



**April 12 - 14, 2018**

**The Four Seasons Hotel  
St. Louis, Missouri**

**PERCUTANEOUS CARDIAC  
AND PERIPHERAL VASCULAR  
THERAPEUTICS 2018**



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**Howard I. Kurz, MD, FACC, FSCAI**

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**Jasvinder Singh, MD, FACC, FSCAI**  
*Associate Professor of Medicine  
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**Howard I. Kurz, MD, MSE, FACC, FSCAI**  
*Professor of Medicine  
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St. Louis, Missouri*

**John M. Lasala, MD, PhD, FACC, FSCAI**  
*Professor of Medicine  
Director, Structural Heart Disease Program  
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**PERIPHERAL DIRECTORS**

**George S. Chrysant, MD, FACC, FSCAI**  
*Chief Scientific Officer  
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**Craig M. Walker, MD, FACC, FSCAI**  
*Medical Director  
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**Amit P. Amin, MD, MSc**  
*Assistant Professor of Medicine*

**Richard G. Bach, MD, FACC, FAHA, FSCAI**  
*Professor of Medicine  
Medical Director, Cardiac Intensive Care Unit*

**David T. Balzer, MD, FSCAI**  
*Division of Pediatric Cardiology*

**Alan Braverman, MD, FACC**  
*Professor of Medicine  
Director, Marfan Syndrome Clinic  
Director, Inpatient Cardiology*

**Matthew Chung, MD**  
*Interventional Fellow*

**Marci Damiano, RN, MSN**  
*Clinical Nurse Coordinator*

**Ralph J. Damiano, Jr., MD**  
*Chief, Division of Cardiothoracic Surgery*

**Brandi Dennis, RN**

**Marye J. Gleva, MD, FACC, FHRS**  
*Professor of Medicine, Internal Medicine  
Electrophysiology*

**Akinobu Itoh, MD, PhD**  
*Surgical Director, Heart Transplant and  
Ventricular Assist Device Program*

**Puja Kachroo, MD**  
*Assistant Professor of Surgery*

**Hersh S. Maniar, MD**  
*Associate Professor, Surgery and Medicine*

**Mahammad Faraz Masood, MD**  
*Assistant Professor, Surgery*

**Rob Massey, RN**

**Spencer J. Melby, MD**  
*Assistant Professor of Surgery*

**Amit Noheria, MBBS, SM**  
*Assistant Professor of Medicine*

**Hannah E. Pope, PharmD, BCPS**  
*Cardiac Intensive Care Unit  
Clinical Pharmacist*

**J. Trevor Posenau, MD**  
*Interventional Fellow*

**Nishath Quader, MD**  
*Assistant Professor of Medicine*

**Brandon Rahn**  
*Program Manager,  
Quality Performance & Improvement*

**Luis A. Sanchez, MD, FACS**  
*Chief of Vascular Surgery*

**Kathleen Schlafly, RN**

**Marc A. Sintek, MD**  
*Assistant Professor of Medicine*

**Nishtha Sodhi, MD**  
*Fellow, Structural Cardiology*

**Trinna Smith, CPC**  
*Supervisor of Insurance,  
Billing and Collections*

**Alan Zajarias, MD, FACC**  
*Associate Professor of Medicine  
Associate Director,  
Interventional Cardiology  
Director, Structural Heart Disease  
Fellowship Program*



# Invited Faculty

**S. Hinan Ahmed, MD, FACC, FSCAI**  
UT Health Science Center  
San Antonio, Texas

**William B. Bachinsky, MD**  
PinnacleHealth CardioVascular  
Harrisburg, Pennsylvania

**Alok Bachuwar, MD, FACC, FSCAI**  
SSM Health Dean Medical Group  
Madison, Wisconsin

**Sudeshna Banerjee, MD, FACC**  
Sacred Heart Medical Center  
Oregon Heart & Vascular Institute  
Springfield, Oregon

**Michael A. Brown, MD**  
Missouri Heart Center  
Columbia, Missouri

**Paramjit Chopra, MD**  
Midwest Institute for  
Minimally Invasive Therapies  
Rush University  
Melrose Park, Illinois

**Edward Coverstone, MD**  
St. Anthony's Heart Specialty Associates  
St. Louis, Missouri

**David A. Cox, MD, FACC, MSCAI**  
Society for Cardiovascular  
Angiography and Intervention  
Washington, DC

**Chaitanya K. Dahagam, MD**  
IBM Watson Health  
Washington, DC

**George Dangas, MD, PhD**  
The Mount Sinai Hospital  
New York, New York

**Harold L. Dauerman, MD**  
University of Vermont College of Medicine  
Burlington, Vermont

**Tony J. DeMartini, MD**  
Advocate Medical Group  
Downers Grove, Illinois

**Stilianos Efstratiadis, MD, FACC, FSCAI**  
Quincy Medical Group  
Blessing Hospital  
Quincy, Illinois

**Tim A. Fischell, MD**  
Borgess Heart Institute  
Kalamazoo, Michigan

**Corey G. Foster, MD**  
Imperial Health - Cardiovascular Specialists  
Lake Charles, Louisiana

**James A. Goldstein, MD, FACC, FSCAI**  
Beaumont Health System  
Royal Oak, Michigan

**Mark J. Goodwin, MD**  
Edward Elmhurst Health Cardiac  
Innovations & Structural Heart Center  
Advocate Medical Group  
Naperville, Illinois

