E. Stanley Crawford, M.D.  Dr. Ernest Stanley Crawford graduated from Harvard Medical School in 1946. He served as a lieutenant at the U.S. Naval Hospital in Portsmouth, New Hampshire. Crawford joined Dr. M. Ulissi after thirty-eight years. He served as a Professor of Surgery and innovated surgical techniques treating complex aortic diseases. Dr. Crawford was a true pioneer in medical science and trained future generations of surgeons and treat patients today.

Thursday, May 7, 2015
6:30 - 8:30 PM  Welcome Reception  (non-CME)

Friday, May 8, 2015
6:45 AM  Registration/Continental Breakfast
7:50  CME Announcements
7:55  Welcome, Announcements, and Introduction  Joseph S. Coselli, M.D. / David J. Sugarbaker, M.D.

Aortic Session I - Joseph S. Coselli, M.D., Moderator
8:05 - 8:23  The Surgical Pathology of the Aortic Wall  John A. Elefteriades, M.D.
8:24 - 8:42  Evolution of Adjuncts for Spinal Cord Protection  Charles W. Acher, M.D.
8:43 - 9:01  Bicuspid Aortic Valves and the Aortic Root: What Are Our Options  Joseph E. Bavaria, M.D.
9:02 - 9:20  Valve-sparing Aortic Root Replacement in Young Patients with Connective Tissue Disorders  Luca A. Vricella, M.D.
9:21 - 9:39  Reoperations on the Aortic Root  Gösta B. Pettersson, M.D., Ph.D.
9:40 - 10:05  Break and Visit Exhibits

Aortic Session II - Matthew J. Wall, Jr., M.D., Moderator
10:10 - 10:28  Molecular Mechanisms of Brain Injury During Hypothermic Circulatory Arrest  William A. Baumgartner, M.D.
10:29 - 10:47  Debranching the Aortic Arch: Tips and Pitfalls  Martin Grabenwöger, M.D.
10:48 - 11:06  Protecting the Brain: Retrograde Perfusion  Anthony L. Estrera, M.D.
11:07 - 11:20  Protecting the Brain: Antegrade Perfusion  Ourania A. Preventza, M.D.
11:21 - 11:24  Introduction of Keynote Speaker  Joseph S. Coselli, M.D.
11:25 - 12:05 PM  KEYNOTE ADDRESS  Edward B. Diethrich, M.D.
12:06 - 12:09  Morning Wrap-up  Joseph S. Coselli, M.D.
12:15 - 1:15  Luncheon

Aortic Endografts: History, Current Status and Future Development  Frank J. Criado, M.D.

Aortic Session III - Scott A. LeMaire, M.D., Moderator
1:30 - 1:48  Ruptured DTA and TAAA  Leonard N. Girardi, M.D.
1:49 - 2:07  Approaches for Aortic Coarctation  James J. Livesay, M.D.
2:08 - 2:26  Significance of the False Lumen Following Proximal Aortic Dissection  Steven L. Lansman, M.D., Ph.D.
2:27 - 2:45  Hypothermia for TAAA  Nicholas T. Kouchoukos, M.D.
2:46 - 3:04  Organ Protection in TAAA  Joseph S. Coselli, M.D.
3:05 - 3:30  Break and Visit Exhibits

CONCURRENT SESSION BREAKOUT - Legends I, II, III

General Thoracic Session I - Shawn S. Groth, M.D., Moderator
1:30 - 1:48  Pleurectomy/EPP with Heated Intraoperative Chemotherapy for Malignant Pleural Mesothelioma  David J. Sugarbaker, M.D.
1:49 - 2:07  Preoperative Evaluation for Patients Undergoing Lung Resection  Bryan M. Burt, M.D.
2:08 - 2:26  Building a Cardiothoracic Surgery Robotics Program  Inderpal S. Sarkaria, M.D.
2:27 - 2:45  Who Is a Candidate for Resection of Stage IIIa NSCLC?  Stephen G. Swisher, M.D.
2:46 - 3:04  Robotic Pulmonary Resections  Inderpal S. Sarkaria, M.D.
3:05 - 3:30  Break and Visit Exhibits

