State-of-the-Art ECHOCARDIOGRAPHY

31st ANNUAL

ADVANCE PROGRAM

February 17 – 20, 2018

Optional Learning Lab
February 16–17, 2018

Paradise Point Resort & Spa
San Diego, CA

NEW LOCATION, Same Great Course!

Case-based Approach to Clinical Echocardiography
Incorporate New Guidelines into Clinical Practice

Course and Learning Lab Director
Bijoy K. Khandheria, MD, FASE
Past President, ASE
Aurora Health Care
Milwaukee, WI

Course Co-Director
William A. Zoghbi, MD, FASE
Past President, ASE
Houston Methodist Hospital
Houston, TX

Learning Lab Co-Director
Roberto M. Lang, MD, FASE
Past President, ASE
University of Chicago Medical Center
Chicago, IL

Register now at ASEcho.org/SOTA

Jointly Provided by ASE and the ASE Foundation
Overview of State-of-the-Art Echocardiography

This premier educational program from the American Society of Echocardiography is its 31st year. In 2018, this well-established course is moving from its traditional home in Arizona to beautiful San Diego, California.

This year’s program follows the themes of structural heart disease, myocardial and pericardial disease, coronary artery disease, and interventional echocardiography. During the course over 100 cases will be presented by the expert faculty to highlight what echo brings to each theme, help clinicians recognize and avoid common errors and pitfalls, and how to apply the guidelines in a practical manner. Workshops on TAVR and TMVR, the two emerging therapeutic approaches for valvular heart disease, will be a highlight of this course.

The faculty consists of recognized leaders in the field of echocardiography acclaimed for their teaching abilities. Participants will have the opportunity to interact with the faculty one-on-one in the Computer-Based Learning Lab featuring advanced hemodynamics, 3D, and myocardial strain imaging including plenty of case studies to practice. Live imaging demonstrations will focus on acquisition techniques for 3D and myocardial strain imaging.

TAVR and TMVR Workshop

A transcatheter aortic and mitral valve replacement workshop on Saturday afternoon offers an in-depth exploration of the use of echocardiographic imaging in valve disease. As patients become more familiar with valve disease and intervention and more centers are performing these complicated procedures, it is important for practitioners to become more comfortable with diagnosis, intervention, and monitoring.

Learning Lab Session (Additional Fee Required)

A learning lab will be offered for a full day on Friday, February 16 and a half day on Saturday, February 17, 2018. Separate registration is required and this session is included in the total hours of educational content offered at the course.

Limited to 80 registrants, this intimate workshop allows 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.

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

The American Society of Echocardiography is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The American Society of Echocardiography designates this live activity for a maximum of 33.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity. Successful completion of this CME activity enables the participant to earn up to 33 MOC points in the American Board of Internal Medicine’s (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity.

San Diego

California’s second largest city and the United States’ eighth largest, San Diego is renowned for its idyllic climate, 70 miles of pristine beaches, and a dazzling array of world-class family attractions. Popular attractions include the world-famous San Diego Zoo and San Diego Zoo Safari Park, SeaWorld San Diego, and LEGOLAND California. With an average temperature of 72 degrees year-round, San Diego offers an expansive variety of things to see and do, appealing to guests of all ages from around the world.

Paradise Point Resort & Spa

Paradise Point, San Diego’s island resort, is a private 44-acre island tucked away on gentle Mission Bay, minutes from the heart of downtown San Diego. The California beach bungalow-style guest rooms amidst lush, tropical gardens, and meandering lagoons is the perfect Southern California resort. You are sure to relax comfortably in the tranquil bayside bungalows, featuring breezy patios with striking views.

Paradise Point features one mile of sandy beach next door to SeaWorld. Scattered across the island, you will find plenty to do with five swimming pools, beach bonfire pits, a marina, five dining venues, and an award-winning spa.

ASE has secured a block of rooms at a rate of $234 a night. Rooms reserved in the ASE room block will receive the Passport to Paradise, a resort value program that includes high-speed wireless or hard-wired guest room internet, unlimited use of the fitness center, all local and domestic phone calls, and use of guest recreation items such as bocce ball, tennis, basketball, horseshoes, croquet, and ping pong. To make your reservations, please call 800-344-2626 before January 9 to get this special price and the Passport to Paradise.

