

State-of-the-Art ECHOCARDIOGRAPHY

28th ANNUAL

BACK BY
POPULAR DEMAND

**HALF-DAY CONGENITAL
HEART SYMPOSIUM**

Saturday, February 21, 2015
1:00 pm–5:00 pm

Main Course: February 21 – 24, 2015

Preconference Optional Sessions:

February 20 – 21, 2015 additional fee

**Hyatt Regency Scottsdale
Scottsdale, AZ**

Course Director:

Vera H. Rigolin, MD, FASE

Course Co-Director:

Steven Lester, MD, FASE

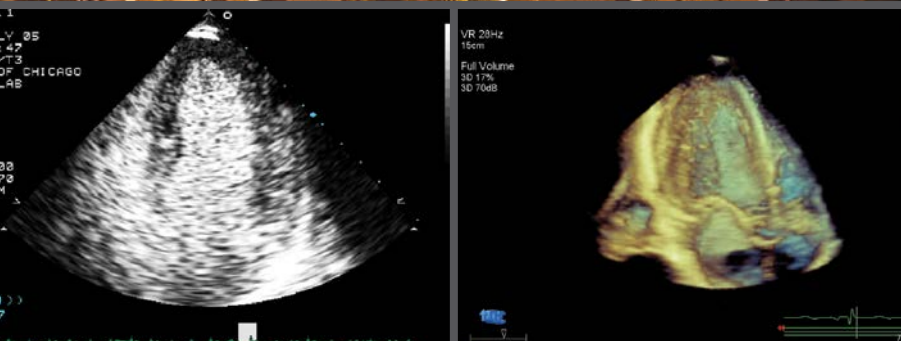
Learning Lab Co-Directors:

Roberto M. Lang, MD, FASE

Bijoy K. Khandheria, MD, FASE

Course Highlights

- Learning Lab:
 - Two days of hands on learning
- Maintenance of Certification (MOC) Session:
 - Maintain your ABIM board certification in a relaxed setting
- Special symposium on Valvular Heart Disease:
 - Latest trends in the treatment of valve disease
 - The novel uses of echo for the treatment of valvular heart disease
- Half-day session on congenital heart disease
- Update on new echo technologies including strain imaging and 3D echo
- Revisit the old standbys: heart failure, CAD, stress echo, pulmonary hypertension, right heart disease
- Cases, cases, cases



 **ASE** American Society of
Echocardiography

 **ASE** Foundation

Jointly Provided by ASE and the ASE Foundation

State-of-the-Art ECHOCARDIOGRAPHY

“I've learned a lot in a very friendly atmosphere. Great speakers, great colleagues, great hotel. Loved it all.”

*2014 State-of-the-Art
Echocardiography Attendee*



Program Information

Overview of State-of-the-Art Echocardiography

State-of-the-Art Echocardiography is a premier educational venue for cardiovascular ultrasound in clinical practice. This superbly rated meeting is filled to capacity year after year. Although the course is refocused yearly to ensure the most up to date information, topics will include quantitative echocardiography, valvular and ischemic heart disease, stress/contrast echocardiography, advances in imaging in coronary disease, and myopericardial diseases. A full-day Heart Valve Symposium will be held on Sunday, February 22, 2015, which will include echo innovations and applications for clinical practice.

Participants should have a practical knowledge of echocardiography to fully benefit from this program. The setting is ideal for participants to bring their families and take advantage of some vacation time.

Objectives

To present recent advances in the diagnosis and treatment of cardiovascular disease to a wide range of cardiovascular health care providers.

To present established and emerging cardiac ultrasound imaging modalities that can be used to provide optimal patient care.

To discuss the ASE guidelines in the context of case examples and clinical applications.

To present information that highlights the utility of an integrated and multidisciplinary approach to patient care.

To provide the opportunity for interaction between experts and practitioners, which will facilitate implementation of information presented into clinical practice.

Upon completion of this program, attendees should be better able to:

- Incorporate state-of-the art clinical applications of echocardiography/Doppler ultrasound into clinical decision-making
- Explain how to use color and spectral Doppler in a quantitative fashion
- Identify specific valvular lesions and understand the various medical, interventional and surgical options for treatment.
- Assess left and right ventricular function quantitatively
- Describe the value and pitfalls of contrast echo
- Recognize how to implement ASE guidelines in management of patients with valvular heart disease, systolic and diastolic dysfunction
- Apply knowledge of echocardiography in the care of patients with left ventricular assist devices and who have undergone heart transplantation

Who Should Attend

State-of-the-Art Echocardiography's program is designed for adult and pediatric cardiologists, cardiovascular surgeons, anesthesiologists, radiologists, nurses, sonographers and fellows in training. Participants should have a practical knowledge of echocardiography.

