Unless otherwise noted in this Abstract Book or by the speakers, speakers have no commercial relationships to disclose and will be presenting information only on devices, products, or drugs that are FDA-approved for the purposes they are discussing.

**Friday, January 22, 2016**

3:00 PM – 6:00 PM  
Registration: STS/AATS Tech-Con and STS Annual Meeting

**Saturday, January 23, 2016**

7:00 AM – 6:00 PM  
Registration: STS/AATS Tech-Con and STS Annual Meeting

12:00 PM – 6:30 PM  
Tech-Con Exhibits

**1:00 PM – 3:00 PM**  
Exhibit Halls 2-3

### Adult Cardiac Track I: Mitral Valve Technology

**Moderators:** Richard Lee, St Louis, MO, and Rakesh M. Suri, Cleveland, OH

**COMMERCIAL RELATIONSHIPS**  
- R. M. Suri: Consultant/Advisory Board, Abbott Vascular; Research Grant, Edwards Lifesciences Corporation, St Jude Medical, LivaNova

1:00 PM  
Welcome and Introduction  
Gorav Ailawadi, Charlottesville, VA

**COMMERCIAL RELATIONSHIPS**  
- G. Ailawadi: Consultant/Advisory Board, Edwards Lifesciences Corporation, Abbott Vascular; Nonremunerative Position of Influence, AtriCure; Speakers Bureau/Honoraria, St Jude Medical

**Transcatheter/Novel Repair Approaches**  
1:05 PM

**Update on MitraClip**  
Gorav Ailawadi, Charlottesville, VA

**COMMERCIAL RELATIONSHIPS**  
- G. Ailawadi: Consultant/Advisory Board, Edwards Lifesciences Corporation, Abbott Vascular; Nonremunerative Position of Influence, AtriCure; Speakers Bureau/Honoraria, St Jude Medical

1:12 PM

**NeoChord**  
Gino Gerosa, Padova, Italy

**REGULATORY DISCLOSURE**  
This presentation will address the Neochord DS 1000 by Neochord, Inc, which is not FDA approved.

1:19 PM

**Valtech**  
Francesco Maisano, Milan, Italy

**COMMERCIAL RELATIONSHIPS**  
- F. Maisano: Ownership Interest, 4Tech Cardio, Edwards Lifesciences Corporation; Research Grant, Abbott Vascular; Speakers Bureau/Honoraria, Abbott Vascular, Valtech Cardio, Medtronic, Edwards Lifesciences Corporation, St Jude Medical, Apica

**REGULATORY DISCLOSURE**  
This presentation will address the Cardioband by Valtech Cardio, which is not FDA approved.
1:26 PM

**Millipede**

*Steven F. Bolling, Ann Arbor, MI*

**COMMERCIAL RELATIONSHIPS**  
S. F. Bolling: Consultant/Advisory Board, Abbott Vascular, Medtronic, Inc, LivaNova, AtriCure; Ownership Interest, Edwards Lifesciences Corporation, Millipede

**REGULATORY DISCLOSURE**  
This presentation will address a device by Millipede. The FDA status of this device is investigational.

1:33 PM

**Mitral Bridge**

*Valavanur A. Subramanian, New York, NY*

**COMMERCIAL RELATIONSHIPS**  
V. A. Subramanian: Ownership Interest, Heart Repair Technologies, Inc

**REGULATORY DISCLOSURE**  
This presentation will address the Mitral Bridge by HRT-Heart Repair Technologies, Inc, which is not FDA approved.

1:40 PM

**Basal Annuloplasty of the Cardia Externally**

*Jai S. Raman, Chicago, IL*

**COMMERCIAL RELATIONSHIPS**  
J. S. Raman: Ownership Interest, Phoenix Cardiac Devices; Other, Zimmer-Biomet Microfixation

**REGULATORY DISCLOSURE**  
This presentation will address the BACE device by Phoenix Cardiac Devices, LLC, which has an FDA status of investigational.

