



April 9 - 13, 2019

The Four Seasons Hotel
St. Louis, Missouri

**PERCUTANEOUS CARDIAC
AND PERIPHERAL VASCULAR
THERAPEUTICS 2019**

NEW in 2019!

**HEART
RHYTHM
SESSIONS**

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Associate Professor of Medicine
Director, Interventional Cardiology
Washington University School of Medicine
Medical Director, Cardiac Cath Lab
Barnes-Jewish Hospital
St. Louis, Missouri

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Co-Chair, Heart & Vascular Center
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Washington University School of Medicine and Barnes-Jewish Hospital Faculty

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Assistant Professor of Medicine

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Medical Director, Cardiac Intensive Care Unit

David T. Balzer, MD, FSCAI

Professor of Pediatrics
Interim Director, Division of Pediatric Cardiology

Alan Braverman, MD, FACC

Alumni Endowed Professor in
Cardiovascular Diseases

David L. Brown, MD, FACC

Professor of Medicine

Daniel H. Cooper, MD

Assistant Professor of Medicine
Director, Electrophysiology Fellowship

Aarti Dalal, DO

Assistant Professor

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Clinical Nurse Coordinator
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Surgical Director, Heart Transplant and
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Pharmacy Specialist

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Chief of Service, Stereotactic Body
Radiation Therapy (SBRT)
Director, Clinical Trials & Clinical Informatics

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Professor of Medicine, Nephrology

Pamela Samson, MD

Radiation Oncologist

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Chief of Vascular Surgery
Gregorio A. Sicard Distinguished Professor
of Surgery and Radiology

Kathleen Schlafly, RN, BSN, CCRN

Registered Nurse

Richard B. Schuessler, PhD

Department of Surgery

Adam Shpigel, MD

Interventional Cardiology Fellow

Jennifer Silva, MD

Pediatric Cardiologist

Marc A. Sintek, MD

Assistant Professor of Medicine

Timothy W. Smith, DPhil, MD

Associate Professor of Medicine

Invited Faculty

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San Antonio, Texas

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London, England

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Oregon Heart & Vascular Institute
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Midwest Institute for Minimally Invasive Therapies
Rush University
Melrose Park, Illinois

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Downers Grove, Illinois

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Quincy, Illinois

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Tenet Healthcare Corporation - Florida Region
Delray Beach, Florida

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PMG Research of McFarland Clinic
Ames, Iowa

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Aurora, Colorado

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 OVERVIEW

The **Advanced Revascularization-Chapter XII (ARCH) Symposium** held in St. Louis is the nation's premier interventional cardiology course specifically designed for the busy practicing physician and trainees. **ARCH 2019** will focus on evidence-based data, newer technological advances, case-based discussions, tips and tricks in complex cases, 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 Coronary, Peripheral and Structural Interventions and decompensated heart failure, structural heart disease interventions and novel intravascular coronary anatomy/physiology techniques. In addition, use of newer adjunctive imaging modalities to optimize Coronary, Peripheral and Structural Interventions outcomes will be presented. Participants will observe live cases and hear from International experts who will present their data and share their expertise. With a strong emphasis on participant-faculty interactions, attendees will learn the latest advances in interventional cardiology.

OBJECTIVES

The objectives of the 2019 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.
- 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 2019.
- Explain techniques to improve mapping accuracy and ablation success for arrhythmias such as ventricular tachycardia and atrial fibrillation.
- Summarize new cutting-edge developments in noninvasive cardiac ablation, virtual reality in the EP lab, and painless defibrillation to improve the patient and physician EP experience.
- Discuss interventional dilemmas / controversial cases of the day: instructive, unique and interesting cases by faculty members concentrating on procedural strategy and solutions to complications.

- Explain practical techniques relating to highly stenosed lesions and the use of percutaneous left ventricular assist devices (LVAD).
- Discuss the relative role of trans-catheter and surgical therapies for advanced structural heart disease, both valvular and non-valvular and atrial fibrillation.

TARGET AUDIENCE

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

ACCREDITATION



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 31 *AMA PRA Category 1 Credit(s)*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nursing Continuing Education

This activity has been submitted to the Continuing Nursing Education Group, for approval to award nursing contact hours. The Continuing Nursing Education Group is accredited as an approver of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation.

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)*™ from organizations accredited by the ACCME.

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.

