This conference, led by Program Directors Juan P. Umaña, MD (El Rosario University/Fundación Cardioinfantil in Bogotá, Colombia), Vinod H. Thourani, MD (MedStar Heart and Vascular Institute in Washington, DC, USA), Nestor F. Sandoval, MD (Fundación Cardioinfantil in Bogotá, Colombia), Jose Luis Pomar, MD, PhD (University of Barcelona, Spain), Manuel J. Antunes, MD, PhD, DSc (University Hospital, Coimbra, Portugal), and Joseph E. Bavaria, MD (University of Pennsylvania in Philadelphia, PA, USA), is a 2.5-day educational activity that will provide a unique and innovative format for the attendees, highlighting the management of cardiovascular surgical diseases.

Sessions will incorporate not only invited lectures from a world-class international faculty on traditional and new technology procedures, but also original scientific abstracts presented in oral and poster sessions. They will concentrate on the multidisciplinary approach to coronary artery disease, valvular heart disease, thoracic aorta disease, atrial fibrillation, and the surgical management of heart failure. New this year, select presentations will focus on congenital heart disease. An integral component will be invited technical videos related to procedural expertise in these disease processes, followed by robust panel discussions. This innovative conference will provide attendees access to the highest level of education with the goal of improved patient management.

Learning Objectives

Upon completion of this activity, participants should be able to:

- Evaluate the impact of new knowledge and the application of new technology on the treatment of cardiovascular diseases
- Discuss surgical techniques in order to improve the standard of care for cardiovascular patients
- Review the results of clinical and laboratory investigations designed to reveal new knowledge of cardiovascular disease
- Describe the multidisciplinary approach to coronary artery disease, valvular heart disease, thoracic aorta disease, atrial fibrillation, and the surgical management of heart failure
- Discuss quality improvement as it pertains to pediatric cardiac surgery
- Describe new surgical strategies in neonates and children with congenital heart disease
Target Audience

This conference is intended for:
- Cardiothoracic surgeons
- Cardiovascular surgeons
- Cardiologists
- Anesthesiologists
- Perfusionists
- Physician assistants
- Nurses
- Other health care professionals interested in the topic

Registration

Early bird registration through August 14, 2018
- Physicians: USD 250
- Non-Physicians: USD 150

Standard registration beginning August 15, 2018
- Physicians: USD 300
- Non-Physicians: USD 200
STS/EACTS Latin America Cardiovascular Surgery Conference

Course Directors

**Juan P. Umaña, MD** (Bogotá, Colombia)

Dr. Umaña is the Chief Medical Officer and Director of Cardiovascular Medicine at the Fundación Cardioinfantil Instituto de Cardiología in Bogotá, Colombia. He trained in general surgery at Columbia Presbyterian Medical Center in New York City. During a year of research in Dr. Mehmet Oz’s lab, he patented the MitraClip, after which he went to Stanford University for his cardiothoracic surgery training.

**Vinod H. Thourani, MD** (Washington, DC, USA)

Dr. Thourani is Chairman of the Department of Cardiac Surgery at MedStar Heart & Vascular Institute in Washington, DC. He is a Director-at-Large on The Society of Thoracic Surgeons Board of Directors, Chair of the Society’s Workforce on International Meetings, and Chair of the STS/ACC TVT RegistryTM Research and Publications Subcommittee. Dr. Thourani has extensive expertise in structural heart disease and valve surgery, specifically transcatheter aortic valve replacement and minimally invasive aortic and mitral valvular surgery.