Networking Reception

ASE cordially invites you and your guests to the 31st Annual State-of-the-Art of Echocardiography Attendee Reception on Monday evening, February 19. This casual reception offers you the perfect opportunity to meet faculty, and visit with exhibitors, friends, and colleagues.
Invited Faculty

Course and Learning Lab Director
Bijoy K. Khandheria, MD, FASE
Past President, ASE
Aurora Health Care
Milwaukee, WI

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Houston, TX

Learning Lab Co-Director
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Past President, ASE
University of Chicago Medical Center
Chicago, IL

Faculty
Jeroen J. Bax, MD, PhD
Leiden University Medical
Leiden, Netherlands

Anthony N. DeMaria, MD, FASE
Past President, ASE
University of California San Diego
La Jolla, CA

Rebecca T. Hahn, MD, FASE
Columbia University Medical Center
New York, NY

Judy W. Hung, MD, FASE
Massachusetts General Hospital
Boston, MA

Chris J. Kramer, ACS, RDGS, FASE
Aurora Health Care
Milwaukee, WI

Eric Kruse, RDGS, RVT, FASE
University of Chicago Medical Center
Chicago, IL

Steven J. Lester, MD, FASE
Mayo Clinic Arizona
Scottsdale, AZ

Stephen H. Little, MD, FASE
Houston Methodist Hospital
Houston, TX

Raj Makkar, MD
Cedars-Sinai Medical Center
San Diego, CA

Vera H. Rigolin, MD, FASE
President, ASE
Northwestern Medicine
Chicago, IL

David R. Rubenson, MD, FASE
Scripps Clinic
San Diego, CA

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

Matt M. Umland, ACS, RDGS, FASE
Aurora Health Care
Milwaukee, WI

Sarah M. Roemer, BS, RDGS
Aurora Health Care
Milwaukee, WI

Associate Faculty
Denise Ignatowski, BS, RDGS
Aurora Health Care
Milwaukee, WI

Robert A. Khandheria, MD, FASE
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Sarah M. Roemer, BS, RDGS
Aurora Health Care
Milwaukee, WI

FRIDAY, FEBRUARY 16, 2018

7:00 AM  Registration and Breakfast

LEARNING LAB (additional fee required)
Chairs: B. Khandheria, R. Lang

8:00 AM  Introduction to Learning Lab and Computers
B. Khandheria, R. Lang, M. Umland

8:30 AM  Chamber Quantification Guidelines: Left Ventricle, Left Atrial, Right Ventricle
D. Ignatowski, E. Kruse, R. Lang, S. Roemer

10:00 AM  Refreshment Break

10:15 AM  Advanced Hemodynamics including Diastolic Function and Speckle
B. Khandheria, C. Kramer, M. Umland

12:15 PM  Lunch for Learning Lab Attendees

1:15 PM  Myocardial and Pericardial Disease
B. Khandheria, C. Kramer, M. Umland

2:45 PM  Refreshment Break

3:00 PM  4D - Basic Acquisition, Cropping and Optimization
C. Kramer, E. Kruse, R. Lang

4:30 PM  Case Studies
D. Ignatowski, B. Khandheria, C. Kramer, E. Kruse, R. Lang,
S. Roemer, M. Umland

5:00 PM  Adjourn

SATURDAY, FEBRUARY 17, 2018

7:00 AM  Registration and Breakfast

LEARNING LAB (additional fee required)
Chairs: B. Khandheria, R. Lang

8:00 AM  Valvular Stenosis: How to Measure and Avoid Errors
B. Khandheria, C. Kramer, S. Roemer

9:30 AM  Valvular Regurgitation: Effective Regurgitant Orifice Area, Etiology
D. Ignatowski, R. Lang, M. Umland

10:45 AM  Refreshment Break

11:00 AM  Right Heart: Tricuspid Annular Plane Systolic Excursion, Strain, Pulmonary Artery Pressure
B. Khandheria, C. Kramer, S. Roemer