1:47 PM

**Cardiosolutions Mitra-Spacer**

*Lars G. Svensson, Cleveland, OH*

**COMMERCIAL RELATIONSHIPS**  
L. G. Svensson: Ownership Interest, Cardiosolutions, Inc, Posthorax

**REGULATORY DISCLOSURE**  
This presentation will address the Mitra-Spacer by Cardiosolutions, which is not FDA approved.

1:50 PM

**Panel Discussion**

**Transcatheter Mitral Valve Replacement**

2:10 PM

**Fortis Valve**

*Vinod H. Thourani, Atlanta, GA*

2:17 PM

**CardiAQ Valve**

*Wilson Y. Szeto, Philadelphia, PA*

**COMMERCIAL RELATIONSHIPS**  
W. Y. Szeto: Consultant/Advisory Board, Micro Interventional Devices, Inc; Research Grant, Edwards Lifesciences Corporation, Medtronic, Inc, LivaNova

2:24 PM

**Neovasc Tiara Valve**

*Anson Cheung, Vancouver, Canada*

**COMMERCIAL RELATIONSHIPS**  
A. Cheung: Research Grant, Neovasc, Inc; Speakers Bureau/Honoraria, Neovasc, Inc

**REGULATORY DISCLOSURE**  
This presentation will address the Tiara valve by Neovasc, Inc, which has an FDA status of investigational.
2:31 PM

**Tendyne**

*Robert S. Farviar, Minneapolis, MN*

**COMMERCIAL RELATIONSHIPS** R. S. Farviar: Consultant/Advisory Board, Edwards Lifesciences Corporation, Abbott Laboratories

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2:38 PM

**Direct Flow**

*Robert Bauernschmitt, Munich, Germany*

**COMMERCIAL RELATIONSHIPS** Consultant/Advisory Board, Medtronic, Direct Flow Medical, Inc

**REGULATORY DISCLOSURE** This presentation will address the Direct Flow Medical valve, which is not FDA approved.

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2:45 PM

**Panel Discussion**

*Gilbert H. Tang, New York, NY*

**REGULATORY DISCLOSURE** This presentation will address the CardiAQ and Fortis valves by Edwards Lifesciences Corporation. This presentation describes the off-label use of transcatheter mitral valves made by different companies that are not yet FDA approved and are in feasibility trials. Panel discussion will include these devices.

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**General Thoracic Track I: Lung Surgery of the Future**

*Moderators: Julian Guitron, Loveland, OH, and Michael F. Reed, Hershey, PA*

**COMMERCIAL RELATIONSHIPS** M. F. Reed: Consultant/Advisory Board, Spiration

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1:00 PM

**Introduction**

*Sunil Singhal, Philadelphia, PA*

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1:05 PM

**Nodule Localization**

*Sunil Singhal, Philadelphia, PA*

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1:20 PM

**Energy for Pulmonary Artery Vessel Ligation**

*Moishe A. Liberman, Montreal, Canada*

**COMMERCIAL RELATIONSHIPS** M. A. Liberman: Research Grant, Ethicon, Boston Scientific, Baxter

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1:35 PM

**Lung Cryoablation**

*Matthew R. Callstrom, Rochester, MN*

**COMMERCIAL RELATIONSHIPS** M. R. Callstrom: Consultant/Advisory Board, Medtronic, Inc, Perseon; Research Grant, Galil Medical, Inc

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1:50 PM

**Veran Thoracic Navigation System**

*Jennifer W. Toth, Hershey, PA*
2:05 PM
Microlobectomy: A Novel Form of Video-Assisted Thoracoscopic Lobectomy
Joel Dunning, Middlesbrough, United Kingdom
COMMERCIAL RELATIONSHIPS J. Dunning: Speakers Bureau/Honoraria, CARDICA, Inc
REGULATORY DISCLOSURE This presentation will address the Microcutter by Cardica, which is not FDA approved. This presentation will describe vascular thoracic stapling in VATS surgery, which is currently off-label in the USA.