**Steve Henao, MD, FACC, FACS**  
New Mexico Heart Institute  
Albuquerque, New Mexico

**Stuart T. Higano, MD**  
Heart LifeLine Alliance  
Missouri Baptist Medical Center  
Wildwood, Missouri

**Ethan C. Korngold, MD, FSCAI**  
Providence St Vincent Heart Clinic  
Portland, Oregon

**Prakash Krishnan, MD, FSCAI**  
The Mount Sinai Hospital  
New York, New York

**Jeffrey Larson**  
Larson Financial Group  
St. Louis, Missouri

**Paul M. Lavigne, MD**  
Sentara Cardiology Specialists  
Norfolk, Virginia

**Michael J. Lim, MD, FACC, FSCAI**  
St. Louis University Hospital  
St. Louis, Missouri

**C. Huie Lin, MD, PhD, FACC, FSCAI**  
Houston Methodist DeBakey  
Heart & Vascular Center  
Houston, Texas

**Yves R. Louvard, MD, FSCAI**  
Institut Cardiovasculaire Paris Sud (ICPS)  
Massy, France

**Brijeshwar S. Maini, MD, FACC**  
Charles E. Schmidt College of Medicine  
Florida Atlantic University  
Tenet Healthcare Corporation - Florida Region  
Delray Beach, Florida

**S. Jay Mathews, MD, MS, FACC**  
Bradenton Cardiology Center  
Manatee Memorial Hospital  
Bradenton, Florida

**Roxana Mehran, MD**  
Icahn School of Medicine at Mount Sinai  
New York, New York

**Adrian W. Messerli, MD, FACC, FSCAI**  
UK Healthcare  
Lexington, Kentucky

**Neville F. Mistry, MD**  
Sentara Cardiology  
Norfolk, Virginia

**Sukhjinder S. Nijjer, MD, PhD, MRCP**  
Imperial College London  
London, England

**Sahil A. Parikh, MD, FACC, FSCAI**  
Columbia University Medical Center  
New York, New York

**Arthur B. Reitman, MD, FACC**  
WellStar Health System  
Atlanta, Georgia

**Michael J. Rinaldi, MD, FACC, FSCAI**  
Sanger Heart & Vascular Institute  
Carolinas Healthcare System  
Charlotte, North Carolina

**David G. Rizik, MD, FACC, FSCAI**  
HonorHealth Heart Group  
Scottsdale, Arizona

**Sayan Sen, MD**  
National Heart & Lung Institute  
Hammersmith Hospital &  
Imperial College London  
London, England

**Robert L. Shapiro, MD, FACC**  
Mary Greeley Medical Center  
PMG Research of McFarland Clinic  
Ames, Iowa

**Samin K. Sharma, MD, FACC, FSCAI**  
The Mount Sinai Hospital  
New York, New York

**Chuck Simonton, MD**  
Abbott Vascular  
Santa Clara, California

**Anthony J. Spaedy, MD, FACC**  
Missouri Heart Center  
Columbia, Missouri

**Jeffrey M. Sparling, MD, FACC, FSCAI**  
INTEGRIS Heart Hospital  
Oklahoma City, Oklahoma

**Anish J. Thomas, MD, FACC, FSCAI**  
SSM Heart and Vascular  
St. Louis, Missouri

**Thomas Tu, MD, FSCAI**  
Louisville Cardiology Group  
Louisville, Kentucky

**Andres F. Vasquez, MD**  
Orion Medical Cardiology  
Bayshore Medical Center  
Pasadena, Texas

**Jason R. Wollmuth, MD**  
Providence Heart and Vascular Institute  
Portland, Oregon

**Steven J. Yakubov, MD, FACC, FSCAI**  
OhioHealth Research Institute  
Riverside Methodist Hospital  
Columbus, Ohio

**Michael Yeung, MD**  
UNC at Chapel Hill  
Chapel Hill, North Carolina

# Symposium Information

## SYMPOSIUM OVERVIEW

The Advanced Revascularization-Chapter XI (ARCH) Symposium held in St. Louis is the nation's premier interventional cardiology course specifically designed for the busy practicing physician and trainees. It focuses on evidence-based data, newer technological advances, case-based discussions, tips and tricks in complex cases, and innovative therapeutic strategies that will enable physicians to treat their patients with high-risk and complex coronary, peripheral vascular and structural anatomy. Attendees will learn from experts on the use of novel techniques and interventional tools, new CTO techniques, hemodynamic support during high-risk PCI and decompensated heart failure, coronary interventions and novel intravascular coronary anatomy / physiology techniques. In addition, use of newer adjunctive imaging modalities to optimize coronary / peripheral vascular outcomes will be presented. Percutaneous approaches to valvular and structural heart disease has evolved recently. Attendees will see live cases and participate in didactic sessions interacting with the top experts in the field.

Participants will observe live cases broadcast from both US and International sites and hear from world-renowned Faculty who will present their latest research data and share their expertise and experience. There will be a strong emphasis on participant-faculty interactions, where attendees will learn the latest advances in interventional cardiology.