HEART RHYTHM SYMPOSIUM AGENDA

TUESDAY, APRIL 9, 2019

7:30 am REGISTRATION / CONTINENTAL BREAKFAST
6th Floor Foyer

8:00 am WELCOME AND INTRODUCTION
Phillip S. Cuculich, MD

SESSION I | APPROACHES TO ABLATING VENTRICULAR TACHYCARDIA

Moderator: *Phillip S. Cuculich, MD*

Panelists: *Mitchell N. Faddis, MD, PhD; Andrea Natale, MD;
Praveen K. Rao, MD; Wendy Tzou, MD*

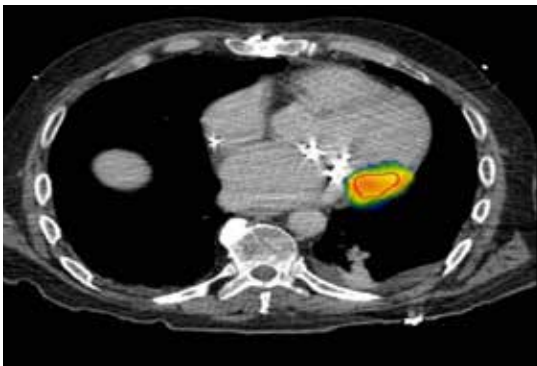
8:05 am **LIVE CASE 1**
*Transmitted from Barnes-Jewish Hospital at
Washington University, St. Louis, MO*

Operator: *Daniel H. Cooper, MD*

8:30 am VT Ablation 101:
Being Prepared for the Battle
Praveen K. Rao, MD

8:50 am Clinical Trials for Catheter Ablation
in Patients with VT
Marye J. Gleva, MD

9:10 am Live Case 1 Status and Update on Progress
Panel



9:30 am Tools of the Trade:
Current Mapping Techniques
Timothy W. Smith, DPhil, MD

9:50 am What is the Substrate?
Nonischemic vs. Ischemic Cardiomyopathy
Amit Noheria, MBBS, SM

10:10 am BREAK / VISIT EXHIBITS

10:30 am **KEYNOTE ADDRESS**
Innovation in Ventricular Tachycardia
Ablation: Better Methods /
Techniques for Successful Ablation
Wendy Tzou, MD

11:00 am How to Perform Scar
Homogenization for VT
Andrea Natale, MD

11:20 am Noninvasive Ventricular Tachycardia
Mapping
Phillip S. Cuculich, MD

11:40 am Live Case 1 Status and Update on Progress
Panel

12:00 pm LUNCH / VISIT EXHIBITS

SESSION II | ADVANCES IN MANAGEMENT OF CARDIAC DEVICES

Moderator: *Marye J. Gleva, MD*

Panelists: *Aarti Dalal, DO; Sandeep Gautam, MD;
Jason Meyers, MD; Amit Noheria, MBBS, SM;
Robert D. Schaller, DO*

1:00 pm His-Bundle Pacing: How to Do it Well
Speaker TBD

1:20 pm Implanting Leadless Pacemakers
Timothy W. Smith, DPhil, MD

1:40 pm Embracing and Adopting New Device
Technologies
Jason Meyers, MD

2:00 pm Unique Challenges in Managing Devices in
Adults With Congenital Heart Disease
Aarti Dalal, DO; Marye J. Gleva, MD

2:20 pm Managing Leads:
Exotic Implant and Extraction Cases
Robert D. Schaller, DO

2:40 pm **CASE DISCUSSION**
Practical Lessons and Tips on
How to Identify and Treat the
Five Worst Complications
Panel

3:20 pm BREAK / VISIT EXHIBITS

TUESDAY, APRIL 9, 2019

SESSION III | TODAY'S IDEAS THAT WILL SHAPE THE WAY WE PRACTICE EP TOMORROW

Moderator: Jennifer Silva, MD

Panelists: Mitchell N. Faddis, MD, PhD; Andrea Natale, MD; Richard B. Schuessler, PhD; Wendy Tzou, MD

- 3:40 pm** **The History of EP: Innovative Ideas and Bright People: Stories of Development and Testing of RF-Based Catheter Ablation**
Richard B. Schuessler, PhD
- 4:00 pm** **The Future of EP: Innovative Ideas and Bright People: Computer Modeling and Cardiac Imaging to Personalize Ablation Strategies**
Phillip S. Cuculich, MD
- 4:20 pm** **LIVE CASE 2**
Noninvasive Cardiac Radioablation
Transmitted from Siteman Cancer Center at Barnes-Jewish Hospital at Washington University, St. Louis, MO
- Mapper:** *Phillip S. Cuculich, MD*
Ablators: *Pamela Samson, MD; Clifford G. Robinson, MD*
- 5:00 pm** **Augmented Reality in the EP Lab**
Jennifer Silva, MD
- 5:20 pm** **Painless Defibrillation**
Daniel H. Cooper, MD
- 5:40 pm** **Panel Discussion**
- 6:00 pm** **CONCLUDING REMARKS**
Phillip S. Cuculich, MD

WEDNESDAY, APRIL 10, 2019

- 7:30 am** **REGISTRATION / CONTINENTAL BREAKFAST**
6th Floor Foyer
- 8:00 am** **WELCOME AND FOLLOW UP ON PATIENTS FROM PREVIOUS DAY**
Phillip S. Cuculich, MD
- 8:15 am** **KEYNOTE ADDRESS**
Innovation in AF Ablation: Better Methods / Techniques for Successful Ablation
Andrea Natale, MD

SESSION IV | APPROACHES TO ABLATING ATRIAL FIBRILLATION

Moderator: Phillip S. Cuculich, MD

Panelists: Ralph J. Damiano, Jr., MD; Sandeep Gautam, MD; Marye J. Gleva, MD; Jason Meyers, MD; Andrea Natale, MD