2:20 PM
Minimally Invasive Lung Ablation Using Electromagnetic Navigation Bronchoscopy and Cone Beam Computed Tomography Imaging
Douglas J. Minnich, Birmingham, AL, and William Dickhans, Boulder, CO
COMMERCIAL RELATIONSHIPS W. Dickhans: Employment, Medtronic, Inc
REGULATORY DISCLOSURE This presentation will address the Emprint ablation catheter kit with thermosphere technology by Medtronic, Inc, which is not FDA approved.

2:35 PM
Panel Discussion

3:00 PM – 3:30 PM
Lower Level Foyer
BREAK—Visit Tech-Con Exhibits

3:30 PM – 5:00 PM
Exhibit Halls 2-3
Adult Cardiac Track II: Heart Failure Technology
Moderators: Mark S. Slaughter, Louisville, KY, and Leora T. Yarboro, Charlottesville, VA

3:30 PM
Update on Novel Left Ventricular Assist Device (LVAD) Trials
Nicholas G. Smedira, Cleveland, OH
REGULATORY DISCLOSURE This presentation will address the Heartmate 3 by Thoratec, which has an FDA status of investigational.

3:45 PM
Total Artificial Heart: Ready for Primetime at All LVAD Centers?
Francisco A. Arabia, Los Angeles, CA

4:00 PM
CircuLite Synergy
Pavan Atluri, Philadelphia, PA
REGULATORY DISCLOSURE This presentation will address the Circulite by HeartWare, which has an FDA status of investigational.

4:07 PM
ReliantHeart HeartAssist
Richard-Tien Ha, Stanford, CA
REGULATORY DISCLOSURE This presentation will address the HeartAssist by ReliantHeart, which has an FDA status of investigational.
4:14 PM
**NuPulse Implantable Counterpulsation**
Valluvan Jeevanandam, Chicago, IL

**COMMERCIAL RELATIONSHIPS**  V. Jeevanandam: Consultant/Advisory Board, Thoratec Corporation, ReliantHeart, Inc, HeartWare, Inc

**REGULATORY DISCLOSURE**  This presentation will address the NuPulse iVAS by NuPulse, which has an FDA status of investigational. This presentation describes the off-label use of a minimally invasive counterpulsation system for treatment of advanced CHF.

4:21 PM
**Self-Regulating, Single-Piece, Pulsatile, Continuous-Flow Total Artificial Heart**
Nader Moazami, Cleveland, OH

4:28 PM
**Panel Discussion**

4:45 PM
**Sternal Closure Devices: What’s the Skinny on All These Technologies?**
Kendra J. Grubb, Louisville, KY

**COMMERCIAL RELATIONSHIPS**  K. J. Grubb: Speakers Bureau/Honoraria, Edwards Lifesciences Corporation

3:30 PM – 5:00 PM  Room 120D

**General Thoracic Track II: Advances in Robotic Tools and Technology**

**Moderators:** Mark F. Berry, Stanford, CA, and Jeremiah T. Martin, Lexington, KY

3:30 PM
**DaVinci XI Firefly and Staplers**
Bernard J. Park, New York, NY

**COMMERCIAL RELATIONSHIPS**  B. J. Park: Speakers Bureau/Honoraria, Intuitive Surgical, Inc

3:45 PM
**Spy/Pinpoint**
Min P. Kim, Houston, TX

4:00 PM
**Robotic Technology in Development**
Mark R. Dylewski, Palmetto Bay, FL

**COMMERCIAL RELATIONSHIPS**  M. R. Dylewski: Consultant/Advisory Board, Ethicon, Inc; Speakers Bureau/Honoraria, Intuitive Surgical, Inc, Ethicon, Inc, C. R. Bard, Inc

4:15 PM
**Emerging Robotic Tools**
David C. Rice, Houston, TX

**COMMERCIAL RELATIONSHIPS**  D. C. Rice: Consultant/Advisory Board, Olympus Corporation

**REGULATORY DISCLOSURE**  This presentation will address several robotic platforms in development by Titan Medical, which are not FDA approved.