## OBJECTIVES

The objectives of the **2018 ARCH Symposium** are presentations and discussions of current knowledge and practice of cardiac and peripheral percutaneous therapy. The intended result of this activity is increased knowledge, competence, performance and skill and enhanced patient care.

**At the end of this CME activity participants should be able to:**

- Discuss interventional approaches to end stage heart failure patients.
- Discuss interventional dilemmas / controversial cases of the day: instructive, unique and interesting cases by faculty members concentrating on procedural strategy and solutions to complications.
- Evaluate the development of new technology-imaging modalities, IVUS, OCT, MRA and CT angiography.
- Interpret the pivotal coronary disease management trials of the past year and how they can be applied to bedside patient management in 2017.
- Understand practical techniques relating to highly stenosed lesions and the use of percutaneous left ventricular assist devices (LVAD).
- Differentiate the distinction between the specific clinical features of appropriate use criteria and the evidence-based summaries on which PCI guidelines are developed.
- Discuss the indications, benefits and relative risk of radial artery based coronary interventions.
- Identify the role of adjunctive imaging and physiology for diagnosis and management of complex cardiovascular disease.
- Discuss strategies in improving quality and cost reduction in the modern cath lab.
- Define technically difficult & high-risk subsets.
- Discuss the relative role of trans-catheter and surgical therapies for advanced structural heart disease, both valvular and non-valvular and atrial fibrillation.
- Appraise serious complications - how to avoid them, how to treat them.
- Understanding the risks of radiation and ways to minimize exposure.



## TARGET AUDIENCE

This course has been designed to meet the educational needs of Interventional and General Cardiologists, Internists, Cardiothoracic Surgeons, General Surgeons, Primary Care Physicians, and Neurologists plus Nurses, Nurse Practitioners and Ancillary staff.

## ACCREDITATION

### General Session



## PHYSICIAN CONTINUING EDUCATION

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of *CMEsolutions* and Gaffney Events. The *CMEsolutions* is accredited by the ACCME to provide continuing medical education for physicians.

The *CMEsolutions* designates this live conference for a maximum of 17.15 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## CONTINUING EDUCATION FOR OTHER HEALTHCARE PROVIDERS

The American Nurse Credentialing Center (ANCC), American Academy of Nurse Practitioners (AANP) and American Academy of Physician Assistants (AAPA) accepts certificates of attendance for educational activities certified for *AMA PRA Category 1 Credit(s)*<sup>™</sup> from organizations accredited by the ACCME.

### Fellows / Allied Health Course | April 12th, 7:30 am – 12:00 pm

## NURSING CONTINUING EDUCATION

This activity has been submitted to the Western Multi-State Division for approval to award contact hours. The Western Multi-State Division is accredited as an approver of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation.

## AMERICAN SOCIETY OF RADIOLOGIC TECHNOLOGISTS

Category A/A+ CE credit is pending approval by the ASRT.

## Disclosure of Conflicts of Interest

CMEsolutions requires everyone in a position to control the content of this activity to disclose any real or apparent conflict of interest they may have as related to the content of this activity. All identified conflicts of interest are thoroughly vetted by CMEsolutions for fair balance, scientific objectivity of studies mentioned in the materials or used as the basis for content, and appropriateness of patient care recommendations.

## Instructions to Receive Credit

To receive credit, participants must attend credit designated sessions, and must submit a completed evaluation and application for credit at the conclusion of the Advanced Revascularization – Chapter XI (ARCH).

# FELLOWS / ALLIED HEALTH PROFESSIONALS SYMPOSIUM

THURSDAY, APRIL 12, 2018

6:30 am – 1:05 pm | Four Seasons Hotel St. Louis

## DIRECTORS

**George S. Chrysant, MD, FACC, FSCAI**  
*Chief Scientific Officer*  
*INTEGRIS Heart Hospital*  
*Oklahoma City, Oklahoma*

**Marci Damiano, RN, MSN**  
*Clinical Nurse Coordinator*  
*Washington University*  
*School of Medicine*  
*St. Louis, Missouri*



## COURSE OVERVIEW

The Fellows/Allied Health Professionals Symposium has been designed to provide conference attendees with an update in the evaluation and management of several chronic diseases treated by healthcare providers in the outpatient setting. Physicians in practice need education about these new developments, new drugs and how to use them to better treat chronic diseases and their complications, and to do so in a safe and high quality manner. Further, as the healthcare system evolves, healthcare providers need to better understand the context in which they are practicing.

## TARGET AUDIENCE

The 2018 Fellows/Allied Health Professionals Symposium has been designed to meet the educational needs of Internists, Family Practitioners, Nurse Practitioners, Physician Assistants, Clinical Pharmacists, Medical Students, Residents, and Fellows.

## NURSING CONTINUING EDUCATION

This activity has been submitted to the Western Multi-State Division for approval to award contact hours. The Western Multi-State Division is accredited as an approver of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation.

## AMERICAN SOCIETY OF RADIOLOGIC TECHNOLOGISTS

Category A/A+ CE credit is pending approval by the ASRT.