8:45 am **LIVE CASE 3**

Transmitted from Barnes-Jewish Hospital at Washington University, St. Louis, MO

Operator: *Mitchell N. Faddis, MD, PhD*

- 9:10 am** **Performing High-Quality Pulmonary Vein Isolation (PVI): Burn? Freeze?**
Jason Meyers, MD
- 9:30 am** **Persistent AF: PVI Plus What? Lessons from Surgical Maze Experience**
Ralph J. Damiano, Jr., MD
- 9:50 am** **Live Case 3 Status and Update on Progress**
Panel
- 10:00 am** **CABANA: What Did We Learn? How Can We Do Better?**
Marye J. Gleva, MD
- 10:20 am** **Practical Education: Tricks and Tools to Facilitate AF Ablation**
Sandeep Gautam, MD
- 10:40 am** **Live Case 3 Status and Panel Discussion**
Panel
- 10:50 am** **BREAK / VISIT EXHIBITS**

SESSION V | EP CASE DISCUSSION WITH NEW SOLUTIONS TO OLD PROBLEMS

Moderator: Daniel H. Cooper, MD

Panelists: Sandeep Gautam, MD; Robert Schaller, DO; Wendy Tzou, MD

- 11:00 am** **Fellows Presentations**
- 12:05 pm** **Q&A**
Panel
- 12:15 pm** **COURSE CONCLUSION**
Phillip S. Cuculich, MD
Ralph J. Damiano, Jr., MD
Mitchell N. Faddis, MD, PhD
Andrea Natale, MD



FELLOWS COURSE*

WEDNESDAY, APRIL 10, 2019

DIRECTOR

George S. Chrysant, MD, FACC, FSCAI

COURSE OVERVIEW

The Fellows Course 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 2019 Fellows Course has been designed to meet the educational needs of Internists, Family Practitioners, Nurse Practitioners, Physician Assistants, Clinical Pharmacists, Medical Students, Residents, and Fellows.

AGENDA

- 1:00 pm** **REGISTRATION**
6th Floor Foyer
- 1:30 pm** **WELCOME AND INTRODUCTION**
Mississippi Room, 8th Floor
George S. Chrysant, MD
- 1:35 pm** **INTRODUCTORY LECTURE**
Navigating Through Your Interventional Fellowship Year: Words of Wisdom
James B. Hermiller, MD

SESSION I | BASICS:

ACCESS, EQUIPMENT & CASE SELECTION

Moderators: David A. Cox, MD and James B. Hermiller, MD

- 2:00 pm** **Case Selection / Guidelines**
David A. Cox, MD
- 2:15 pm** **Radial Access**
Amit P. Amin, MD
- 2:30 pm** **Femoral Access**
Howard I. Kurz, MD
- 2:45 pm** **Interventional Tool Kit**
(Guide Wires / Balloons, etc.)
George S. Chrysant, MD
- 3:00 pm** **What Stent to Use**
Jasvinder Singh, MD
- 3:15 pm** **Q&A**

SESSION II | APPROACHING LESION SUBSETS: CASE-BASED REVIEW

Moderators: George S. Chrysant, MD; Yves R. Louvard, MD

- 3:20 pm** **Left Main Lesions**
Matthew Chung, MD
- 3:35 pm** **Bifurcation Lesions**
Yves R. Louvard, MD
- 3:50 pm** **Ostial / Vein Graft: Lesions**
Corey G. Foster, MD
- 4:05 pm** **STEMI**
S. Jay Mathews, MD
- 4:20 pm** **In-Stent Restenosis**
Marc A. Sintek, MD
- 4:35 pm** **Q&A**
- 4:40 pm** **BREAK / VISIT EXHIBITS**

SESSION III | FELLOWS CASE COMPETITION

Moderators: George S. Chrysant, MD; David A. Cox, MD;
James B. Hermiller, MD; David G. Rizik, MD

- 5:00 pm** **Fellows Case Presentations**
- 6:20 pm** **Fellows Case Competition Award**
- 6:35 pm** **FELLOWS COURSE CONCLUSION**
David G. Rizik, MD

ARCH EVENING SYMPOSIUM*

Everyone is invited to attend!

WEDNESDAY, APRIL 10, 2019

IMAGING / PHYSIOLOGY

Supported by Philips Image Guided Therapy Devices

- 6:30 pm** **REGISTRATION / BUFFET DINNER**
Ballroom A/B, 6th Floor Foyer
- 7:30 pm** **KEYNOTE ADDRESS**
Current Update in Imaging and Physiology
David G. Rizik, MD
- 8:00 pm** **New Tools in 2018**
(FFR CT Angiography / Perfusion)
George S. Chrysant, MD
- 8:15 pm** **IFR / IVUS / OCT Co- Registration**
Sukhjinder Nijjer, MD
- 8:30 pm** **Case Examples**
Michael Daniel, MD; J. Trevor Posenau, MD;
Adam Shpigel, MD
- 9:00 pm** **Adjourn**
Jasvinder Singh, MD