Aortic Session IV - Kim de la Cruz, M.D., Moderator
3:35 - 3:53  Challenges of the Aortic Root and Aortic Dissection  Allan S. Stewart, M.D.
3:54 - 4:12  Moderate or Deep Hypothermia for Acute Dissection?  Edward P. Chen, M.D.
4:13 - 4:31  Endovascular Repair for Type B Dissection: Acute and Chronic  G. Chad Hughes, M.D.
4:32 - 4:50  Endovascular Therapy for Thoracic Aortic Aneurysms  Eric E. Roselli, M.D.
4:45 - 5:00  Wrap-up and Adjourn
**Weekend, May 9, 2015**

6:45 AM  Registration/Continental Breakfast

7:55  Welcome and Announcements
Joseph S. Coselli, M.D. / David J. Sugarbaker, M.D.

**Aortic Session IV - David J. Sugarbaker, M.D., Moderator**

8:05 - 8:23  TAAA: Strategies for Spinal Cord Protection
Michael J. Jacobs, M.D., Ph.D.

8:24 - 8:42  Endovascular Approaches to Aortic Dissection Repair
Grayson H. Wheatley III, M.D.

8:43 - 9:01  Evolution of the Technical Aspects of Arch Replacement
David Spielvogel, M.D.

9:02 - 9:20  A Roadmap to Personalize the Management of Heritable Thoracic Aortic Diseases
Diana Milewicz, M.D., Ph.D.

9:21 - 9:39  Critical Assessment of Valve-Sparing and Other Root Procedures
D. Craig Miller, M.D.

9:40 - 10:05  Break and Visit Exhibits

**Structural Heart Session I - Faisal G. Bakaeen, M.D., Moderator**

10:10 - 10:28  Mitral Valve Reoperations: The Mount Sinai Experience
Ani C. Anyanwu, M.D.

10:29 - 10:47  Sutureless Valves: Ready for Prime Time?
W. Randolph Chitwood, M.D.

10:48 - 11:06  Transcatheter Strategies for Mitral Valve Disease
Hersh S. Maniar, M.D.

11:07 - 11:20  Minimally Invasive Approaches to Mitral Valve Repair
Todd K. Rosengart, M.D.

11:21 - 11:24  Introduction of E. Stanley Crawford Lecturer
Joseph S. Coselli, M.D.

11:25 - 12:05 PM  Sixth E. Stanley Crawford Lectureship
Lars G. Svensson, M.D., Ph.D.

12:06 - 12:09  Morning Wrap-up
Joseph S. Coselli, M.D.

12:15 - 1:15  Luncheon

**How Awareness Can Save Lives: The Origin of Ritter Rules**
Amy Yasbeck

How graduated Phi Beta Kappa from the University of Alabama in 1943 and Alpha started an internship at Massachusetts General Hospital in Boston, then served New Hampshire from 1947-1949. Following completion of his residency at Michael E. DeBakey at Baylor College of Medicine in Houston where he spent the from July 1966 until his death in 1992 and became internationally known for his cases, particularly Marfan syndrome and aortic dissection. He authored more than authored a textbook, Diseases of the Aorta, with his son Dr. John Lloyd rapid Autologous Transfusion System. This machine recycles a patient’s washed blood and blood products needed during complex aortic aneurysm and other. The innovations he made in surgery and research continue to be used to His legacy will always live on.

Online registration is available at cme.texasheart.org
Conference Faculty

Charles W. Acher, M.D.
University of Wisconsin
Madison, WI

Ani C. Anyanwu, M.Sc., M.D.
Mount Sinai Hospital
New York, NY

Faisal G. Bakaeen, M.D.
Baylor College of Medicine
Houston, TX

William A. Baumgartner, M.D.
Johns Hopkins University and Hospital
Baltimore, MD

Joseph E. Bavaria, M.D.
Hospital of the University of Pennsylvania
Philadelphia, PA