## INSTRUCTIONS TO RECEIVE CREDIT

At the conclusion of the symposium, go to the conference website at [www.ARCHSymposium.com](http://www.ARCHSymposium.com) and click on the CME/CE tab and click on the link to complete the survey. Once the survey has been completed, your certificate will be emailed to you.



## **AGENDA**

**6:30 am**      **REGISTRATION / CONTINENTAL BREAKFAST**  
Foyer of Ballroom C, 6th Floor

**7:30 am**      **WELCOME AND INTRODUCTION**  
Ballroom A/B, 6th Floor  
*George S. Chrysant, MD*  
& *Marci Damiano, RN, MSN*

### **SESSION I**

**Moderators:** *Michael A. Brown, MD, Howard I. Kurz, MD, Adrian W. Messerli, MD, Neville Mistry, MD, Andres Vasquez, MD*

**7:40 am**      **The Pearls for Survival in the Cath Lab**  
*Howard I. Kurz, MD*

**8:10 am**      **Vascular Access and Closure**  
*Bob Massey, RN & Adrian W. Messerli, MD*

**8:30 am**      **Pharmacology in the Cath Lab / Hybrid Lab: Sedation, Anticoagulation, Antiplatelet, Vasopressors, Etc.**  
*Hannah E. Pope, PharmD, BCPS*  
& *Kathleen Schlafly, RN*

**9:00 am**      **Updates on PCI Guidelines and Appropriateness**  
*William B. Bachinsky, MD*

**9:20 am**      **BREAK / VISIT EXHIBITS**

### **SESSION II | CORONARY STENT UPDATE**

**Moderators:** *Tim A. Fischell, MD, James A. Goldstein, MD, Manish A. Parikh, MD, Jasvinder Singh, MD, Michael Yeung, MD*

**9:35 am**      **Stent Update 2018: What to Use**  
*Jasvinder Singh, MD & Matthew Chung, MD*

**9:50 am**      **Approach to Complex PCI: Tools, Skills, Cognition**  
*Tim A. Fischell, MD*

**10:15 am**      **Radiation Safety in the Cath Lab, "Do's and Don'ts"**  
*James A. Goldstein, MD*

**10:30 am**      **Improving Quality Metrics in the Cath Lab: Acute Kidney Injury, Bleeding, Mortality, Readmission in the Cath Lab**  
*Amit P. Amin, MD, Brandi Dennis, RN, Brandon Rahn*

**10:50 am**      **Structural Heart Disease 2018: Lessons on Procedure Techniques and Program Development**  
*Marci Damiano, RN, MSN & Alan Zajarias, MD*

**11:10 am**      **Pearls of Documentation: Coding, Billing and Reimbursement in the Cath Lab**  
*Trinna Smith, CPC*

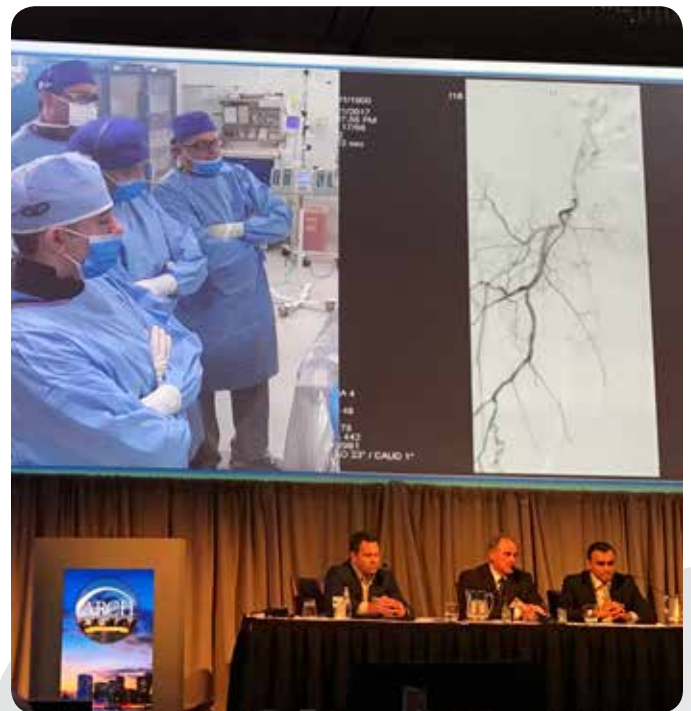
**11:25 am**      **Finding a Job: From Interview to Contract Negotiation**  
*Jeffrey Larson*

**11:40 am**      **Case #1: My Worst/Best Case in the First Two Years**  
*Edward Coverstone, MD*

**11:50 am**      **Case #2**  
*Robert L. Shapiro, MD*

**12:00 pm**      **Case #3**  
*Paul M. Lavigne, MD & Neville Mistry, MD*

**12:10 pm**      **COURSE CONCLUSION**  
*George S. Chrysant, MD*  
& *Marci Damiano, RN, MSN*



**Registration for the General Sessions open until 1:05 pm in the Foyer of Ballroom C, 6th floor**

# GENERAL SESSION AGENDA

THURSDAY, APRIL 12, 2018

12:30 pm REGISTRATION  
Foyer of Ballroom C, 6th Floor

1:05 pm WELCOME AND INTRODUCTION  
Ballroom A/B, 6th Floor  
Jasvinder Singh, MD

## SESSION I | STRUCTURAL HEART DISEASE I

Moderators: Ralph J. Damiano, Jr., MD, John M. Lasala, MD, PhD,  
David G. Rizik, MD, Steven J. Yakubov, MD