12:00 PM  Question and Answer

12:15 PM  Lunch for Learning Lab Attendees

MAIN CONFERENCE

OPENING SESSION: DIASTOLIC FUNCTION, PERICARDIAL DISEASE
Moderators: J. Hung, S. Lester

1:00 PM  Welcome
B. Khandheria, W. Zoghbi

1:15 PM  President’s Welcome
V. Rigolin

1:30 PM  Case Studies: Applying New ASE Guidelines
W. Zoghbi
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>1:50 PM</td>
<td>Case Studies: Where It Fails or Does It?</td>
<td>S. Lester</td>
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<tr>
<td>2:10 PM</td>
<td>Case Studies: Constrictive Pericarditis</td>
<td>B. Khandheria</td>
</tr>
<tr>
<td>2:30 PM</td>
<td>Case Studies: Pericardial Effusion, Fat Pad</td>
<td>J. Hung</td>
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<tr>
<td>2:50 PM</td>
<td>Question and Answer</td>
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<tr>
<td>3:00 PM</td>
<td>Refreshment Break and Visit Exhibits</td>
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**SUNDAY, FEBRUARY 18, 2018**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>7:00 AM</td>
<td>Registration</td>
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<tr>
<td>7:30 AM</td>
<td>Breakfast and Visit Exhibits</td>
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**STRUCTURAL HEART DISEASE: AORTIC STENOSIS**

Moderators: J. Bax, R. Hahn

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:00 AM</td>
<td>Case Studies: Step by Step Evaluation of Aortic Stenosis Using New ASE Guidelines</td>
<td>B. Khandheria</td>
</tr>
<tr>
<td>8:20 AM</td>
<td>Case Studies: Low Output, Low LVEF, Low Gradient but is it Severe Aortic Stenosis?</td>
<td>W. Zoghbi</td>
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<tr>
<td>8:40 AM</td>
<td>Case Studies: Normal LVEF, Severe Aortic Stenosis but Low Gradient: Why Strain Helps</td>
<td>S. Little</td>
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<tr>
<td>9:00 AM</td>
<td>Compare and Contrast Guidelines on Both Sides of the Pond. Does it Really Matter? Make it Simple</td>
<td>J. Bax</td>
</tr>
<tr>
<td>9:20 AM</td>
<td>TAVR is Here to Stay but for Whom? Where's the Data?</td>
<td>R. Makkar</td>
</tr>
<tr>
<td>9:40 AM</td>
<td>Case Studies: You Want What? Here is What I Can Provide in Intraprocedural TEE/TTE During TAVR</td>
<td>V. Rigolin</td>
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<tr>
<td>10:00 AM</td>
<td>Question and Answer</td>
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<tr>
<td>10:15 AM</td>
<td>Refreshment Break and Visit Exhibits</td>
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**STRUCTURAL HEART DISEASE: AORTIC REGURGITATION**

Moderators: S. Little, W. Zoghbi

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<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tr>
<td>11:05 AM</td>
<td>Common Errors to Avoid, Sonographers Pay Attention. Readers Watch Out!</td>
<td>M. Umland</td>
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<tr>
<td>11:25 AM</td>
<td>Case Studies: Morphology of Aortic Regurgitation, Bicuspid Aortic Valve</td>
<td>B. Khandheria</td>
</tr>
<tr>
<td>11:45 AM</td>
<td>Case Studies: Morphology of Aortic Regurgitation, Root Involvement</td>
<td>V. Rigolin</td>
</tr>
<tr>
<td>12:05 PM</td>
<td>Unusual Causes of Aortic Regurgitation: Aortitis, Liebman Sach, Root + Valve</td>
<td>J. Hung</td>
</tr>
<tr>
<td>12:25 PM</td>
<td>Question and Answer</td>
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<tr>
<td>12:45 PM</td>
<td>Lunch and Visit Exhibits</td>
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**STRUCTURAL HEART DISEASE: TRICUSPID VALVE**