**Nestor F. Sandoval, MD** (Bogotá, Colombia)

Dr. Sandoval is Chief of Pediatric Cardiovascular Surgery and Director of the Congenital Heart Institute at the Fundación Cardioinfantil Instituto de Cardiología in Bogotá, Colombia. He also is a Professor of Surgery and Director of the Pediatric Cardiac Surgery Program at the Universidad del Rosario, also in Bogotá. He serves as Secretary of the World Society for Pediatric and Congenital Heart Surgery and is a Past President of the Sociedad Latina de Cardiología y Cirugía Cardiovascular Pediátrica. He has authored more than 200 scientific publications and edited three cardiology textbooks.
José Luis Pomar, MD, PhD (Barcelona, Spain)
Dr. Pomar is a Senior Consultant in Cardiovascular Surgery and Director of the Cardiothoracic Transplantation Program at the Hospital Clinico de Barcelona. He also is a Professor of Surgery at the University of Barcelona Medical School. He has published more than 200 peer-reviewed articles and presented more than 600 papers and lectures at meetings around the world. Dr. Pomar is a Past President of the European Association for Cardio-Thoracic Surgery.

Manuel J. Antunes, MD, PhD, DSc (University Hospital, Coimbra, Portugal)
Dr. Antunes is Director of the Department of Cardiothoracic Surgery at Coimbra University Hospitals and a Professor of Cardiothoracic Surgery at Coimbra University in Portugal. He also is a former President of the Portuguese Academy of Medicine. Dr. Antunes has authored more than 400 scientific publications, the majority on heart valve surgery. He has performed more than 25,000 open heart procedures, including more than 10,000 valve operations (about 3,000 mitral and aortic valvuloplasties) and 300 heart transplantations.

Joseph E. Bavaria, MD (Philadelphia, PA, USA)
Dr. Bavaria is the Brooke Roberts–William Maul Measey Professor in Surgery, Vice Chief of the Division of Cardiovascular Surgery, and Director of the Thoracic Aortic Surgery Program at the University of Pennsylvania in Philadelphia. He served as President of The Society of Thoracic Surgeons from 2016 to 2017 and currently is Chair of the STS/ACC TVT RegistryTM Steering Committee. Dr. Bavaria’s clinical interests involve complex aortic diseases and cardiac valve surgery. He has also published extensively on issues regarding thoracic aortic surgery and circulation management for complex thoracic aortic reconstruction.
**Day 1: Thursday, November 15, 2018**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 a.m. – 8:10 a.m.</td>
<td>Opening Remarks</td>
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<tr>
<td><strong>General Session: Mitral Valve</strong></td>
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<td><strong>Moderators:</strong></td>
<td>Steven F. Bolling, MD, Michael J. Mack MD, and Juan P. Umaña, MD</td>
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<tr>
<td>8:10 a.m. – 8:22 a.m.</td>
<td>The Case for Watchful Waiting in Mitral Valve Regurgitation</td>
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<td>Michael J. Mack, MD</td>
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<td>8:22 a.m. – 8:34 a.m.</td>
<td>Minimally Invasive Mitral Valve Repair: On or Off Pump?</td>
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<td>Francesco Maisano, MD</td>
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<td>8:34 a.m. – 8:46 a.m.</td>
<td>Mitral Valve in Rheumatic Disease: Scenarios for Repairing versus Replacing</td>
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<td>Steven F. Bolling, MD</td>
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<td>8:46 a.m. – 8:58 a.m.</td>
<td>Transcatheter Mitral Valve Replacement: Where Are We?</td>
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<td>Vinod H. Thourani, MD</td>
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<td>8:58 a.m. – 9:10 a.m.</td>
<td>Mitral Valve Repair: Does Hospital Volume Matter?</td>
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<td>Juan P. Umaña, MD</td>
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<td>9:10 a.m. – 9:20 a.m.</td>
<td>Abstract I: TBD</td>
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<td>9:30 a.m. – 10:00 a.m.</td>
<td>Panel Discussion</td>
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<td>10:00 a.m. – 10:30 a.m.</td>
<td>BREAK</td>
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<tr>
<td>10:30 a.m. – 11:00 a.m.</td>
<td>Antoni Gaudi and the Mitral Valve</td>
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<tr>
<td>Jose L. Pomar, MD, PhD</td>
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</table>
General Session: STS/EACTS and Latin America Quality and Outcomes Initiatives