1:15 pm **KEYNOTE DEBATE:**  
Future of Structural Heart Disease:  
(i) A Surgeon's Perspective  
Ralph J. Damiano, Jr., MD  
(ii) An Interventionalist's Perspective  
Harold L. Dauerman, MD

2:05 pm **LIVE CASE 1**  
Left Atrial Appendage Closure (LAAC)  
Live Case Satellite from  
Delray Medical Center, Delray Beach, FL

Operator: Brijeshwar S. Maini, MD  
Moderator: Ralph J. Damiano, Jr., MD  
Discussants: Harold L. Dauerman, MD, Marye J. Gleva, MD,  
John M. Lasala, MD, PhD, Amit Noheria, MD

2:45 pm **LIVE CASE 2**  
Transcatheter Aortic Valve Replacement (TAVR)

Live Case Satellite from  
Barnes-Jewish Hospital, St. Louis, MO  
Operators: Puja Kachroo, MD, Hersh S. Maniar, MD,  
Marc A. Sintek, MD, Alan Zajarias, MD  
Moderators: Ralph J. Damiano, Jr., MD,  
Harold L. Dauerman, MD, John M. Lasala, MD, PhD,  
David G. Rizik, MD, Steven J. Yakubov, MD

3:25 pm BREAK / VISIT EXHIBITS

## SESSION II | CHOOSE A BREAKOUT TO ATTEND

### PERIPHERAL I | Ballroom A/B, 6th Floor

Moderators: George S. Chrysant, MD, Steve Henao, MD,  
Ethan C. Korngold, MD, S. Jay Mathews, MD, Sahil A. Parikh, MD,  
Anish J. Thomas, MD, Craig M. Walker, MD

### Transcarotid Artery Stenting (TAS) and TransCarotid Artery Revascularization (TCAR)

3:40 pm Asymptomatic Carotid Trial (ACT) 1,  
CREST Trial  
Ethan C. Korngold, MD

3:55 pm ROADSTER Trial  
Steve Henao, MD

### Superficial Femoral Artery (SFA) Stent or Drug Coated Balloons (DCB)

4:10 pm Treatment Algorithm  
Sahil A. Parikh, MD

4:25 pm Atherectomy / Drug Coated Balloons  
S. Jay Mathews, MD

4:40 pm Supera Drug Eluting Stent  
Anish J. Thomas, MD

### Atherectomy: Laser vs. Directional

4:55 pm Laser / In-Stent Restenosis  
Craig M. Walker, MD

5:10 pm HAWK, PATHWAY and PHOENIX Trials  
S. Jay Mathews, MD

5:25 pm CLOSING REMARKS

### HEMODYNAMIC SUPPORT | Laclede, 6th Floor Supported by Abiomed\*

Moderators: John M. Lasala, MD, PhD, David G. Rizik, MD

3:40 pm Hemodynamic Support:  
Basics and Case Selection  
John M. Lasala, MD, PhD

3:55 pm Impella vs. Intra-Aortic Balloon Pump  
David A. Cox, MD

4:10 pm Role of Extracorporeal  
Membrane Oxygenation (ECMO):  
Setting up and Running the Program  
Mahammad Faraz Masood, MD

4:25 pm Current Trials and New Devices  
David G. Rizik, MD

4:40 pm Case Illustration #1  
Stilianos Efstratiadis, MD

4:50 pm Case Illustration #2  
Akinobu Itoh, MD

5:00 pm Case Illustration #3  
Alok Bachuwar, MD

5:10 pm Case Illustration #4  
J. Trevor Posenau, MD

5:20 pm CLOSING REMARKS  
Jasvinder Singh, MD



5:25 pm

WELCOME & COCKTAIL RECEPTION

## MEET THE EXPERTS ✱

*Supported by: Boston Scientific*

5:35 pm

WELCOME AND INTRODUCTION  
Ballroom Foyer, 6th Floor

**Discussants:** *George Dangas, MD, PhD, John M. Lasala, MD, PhD,  
Yves R. Louvard, MD, Roxana Mehran, MD,  
Anthony J. Spaedy, MD*

5:40 pm

Case Reviews

6:10 pm

Q & A and ADJOURN



## Explore St. Louis!



### Gateway Arch & The Museum of Westward Expansion | [gatewayarch.com](http://gatewayarch.com)

The Gateway Arch is a 630ft National Monument representing St. Louis' role in the westward expansion of the United States. The tram ride to the top of the Arch is one of the most popular activities. Arrive early to avoid lines and allow 30-45 minutes for security checks. Be sure to bring a camera, as you will encounter many photo opportunities and magnificent views from the observation deck.



### Forest Park | [forestparkforever.org](http://forestparkforever.org)

Forest Park is one of the most beautiful urban parks in the world and one of the greatest civic treasures of St. Louis. This 1,300-acre park truly offers something for everyone. It is home to five of the region's major cultural institutions—the Zoo, Art Museum, History Museum, Science Center and the Muny Opera. It also serves as a sports center for golf, tennis, baseball, bicycling, boating, fishing, handball, ice skating, roller blading, jogging, rugby and more. A Dual Path system invites both leisurely walks and intense workouts, this is a quiet place to picnic and read, or just escape it all!