Moderators: C. Kramer, R. Lang

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>1:45 PM</td>
<td>Imaging the Tricuspid Valve</td>
<td>R. Lang</td>
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<tr>
<td>2:05 PM</td>
<td>Percutaneous Tricuspid Valve: Multimodality Imaging</td>
<td>J. Bax</td>
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<tr>
<td>2:25 PM</td>
<td>Case Studies: Common Tricuspid Valve Lesions</td>
<td>C. Kramer</td>
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<tr>
<td>2:50 PM</td>
<td>Question and Answer</td>
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<td>3:00 PM</td>
<td>Refreshment Break and Visit Exhibits</td>
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</table>

**STRUCTURAL HEART DISEASE: MITRAL REGURGITATION**

Moderators: R. Lang, M. Umland

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<tr>
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<tr>
<td>3:30 PM</td>
<td>Case Studies: Quantification of Severity of Mitral Regurgitation with New ASE Guidelines</td>
<td>W. Zoghbi</td>
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<tr>
<td>3:45 PM</td>
<td>Morphology of the Mitral Valve: 2D, 3D, 4D</td>
<td>R. Lang</td>
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<tr>
<td>4:00 PM</td>
<td>Case Studies: Mitral Valve Causing Mitral Regurgitation: MVP, Flail Mitral Valve, Degenerative MR</td>
<td>J. Hung</td>
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<td>4:15 PM</td>
<td>Case Studies: Pickelhaube Sign in Mitral Valve Prolapse</td>
<td>D. Ignatowski</td>
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<td>4:30 PM</td>
<td>Transcatheter Mitral Valve Repair: State of the Art 2018</td>
<td>R. Makkar</td>
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<td>4:45 PM</td>
<td>Hypereosinophilia and Mitral Valve, Parachute Mitral Valve</td>
<td>M. Umland</td>
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<td>5:00 PM</td>
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Schedule of Events

MONDAY, FEBRUARY 19, 2018

6:45 AM Registration
7:45 AM SONOGRAPHERS WORKSHOP: 3D/4D, VALVES, STRAIN
How To Acquire and Measure 3D/4D, Valves, Strain
D. Ignatowski, C. Kramer, E. Kause, S. Roemer
8:00 AM STRUCTURAL HEART DISEASE: LEFT ATRIAL APPENDAGE CLOSURE, PFO CLOSURE
Moderators: D. Rubenson, M. Saric
Case Studies: Left Atrial Appendage, Thrombus, Spontaneous Echo, Contrast
D. Rubenson
Case Studies: Role of TEE in Left Atrial Appendage Occluder Device Placement (Pre and Intraprocedure)
B. Khandheria
Case Studies: Oops, What Went Wrong Here? Thrombus On or Leak Around the Device?
M. Saric
Patent Foramen Ovale: Diagnosis and Treatment: Master Clinician and Former Editor Perspective
A. DeMaria
Case Studies: 2D/3D TEE in Evaluation of Atrial Septum
R. Lang
Case Studies: Closure of Paravalvular Regurgitation
R. Hahn
Question and Answer
10:45 AM Refreshment Break and Visit Exhibits

CORONARY ARTERY DISEASE
Moderators: J. Hung, S. Lester
11:15 AM Regional Wall Motion Abnormality: I Present, You Diagnose
S. Little
11:35 AM Case Studies: Complications of Myocardial Infarction
J. Hung
11:55 AM Myocardial Contrast Echocardiography: State-of-the-Art 2018
A. DeMaria
12:15 PM Case Studies: Contrast Enhanced Imaging
W. Zoghbi
12:30 PM Pitfalls: Contrast Enhanced Imaging
S. Lester

12:45 PM Question and Answer
1:00 PM Lunch and Visit Exhibits

MYOCARDIAL DISEASE, CARDIOMYOPATHY
Moderators: B. Khandheria, S. Little
2:00 PM Hypertrophic Cardiomyopathy: State-of-the-Art 2018
B. Khandheria
2:20 PM Variants of Hypertrophic Cardiomyopathy: Lateral Wall, Hypertrophy Papillary Muscle, Mid Ventricular
S. Lester
2:40 PM Case Studies: Thick Walls, Is this Hypertrophic Cardiomyopathy?
M. Umland
3:00 PM Case Studies: Athlete’s Heart
R. Lang
3:20 PM Case Studies in Systemic Illness and the Heart: Sarcoid, Hemachromatosis, Hypereosinophilia
M. Saric
3:40 PM Right Ventricular Dysplasia, Right Ventricular Hypertrophy Due To Pulmonary Hypertension
S. Little
4:00 PM Common Adult Congenital Heart Disease: Atrial Septal Defect, Ventricular Septal Defect, Ebstein
M. Saric
4:30 PM Question and Answer
4:45 PM – 5:45 PM Member Reception