Accreditation and Designation

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint providership of the American Society of Echocardiography and the American Society of Echocardiography Education and Research Foundation. The American Society of Echocardiography is accredited by the ACCME to provide continuing medical education for physicians.

The American Society of Echocardiography designates this live activity for a maximum of 36.00 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

ASE designates the State-of-the-Art Echocardiography Learning Lab for a maximum of 13.25 hours, MOC (Maintenance of Certification) Session for a maximum of 3.75 hours, and a maximum of 25.25 hours for the Main Conference. Attendees must have registered for the Learning Lab and MOC Session to claim credit for those sessions.

- Main Conference = 25.25
- MOC + Main Conference = 29
- Learning Lab + Main Conference = 36

ARDMS, CCI, and Sonography Canada recognize ASE's certificates and have agreed to honor the credit hours toward their registry requirements for sonographers.

This educational activity has been awarded a maximum of 10 BSE re-accreditation points, with no more than 2 points provided per day of attendance.

The American Society of Echocardiography is committed to ensuring that its educational mission and all educational programs are not influenced by the special interests of any corporation or individual, and its mandate is to retain only those speakers whose financial interests can be effectively resolved to maintain the goals and educational integrity of the program. While a monetary or professional affiliation with a corporation does not necessarily influence a speaker's presentation, the Essential Areas and policies of the ACCME require that any relationships that could possibly conflict with the educational value of the program be resolved prior to the educational session and disclosed to the audience.

Learning Lab (additional fee)

A learning lab will be offered two full days this year on Friday, February 20th and Saturday, February 21st. This workshop requires separate registration and is a part of the total hours of educational content offered at the course. This intimate workshop features easy access to faculty members. Individual computer workstations are provided to teach each participant how to quantitate fundamental aspects of clinical echocardiography. The small group environment allows the opportunity for nearly private instruction from top practitioners in the field.

Maintenance of Certification (additional fee)

The Maintenance of Certification (MOC) Session will be a half-day session on Saturday, February 21, 2015. Upon completion registrants will be given access to an online module to complete to be awarded MOC credits. This session highlights several key topics areas through a study of clinical patient scenarios provided and analyzed by field experts. Guided by faculty moderators and audience response, topics covered will include cardiomyopathies, aortic regurgitation, endocarditis, mitral stenosis, Doppler, congenital heart disease, closure devices/device placement, image optimization, CRT, stress echocardiography and many more. Registrants for this session will be given access to an online module. Upon completion of this online program they will be awarded 10 MOC credits.

Fee

Your registration will be confirmed by email only. Registration fee includes continental breakfasts, breaks, lunches, reception, CME credits, and a memory stick containing course materials.

Cancellations

If you wish to cancel your participation in this course, your registration fee, less a \$100 administrative fee, will be refunded when written notification is received before Tuesday, January 22, 2015. No refunds will be made after Tuesday, January 22, 2015. No refund will be given for no-shows.

Registration for any ASE course is non-transferable to another participant or another course. In the event that an individual is unable to attend the conference due to inclement weather or chooses not to attend due to a health epidemic, ASE is unable to refund the conference fee. In the unlikely event the meeting/course is cancelled, ASE is responsible only for refund of the registration fee (minus any processing fee) and not for transportation, hotel accommodations or any miscellaneous expenses incurred by the participant.

Lodging

To secure your room at the Hyatt Regency Scottsdale, please call 888-421-1442 and state that you will be attending the State-of-the-Art Echocardiography program. The room rate is \$299 single/double a night. A deposit of one night's stay plus tax will be held at the time of reservation. Deposit will be forfeited for any cancellations occurring within 72 hours of arrival.

The room block is scheduled to be held until Monday, January 12, 2015, but may be sold out before this date. Therefore, we advise you to register for the program and reserve your lodging as soon as possible. A resort fee of \$15 per room per day will automatically be applied. This fee includes in-room wireless internet, access to fitness center, shuttle service to local areas, unlimited use of tennis courts, resort bicycles and golf bag storage. When you make your reservation, please be sure to ask about any additional fees, early departure fees, or cancellation penalties.

