Theater. This black tie affair will include a cocktail reception, sit-down four-course dinner on the stage, and performances from local musicians representing prestigious Boston institutions.

During this historic evening, the documentary film “In the Beginning” will be unveiled which features an in-depth look at the formative years and challenges faced in cardiothoracic surgery and also includes interviews with Past Presidents and members of the Centennial Committee. This is truly an event not to be missed. Enjoy a night of networking, premieres, performances, and dinner.

AATS CENTENNIAL GALA
Monday, May 1, 6:00 – 11:30 pm
Wang Theater
$250 per ticket for AATS members
$350 per ticket for non-members

The discount is applied to the AATS Mitral Conclave registration fee.

TOURS

1. Italian Gastronomy North End Market Tour
   - Sunday, April 30, 2017 | 10:30 – 1:15 pm
   - $95 per person

2. A Visit To The Isabella Stewart Gardner Museum
   - Monday, May 1, 2017 | 12:15 pm – 2:45 pm
   - $85 per person

3. Beacon Hill Circle “Behind The Brahmin Doors”
   - Tuesday, May 2, 2017 | 9:15 am – 11:45 pm
   - $110 per person

All tours depart from the Hynes Convention Center.

3 WAYS TO REGISTER & BOOK HOUSING

1. Online at www.aats.org
2. Call the AATS/Experient Customer Service Desk at 800-424-5249 (USA) or 847-996-5829 (International).
3. Mail/Fax
AATS INNOVATION SUMMIT 2017

April 29, 2017
Boston Marriott Copley Place Hotel
Boston, MA, USA

REGISTRATION NOW AVAILABLE

PROGRAM DIRECTOR
W. Randolph Chitwood, Jr., East Carolina University

PROGRAM COMMITTEE
Yolonda L. Colson, Brigham and Women's Hospital
David R. Jones, Memorial Sloan-Kettering Cancer Center
Mark D. Rodefeld, Indiana University School of Medicine
Todd K. Rosengart, Baylor College of Medicine

Ignite your spirit for innovation at this one-day program which will assist cardiothoracic surgeons in developing new clinically applicable technology by obtaining the cross-specialty knowledge needed for novel idea generation, protecting intellectual property, developmental funding, clinical trials, regulatory pathways and industry relations.

Session Highlights
- Generating Great Ideas
- Managing Your Intellectual Property
- The Opportunity Gap Where Ideas Starve
- Commercialization
- Industry Discussion
- Innovation to Commercialization Workshop

Please note registration for the AATS Innovation Summit is completed through the AATS Centennial registration website below:

www.aats.org/innovation