



Houston Methodist and ISMICS are proud to present

7<sup>TH</sup> ANNUAL

# RE-EVOLUTION SUMMIT

*Minimally Invasive Cardiac  
Surgery (MICS): The Ultimate  
Hands-On Summit*

MARCH 3-5, 2016

**Houston Methodist Research Institute**  
6670 Bertner Ave., Houston, TX 77030

Hosted by the DeBakey Institute for Cardiovascular  
Education & Training (DICET)



**The Houston Conference -**  
Enhanced Learning Through  
Perfusion Simulation

[events.houstonmethodist.org/reevolution](http://events.houstonmethodist.org/reevolution)

HOUSTON  
**Methodist**<sup>®</sup>  
DEBAKEY HEART &  
VASCULAR CENTER

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**The Society  
of Thoracic  
Surgeons**



# AGENDA

## THURSDAY, MARCH 3

7 a.m. **Registration and Breakfast**  
7:45 **Welcome and Overview**  
*Mahesh Ramchandani, MD*

### SESSION I: PERFUSION, IMAGING AND TEVAR

*Moderator: Mahesh Ramchandani, MD*

8 **Perfusion, Cannulation and Myocardial Preservation Strategies**  
*Eric R. Skipper, MD*  
8:30 **Question and Answer**  
8:40 **Interventional Imaging—What the Cardiac Surgeon Needs to Know**  
*Alan B. Lumsden, MD*  
9 **TEVAR**  
*Jean Bismuth, MD*  
9:20 **Question and Answer**  
9:40 Break and Exhibits

### SESSION II: MICS AND ROBOTIC CABG

*Moderator: Husam H. Balkhy, MD*

10:10 **TECAB**  
*Husam H. Balkhy, MD*  
10:30 **MICS CABG**  
*Joseph T. McGinn, MD*  
10:50 **Robotic CABG**  
*Francis P. Sutter, MD*  
11:10 **Hybrid**  
*Michael E. Halkos, MD*  
11:30 **Question and Answer**

Noon **LUNCH LECTURE**  
*Brian J. Dunkin, MD*

## FRIDAY, MARCH 4

7 a.m. **Registration and Breakfast**  
7:45 **Welcome and Remarks**  
*Mahesh Ramchandani, MD*

### SESSION I: VALVES

*Moderator: Daniel Bethencourt, MD*

8 **Minithoracotomy MVR**  
*Paul S. Massimiano, MD*  
8:20 **Robotic MVR**  
*Daniel Bethencourt, MD*  
8:40 **Ministernotomy AVR**  
*Gregory P. Fontana, MD*  
9 **Minithoracotomy AVR**  
*Joseph Lamelas, MD*  
9:20 **Question and Answer**  
9:40 Break and Exhibits

### SESSION II: TAVR

*Moderator: Michael J. Reardon, MD*

10:10 **TAVR Overview**  
*Tom C. Nguyen, MD*  
10:30 **TAVR Devices**  
*Gregory P. Fontana, MD*  
10:50 **TAVR vs. SAVR**  
*G. Michael Deeb, MD*  
11:10 **Transcatheter Mitral**  
*Robert F. Hebel Jr., MD*  
11:30 **Question and Answer**

Noon **LUNCH LECTURE**  
*Gregory Fontana, MD, President of ISMICS*

## SESSION III: HANDS-ON WORKSHOPS

**THURSDAY:** MICS CABG, Robotic CABG • TEVAR and Advanced Imaging for Cardiac Surgeons

• Percutaneous Closure and Anastomotic Devices ■ **FRIDAY:** MICS AVR • MICS and Robotic MVR • TAVR

1:15 - 5:15 p.m. ■ MITIE (5<sup>TH</sup> Floor) ■ See pages 4-5 for additional information.