Bryan M. Burt, M.D.
Baylor College of Medicine
Houston, TX

Edward P. Chen, M.D.
Emory University
Atlanta, GA

W. Randolph Chitwood, Jr., M.D.
East Carolina University
Greenville, NC

William E. Cohn, M.D.
Baylor College of Medicine/ Texas Heart Institute
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Frank J. Criado, M.D.
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Arizona Heart Foundation
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Houston, TX

David A. Fullerton, M.D.
University of Colorado Denver
Aurora, CO

Leonard N. Girardi, M.D.
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New York, NY

Martin Grabenwöger, M.D.
University of Vienna
Vienna, Austria

Shawn S. Groth, M.D.
Baylor College of Medicine
Houston, TX

Wayne Hofstetter, M.D.
MD Anderson Cancer Center
Houston, TX

G. Chad Hughes, M.D.
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Durham, NC

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Maastricht, The Netherlands

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Charlottesville, VA

Nicholas T. Kouchokos, M.D.
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Westchester Medical Center
Valhalla, NY

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Texas Heart Institute
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University of Texas Medical School
at Houston
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Stanford University
Stanford, CA

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The Cleveland Clinic
Cleveland, OH

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Houston, TX

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The Methodist DeBakey Heart Center
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The Cleveland Clinic
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Todd K. Rosengart, M.D.
Baylor College of Medicine
Houston, TX

Eric L. Sarin, M.D.
Emory University School of Medicine
Atlanta, GA

Inderpal S. Sarkaria, M.D.
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Pittsburgh, PA

David Spielvogel, M.D.
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Valhalla, NY

Allan S. Stewart, M.D.
Mount Sinai Hospital
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David J. Sugarbaker, M.D.
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Peter I. Tsai, M.D.
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Houston, TX

Stephen G. Swisher, M.D.
MD Anderson Cancer Center
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Luca A. Vricella, M.D.
Johns Hopkins University and Hospital
Baltimore, MD

Matthew J. Wall, Jr, M.D.
Baylor College of Medicine
Houston, TX

Garrett L. Walsh, M.D.
MD Anderson Cancer Center
Houston, TX

Grayson H. Wheatley III, M.D.
Temple University School of Medicine
Philadelphia, PA

Amy Yasbeck
The John Ritter Foundation
Los Angeles, CA

Edward B. Diethrich, M.D. is regarded as one of the world’s pioneers in guiding the evolution of modern diagnostics and treatment of cardiovascular disease. He was founder of the Arizona Heart Institute (AHI), the nation’s first freestanding outpatient clinic devoted solely to the prevention, detection, and treatment of heart and blood vessel diseases, and is the current Medical Director of the non-profit Arizona Heart Foundation. Dr. Diethrich has written more than 400 scientific papers, several textbooks, and a myriad of lay publications, in addition to producing hundreds of videos and films. He has trained more than a thousand surgeons and other specialists in cardiovascular surgery and endovascular interventions. A University of Michigan alumnus (BA, 1956; MD, 1960), Dr. Diethrich trained at St. Joseph’s Mercy Hospital in Ann Arbor and the Henry Ford Hospital in Detroit before coming to Baylor College of Medicine for his cardiothoracic training under Dr. Michael E. DeBakey, and continued on as a member of the academic staff following his residency.

Lars G. Svensson, M.D., Ph.D. is Chairman of the Sydell and Arnold Miller Family Heart & Vascular Institute, Director of the Aorta Center and Marfan Syndrome and Connective Tissue Disorder Clinic, Director of Quality and Process Improvement, and a staff cardiovascular surgeon in the Department of Thoracic and Cardiovascular Surgery at Cleveland Clinic. He is also a professor of surgery at Cleveland Clinic Lerner College of Medicine and Case Western Reserve University. He was born in Barberton, South Africa, completed undergraduate work at Treveerton College in Mooi River, South Africa and earned his medical degree and Ph.D. in blood flow pathophysiology from the University of Witwatersrand in Johannesburg, where he received numerous fellowships and awards. Dr. Svensson is also a Baylor alumnus, having done both a cardiothoracic fellowship and a residency here in Houston, with Dr. E. Stanley Crawford and Dr. Michael E. DeBakey, and subsequently began his career at Baylor College of Medicine.
Needs and Goals  Cardiothoracic surgery, including aortic, cardiac and general thoracic surgery, is continuously changing and developing, with new understandings of pathology evolving into new modalities for treatment and innovative treatment approaches. Thus there is an imperative need for both surgeons and surgical team members dealing with cardiothoracic diseases to be updated on an ongoing basis on the etiology, functional abnormalities, disease processes, and both state-of-the-art open and endovascular therapies in a broad range of areas. These include procedures and methods to treat diseases of the aorta, heart, lungs, esophagus, and transplantation of the heart as well as the use of ventricular assist devices.