### Missouri Botanical Gardens | [missouribotanicalgarden.org](http://missouribotanicalgarden.org)

Founded in 1859, the 79-acre Missouri Botanical Garden is the nation's oldest botanical garden in continuous operation and serves as an oasis for the city of St. Louis. Today, 153 years after opening, the Garden is a National Historic Landmark and a center for science, conservation, education and horticultural display.



### Cahokia Mounds State Historic Site | [cahokiamounds.org](http://cahokiamounds.org)

The remains of the most sophisticated prehistoric native civilization north of Mexico are preserved at Cahokia Mounds State Historic Site. Within the 2,200-acre tract, directly across the Mississippi River from modern St. Louis, Missouri, lie the archaeological remnants of the central section of the ancient settlement that is today known as Cahokia. One of the greatest cities of the world, Cahokia was larger than London was in 1250 AD. The Mississippians who lived here were accomplished builders who erected a wide variety of structures from practical homes for everyday living to monumental public works that have maintained their grandeur for centuries.

# GENERAL SESSION AGENDA

FRIDAY, APRIL 13, 2018

6:30 am REGISTRATION / CONTINENTAL BREAKFAST  
Foyer of Ballroom C, 6th Floor

7:30 am WELCOME AND INTRODUCTION  
Ballroom A/B, 6th Floor  
*Jasvinder Singh, MD*

7:45 am **KEYNOTE:**  
**Physicians in Industry:  
How Tool Users Can Impact Tool Makers  
and the Evolving Role of Social Media**  
*Chuck Simonton, MD*

## SESSION III | CORONARY I

Moderators: *George Dangas, MD, PhD, John M. Lasala, MD, PhD*

8:30 am **Top Ten Trials: Coronary and Structural**  
*David G. Rizik, MD*

8:50 am **Top Five Trials: Peripheral Vascular**  
*Craig M. Walker, MD*

9:10 am **LIVE CASE 3 | Imaging / Physiology**  
**Live Case Satellite from  
Imperial College, London, England**

Operator: *Sayan Sen, MD*

Moderators: *Richard G. Bach, MD, David A. Cox, MD,  
Stuart T. Higano, MD, C. Huie Lin, MD, PhD,  
Sukhjinder Nijjer, MD, PhD, Marc A. Sintek, MD*

9:55 am **BREAK / VISIT EXHIBITS**

10:10 am **LIVE CASE 4 | Complex PCI**  
**Live Case Satellite from  
Barnes-Jewish Hospital, St. Louis, MO**

Operators: *Jasvinder Singh, MD, Howard I. Kurz, MD,  
David G. Rizik, MD*

Moderators: *David A. Cox, MD, George Dangas, MD, PhD,  
John M. Lasala, MD, PhD, Yves R. Louvard, MD,  
Arthur B. Reitman, MD, Chuck Simonton, MD*

## SESSION IV | CORONARY II: UPDATE ON STENTS / PHARMACOLOGY

Moderators: *David A. Cox, MD, Yves R. Louvard, MD*

Discussants: *George Dangas, MD, PhD,  
Roxana Mehran, MD, David G. Rizik, MD, Chuck Simonton, MD*

10:55 am **Update on Dual Antiplatelet Therapy (DAPT)**  
*Roxana Mehran, MD*

11:10 am **Bioabsorbable Vascular Scaffold (BVS):  
Where Do We Go Now?**  
*Chuck Simonton, MD*

11:25 am **Metallic Drug Eluting Stents (DES):  
Durable Polymers: Tried and Tested**  
*George Dangas, MD, PhD*

11:40 am **Metallic Drug Eluting Stents (DES):  
Bioresorbable Polymers Hold the Future**  
*Arthur B. Reitman, MD*

11:55 am **Q&A**

12:05 pm **LUNCH / VISIT EXHIBITS**

## SESSION V | PERIPHERAL II

Moderators: *Paramjit Chopra, MD,  
George S. Chrysant, MD, Sahil A. Parikh, MD,  
Jeffrey M. Sparling, MD, Anish J. Thomas, MD*

1:05 pm **LIVE CASE 5 | Peripheral**  
**Live Case Satellite from  
The Mount Sinai Hospital, New York, NY**

Operator: *Prakash Krishnan, MD*

Moderators: *Paramjit Chopra, MD, George S. Chrysant, MD,  
Sahil A. Parikh, MD, Jeffrey M. Sparling, MD,  
Anish J. Thomas, MD*

1:50 pm **LIVE CASE 6 | Coronary**  
**Live Case Satellite from  
The Mount Sinai Hospital, New York, NY**

Operator: *Samin K. Sharma, MD*

Moderators: *George Dangas, MD, PhD, Stilianos Efstratiadis, MD,  
Howard I. Kurz, MD, Arthur B. Reitman, MD,  
Anthony J. Spaedy, MD, Jasvinder Singh, MD*