Transportation

The Phoenix Sky Harbor International (PHX) Airport is located 18 miles from the Scottsdale area, where the Hyatt Regency Scottsdale is located.

Invited Faculty

Course Director

Vera H. Rigolin, MD, FASE
Northwestern University, Chicago, IL

Course Co-Director

Steven Lester, MD, FASE
Mayo Clinic, Scottsdale, AZ

Learning Lab Co-Directors

Roberto M. Lang, MD, FASE
Past President, American Society of Echocardiography
University of Chicago, Chicago, IL

Bijoy K. Khandheria, MD, FASE
Past President, American Society of Echocardiography
Aurora Healthcare, Milwaukee, WI

Program Faculty

Robert Bonow, MD
Northwestern University, Chicago, IL

Keith A. Collins, MS, RDCS
University of Chicago Medical Center,
Chicago, IL

Bonnie J. Kane, BS, RDCS, FASE
Northwestern University, Chicago, IL

Christopher J. Kramer, BA, RDCS, FASE
Aurora Healthcare, Milwaukee, WI

Patrick McCarthy, MD
Northwestern University, Chicago, IL

Sabrina Phillips, MD, FASE
Mayo Clinic, Rochester, MN

Muhamed Saric, MD, PhD, FASE
New York University, New York, NY

Partho P. Sengupta, MD, DM, FASE
Mount Sinai Heart Medical Center,
New York, NY

Sanjiv J. Shah, MD
Northwestern University, Chicago, IL

Matt. M. Umland, RDCS, FASE
Aurora Healthcare, Milwaukee, WI



Schedule of Events

FRIDAY, FEBRUARY 20, 2015

7:00 am	Continental Breakfast
Learning Lab: A Road to Comprehensive Quantification Using ASE Guidelines (additional fee)	
8:00 am	Welcome and Introduction to the Classroom <i>B. Khandheria, R. Lang</i>
8:15 am	Introduction to the Software and Computer <i>M. Umland</i>
8:30 am	Cases in Chamber Quantification: LV and RV Dimensions, 2D and 3D LVEF, LA Volume <i>R. Lang, K. Collins</i>
9:00 am	Basic Doppler Calculations: VTI, SV, CO, CL, RSVP <i>B. Khandheria, M. Umland, B. Kane</i>
9:30 am	Diastolic Function 101: Cases to Evaluate <i>B. Khandheria, M. Umland</i>
10:00 am	Refreshment Break
10:15 am	Aortic Valve: Quantify Stenosis; Mean Gradient, Valve Area, TAVR Measurements <i>B. Khandheria, C. Kramer</i>
10:45 am	Aortic Valve: Quantify Regurgitation; Volume, ERO, Vena Contracta <i>R. Lang, K. Collins, B. Kane</i>
11:30 am	Test Your Measuring Skills: Interpret with the Faculty <i>All faculty</i>
12:00 pm	Question and Answer <i>All faculty</i>
12:15 pm	Lunch
1:30 pm	Mitral Valve: Quantify Stenosis; Mean Gradient, Valve Area, 2D and 3D <i>B. Khandheria, M. Umland, B. Kane</i>
2:00 pm	Mitral Valve: Quantify Regurgitation; Volume, ERO, Vena Contracta, PISA <i>B. Khandheria, C. Kramer</i>
2:30 pm	Myocardial Mechanics: Global Longitudinal Strain <i>R. Lang, C. Kramer</i>
3:15 pm	Refreshment Break
3:30 pm	Test Your 3D Cropping Skills <i>All faculty</i>
4:30 pm	Question and Answer <i>All faculty</i>
4:45 pm	Adjourn

SATURDAY, FEBRUARY 21, 2015

7:00 am	Continental Breakfast
Learning Lab: A Road to Comprehensive Quantification Using ASE Guidelines (additional fee)	
8:00 am	Cardio Oncology: What to Measure? How to Measure? <i>B. Khandheria, C. Kramer</i>
9:00 am	Prosthetic Heart Valves: In the Reading Room <i>B. Khandheria, M. Umland</i>

9:30 am	Tricuspid and Pulmonary Valves: Comprehensive Evaluation <i>R. Lang, K. Collins, B. Kane</i>
10:00 am	Refreshment Break
10:15 am	Left Ventricular Assist Device; What Are the Measurements, Cases <i>C. Kramer, M. Umland</i>
10:45 am	Selected Case Studies in 3D Quantification <i>R. Lang, K. Collins</i>
11:15 am	Mystery Cases <i>All faculty</i>
11:45 am	Question and Answer <i>All faculty</i>
12:00 pm	Lunch
1:00 pm	Let Us Read Together and Manage These Cases <i>B. Khandheria, C. Kramer</i>
2:30 pm	Grand Finale: Potpourri of Cases <i>All faculty</i>