**Thursday Evening** • Houston Livestock Show and Rodeo (bus routes begin at 6 p.m. Visit [events.houstonmethodist.org/reevolution](http://events.houstonmethodist.org/reevolution))

## SATURDAY, MARCH 5 ■ Houston We Have a Problem! Complications and Solutions

*Moderators: Nirav C. Patel, MD, and Joseph Basha, CCP*

8 a.m. - Noon ■ A moderated, interactive discussion between faculty and audience on the following topics:

- CABG – MICS/Robotic
- MVR – MICS/Robotic
- TEVAR
- TAVR
- Perfusion-related\*
- AVR

\*Heart-lung machine simulator will be present for the demonstration of various perfusion complications. There will be a 30 minute break from 10-10:30 a.m. Summit adjourns at noon.

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# RE-EVOLUTION SUMMIT

## PROGRAM DIRECTOR

**Mahesh Ramchandani, MD, FRCS, FACS**



*Chief, Division of Cardiac Surgery  
Houston Methodist*

## PROGRAM CO-DIRECTORS

**Gregory P. Fontana, MD, FACS, FACC**



*President, International Society for Minimally Invasive  
Cardiothoracic Surgery (ISMICS)  
Thoracic and Cardiovascular Surgery,  
St. John's Health Center  
Santa Monica, Ca.*

**Michael J. Reardon, MD**



*Allison Family Distinguished Chair  
of Cardiovascular Research  
Professor of Cardiovascular Surgery  
Houston Methodist  
Weill Cornell Medical College*

## INVITED FACULTY



**Husam H. Balkhy, MD**  
*Associate Professor of Surgery  
Director, Minimally Invasive and  
Robotic Cardiac Surgery  
The University of Chicago  
Medicine & Biological Sciences  
Chicago, Ill.*



**Joseph Basha, CCP**  
*Houston Extracorporeal Therapies  
Alexandria, La.*



**Daniel M. Bethencourt, MD**  
*Cardiac & Thoracic Surgery  
Bethencourt Group  
Long Beach, Calif.*



**Jean Bismuth, MD, FACS**  
*Assistant Professor of  
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**G. Michael Deeb, MD**  
*Herbert Sloan Collegiate  
Professor of Cardiac Surgery  
Director, Multidisciplinary  
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**Michael E. Halkos, MD, MSc**  
*Associate Professor of Surgery  
Emory University School  
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Atlanta, Ga.*



**Robert F. Hebler Jr., MD**  
*Cardiothoracic Surgeon  
Baylor Scott & White Health  
Dallas, Texas*



**Joseph Lamelas, MD**  
*Chief, Thoracic & Cardiovascular  
Mount Sinai Medical Center  
Miami Beach, Fla.*



**Alan B. Lumsden, MD,  
ChB, RVT, FACC**  
*Walter W. Fondren III Distinguished  
Endowed Chair  
Professor of Cardiovascular Surgery  
Chair, Department of  
Cardiovascular Surgery  
Houston Methodist  
Weill Cornell Medical College*



**Michael M. Madani, MD, FACS**  
*Division Chief, Cardiovascular  
and Thoracic Surgery  
Director, Sulpizio Cardiovascular  
Center-Surgery  
Professor of Surgery  
University of San Diego, Calif.  
San Diego, Calif.*



**Paul S. Massimiano, MD**  
*Cardiac and Vascular Surgeon  
Cardiac, Vascular and Thoracic  
Surgery Associates  
Falls Church, Va.*



**Joseph T. McGinn Jr., MD,  
FACC, FACS**  
*Medical Director, Heart Institute  
Staten Island University Hospital  
Staten Island, N.Y.*



**Tom C. Nguyen, MD**  
*Assistant Professor  
Director, Minimally Invasive  
Valve Surgery  
Department of Cardiothoracic  
and Vascular Surgery  
UT Health,  
The University of Texas Health  
Science Center at Houston*



**Nirav C. Patel, MD**  
*Associate Chairman and Director,  
Robotic Cardiac Surgery  
Lenox Hill Hospital  
New York, N.Y.*



**Eric R. Skipper, MD**  
*Cardiovascular Surgery  
Sanger Heart & Vascular  
Institute – Charlotte  
Charlotte, N.C.*



**Francis P. Sutter, DO, FACS**  
*Congenital Cardiac Surgery  
Lankenau Medical Center  
Wynnewood, Pa.*

(All faculty on this page are located in Houston, Texas, unless otherwise noted.)