**Moderators:** Daniel O. Navia, MD, Jeffrey P. Jacobs, MD, and Francesco Maisano, MD

**11:00 a.m. – 11:12 a.m.**
International Databases/Their Role in Quality Improvement Worldwide

*Orjan Friberg, MD, PhD*

**11:12 a.m. – 11:24 a.m.**
Bundled Payments in Cardiac Surgery

*Jason Arora, MD*

**11:24 a.m. – 11:36 a.m.**
Does Volume in a Pediatric Cardiac Surgery Program Impact the Results?

*Jeffrey P. Jacobs, MD*

**11:36 a.m. – 11:48 a.m.**
The Future of Randomized Trials: The Use of Registries

*John C. Laschinger, MD*

**11:48 a.m. – 12:00 p.m.**
How the STS National Database Impacts a Cardiothoracic Surgery Division

*Michael J. Mack, MD*

**12:00 p.m. – 12:10 p.m.**
**Abstract I:** TBD

*Presenter*

**12:10 p.m. – 12:20 p.m.**
**Abstract II:** TBD

*Presenter*

**12:20 p.m. – 12:50 p.m.**
Panel Discussion

**12:50 p.m. – 1:50 p.m.**
LUNCH

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**Parallel Sessions**

**Track I: How to Videos – Adult**

**Moderators:** Jose L. Pomar, MD, PhD, Enrico Ferrari, MD, and Joseph E. Bavaria, MD

**1:50 p.m. – 2:00 p.m.**
HOCM: The Midventricular Approach

*Joseph F. Sabik, MD*

**2:00 p.m. – 2:10 p.m.**
Discussion

**2:10 p.m. – 2:20 p.m.**
Rheumatic Mitral Valve Repair

*Vinay Badhwar, MD*

**2:20 p.m. – 2:30 p.m.**
Discussion

**Track II: How to Videos – Pediatric**

**Moderators:** Nestor F. Sandoval, MD, David J. Barron, MD, and Marcelo B. Jatene, MD

**1:50 p.m. – 2:00 p.m.**
Mitral Valve Repair

*Pedro J. del Nido, MD*

**2:00 p.m. – 2:10 p.m.**
Discussion

**2:10 p.m. – 2:20 p.m.**
Modified Konno Procedures

*Christian Pizarro, MD*

**2:20 p.m. – 2:30 p.m.**
Discussion
Parallel Sessions

Track III: Atrial Fibrillation

Moderators: Vinay Badhwar, MD, Filip P.A. Casselman, MD, PhD and Javier D. Maldonado, MD

2:30 p.m. – 2:42 p.m. Does Ablation for AFIB Improve Long-Term Survival?
Vinay Badhwar, MD

2:42 p.m. – 2:54 p.m. Concomitant AFIB Ablation: What Are the Right Lesion Set and Energy Source?
Javier D. Maldonado, MD

2:54 p.m. – 4:06 p.m. Should Hybrid Ablation Be the Standard of Care Instead of Transcatheter Ablation Techniques?
Christian C. Shults, MD

4:06 p.m. – 4:18 p.m. Minimally Invasive MV Surgery with Biatrial Maze Operation
Filip P.A. Casselman, MD, PhD

4:18 p.m. – 4:30 p.m. The Left Atrial Appendage: Should it be Closed on Every Open Cardiac Surgery Case?
Joseph F. Sabik, MD

Track IV: Heart Failure / VADS

Moderators: Francis D. Pagani, MD, PhD, Christian A. Bermudez, MD, and Rodrigo Gonzalez, MD

2:40 p.m. – 2:52 p.m. Double Switch Operation in LTGA: How I Do It
David J. Barron, MD

3:00 p.m. – 3:12 p.m. Discussion

1:50 p.m. – 2:02 p.m. Aortic Arch Replacement: The Elephant Trunk Technique
Malakh L. Shrestha, MD, PhD

2:02 p.m. – 2:14 p.m. Aortic Valvuloplasty: Osaki Reconstruction of Aortic Valve in Children and Young Adults
Pedro del Nido, MD

3:12 p.m. – 3:24 p.m. Discussion

2:30 p.m. – 2:42 p.m. Transcatheter Valve in MAC
Tom C. Nguyen, MD

2:42 p.m. – 2:54 p.m. How to Develop a Comprehensive Ventricular Assist Device Program
Rodrigo V. Gonzalez, MD