ARCH PRE-COURSE AGENDA

THURSDAY, APRIL 11, 2019

- 7:30 am** REGISTRATION / CONTINENTAL BREAKFAST
6th Floor Foyer
- 8:00 am** WELCOME AND INTRODUCTION
Jasvinder Singh, MD
- 8:05 am** **KEYNOTE SPEAKER**
Evolution of Physician, Nurses,
Technicians Role in Cath Lab
Craig M. Walker, MD

SESSION I | ALLIED HEALTH PROFESSIONALS SESSION

Moderators: *George S. Chrysant, MD; Marci Damiano, RN, MSN*
Panelists: *Adrian W. Messerli, MD; Samantha Miller, RN, BSN; Craig M. Walker, MD*

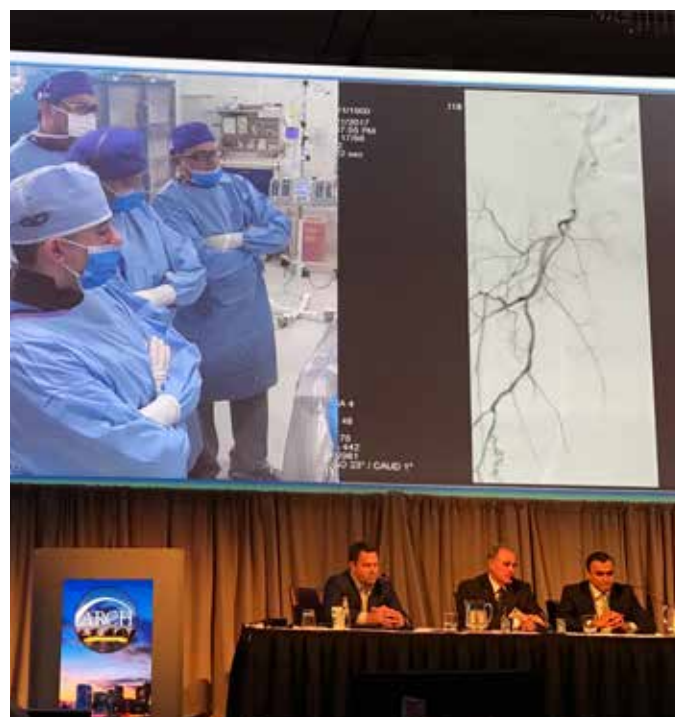
- 8:30 am** Pharmacology in the Cath Lab
Hannah E. Pope, PharmD, BCPS, MHA; Kathleen Schlafly, RN, BSN, CCRN
- 8:45 am** Approach to Complex PCI
Tim A. Fischell, MD
- 9:00 am** Hypotension in the Cath Lab: Causes and Treatment
Adrian W. Messerli, MD
- 9:15 am** Radiation Safety in the Cath Lab
James A. Goldstein, MD
- 9:30 am** Improving Quality Metrics
Amit P. Amin, MD; Brandon Rahn, MHA
- 9:45 am** BREAK / VISIT EXHIBITS

SESSION II | ACS / SHOCK

Moderator: *John M. Lasala, MD, PhD*
Panelists: *James B. Hermiller, MD; Stuart T. Higano, MD; Yves R. Louvard, MD; S. Jay Mathews, MD*

- 10:00 am** Case Presentation
Edward Coverstone, MD
- 10:15 am** Role of Thrombectomy in STEMI
S. Jay Mathews, MD
- 10:30 am** Culprit vs. Non-Culprit in Acute Coronary Syndrome
Alok Bachuwar, MD

- 10:45 am** Role of Hemodynamic Support: Basics and Case Selection
John M. Lasala, MD, PhD
- 11:00 am** Impella vs. Intra-Aortic Balloon Pump
David A. Cox, MD
- 11:15 am** Role of ECMO in Cardiogenic Shock
Akinobu Itoh, MD, PhD
- 11:30 am** Best / Worst Cases After Fellowship
• *Neville F. Mistry, MD*
• *Nishtha Sodhi, MD*
• *Paul M. Lavigne, MD*
- 11:50 am** Q&A
- 12:00 pm** LUNCH / VISIT EXHIBITS



GENERAL SESSION I AGENDA

THURSDAY, APRIL 11, 2019

12:30 pm **REGISTRATION**
6th Floor Foyer

1:00 pm **WELCOME AND INTRODUCTION**
John M. Lasala, MD, PhD;
Jasvinder Singh, MD

1:05 pm **KEYNOTE SPEAKER**
Structural Heart Disease:
A Peek into the Future
Ian Meredith, AM

1:50 pm **LIVE CASE 1**
Left Atrial Appendage Closure
Transmitted from Delray Medical Center,
Delray Beach, FL

Operator: *Brijeshwar S. Maini, MD*
Moderators: *Ralph J. Damiano, Jr., MD;*
John M. Lasala, MD, PhD

Panelists: *Ian Meredith, AM; Amit Noheria, MD;*
Steven J. Yakubov, MD

2:35 pm **LIVE CASE 2 | TAVR**
Transmitted from Barnes-Jewish Hospital,
St. Louis, MO