# HANDS-ON WORKSHOPS FOR THE PHYSICIAN

Hosted by the DeBakey Institute for Cardiovascular Education & Training (DICET)

## LEARN FROM THE EXPERTS

Faculty-guided rotations include performing procedures on cadavers, sophisticated beating heart platforms, and advanced simulators. Attendees will have the opportunity to rotate through the following stations:



### THURSDAY, MARCH 3

HANDS-ON TEVAR WORKSHOP AND MICS CABG

#### SIZING AND DEVICE SELECTION

#### DEVICE IMPLEMENTATION: TOWER AND SIMULATION

#### ADVANCED IMAGING IN THE HYBRID OR

**MICS CABG:** Sternal sparing techniques for LIMA harvest, aortic proximal anastomosis and multivessel bypass

**OFF-PUMP SIMULATOR /ANASTOMOTIC DEVICES:** Practice on simulators and deploy anastomotic devices

**MICS CANNULATION AND INSTRUMENTS:** Learn MICS cannulation strategies and techniques

**ROBOTIC CABG:** Robotic LIMA takedown, "micro" CABG techniques, TECAB with anastomotic devices



### FRIDAY, MARCH 4

VALVE WORKSHOP

**MITRAL VALVE:** Learn MICS mitral exposure and MICS mitral repair

**ROBOTIC MITRAL REPAIR:** Perform robotic valve repair on heart-lung blocks

**AORTIC VALVE:** Learn minithoracotomy and ministernotomy techniques for AVR and ascending aortic surgery

**TRANSCATHETER AVR:** Step-by-step video case demonstration, practice catheter and wire skills on simulators, implant percutaneous valves on simulators, and perform direct aortic access/transapical techniques

**ECHOCARDIOGRAPHY FOR CARDIAC SURGEONS:** TEE simulators



# 2016 PERFUSION TRACK\*\*

Simulation and Didactic-based Perfusion Learning



The Houston Conference for perfusion will run concurrent with Re-Evolution.

Visit [thehoustonconference.com](http://thehoustonconference.com) for more details, or to register as a perfusion attendee.

## THURSDAY, MARCH 3 • DIDACTIC LECTURES

- MICS cannulation strategies
- Cardioplegia in MICS
- Post cardiotomy heart failure support with Impella
- **Lunch Lecture – Telementoring**

## FRIDAY, MARCH 4 • DIDACTIC LECTURES

- ECMO and VAD survival data
- Perfusion opportunities in an expanding mechanical support arena
- How does an administrator view VAD and ECMO therapy?
- **Lunch Lecture – Keynote, President of ISMICS**

## SATURDAY, MARCH 5 • DIDACTIC LECTURE

Joint session with Re-Evolution – Complications (refer to Re-Evolution agenda on page 2 for details)

## HANDS-ON WORKSHOPS

- MARCH 3:** ▪ AngioVac    ▪ ECMO  
**MARCH 4:** ▪ Heart-lung machine



Houston Methodist Institute for Technology, Innovation & Education (MITIE<sup>SM</sup>)

MITIE is an innovative virtual hospital and hands-on clinical training facility for health care professionals seeking to maintain excellent procedural skills and acquire new proficiencies.

All of the Re-Evolution hands-on workshops and perfusion simulation sessions will take place in this state-of-the-art facility.

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THURSDAY, MARCH 3

Evening entertainment will be provided, free to attendees. Details forthcoming. Check the website for updates.

\*\*The Perfusion Track is certified for 23.8 CEUs by the American Board of Cardiovascular Perfusion.