3:24 p.m. – 3:36 p.m. Discussion

3:36 p.m. – 3:48 p.m. Minimally Invasive MV Surgery with Biatrial Maze Operation
Filip P.A. Casselman, MD, PhD

3:48 p.m. – 3:54 p.m. ECMO as a Bridge to Heart Transplant in the Era of LVADs
Christian A. Bermudez, MD

4:18 p.m. – 4:30 p.m. Mechanical Support in the Single Ventricle
Stephanie M. Fuller, MD
Day 2: Friday, November 16, 2018

7:00 a.m. – 8:00 a.m. Resident Training – Breakfast

Parallel Sessions
8:00 a.m. – 8:10 a.m.

Track V: Aortic Valve

**Moderators:** Vinod H. Thourani, MD, Martin Grabenwöger, MD, and Vadim Kotowicz, MD

- **8:00 a.m. – 8:10 a.m.** Opening Remarks

- **8:10 a.m. – 8:22 a.m.** Minimally Invasive Aortic Valve Replacement Options
  *Tom C. Nguyen, MD*

- **8:22 a.m. – 8:34 a.m.** Mechanical versus Bioprosthetic Aortic Valve Replacement: Time to Reconsider?
  *Christian Shults, MD*

- **8:34 a.m. – 8:46 a.m.** Are Heart Valve Referral Centers Feasible in Latin America?
  *Vadim Kotowicz, MD*

- **8:46 a.m. – 8:58 a.m.** TAVR or SAVR – A Glimpse into the Future
  *Orjan Friberg, MD, PhD*

8:10 a.m. – 8:22 a.m.

**Track VI: Congenital – Transposition of the Great Arteries**

**Moderators:** Lorenzo Galletti, MD, PhD, David Barron, MD, and Marcelo B. Jatene, MD

- **8:10 a.m. – 8:22 a.m.** Are There Indications for Atrial Switch (or Atrial Inversion Surgery) in the 21st Century?
  *Marcelo B. Jatene, MD*

- **8:22 a.m. – 8:34 a.m.** Arterial Switch Operation and Complex Coronary Patterns
  *Lorenzo Galletti, MD, PhD*

- **8:34 a.m. – 8:46 a.m.** Surgical Options for TGA/LVOTO/PS
  *Mark G. Hazekamp, MD, PhD*

- **8:46 a.m. – 8:58 a.m.** Indications and Outcomes of Double Switch for Corrected Transposition of Great Arteries
  *David J. Barron, MD*

8:40 p.m. – 9:40 p.m.

**Panel Discussion**

7:00 p.m.