4:30 PM
**New Robotic Platforms**
Robert J. Cerfolio, Birmingham, AL

**COMMERCIAL RELATIONSHIPS**  R. J. Cerfolio: Consultant/Advisory Board, Intuitive Surgical, Inc, Ethicon, Covidien, Bovie Medical Corporation
New Haptic Technology for Robotic Surgery
Mark W. Onaitis, Durham, NC

STS/AATS Tech-Con Reception

Sunday, January 24, 2016

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

Tech-Con Exhibits

Adult Cardiac Track III: Aortic Valve and Aortic Disease
Moderators: S. Chris Malaisrie, Chicago, IL, and Himanshu J. Patel, Ann Arbor, MI

COMMERCIAL RELATIONSHIPS

Update on Transcatheter Aortic Valve Replacement (TAVR) Device Trials in the US and Europe
David R. Holmes, Rochester, MN

Update on Novel Apical Closure Devices
Thomas Walther, Bad Nauheim, Germany

REGULATORY DISCLOSURE
This presentation will address the Cardioclose apical closure system by Entourage, Inc, which has an FDA status of investigational. This presentation will describe the off-label use of an apical access and closure system.

Novel Suprasternal Aortic Access Device for TAVR
Andy C. Kiser, Chapel Hill, NC

COMMERCIAL RELATIONSHIPS
A. C. Kiser: Ownership Interest, Aegis Surgical

Debate: What the Surgeon’s Role in TAVR Really Will Be 5 Years From Now

Let’s Get Real, Cardiologists Will Own It
Hersh S. Maniar, St Louis, MO

I Can Do TAVR With My Eyes Closed. I Will Be Doing TAVR
Vinod H. Thourani, Atlanta, GA
8:40 AM
Panel Discussion

8:50 AM
Results of Ascending Aortic Stent Grafting Using the First FDA-Approved Investigational Device Exemption (IDE)
Ali Khoynezhad, Los Angeles, CA

COMMERCIAL RELATIONSHIPS  A. Khoynezhad: Consultant/Advisory Board, C. R. Bard, Inc

REGULATORY DISCLOSURE  This presentation will address the Valiant Ascending stent graft by Medtronic, Inc, and the Tridyne Vascular Sealant by C. R. Bard, which both have FDA statuses of investigational. This presentation will describe the off-label use of Tridyne and vascular sealant for proximal aortic surgery.

9:00 AM
Branch Stent Grafting of Arch: IDE Results
Nimesh Desai, Philadelphia, PA


REGULATORY DISCLOSURE  This presentation will address the TBE Graft by W. L. Gore, which is not FDA approved. This presentation will describe the off-label use of the Gore TBE branched endograft to treat aortic pathologies.

9:10 AM
A Novel Device to Promote Active Remodeling and Cure of Aortic Dissections
Ali Shahriari, Indianapolis, IN

COMMERCIAL RELATIONSHIPS  A. Shahriari: Ownership Interest, Ascyrus Medical LLC

REGULATORY DISCLOSURE  This presentation will address the Medical Dissection Stent by Ascyrus Medical LLC, which has an FDA status of investigational.

7:45 AM – 9:30 AM
Room 120D

General Thoracic Track III: OR of the Future

Moderators: Reza J. Mehran, Houston, TX, and Allan Pickens, Atlanta, GA

COMMERCIAL RELATIONSHIPS  A. Pickens: Speakers Bureau/Honoraria, Ethicon

7:45 AM
Introduction

7:50 AM
Sony Head-Mounted Display
Eric L. Grogan, Nashville, TN

8:05 AM
Apps in Practice
Edward M. Bender, Cape Girardeau, MO

8:20 AM
Google Glass
TBD

8:35 AM
Apps for Education
Shari L. Meyerson, Chicago, IL
8:50 AM

Thoracic Hybrid Room of the Future
Kazuhiro Yasufuku, Toronto, Canada

COMMERCIAL RELATIONSHIPS  K. Yasufuku: Research Grant, Olympus Corporation

9:05 AM

Holographic Projection
Todd L. Demmy, New Brunswick, NJ

9:20 AM

Panel Discussion

9:30 AM – 10:15 AM
Lower Level Foyer

BREAK—Visit Tech-Con Exhibits

10:15 AM – 12:00 PM  Exhibit Halls 2-3

Joint Session: “Shark Tank”—Rapid-Fire Elevator Pitches of Revolutionary Technology
Moderators: Gorav Ailawadi, Charlottesville, VA, and Shanda H. Blackmon, Rochester, MN