Operators: *Puja Kachroo, MD; Marc A. Sintek, MD;*
Alan Zajarias, MD

Moderators: *Ralph J. Damiano, Jr., MD;*
Ramon Quesada, MD

Panelists: *James B. Hermiller, MD;*
John M. Lasala, MD, PhD; David G. Rizik, MD;
Steven J. Yakubov, MD

3:10 pm **BREAK / VISIT EXHIBITS**

AFTERNOON BREAKOUT SESSIONS (Please select one to attend)

Breakout I | Ballroom A/B, 6th Floor

SURGERY, INTERVENTIONAL CARDIOLOGY,
ELECTROPHYSIOLOGY: TAVR / LAA CLOSURE
Moderators: *John M. Lasala, MD, PhD; Jeffrey M. Sparling, MD*
Panelists: *James B. Hermiller, MD; Spencer J. Melby, MD;*
David G. Rizik, MD

3:25 pm **LAA Closure: Patient Selection:**
Imaging and Anti-Thrombotic Therapy
Steven J. Yakubov, MD

3:40 pm **Management of CAD and Aortic Stenosis:**
Current Thought on the Low-Risk Patient
Marc A. Sintek, MD

3:55 pm **TAVR in Bicuspid Aortic Valve**
Alan Zajarias, MD

4:10 pm **Minimalist TAVR: Then and Now**
Spencer J. Melby, MD

4:25 pm **Alternative Access Selection for the**
Non-Transfemoral TAVR Patient
Hersh S. Maniar, MD

4:40 pm **Embolic Protection in TAVR: Hope or Hype**
Jeffrey M. Sparling, MD

4:55 pm **Q&A / CLOSING REMARKS**

Breakout II | Laclede Room, 6th Floor

PERIPHERAL SESSION I | OBL / ASC BOOTCAMP

Moderators: *Eric J. Dippel, MD; Craig M. Walker, MD*

Panelists: *Paramjit S. Chopra, MD; George S. Chrysant, MD*

3:25 pm **Why Open an OBL /**
ASC and Should it be Dual Entity
Craig M. Walker, MD

3:45 pm **How to Start OBL / ASC: Soup to Nuts**
Eric J. Dippel, MD

4:05 pm **What Regulatory Changes Have**
Occurred in 2019 and What Does
the Future Hold
Paramjit S. Chopra, MD

4:25 pm **PCI in the OBL / ASC Setting: Is It Safe?**
Ethan C. Korngold, MD

4:45 pm **Q&A / CLOSING REMARKS**

*Breakout III | Mississippi Room, 8th Floor

ROTATIONAL ATHERECTOMY

*ROTABATOR SYSTEM DIDACTIC CERTIFICATION COURSE

Supported by Boston Scientific

Moderators: *Arthur B. Reitman, MD; Jasvinder Singh, MD*

3:30 pm - 5:00 pm DIDACTIC SESSIONS

• **Welcome and Introduction** - *Arthur B. Reitman, MD*

• **Disposables and Hardware** - *TBA*

• **Clinical Results** - *Arthur B. Reitman, MD*

• **Indications and Case Selection** - *Tim A. Fischell, MD*

• **Technique** - *Howard I. Kurz, MD*

• **Management of Complications** - *John M. Lasala, MD, PhD*

• **Q&A / CLOSING REMARKS**

Note: After completing this session, a "Wet Heart Hands-on Training and Final Assessment" will be scheduled for Friday.

5:00 pm **WELCOME WINE & CHEESE RECEPTION**
Ballroom Foyer, 6th Floor

GENERAL SESSION II AGENDA

FRIDAY, APRIL 12, 2019

7:30 am REGISTRATION / CONTINENTAL BREAKFAST
6th Floor Foyer

8:00 am WELCOME AND INTRODUCTION
Jasvinder Singh, MD

8:05 am **KEYNOTE SPEAKER**
Current Status and Future of
Interventional Cardiology
Jeffrey W. Moses, MD

SESSION I | CORONARY I

Moderator: John M. Lasala, MD, PhD
Panelists: David A. Cox, MD; James B. Hermiller, MD;
Yves R. Louvard, MD; Jeffrey W. Moses, MD

8:50 am Top Ten Coronary and Structural
Trials of 2018
David G. Rizik, MD

9:10 am Top Five Peripheral Trials of 2018
Craig M. Walker, MD

9:35 am **LIVE CASE 3**
Complex Physiology and Imaging
*Transmitted from Imperial College,
London, England*

Operators: Rasha Al-Lamee, MD; Sayan Sen, MD
Moderators: George S. Chrysant, MD;
Sukhjinder Nijjer, MD, PhD
Panelists: Richard G. Bach, MD; Stuart T. Higano, MD;
C. Huie Lin, MD, PhD; Marc A. Sintek, MD

10:15 am BREAK / VISIT EXHIBITS



10:30 am **LIVE CASE 4** | Complex Coronary
*Transmitted from Barnes-Jewish Hospital,
St. Louis, MO*