**Reception**
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:58 a.m. – 9:10 a.m.</td>
<td>The Role of Sutureless Valves in the Surgeon’s Armamentarium</td>
<td>Malakh L. Shrestha, MD, PhD</td>
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<td>Track V: Aortic Valve (Continued)</td>
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<td>9:10 a.m. – 9:20 a.m.</td>
<td>Abstract I: TBD Presenter</td>
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<td>Abstract II: TBD Presenter</td>
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<tr>
<td>9:30 a.m. – 10:00 a.m.</td>
<td>Panel Discussion</td>
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<tr>
<td>10:00 a.m. – 10:40 a.m.</td>
<td>Stump the Professor: Aortic Valve/Mitral Valve/Heart Failure</td>
<td>Moderators: Jose L. Pomar, MD, PhD and Joseph E. Bavaria, MD</td>
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<td>Panelists: Steven F. Bolling, MD, Vinod H. Thourani, MD, Gebrine El Khoury, MD, Juan P. Umaña, MD</td>
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<tr>
<td>10:40 a.m. – 11:00 a.m.</td>
<td>BREAK</td>
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<tr>
<td>Parallel Sessions</td>
<td>Track VII: Aorta/Aortic Arch/Neurologic Protections</td>
<td>Track VIII: Congenital: Univentricular Heart</td>
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<td>Moderators: Enrico Ferrari, MD, Joseph E. Bavaria, MD, and Eduardo Turner, MD</td>
<td>Moderators: Stephanie M. Fuller, MD, Christian Kreutzer MD, and Jeffrey Jacobs, MD</td>
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<tr>
<td>11:00 a.m. – 11:12 a.m.</td>
<td>DEBATE: Aggressive Resection/Reconstruction of the Aortic Arch in Type A Dissection Pro: Martin Grabenwöger, MD</td>
<td>AV Valves Insufficiency in Univentricular Hearts: When and How I Fix It Pedro J. del Nido, MD</td>
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<tr>
<td>11:12 a.m. – 11:24 a.m.</td>
<td>DEBATE: Aggressive Resection/Reconstruction of the Aortic Arch in Type A Dissection Con: Thomas G. Gleason, MD</td>
<td>Surgical Options in Fontan Failure Stephanie M. Fuller, MD</td>
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<tr>
<td>11:24 a.m. – 11:36 a.m.</td>
<td>Debranching and Extended Endografting versus Total Surgical Reconstruction of the Arch – What Is the Evidence? Enrico Ferrari, MD</td>
<td>Is One and a Half Better than One? David Barron, MD</td>
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<td>Track VI: Congenital — Transposition of the Great Arteries (Continued)</td>
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<td>Long-Term Follow-Up of the Arterial Switch Operation: Not as Good as It Gets? Gil Wernovsky, MD</td>
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<td>Panel Discussion</td>
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<td>Stump the Professor: Congenital</td>
<td>Moderators: Pedro J. del Nido, MD and Nestor F. Sandoval, MD</td>
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<td>Panelists: Christian Pizarro, MD, Stephanie M. Fuller, MD, Mark G. Hazekamp, MD, David J. Barron, MD</td>
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</table>
11:36 a.m. – 11:48 a.m. Management of Malperfusion Syndrome in Type A Aortic Dissection
_Eduardo Turner, MD_

Surgical and Interventional management of Lymphatic Complications After Univentricular Heart Repair
_Christian Kreutzer, MD_

11:48 a.m. – 12:00 p.m. Cannulation Strategy in Type A Dissection: Order Out of Chaos
_Thomas G. Gleason, MD_

Protein-Losing Enteropathy After Fontan Operation: Is There a Surgical Option?
_Christian Kreutzer, MD_

12:00 p.m. – 12:20 p.m. Is the Availability of New Aortic Devices Going to Change Our Index Operation for Type A Dissection?
_Joseph E. Bavaria, MD_

Abstract I: TBD
Presenter

12:20 p.m. – 12:30 p.m. Abstract I: TBD
Presenter

Abstract II: TBD
Presenter

12:30 p.m. – 12:50 p.m. Panel Discussion
Panel Discussion

12:50 p.m. – 1:30 p.m. LUNCH

Parallel Sessions

Track IX: Tricuspid Valve/Heart Failure
Moderators: Francis D. Pagani, MD, PhD, Alejandro Bertolotti, MD, and Ezequiel J. Molina, MD

1:30 p.m. – 1:42 p.m. Surgical Options to Prevent and Treat Tricuspid Valve Regurgitation in Heart Transplant Recipients
_Alejandro M. Bertolotti, MD_

1:42 p.m. – 1:54 p.m. Current Surgical Strategies in the Management of Tricuspid Valve Endocarditis
_Vadim Kotowicz, MD_

1:54 p.m. – 2:06 p.m. Right Heart Failure in LVAD Patients: Prevention and Management
_Christian A. Bermudez, MD_

2:06 p.m. – 2:18 p.m. Percutaneous Technologies to Correct Tricuspid Regurgitation: Myth or Reality
_Francesco Maisano, MD_

Track X: Aortic Root
Moderators: Malakh L. Shrestha, MD, PhD, Eduardo Turner, MD, and Francisco da Costa, MD

1:30 p.m. – 1:42 p.m. Options and Outcomes for Aortic Valve Plasty in Children and Young Adults
_Mark G. Hazekamp, MD, PhD_