MAINTENANCE OF CERTIFICATION (additional fee)

8:00 am	Maintenance of Certification by Case-Based Echocardiography <i>V. Rigolin, S. Shah, S. Lester</i>
10:00 am	Refreshment Break
10:15 am	Maintenance of Certification by Case-Based Echocardiography <i>V. Rigolin, S. Shah, S. Lester</i>
12:00 pm	Adjourn

SATURDAY, FEBRUARY 21, 2015

CONGENITAL HEART DISEASE SYMPOSIUM

1:00 pm	Rosetta Stone: An Echo Guide to Congenital Nomenclature <i>S. Phillips</i>
1:20 pm	Evaluation of Atrial Septal Defects <i>M. Saric</i>
1:40 pm	Evaluation of VSD, PDA, Anomalous Veins <i>M. Saric</i>
2:00 pm	Congenital Left Heart Obstructions I: Cor triatriatum, Supramitral Ring, Congenital Mitral Stenosis <i>S. Phillips</i>
2:20 pm	Congenital Left Heart Obstructive Lesions II: SubAS, Supravalvar AS, Coarctation <i>M. Saric</i>
2:40 pm	Refreshment Break
3:00 pm	Tetralogy of Fallot <i>S. Phillips</i>
3:20 pm	Ebstein's Anomaly <i>S. Phillips</i>
3:40 pm	Transposition of Great Arteries <i>M. Saric</i>

4:00 pm	Congenital Heart Disease & Pregnancy <i>S. Phillips</i>
4:20 pm	Percutaneous and Surgical Treatment of Congenital Heart Disease Case Presentations <i>B. Khandheria, M. Umland</i>
4:40 pm	Eisemenger Syndrome <i>S. Phillips</i>
4:50 pm	Coronary Fistula <i>S. Phillips</i>
5:00 pm	Gerbode Defect <i>S. Phillips</i>
5:10 pm	AV Canal <i>M. Saric</i>
5:20 pm	Adjourn

SUNDAY, FEBRUARY 22, 2015

7:00 am	Continental Breakfast
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VALVE SYMPOSIUM

8:00 am	AHA/ACC Valve Guidelines — What's New? <i>R. Bonow</i>
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MITRAL VALVE DISEASE *V. Rigolin, presiding*

Degenerative Mitral Valve Disease

8:30 am	2D and 3D Imaging of Degenerative MV Disease <i>S. Lester</i>
8:45 am	Surgical Treatment — How Does Echo Help? <i>P. McCarthy</i>
9:00 am	Percutaneous Treatment — Critical Role of Echo <i>V. Rigolin</i>
9:15 am	Case Presentations: Should This Patient Be Treated With Surgery, Clip or Watchful Waiting? <i>B. Khandheria, M. Saric, P. Sengupta</i>

10:00 am	Refreshment Break and Visit Exhibits
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Ischemic Mitral Valve Disease

10:30 am	Surgery for Ischemic MR: When to Repair vs. Replace <i>P. McCarthy</i>
10:50 am	Clinical Spectrum of Ischemic MR <i>R. Bonow</i>
11:05 am	Case Presentations: Should this Patient Be Treated With Valve Replacement, Repair, Clip or Medical Therapy <i>R. Lang, S. Lester, V. Rigolin</i>

TV VALVE DISEASE *R. Lang, presiding*

11:40 am	Anatomy and Function of the "Other" Valve <i>S. Phillips</i>
11:55 am	Surgical Considerations of Tricuspid Regurgitation <i>P. McCarthy</i>
12:15 pm	Case Presentations: TV Disease in Patient with MR – <i>B. Khandheria</i> TV Disease Due to Pulmonary Hypertension – <i>C. Kramer</i> TV Disease Due to Pacemaker – <i>R. Lang</i>

1:00 pm	Lunch and Visit Exhibits
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AORTIC VALVE DISEASE *S. Lester, presiding*