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# RE-EVOLUTION SUMMIT

*Minimally Invasive Cardiac Surgery (MICS): The Ultimate Hands-On Summit*

## PROGRAM OVERVIEW

Cardiac surgery is undergoing a significant paradigm shift toward increasing minimal access surgery within all subspecialty areas of practice. These include interventions for cardiac valve repair, coronary revascularization, ablation of atrial fibrillation, aortic pathology and heart failure. Training in these minimally invasive techniques is important to better serve patients, improve outcomes and maintain a competitive advantage. The goal of this summit is to provide up-to-date evidence-based didactic lectures along with expert-instructed hands-on exposure to the latest in all aspects of minimal access cardiac surgery with an emphasis on hybrid approaches.

## TARGET AUDIENCE

Cardiovascular surgeons, interventional cardiologists, fellows, residents, physician assistants, nurse practitioners, nurses and hospital administrators in the cardiovascular specialties.

## EDUCATIONAL OBJECTIVES

- Distinguish between open cardiac surgical techniques and minimal access cardiac surgical techniques
- Apply some of the latest techniques for cardiac valve repair, coronary revascularization
- Describe the most up-to-date evidence-based information of minimal access cardiac surgery with an emphasis on hybrid approaches

## ACCREDITATION AND CREDIT DESIGNATION STATEMENTS

### Physicians

Houston Methodist is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Houston Methodist designates this live activity for a maximum of 18.5 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### Nurses

Houston Methodist is an approved provider of continuing nursing education by the Texas Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.

Houston Methodist provides up to 18.5 contact hours for this activity. Participants must attend selected sessions in their entirety and complete the corresponding items on the evaluation tool.

## EDUCATIONAL METHODS

Didactic lectures, live cases, heart specimen demonstrations, case studies, small group tutorials with imaging stations, panel discussions, audience response system.

## EVALUATION

Evaluation by questionnaire will address program content, presentation, possible bias and intent to change current practice.

## ADA STATEMENT

In compliance with the Americans with Disabilities Act, Houston Methodist will make reasonable efforts to accommodate persons with disabilities at this symposium. Please call 713.441.4971 for further information, or if you need special assistance.

## CANCELLATION/REFUND POLICY

Requests for registration refunds must be in writing and received by the OCME at least 10 business days before the course begins. The date the request is received by the OCME will be considered the cancellation date. Requests received after the refund deadline will not be processed. Cancellations are subject to a \$50 administrative fee deducted from the registration fee paid to cover guarantees and other expenses. Requests should be mailed to the OCME or faxed to 713.441.0589.

The OCME reserves the right to cancel activities, not less than 10 business days before the scheduled date, if extenuating circumstances make it necessary. Registrants will be notified at the contact number indicated on the registration form followed by written notification. If an activity is cancelled, OCME's liability is limited to the registration fee paid. Note: If payment is made by check, a social security number is required to process the refund.

## DISCLOSURE

This CME activity is designed for use by health care professionals for educational purposes only. Information and opinions offered by the contributors represent their viewpoints. Conclusions drawn by the participant should be derived from careful consideration of all available scientific information. Prescription information and use of medical devices should be undertaken only after confirmation of information by consulting the FDA-approved uses and information.

Houston Methodist makes every effort to have accurate information presented; no warranty, expressed or implied, is offered. The participant should use his/her clinical judgment, knowledge, experience and diagnostic decision-making before applying any information, whether provided here or by others, for any professional use.

## SUMMIT LOCATION

Houston Methodist Research Institute  
6670 Bertner Ave. ▪ Houston, TX 77030

## SUMMIT ATTIRE

Western attire or business casual dress is encouraged.

## FOR FURTHER INFORMATION

Office of Continuing Medical Education  
6670 Bertner Ave. R2-216 ▪ Houston, TX 77030  
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Visit our website at [houstonmethodist.org/cme](http://houstonmethodist.org/cme) for information about other Houston Methodist CME activities.