1:42 p.m. – 1:54 p.m. Long-Term Results of Valve-Sparing Aortic Root Replacement: Reimplantation Technique
_Gebrine El Khoury, MD_

1:54 p.m. – 2:06 p.m. Decellularization of Aortic Homografts: South American and European Current Experience
_Francisco da Costa, MD_

2:06 p.m. – 2:18 p.m. To Do or Not to Do a Root in An Aortic Dissection
_Joseph E. Bavaria, MD_
### Track IX: Tricuspid Valve/Heart Failure (Continued)

**2:18 p.m. – 2:30 p.m.**
Mitrval Valve Surgery in the Low EF Patient Population: Is It Ever Too Late?
*Francis D. Pagani, MD, PhD*

**2:30 p.m. – 2:40 p.m.**
Abstract I: TBD
*Presenter TBD*

**2:40 p.m. – 2:50 p.m.**
Abstract II: TBD
*Presenter TBD*

**2:50 p.m. – 3:20 p.m.**
Panel Discussion

**3:20 p.m. – 3:40 p.m.**
BREAK

### Track X: Aortic Root (Continued)

**2:30 p.m. – 2:40 p.m.**
Aortic Root Replacement in Elderly Patients: VSRR, “Wheat Procedure,” or Bentall?
*Eduardo Turner, MD*

**2:40 p.m. – 2:50 p.m.**
Abstract I: TBD
*Presenter TBD*

**2:50 p.m. – 3:20 p.m.**
Abstract II: TBD
*Presenter TBD*

**3:20 p.m. – 3:40 p.m.**
Panel Discussion

### Parallel Sessions

**Track XI: Coronary Artery Disease**
**Moderators:** Joseph Sabik, MD, Daniel O. Navia, MD, and Jorge M. Balaguer, MD

**3:40 p.m. – 3:52 p.m.**
Incremental Value of Multiple Arterial Conduits in Coronary Artery Bypass Grafting
*Joseph F. Sabik, MD*

**3:52 p.m. – 4:04 p.m.**
Cardiac Artery Bypass Grafting in Diabetics: All Arterial or Hybrid?
*Daniel O. Navia, MD*

**4:04 p.m. – 4:16 p.m.**
Optimal Management Strategies in Ischemic Ventricular Septal Rupture
*Juan P. Umaña, MD*

**Track XII: Congenital – Neonatal and Early Surgery**
**Moderators:** Christian Pizarro, MD, Mark G. Hazekamp, MD, PhD, and Christian Kreutzer, MD

**3:40 p.m. – 3:52 p.m.**
HLHS: How Far Have We Come?
*Christian Pizarro, MD*

**3:52 p.m. – 4:04 p.m.**
New Strategies in the ICU: Management of Complex Neonatal Surgery
*Gil Wernovsky, MD*

**4:04 p.m. – 4:16 p.m.**
Valve-Sparing Repair Techniques in Tetralogy of Fallot: Midterm Results and Therapeutic Implications
*Pedro J. del Nido, MD*
4:16 p.m. – 4:28 p.m.  
Radial Artery as the Second Arterial Graft: A New Appraisal  
*Marco Oliveira, MD*

4:28 p.m. – 4:40 p.m.  
Off-Pump Cardiac Artery Bypass Grafting: Perspectives After Two Decades  
*Jorge M. Balaguer, MD*

4:40 p.m. – 4:50 p.m.  
**Abstract I:** TBD  
*Presenter*

4:50 p.m. – 5:00 p.m.  
**Abstract II:** TBD  
*Presenter*

5:00 p.m. – 5:30 p.m.  
Panel Discussion

5:30 p.m. – 5:45 p.m.  
Closing Comments

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Day 3: Saturday, November 17, 2018

8:00 a.m. – 9:00 a.m.  
How Industry and Cardiothoracic Surgeons Work Together  
**Moderators:** Juan P. Umaña, MD and Vinod H. Thourani, MD  
**Panelist:** Joseph E. Bavaria, MD, Michael J. Mack, MD, Jose L. Pomar, MD, PhD, and Steven F. Bolling, MD