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

Moderators: David A. Cox, MD; Jeffrey W. Moses, MD

Panelists: James B. Hermiller, MD; Yves R. Louvard, MD;
Kartik Mani, MBBS; Arthur B. Reitman, MD

SESSION II | CORONARY II

Moderator: James B. Hermiller, MD
Panelists: Richard G. Bach, MD; Jeffrey W. Moses, MD;
Arthur B. Reitman, MD; David G. Rizik, MD

11:15 am DES (Drug Eluting Stents) Update
and New Trials
Jeffrey W. Moses, MD

11:30 am Update on Dual Antiplatelet Therapy
James B. Hermiller, MD

11:45 am Update on Left Main and Bifurcation
Treatment
Yves R. Louvard, MD

12:00 pm Q&A

12:10 pm LUNCH / VISIT EXHIBITS

1:15 pm **LIVE CASE 5** | Complex Coronary
*Transmitted from The Mount Sinai Hospital,
New York, NY*

Operators: Annapoorna S. Kini, MD; Samin K. Sharma, MD

Moderators: David G. Rizik MD; Jasvinder Singh, MD

Panelists: David A. Cox, MD;
James Aaron Grantham, MD;
John M. Lasala, MD, PhD; Michael Yeung, MD

2:00 pm **LIVE CASE 6** | Complex Peripheral
*Transmitted from The Mount Sinai Hospital,
New York, NY*

Operator: Prakash Krishnan, MD

Moderators: George S. Chrysant, MD; Anish J. Thomas, MD

Panelists: Paramjit S. Chopra, MD; Kartik Mani, MBBS;
Luis A. Sanchez, MD; Jeffrey M. Sparling, MD

SESSION III | HYPERTENSION:

CURRENT GUIDELINES AND TREATMENT MODALITIES

Moderators: George S. Chrysant, MD; Marcos Rothstein, MD

Panelists: S. Hinaan Ahmed, MD; S. Jay Mathews, MD;
Luis A. Sanchez, MD

2:45 pm Hypertension Treatment: Current
Guidelines and New Treatment Modalities
Marcos Rothstein, MD

- 3:00 pm** **Renal Denervation: Update of Trials**
Jason Fontana, MD, PhD
- 3:15 pm** **Renal Vascular Disease:
Case-Based Review**
Michael Daniel, MD; Jasvinder Singh, MD
- 3:30 pm** **BREAK / VISIT EXHIBITS**

3:45 pm **LIVE CASE 7 | CTO**

*Transmitted from Memorial Medical Center /
SIU School of Medicine, Springfield, IL*

Operators: Mark J. Goodwin, MD; Tony J. DeMartini, MD
Moderators: Sudeshna Banerjee, MD;
James Aaron Grantham, MD
Panelists: Michael A. Brown, MD; Bryan D. Cogar, MD;
John M. Lasala, MD, PhD; Anthony J. Spaedy, MD

- 4:40 pm** **Alternative Access: When and How to Use**
Bryan D. Cogar, MD
- 4:50 pm** **Critical Limb Ischemia:
What Tools are Necessary to Treat?**
S. Jay Mathews, MD
- 5:00 pm** **Carotid Stentings:
Is There an Algorithm?**
Srin P. Potluri, MD
- 5:10 pm** **Q&A**
- 5:20 pm** **CONCLUDING REMARKS**
George S. Chrysant, MD; Luis A. Sanchez, MD

AFTERNOON BREAKOUT SESSIONS

(Please select one to attend)

Breakout I | Ballroom A/B, 6th Floor

STRUCTURAL HEART DISEASE III

Moderators: Ralph J. Damiano, Jr., MD; Alan Zajarias, MD
Panelists: James B. Hermiller, MD; Hersh S. Maniar, MD;
Sean Pinney, MD; David G. Rizik, MD

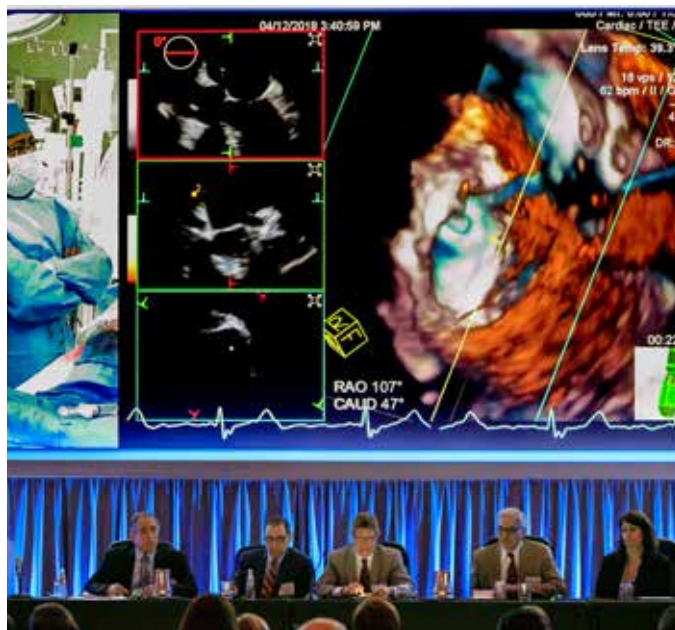
- 4:30 pm** **What is Guideline-Directed Medical
Therapy in Patients with Functional MR**
Sean Pinney, MD
- 4:40 pm** **Mitra Clip for Functional MR:
Patient Selection and Outcomes**
David G. Rizik, MD
- 4:50 pm** **Catheter Based Therapies After Surgical
Mitral Valve Intervention**
Alan Zajarias, MD
- 5:00 pm** **Transcatheter Pulmonary
Valve Replacement:
New Platforms, New Outcomes?**
Vivian Dimas, MD
- 5:10 pm** **Q&A**
- 5:20 pm** **CONCLUDING REMARKS**
Ralph J. Damiano, Jr., MD