2:00 pm	2D and 3D Imaging of AS <i>B. Khandheria</i>
2:15 pm	Low Gradient, Low Output AS with Low and Normal EF <i>S. Lester</i>
2:35 pm	When Should a TAVR Be Considered? What Do the Guidelines Tell Us? <i>P. McCarthy</i>
3:00 pm	Echo Before, During and After TAVR — What Are the Critical Elements <i>M. Saric</i>
3:15 pm	Case Presentations: How Should This Patient Be Treated? AS in High Risk Patient – <i>B. Khandheria</i> AS in Patient with Past Chest Radiation – <i>P. Sengupta</i> Bicuspid AV – <i>S. Phillips</i>

4:00 pm	Refreshment Break and Visit Exhibits
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PROSTHETIC VALVES *V. Rigolin, presiding*

4:30 pm	Imaging Prosthetic Valves Using ASE Guidelines <i>V. Rigolin</i>
4:45 pm	Prosthetic Valve Dysfunction <i>S. Lester</i>
5:05 pm	Case Presentations: Prosthetic Valve Stenosis – <i>M. Umland</i> Patient Prosthesis Mismatch – <i>P. Sengupta</i> MV Perivalvular Leak – <i>V. Rigolin</i>

5:45 pm	Adjourn
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5:45 pm	Welcome Reception and Visit Exhibits
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MONDAY, FEBRUARY 23, 2015

6:30 am	Continental Breakfast and Visit Exhibits
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SUNRISE SESSION: ECHO IN SYSTEMIC DISEASE *M. Saric, presiding*

7:00 am	Amyloid <i>S. Shah</i>
7:15 am	Sarcoid <i>V. Rigolin</i>
7:30 am	Hemochromatosis <i>M. Saric</i>
7:45 am	Carcinoid <i>S. Phillips</i>

HEART FAILURE *S. Shah, presiding*

8:00 am	The Face of Heart Failure in 2015 <i>S. Shah</i>
8:20 am	Case Presentations: Patients with Low EF 2D Echo Assessment – <i>B. Kane</i> 3D Echo Assessment – <i>K. Collins</i> Strain Analysis – <i>P. Sengupta</i>

9:00 am	Case Presentations: How Do I Use Echo to Assess a Patient With an LVAD or Transplant? Normal LVAD – C. Kramer LVAD Complication – M. Umland Healthy Post Heart Transplant Patient: What to Look for with Echo – B. Khandheria Transplant Rejection – S. Shah
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10:00 am	Refreshment Break and Visit Exhibits
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HEART FAILURE
P. Sengupta, presiding

10:30 am	Heart Failure with Preserved EF: The Basics and Beyond S. Shah
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10:50 am	How Do I Use the ASE Guidelines to Measure Diastolic Function? R. Lang
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11:10 am	Demystifying Strain Imaging S. Lester
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11:30 am	Case Presentations: Hypertension – V. Rigolin Infiltrative Disease – S. Lester Where Strain Helped Me – P. Sengupta Where LV Mechanics Helped – S. Shah
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12:30 pm	Lunch and Visit Exhibits
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1:30 pm	ASE President's Address N. Weissman
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THE RIGHT VENTRICLE
V. Rigolin, presiding

1:45 pm	Debate: Anatomy and Function of the Right Ventricle — For or Against the ASE Guidelines For ASE Guidelines – R. Lang Against ASE Guidelines – S. Lester Audience: Cast Your Vote!
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2:15 pm	Echocardiography: A PA Catheter in a Box S. Lester
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2:35 pm	A Cardiologist's View of Pulmonary Hypertension S. Shah
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2:55 pm	Case Presentations: Primary Pulmonary Hypertension – M. Saric Connective Tissue Disease – S. Shah
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3:15 pm	Refreshment Break and Visit Exhibits
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CARDIO-ONCOLOGY
B. Khandheria, presiding

3:45 pm	Adverse Cardiac Effects of Chemotherapy B. Khandheria
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4:05 pm	Early Detection of Ventricular Dysfunction Using Strain P. Sengupta
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4:25 pm	Adverse Effects of Chest Radiation on the Heart V. Rigolin
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4:45 pm	Primary and Metastatic Cancers of the Heart M. Saric
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5:05 pm	Case Presentations: Chest Radiation Complication – V. Rigolin Breast Cancer Patient Needing Surveillance – P. Sengupta Anthracyclin Toxicity – B. Khandheria Pregnancy in a Patient with Past Cancer History – S. Phillips
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6:00 pm	Adjourn
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TUESDAY, FEBRUARY 24, 2105