Objectives  At the conclusion of the activity the participant should be able to:

- Identify the current surgical trends, techniques and treatments for aortic, cardiac and general thoracic diseases as well as the associated risk factors
- Outline treatments for the aortic root in persons with connective tissue disorders
- State techniques and challenges for debranching and replacing the aortic arch
- Discuss both open and endovascular approaches for the treatment of aortic aneurysms and dissection
- Describe the mechanisms of brain injury during hypothermic circulatory arrest
- State the appropriate use of antegrade and retrograde perfusion in cerebral protection
- Outline the use of hypothermia and other organ protective techniques for treating thoracoabdominal aortic aneurysms
- Identify surgical approaches for aortic coarctation
- Explain ways to personalize the management of heritable thoracic aortic diseases
- Describe the use of TAVR in multi-valve disease
- Outline alternative access and LV access for TAVR
- Identify transcatheter and other minimally invasive strategies for Mitral valve disease
- Discuss the use of sutureless valves in cardiac surgery
- Describe the latest progress in the development of a complete replacement for the human heart
- Identify the latest techniques and approaches for heart transplantation in adults
- Update the surgical options for the treatment of heart failure in children
- Outline the current use of pleurectomy/EPP with heated chemotherapy for malignant pleural mesothelioma
- Describe the building of a cardiothoracic surgery robotics program and the current status of robotic pulmonary resections
- Discuss the surgical management of Achalasia
- Identify appropriate treatments for early-stage esophageal cancer as well as challenging reconstructive and conduit options

Target Audience  Cardiothoracic (Aortic, Cardiac, General Thoracic) Surgeons; Vascular Surgeons, Residents, Fellows, Physician Assistants, Nurse Practitioners, Nurses, and Perfusionists

Educational Methods  Lectures ■ Case Presentations ■ Question and Answer Sessions ■ Audio-Visual Presentations ■ Syllabus

Evaluation  Evaluation by questionnaire will address program content, presentation, and possible bias.
Accreditation  Texas Heart Institute is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Credit Designation  Texas Heart Institute designates this live activity for a maximum of 15.0 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

If you are a non-U.S. licensed physician, you will be eligible to receive AMA PRA Category 1 Credit(s)™ for this activity.

An evaluation survey will provide each participant with the opportunity to review the speakers and their presentations, to identify educational needs, and to comment on any perceived commercial or promotional bias in the presentation.

Nursing Accreditation/Credit Designation  For the purposes of recertification, the American Nurses Credentialing Center accepts AMA PRA Category 1 Credit(s)™ issued by organizations accredited by the ACCME.

Perfusion Credit Designation  The American Board of Cardiovascular Perfusion designates this continuing education activity for a maximum of 15.76 category 1 CEU’s.

Fee, Registration & Confirmation Information  Breakfasts, breaks, luncheons, and a conference syllabus are included in the registration fee. Refer to the registration form for the fee schedule. Your registration will not be processed until payment is received. Your registration will be confirmed. If you have not received confirmation at least 5 business days before the activity start date, contact the Office of Continuing Medical Education (OCME) immediately.

The OCME reserves the right to limit the number of participants in an activity and will not be responsible for any expenses incurred by an individual whose registration is not confirmed and for whom space is not available.

To register online and pay with your credit card, visit us at cme.texasheart.org and click on the REGISTER button for this activity.