- 2:35 pm**     **Hypertension: Renal Denervation and Renovascular Update**  
*S. Hinan Ahmed, MD*
- 2:50 pm**     **Current Approach to Abdominal Aortic Aneurysms**  
*Luis A. Sanchez, MD*
- 3:05 pm**     **Lower Extremity Revascularization: Trials and Approach**  
*Anish J. Thomas, MD*
- 3:25 pm**     **Critical Limb Ischemia (CLI) Angiosome Driven Revascularization**  
*Sahil A. Parikh, MD*
- 3:40 pm**     **BREAK / VISIT EXHIBITS**

**SESSION VI | CORONARY III**

**Moderators:** *John M. Lasala, MD, PhD, Yves R. Louvard, MD, Arthur B. Reitman, MD, David G. Rizik, MD, Jasvinder Singh, MD, Anthony J. Spaedy, MD*

- 3:55 pm**     **LIVE CASE 7 | Chronic Total Occlusion (CTO)**  
*Live Case Satellite from Edward Hospital, Naperville, IL*
- Operators:** *Tony J. DeMartini, MD, Mark J. Goodwin, MD*  
**Moderators:** *John M. Lasala, MD, PhD, Yves R. Louvard, MD, Arthur B. Reitman, MD, David G. Rizik, MD, Jasvinder Singh, MD, Anthony J. Spaedy, MD*

- 4:40 pm**     **CTO: Case Selection and Data**  
*Sudeshna Banerjee, MD*
- 4:50 pm**     **Antegrade Techniques: Case-Based Review**  
*Anthony J. Spaedy, MD*
- 5:05 pm**     **Retrograde Techniques: Case-Based Review**  
*Jason R. Wollmuth, MD*

**SESSION VII | CHOOSE A BREAKOUT TO ATTEND**

**PERIPHERAL III | Ballroom A/B, 6th Floor**

**Moderators:** *George S. Chrysant, MD, Sahil A. Parikh, MD*

**Venous: Deep and Superficial**

- 5:15 pm**     **Acute Deep Vein Thrombosis (DVT)**  
*Jeffrey M. Sparling, MD*
- 5:25 pm**     **Chronic Deep Vein Thrombosis (DVT)**  
*Paramjit Chopra, MD*

- 5:35 pm**     **Superficial Veins**  
*Paramjit Chopra, MD*
- 5:45 pm**     **Case Presentation: Pulmonary Embolism – Invasive Treatment**  
*Tom Tu, MD*
- 5:55 pm**     **CLOSING REMARKS**

**STRUCTURAL HEART DISEASE II | Laclede, 6th Floor**

**Moderators:** *Hersh S. Maniar, MD, Michael J. Rinaldi, MD, David G. Rizik, MD, Steven J. Yakubov, MD, Alan Zajarias, MD*

**Mitral Valve Session**

- 5:15 pm**     **Evaluating a Patient with Mitral Valve Disease in 2018**  
*Alan Zajarias, MD*
- 5:25 pm**     **Transcatheter Mitral Valve Repair**  
*Michael J. Rinaldi, MD*
- 5:35 pm**     **Transcatheter Mitral Valve Replacement**  
*Hersh S. Maniar, MD*
- 5:45 pm**     **Procedural Imaging of Percutaneous Mitral Valve Procedures**  
*Nishath Quader, MD*
- 5:55 pm**     **Q&A**
- 6:00 pm**     **CLOSING REMARKS**





# GENERAL SESSION AGENDA

SATURDAY, APRIL 14, 2018

7:00 am REGISTRATION / CONTINENTAL BREAKFAST  
Foyer of Ballroom C, 6th Floor

7:25 am WELCOME AND INTRODUCTION  
Ballroom A/B, 6th Floor  
*John M. Lasala, MD, PhD*

7:30 am **KEYNOTE:**  
Artificial Intelligence in Medicine -  
A Focus on Interventional Cardiology  
*Chaitanya K. Dahagam, MD*

## SESSION VIII | CORONARY IV

8:15 am **LIVE CASE 8 | Coronary**  
*Recorded Live Case from  
Barnes-Jewish Hospital, St. Louis, MO*

Operators: *Jasvinder Singh, MD*

Moderators: *David A. Cox, MD, Alan C. Braverman, MD,  
Stilianos Efstratiadis, MD, Howard I. Kurz, MD,  
John M. Lasala, MD, PhD, Yves R. Louvard, MD*

8:45 am **Left Main Disease:  
Update on Trials and Techniques**  
*David G. Rizik, MD*

8:55 am **Bifurcation: New Update  
from European Bifurcation Club**  
*Yves R. Louvard, MD*

9:05 am **Case Presentation #1:  
Bifurcation / Left Main Technique**  
*Matthew Chung, MD*

9:15 am **Case Presentation #2:  
Complications**  
*Corey G. Foster, MD*

9:25 am **BREAK / VISIT EXHIBITS**

## SESSION IX | DEBATE CENTRAL

Moderators: *Harold L. Dauerman, MD, John M. Lasala, MD, PhD,  
Steven J. Yakubov, MD, David G. Rizik, MD*

9:40 am **Radial vs. Femoral**  
*Amit P. Amin, MD & Howard I. Kurz, MD*

10:00 am **Intravascular Ultrasound vs.  
Optical Coherence Tomography**  
*George C. Chrysant, MD & Marc A. Sintek, MD*