6:30 am	Continental Breakfast
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SUNRISE SESSION: CONTRAST ECHO “HOW TO”
R. Lang, presiding

7:00 am	When and Why Do I Give Contrast? — ASE Guidelines K. Collins
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7:15 am	What Agents are Available? How Do They Differ? M. Umland
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7:30 am	How Do I Administer Contrast? B. Kane
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7:45 am	How Do I Prepare My Lab for a Contrast Emergency? C. Kramer
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CORONARY ARTERY DISEASE
M. Saric, presiding

8:00 am	Everything You Always Wanted to Know About Stress Echo S. Lester
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8:20 am	Case Presentations: CAD True Positive – K. Collins CAD False Negative – M. Umland CAD False Positive – C. Kramer Hemodynamic Stress Echo – B. Kane
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9:00 am	Contrast Echo: What is the Word About Safety R. Lang
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9:15 am	How Do I Set Up My Machine So That My Pictures Are Perfect? M. Umland
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9:30 am	Case Presentations: A Surprise in the Apex – B. Kane MI Complication – V. Rigolin Contrast with 3D Echo – K. Collins
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10:00 am	Refreshment Break and Visit Exhibits
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ATRIAL FIBRILLATION
B. Khandheria, presiding

10:30 am	The Anatomy and Echo Assessment of the Left Atrial Appendage B. Khandheria
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10:40 am	Percutaneous Left Atrial Appendage Closure — The Role of Echo V. Rigolin
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11:00 am	Case Presentations: How Contrast Helped Assess the LAA – R. Lang Lariat Device – V. Rigolin Watchman Device – M. Saric Surgical LAA Closure Failure – B. Khandheria
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1:00 pm	Adjourn
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28th Annual State-of-the-Art Echocardiography

February 22 – 24, 2015

Hyatt Regency Scottsdale, Scottsdale, AZ

Your State-of-the-Art Echocardiography registration fee includes continental breakfasts, breaks, lunches, reception, CME credits and a memory stick containing course materials.

Name: _____

First Name

Middle Initial

Last Name

Credential: MD DO PhD RN RCS RDCS Other

Institution: _____

Email Address: _____

(All correspondence regarding your registration including your confirmation will be sent to this email address.)

Which is your preferred mailing address? Work/Business Home

Street Address: _____

City: _____ State/Province: _____ Zip/Postal Code: _____ Country: _____

Telephone: _____ Fax: _____

If you need disability accommodations, please check here and advise us of your needs at least two weeks before the program.

Special Needs: ASE encourages participation by all individuals. If you have a disability or other specific needs, advance notification will help ASE to better serve you. Please contact ASE by email at sota@asecho.org or telephone at (919) 861-5574.

Special Dietary Needs: _____

Registration Fees: Please circle the registration type you would like to purchase

Upgrade to PREMIUM registration to get Access to the 28th Annual State-of-the-Art Echocardiography Conference Online Library <i>Does not include Preconference optional session registration.</i>	Early Bird		Regular/Onsite	
		Premium		Premium
ASE Physician Member	\$725	\$875	\$825	\$975
Physician Non-Member	\$825	\$975	\$925	\$1075
ASE Sonographer/Allied Health Member/Fellow Member	\$550	\$700	\$650	\$800
Sonographer/Allied Health Non-Member/Fellow Non-Member	\$650	\$800	\$750	\$900
	Regular		Premium	
One-day Rate: (only one day can be selected) Sunday, Monday, Tuesday, Wednesday)	\$250		\$400	
Preconference Optional Session Fees Attendees must register for this workshop in advance in order to attend due to limited seating available. Not included in Premium Registration.			ASE Member	Non-Member
Learning Lab February 20-21, 2015			\$475	\$595
Maintenance of Certification February 21, 2015			\$350	\$450

Payment Information

Payment must accompany this form.

Check (payable to American Society of Echocardiography in U.S. dollars drawn on a U.S. bank)

Credit Card: Visa MasterCard American Express

Cardholder's Name: _____

Card Number: _____ Expiration Date: _____

Credit Card Billing Address: _____

Register online and receive an immediate receipt! www.asecho.org/SOTA

American Society of Echocardiography, P.O. Box 890082, Charlotte, NC 28289-0082, Telephone: (919) 861-5574, Fax: (919) 882-9900, Email: registrar@asecho.org



ASE Foundation

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**Learning Lab
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**Main Conference
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Register now at www.asecho.org/SOTA