TUESDAY, FEBRUARY 20, 2018

7:00 AM Registration
7:30 AM Breakfast and Visit Exhibits

POTPOURRI
Moderator: S. Little
8:00 AM Cardio-Oncology: 2018
J. Hung
8:20 AM Sonographer’s Guide to Evaluation of Right Ventricle in Pulmonary Hypertension
S. Roemer
8:40 AM Case Studies: Endocarditis
S. Little
9:00 AM Case Studies: Disease of Aorta: Marfan, Dissection, Aortic Atheroma
M. Saric
9:20 AM Refreshment Break and Visit Exhibits
9:50 AM Case Studies: LVAD
C. Kramer
10:10 AM Case Studies: LVNC
M. Umland
10:30 AM Closing Remarks
B. Khandheria, W. Zoghbi
11:00 AM Adjourn
Register Online at ASEcho.org/SOTA

31st Annual State-of-the-Art Echocardiography
February 17 – 20, 2018
Paradise Point Resort & Spa, San Diego, CA

Your State-of-the-Art Echocardiography registration fee includes breakfasts, breaks, lunches, a reception, access to course materials, and a maximum of 33 CME credits and MOC points.

<table>
<thead>
<tr>
<th>Name:</th>
<th>Credential: MD</th>
<th>DO</th>
<th>PhD</th>
<th>RN</th>
<th>RCS</th>
<th>RDCS</th>
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(ALL CORRESPONDENCE REGARDING YOUR REGISTRATION INCLUDING YOUR CONFIRMATION WILL BE SENT TO THIS EMAIL ADDRESS.)

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<thead>
<tr>
<th>City:</th>
<th>State/Province:</th>
<th>Zip/Postal Code:</th>
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<tbody>
<tr>
<td>Telephone:</td>
<td>Fax:</td>
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ASE encourages participation by all individuals. If you have a disability or other specific needs, including dietary, advance notification will help ASE better serve you. Please contact ASE by email at SOTA@asecho.org or telephone at 919-861-5574.

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

<table>
<thead>
<tr>
<th>Registration Type</th>
<th>Through January 17, 2018</th>
<th>After January 17, 2018</th>
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</thead>
<tbody>
<tr>
<td>ASE Physician Member</td>
<td>$775</td>
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<tr>
<td>Physician Nonmember*</td>
<td>$925</td>
<td>$1,025</td>
</tr>
<tr>
<td>ASE Sonographer/Allied Health Member/Fellow Member</td>
<td>$575</td>
<td>$675</td>
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<tr>
<td>Sonographer/Allied Health Nonmember/Fellow Nonmember*</td>
<td>$725</td>
<td>$825</td>
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<tr>
<td>One-day Rate: (only one day can be selected)</td>
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<tr>
<td>Saturday, Sunday, Monday, Tuesday</td>
<td>$250</td>
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</table>

Preconference Optional Session Fees
Attendees must register for this workshop in advance in order to attend due to limited seating available.

<table>
<thead>
<tr>
<th>Learning Lab: February 16-17, 2018</th>
<th>ASE Member</th>
<th>Nonmember</th>
</tr>
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<tbody>
<tr>
<td>$450</td>
<td>$550</td>
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* This registration fee includes ASE membership through December 31, 2018. Membership is only available to those who have never been a member of ASE.

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: CVC #: 

Registration cancellation fees may apply and ASE reserves the right to determine if a refund is possible. Please see the full cancellation policy online at ASEcho.org/SOTA.
State-of-the-Art
ECHOCARDIOGRAPHY

Paradise Point Resort & Spa
San Diego, CA

February 17 – 20, 2018

Optional Learning Lab Session
(Additional Fee Required)
February 16–17, 2018

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