Breakout II | Laclede Room, 6th Floor

**PERIPHERAL SESSION II | HOT TOPICS IN PULMONARY
ARTERY DISEASE**

Moderators: George S. Chrysant, MD; Luis A. Sanchez, MD

- 4:30 pm** **DES or DCB for SFA / Popliteal Disease**
Anish J. Thomas, MD



GENERAL SESSION III AGENDA

SATURDAY, APRIL 13, 2019

7:30 am **REGISTRATION / CONTINENTAL BREAKFAST**
6th Floor Foyer

8:00 am **WELCOME AND INTRODUCTION**
George S. Chrysant, MD

SESSION I | KEYNOTE ADDRESS

8:05 am **Non-Invasive Coronary Physiology**
Campbell D. Rogers, MD

SESSION II | DEBATE CENTRAL

Moderators: *George S. Chrysant, MD; Howard I. Kurz, MD*
Panelists: *Richard G. Bach, MD; Sukhjinder Nijjer, MD, PhD;*
Robert L. Shapiro, MD

8:50 am **Radial vs. Femoral**
Amit P. Amin, MD & Howard I. Kurz, MD

9:10 am **iFR vs. FFR**
Sukhjinder Nijjer, MD, PhD &
Stuart T. Higano, MD

9:30 am **Stable Angina: Medical Therapy vs. PCI**
Richard G. Bach, MD & David L. Brown, MD

9:50 am **BREAK / VISIT EXHIBITS**

SESSION III | CORONARY MISCELLANEOUS SESSION

Moderators: *John M. Lasala, MD, PhD; Arthur B. Reitman, MD*
Panelists: *Alan C. Braverman, MD; Stilianos Efstratiadis, MD;*
Tim A. Fischell, MD; Robert D. Shapiro MD

10:05 am **Spontaneous Coronary Artery
Dissection (SCAD):
Recognition and Management**
Alan C. Braverman, MD

10:20 am **Update on Calcium Management Tools
(Orbital, Rotational, Lithotripsy)**
Arthur B. Reitman, MD

10:35am **Laser Atherectomy**
Marc A. Sintek, MD

10:50 am **Specialty Balloons and New
Tools in the Cath Lab**
Tim A. Fischell, MD

SESSION IV | STRUCTURAL / PERIPHERAL

Moderators: *George S. Chrysant, MD; Vivian Dimas, MD*
Panelists: *David T. Balzer, MD; Amr El-Shafei, MD;*
John M. Lasala, MD, PhD

11:15 am **Update on PFO / AFD Closure**
John M. Lasala, MD, PhD

11:30 am **Imaging for Structural Heart Disease**
Majesh Makan, MD

11:45 am **Interesting Case:
Adult Congenital**
C. Huie Lin, MD, PhD

12:00 pm **Interesting Case:
Pediatric Congenital**
David T. Balzer, MD

12:15 pm **Pulmonary / Venous
Thromboembolic Disease:
Current Update on Interventional
Therapies**
Thomas Tu, MD

12:30 pm **Interesting Case:
Venous Intervention**
Amr El-Shafei, MD

12:45 pm **CLOSING REMARKS /
MEETING ADJOURNMENT**
Jasvinder Singh, MD
George S. Chrysant, MD



SPECIAL EVENTS

THURSDAY, APRIL 11, 2019

MEET THE EXPERTS* | Supported by: *Boston Scientific*

Moderators: John M. Lasala, MD, PhD; Ramon Quesada, MD; Anthony J. Spaedy, MD

Discussants: Yves R. Louvard, MD; Arthur B. Reitman, MD; David G. Rizik, MD

5:00 pm WINE AND CHEESE WELCOME RECEPTION, 6th Floor Foyer

5:15 pm WELCOME - Jasvinder Singh, MD

5:20 pm Case Reviews

6:10 pm Q&A / ADJOURN

INDUSTRY SUPPORTED EVENING SYMPOSIA

6:30 pm – 8:30 pm

On Thursday evening attendees may choose from multiple Evening Symposia sponsored by various industry partners. Information and registration will be available onsite.



SYMPOSIUM SUPPORTERS

The Advanced Revascularization-Chapter XII (ARCH) Symposium will be supported through educational grants and exhibit fees from commercial supporters. The Course Directors will develop the educational content without any influence from commercial supporters. Exhibits will be available for viewing at all scheduled breaks. Following is a list of the 2018 ARCH supporters. A complete list of the 2019 ARCH Supporters and appropriate acknowledgement will be given to all supporters at the time of the meeting in the course syllabus.