Refund & Activity Cancellation Policy  The Office of Continuing Medical Education (OCME) must receive written notification of a refund request postmarked no later than April 24, 2015. A $75.00 processing fee will be deducted from the registration fee paid to cover our processing charges. Late requests will not be processed and no refunds will be given for those who are registered but do not attend. Texas Heart Institute reserves the right to cancel the symposium if enrollment is deemed insufficient. Each registrant will be notified at the contact number indicated on the registration form followed by e-mail notification. In the case of activity cancellation, OCME’s liability is limited to the registration fee paid. Refunds will be made by original method of payment.

Conference Location/Accommodations  Royal Sonesta Houston
2222 West Loop South, Houston, TX 77027
Reservations:  800.766.3782
Direct:  713.627.7600
Fax:  713.961.3327
From outside of the USA: +1 506-637-1778

Accommodations should be arranged directly with the Royal Sonesta Houston prior to April 21, 2015 at 5:00 pm (CST). Reservations made after that date are subject to availability. Please identify yourself with the Texas Heart Institute Current Trends in Aortic, Cardiac and General Thoracic Surgery Conference (“Current Trends”) when making reservations in order to benefit from the special group rate ($159.00 single/double).

For Further Information Contact  Texas Heart Institute
Office of Continuing Medical Education, MC3-276
P.O. Box 20345
Houston, TX 77225-0345
Phone:  713.218.2200
Fax:  713.218.2229
Email: cme@texasheart.org

In order to meet the requirements of the Accreditation Council for Continuing Medical Education (ACCME), it is the policy of Texas Heart Institute that all individuals who are in a position to control the content of a CME activity (activity director(s), planning committee members, and course faculty) disclose relevant financial relationships with commercial interests. All identified conflicts of interest are managed to help ensure that the educational material is scientifically based, accurate, current, and objectively presented. Specific disclosure will be made to the participants prior to the educational activity. Faculty, topics, program schedule, and credit are subject to change.

Audio taping or videotaping is prohibited without written permission from the Activity Director(s) and the Office of Continuing Medical Education, Texas Heart Institute, Houston, Texas.
## Registration Form

### 10TH CURRENT TRENDS IN AORTIC, CARDIAC, AND GENERAL THORACIC SURGERY

**May 8-9, 2015** ▪ Royal Sonesta Houston ▪ Houston, Texas

<table>
<thead>
<tr>
<th>Registration Information</th>
<th>On or before April 19, 2015</th>
<th>As of April 20, 2015†</th>
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<tr>
<td>Physicians</td>
<td>$425</td>
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<td>Nurses/Nurse Practitioners/Physician Assistants/Perfusionists</td>
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<td>Medical Students*</td>
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<td>$125</td>
</tr>
</tbody>
</table>

*Verification required. Fax valid institutional ID within 24 hours of registration to 713.218.2229

†Online registration will be available through Sunday, May 3, 2015; after that date you must fax your registration to 713.218.2229, or On-site registration will be open beginning May 8th at 6:45am.

Last Name ___________________________________________ First Name __________________________ Middle Initial ______

Mailing Address ____________________________________________________________

City __________________________ ST/Province __________ Postal Code __________ Country __________

Phone __________ Fax __________ E-mail __________________________

Institution/Affiliation __________________________________________________________

☐ MD  ☐ DO  ☐ PhD  ☐ Resident or fellow-in-training with letter of introduction

Allied Health Professional  ☐ RN  ☐ NP  ☐ PA  ☐ CCP  ☐ Other________________________________________

☐ Please check if you have a disability and may need special accommodations. A staff member will contact you.

### Payment Options

All fees should be in US dollars, drawn on a US bank, and made payable to Texas Heart Institute.

Check enclosed for $____________ or charge my ☐ Visa  ☐ MC  ☐ AMEX  ☐ DiscoverCard

Name (as it appears on card) ______________________________________________

Card Number ________________________ Exp. Date __________ CID __________

Signature __________________________________________

**Return completed registration form and payment to:**

Texas Heart Institute
Office of Continuing Medical Education, MC3-276
P.O. Box 20345
Houston, TX 77225-0345
Phone: 713.218.2200
Fax: 713.218.2229
Email: cme@texasheart.org

Online registration is available at cme.texasheart.org
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