10:20 am **Instant Wave Free Ratio vs.  
Fractional Flow Reserve**  
*Sahil A. Parikh, MD & Michael J. Lim, MD*

10:40 am **Orbital vs. Rotational**  
*William B. Bachinsky, MD  
& Arthur B. Reitman, MD*

## SESSION X | CORONARY X

Moderators: *Jasvinder Singh, MD, Steven J. Yakubov, MD*

11:10 am **Laser Atherectomy**  
*Marc A. Sintek, MD*

11:20 am **Specialty Balloons:  
Current Role in Coronary Intervention**  
*Tim A. Fischell, MD*

11:30 am **Sudden Cardiac Death:  
Prevention Post PCI or MI**  
*Marye J. Gleva, MD*

11:40 am **Case Presentation:  
Complex PCI Tools**  
*Matthew Chung, MD & J. Trevor Posenau, MD*

11:50 am **BREAK / VISIT EXHIBITS**

## SESSION XI | ADVANCED STRUCTURAL HEART DISEASE INTERVENTIONS

Moderators: *David T. Balzer, MD, John M. Lasala, MD, PhD,  
Spencer J. Melby, MD, Michael J. Rinaldi, MD,  
David G. Rizik, MD, Alan Zajarias, MD*

12:00 pm **Update Arterial Septal Defect /  
Patent Foramen Ovale Closure**  
*John M. Lasala, MD, PhD*

12:10 pm **Adult Congenital Heart Disease**  
*C. Huie Lin, MD, PhD*

12:20 pm **Percutaneous Pulmonic  
Valve Replacement**  
*David T. Balzer, MD*

12:30 pm **Minimalist Transcatheter  
Aortic Valve Replacement**  
*Spencer J. Melby, MD*

12:40 pm **Procedural Imaging for  
Structural Heart Disease**  
*Nishath Quader, MD*

12:50 pm **Case Presentation:  
Complex TAVR**  
*Nishtha Sodhi, MD*

1:00 pm **CLOSING REMARKS / MEETING ADJOURN**  
*Jasvinder Singh, MD*

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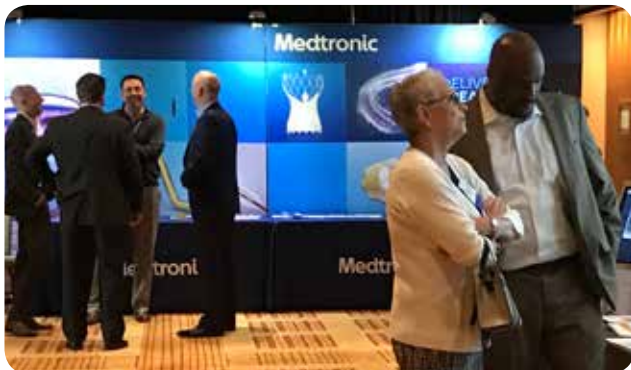
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# General Information

To register for the 2018 ARCH Symposium complete the registration form and return to Gaffney Events or register online:

[www.ARCHsymposium.com](http://www.ARCHsymposium.com)

Gaffney Events  
27322 NE 143rd Place  
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PH: 425.844.9019  
FAX: 425.788.0668

## Full Symposium Registration Fees

The Full Registration Fee includes attendance at the Thursday morning Fellows/Allied Health Professionals Symposium, the Thursday afternoon, Friday and Saturday General Sessions, continental breakfasts, refreshment breaks, lunches and the Thursday Evening Welcome Cocktail Reception.

***Fellows and Residents registration fees are WAIVED!***

***Discount Registration prior to Friday, March 23, 2018!***

Physician, Non-Member of SCAI	<b>\$400</b>	<b>\$450</b>
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Cancellations will be accepted through Friday, March 30th and are subject to a \$75 administrative fee. There will be no refund of tuition for cancellations received after that date. Gaffney Events must receive written notification of your intent to cancel before the cancellation deadline. No refund of tuition will be given for no-shows.

## Location

**Four Seasons Hotel St. Louis**

**999 North 2nd Street**

**St. Louis, Missouri 63102**

**PH: 314.881.5800**

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**[www.fourseasons.com/stlouis](http://www.fourseasons.com/stlouis)**

A block of rooms has been reserved at the Four Seasons Hotel in St. Louis for attendees of the 2018 ARCH Symposium at a special reduced rate of \$245.00 single or double occupancy per night plus tax. To receive the discounted room rate, reservations must be booked and confirmed by Monday, March 26, 2018. After that date, reservations will be subject to space and rate availability.

**Note:** This special reduced conference rate will be honored 2 days prior and 2 days after the symposium, based on availability.

Contact the Reservations Department directly at 314.881.5757 to request accommodations. When making reservations, please be sure to mention that you will be attending the Washington University and Barnes-Jewish Hospital ARCH Symposium in order to obtain the discounted group rate.

## Online Reservations

**To book your room online, visit**

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# Registration Form



## Full Symposium Registration Rates:

Prior to 3/23/2018

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<input type="checkbox"/> Physician, Non-Member of SCAI	\$400	\$450
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