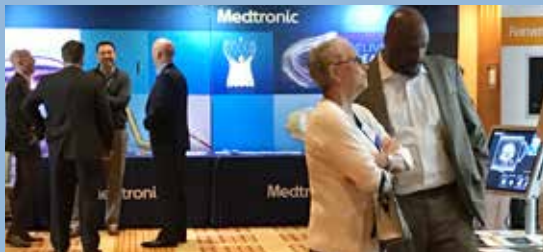
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General Information

To register for the 2019 ARCH Symposium complete the registration form and return to Gaffney Events or register online:

www.ARCHsymposium.com

Gaffney Events
27322 NE 143rd Place
Duvall, WA 98019
PH: 425.844.9019
FAX: 425.788.0668

Full Symposium Registration Fees

The Full Registration Fee includes attendance at the Tuesday and Wednesday morning Heart Rhythm Symposium, Thursday morning ARCH Pre-Course 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 22, 2019!

Physician, Non-Member of SCAI	\$400	\$450
Physician, Member of SCAI	\$350	\$400
Fellow / Resident	Waived	Waived
Nurse / PA / Technician	\$100	\$150
Industry Representative	\$250	\$300
Affiliate of Washington University School of Medicine or Barnes-Jewish Hospital	\$100	\$100

Heart Rhythm Symposium ONLY Registration Fees:

The Full Registration Fees below include attendance at the Tuesday Full Day and Wednesday Half Day Heart Rhythm Symposium ONLY:

One-and-A-Half-Day Heart Rhythm Symposium Rates

Physician, Non-Member of SCAI	\$200
Physician, Member of SCAI	\$175
Fellow / Resident (Registration Fees Waived)	\$0
Nurse / PA / Technician	\$50
Industry Representative	\$125
Affiliate of Washington University School of Medicine or Barnes-Jewish Hospital	\$50

Cancellations

Cancellations will be accepted through Friday, March 29th 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

999 North 2nd Street

St. Louis, Missouri 63102

PH: 314.881.5800

\$199.00 / night + tax

www.fourseasons.com/stlouis



A block of rooms has been reserved at the Four Seasons Hotel in St. Louis for attendees of the 2019 ARCH Symposium at a special reduced rate of \$199.00 single or double occupancy per night plus tax. To receive the discounted room rate, reservations must be booked and confirmed by Thursday, March 21, 2019. 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

www.ARCHSymposium.com

SAVE-THE-DATE!

April 21 – 25, 2020

Four Seasons Hotel
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Registration Form



First Name: _____ Last Name: _____

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REGISTRATION RATES ARE DISCOUNTED
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PRICE IF RECEIVED PRIOR TO MARCH 22, 2019

Fellows Fees Waived!

In order to receive the Complimentary Fellows Full-Meeting Registration or apply for participation in one of the Fellows Courses, please visit the website at cccsymposium.org. Please contact Jessica Pitts at jessica@gaffneyevents.com with any questions. Complimentary registration is limited and on a first-come, first-served basis.

ARCH - Full Symposium Registration:

ARCH Symposium & Heart Rhythm Symposium

- \$400 ☐ Physician, Non-Member of SCAI
\$350 ☐ Physician, Member of SCAI
\$0 ☐ Fellow / Resident (**Registration Fees Waived**)
\$100 ☐ Nurse / PA / Technician
\$250 ☐ Industry Representative
\$100 ☐ Affiliate of Washington University School of Medicine or Barnes-Jewish Hospital

As a Full-Registration participant, please check the day(s) and BREAKOUT Sessions you will be attending (REQUIRED):

- ☐ Tuesday, Heart Rhythm Symposium
☐ Wednesday Half Day, Heart Rhythm Symposium
☐ Thursday, ARCH Symposium
☐ BREAKOUT I - SURGERY, INTERVENTIONAL CARDIOLOGY, ELECTROPHYSIOLOGY: TAVR / LAA CLOSURE
☐ BREAKOUT II - PERIPHERAL SESSION II | OBL / ASC BOOTCAMP
☐ BREAKOUT III - ROTATIONAL ATHERECTOMY CERTIFICATION COURSE
☐ Friday, ARCH Symposium
☐ BREAKOUT I - STRUCTURAL HEART DISEASE III
☐ BREAKOUT II - PERIPHERAL SESSION II | Hot Topics in Pulmonary Artery Disease
☐ Saturday Morning, ARCH Symposium

Heart Rhythm Symposium ONLY:

One-and-A-Half-Day Heart Rhythm Symposium Rates (Attendance Tuesday & Wednesday Morning, April 9th and 10th, ONLY)

- \$200 ☐ Physician, Non-Member of SCAI
\$175 ☐ Physician, Member of SCAI
\$0 ☐ Fellow / Resident (**Registration Fees Waived**)
\$50 ☐ Nurse / PA / Technician
\$125 ☐ Industry Representative
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