COMMERCIAL RELATIONSHIPS  G. Ailawadi: Consultant/Advisory Board, Edwards Lifesciences Corporation, Abbott Vascular; Speakers Bureau/Honoraria, St Jude Medical; Nonremunerative Position of Influence, AtriCure, Inc

10:15 AM

Introduction

10:30 AM

Central Venous Cannulation With a New, Self-Expandable, Polymeric Venous Cannula
Enrico Ferrari, Lugano, Switzerland

COMMERCIAL RELATIONSHIPS  E. Ferrari: Speakers Bureau/Honoraria, Edwards Lifesciences Corporation

REGULATORY DISCLOSURE  This presentation will address the SAFEX by ComEd and Smartcanula by Smartcanula Ltd, which are not FDA approved.

10:40 AM

New Prototype of an Expandable, Catheter-Implantable, Polyurethane Stent Valve for Pediatric Patients
Miguel A. Maluf, São Paulo, Brazil

REGULATORY DISCLOSURE  This presentation will address an expandable stent valve made of polyurethane by São Paulo Federal University & Bentley InnoMad, which has an FDA status of investigational.

10:50 AM

Spinal Fiber-Optic Monitoring for Ischemia
Thomas Floyd, Stony Brook, NY

COMMERCIAL RELATIONSHIPS  T. Floyd: Ownership Interest, Infosys Limited; Research Grant, Craig H. Neilsen Foundation

REGULATORY DISCLOSURE  This presentation will address a fiber-optic spinal cord flow and oxygenation monitor by NFOSYS, Inc, which is not FDA approved.

11:00 AM

Cooling Catheter for Spinal Cord Protection
John A. Elefteriades, New Haven, CT

COMMERCIAL RELATIONSHIPS  J. A. Elefteriades: Ownership Interest, Coolspine LLC; Other, Jarvik Heart, Inc, Direct Flow Medical, Inc
11:10 AM

**Infrared Coagulator to Treat Atrial Fibrillation, Infectious Endocarditis, and Cardiac Tumors**

*Hiroshi Kubota, Mitaka, Japan*

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11:20 AM

**Maneuverable Chest Tube**

*Ian A. Makey, San Antonio, TX*

**REGULATORY DISCLOSURE** This presentation will address a maneuverable chest tube by UTHSCSA, which is not FDA approved.

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11:30 AM

**Hyperthermic Pleural Lavage for Pleural Metastasis**

*Daniel L. Miller, Marietta, GA*

**COMMERCIAL RELATIONSHIPS** D. L. Miller: Consultant/Advisory Board, Ethicon, Inc, C. R. Bard, Inc; Research Grant, Medela, Inc; Speakers Bureau/Honoraria, Covidien

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11:40 AM

**SAFEX Apical Closure Device for Fully Percutaneous Transapical Valve Therapies**

*Enrico Ferrari, Lugano, Switzerland*

**COMMERCIAL RELATIONSHIPS** E. Ferrari: Speakers Bureau/Honoraria, Edwards Lifesciences Corporation

**REGULATORY DISCLOSURE** This presentation will address the SAFEX by ComEd and Smartcanula by Smartcanula Ltd, which are not FDA approved.

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11:50 AM

**Methods of Palliative Treatment for Complicated Forms of Lung Cancer**

*Vladislav Severgin, Odessa, Ukraine*

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12:00 PM – 1:15 PM

**Visit Tech-Con Exhibits**

*Lower Level Foyer*

Continuing medical education credit will not be offered for STS/AATS Tech-Con 2016 programming.