



# Workshop on Robotic Cardiac Surgery:

Hands-On Team Training in  
Robotic Mitral Valve Repair,  
Coronary Bypass & More



The Society  
of Thoracic  
Surgeons

March 29-30, 2019  
Atlanta, GA

## AGENDA

### COURSE DIRECTORS

Husam H. Balkhy, Chicago, IL

Joseph A. Dearani, Rochester, MN

T. Sloane Guy, New York, NY

Douglas A. Murphy, Atlanta, GA

### DAY 1 - FRIDAY, MARCH 29

#### Robotic Mitral Valve Repair & Intracardiac Procedures

**7:00 a.m. – 7:30 a.m.**

#### REGISTRATION / BREAKFAST

7:30 a.m. – 7:40 a.m.

Welcome and Introductions

*T. Sloane Guy, New York, NY, and Joseph A. Dearani, Rochester, MN*

#### Mitral Valve Repair & Intracardiac Procedures

**Moderators:** *Douglas A. Murphy, Atlanta, GA and A. Marc Gillinov, Cleveland, OH*

7:40 a.m. – 7:50 a.m.

Patient Selection and Preoperative Assessment

*A. Marc Gillinov, Cleveland, OH*

7:50 a.m. – 8:00 a.m.

Circulatory Management and Cannulation: Endoballoon and Transthoracic Clamp

*T. Sloane Guy, New York, NY*

8:00 a.m. – 8:10 a.m.

Port Placement and Incision Options

*Clifton T. Lewis, Birmingham, AL*

8:10 a.m. – 8:20 a.m.

Overview of the Robotic Mitral Valve Repair Toolkit

*Joseph A. Dearani, Rochester, MN*

8:20 a.m. – 9:20 a.m.                      Robotic Mitral Repair: Live Step-by-Step Simulation  
*Douglas A. Murphy, Atlanta, GA*

**9:20 a.m. – 9:50 a.m.                      BREAK / EXHIBITS**

9:50 a.m. – 10:00 a.m.                      When to Convert: Avoiding Complications  
*W. Randolph Chitwood Jr., Greenville, NC*

10:00 a.m. – 10:10 a.m.                      Other Intracardiac Procedures  
*Robert L. Smith, Plano, TX*

10:10 a.m. – 10:40 a.m.                      Panel Discussion

**10:40 a.m. – 11:00 a.m.                      TRANSITION TO TRAINING CENTER**

## Training Center Part One

**11:00 a.m. – 1:00 p.m.                      Hands-On Surgeon & Team Training: Mitral Valve Repair & Intracardiac Procedures**  
*All Faculty Members*

**1:00 p.m. – 1:15 p.m.                      TRANSITION TO LUNCH**

**1:15 p.m. – 2:15 p.m.                      LUNCH / KEYNOTE SPEAKER**  
**“The Future of Robotic Surgical Systems”**  
*Thomas P. Low, Menlo Park, CA*  
*Director, Medical Systems and Telerobotics, Robotic Systems, SRI International*

**2:15 p.m. – 2:30 p.m.                      TRANSITION TO TRAINING CENTER**

## Training Center Part Two

**2:30 p.m. – 4:30 p.m.                      Hands-On Surgeon & Team Training: Mitral Valve Repair & Intracardiac Procedures**  
*All Faculty Members*

**4:30 p.m. – 4:45 p.m.                      TRANSITION TO CLASSROOM**

**Basic Building Blocks to Starting a Robotic Cardiac Surgery Program**

**Moderators:** *T. Sloane Guy, New York, NY, and Joseph A. Dearani, Rochester, MN*

4:45 p.m. – 4:55 p.m.                      Overview of Current Evidence for Robotic Cardiac Surgery  
*Vinay Badhwar, Morgantown, WV*

- 4:55 p.m. – 5:05 p.m. Ideal Prerequisites and Options for Surgeon and Team Training  
*Richard J. Shemin, Los Angeles, CA*
- 5:05 p.m. – 5:15 p.m. How to Launch a Robotic Cardiac Surgery Program in Your Hospital  
*Eugene A. Grossi, New York, NY*
- 5:15 p.m. – 5:25 p.m. Why Isn't Everyone Doing Robotic Mitral?  
*Douglas A. Murphy, Atlanta, GA*
- 5:25 p.m. – 5:35 p.m. Basic Procedural Steps for Robotic-Assisted Coronary Artery Bypass  
*Marc R. Katz, Charleston, SC*
- 5:35 p.m. – 6:00 p.m. Panel Discussion
- 6:00 p.m. ADJOURNMENT**

## DAY 2 - SATURDAY, MARCH 30

### Robotic Coronary Artery Bypass

- 7:00 a.m. – 7:30 a.m. BREAKFAST**
- 7:30 a.m. – 7:40 a.m. Welcome and Introductions  
*Husam H. Balkhy, Chicago, IL*
- 7:40 a.m. – 9:30 a.m. Robotic-Assisted Coronary Artery Bypass**  
**Moderators:** *Husam H. Balkhy, Chicago, IL, and Francis P. Sutter, Wynnewood, PA*
- 7:40 a.m. – 7:50 a.m. Robotic-Assisted Coronary Artery Bypass: Who, Why, and How  
*Michael E. Halkos, Atlanta, GA*
- 7:50 a.m. – 8:00 a.m. How to Perform a Robotic Internal Mammary Artery Takedown  
*Bradley S. Taylor, Baltimore, MA*
- 8:00 a.m. – 8:10 a.m. Robotic Minimally Invasive Direct Coronary Artery Bypass (MIDCAB)  
*Francis P. Sutter, Wynnewood, PA*
- 8:10 a.m. – 8:20 a.m. How to Avoid and Get Out of Trouble with Robotic MIDCAB Procedures

*Nirav C. Patel, New York, NY*

8:20 a.m. – 8:30 a.m.

When and How to Convert Robotic Coronary Procedures

*Bob B. Kiaii, London, Canada*

8:30 a.m. – 8:40 a.m.

Avoiding and Managing Complications

*L. Wiley Nifong, Greenville, NC*

8:40 a.m. – 8:50 a.m.

Current Options for Totally Endoscopic Coronary Artery Bypass (TECAB)

*Husam H. Balkhy, Chicago, IL*

8:50 a.m. – 9:00 a.m.

Hybrid Approaches in Robotic Coronary Artery Bypass

*John D. Puskas, New York, NY*

9:00 a.m. – 9:30 a.m.

Panel Discussion

**9:30 a.m. – 10:00 a.m.**

**BREAK / EXHIBITS**

**10:00 a.m. – 11:00 a.m.**

**Robotic Coronary Artery Bypass: Live Step-by-Step Simulation**

*Francis P. Sutter, Wynnewood, PA*

**11:00 a.m. – 11:45 a.m.**

**LUNCH**

**11:45 a.m. – 12:00 p.m.**

**TRANSITION TO TRAINING CENTER**

## **Training Center**

**12:00 p.m. – 4:00 p.m.**

**Hands-On Team Training: Coronary Artery Bypass**

*All Faculty Members*

**4:00 p.m.**

**ADJOURNMENT**