ASCeXAM/ReASCE REVIEW COURSE
The most comprehensive review to help you prepare for the NBE certification examinations.

20th ANNUAL

FINAL PROGRAM
May 4-7, 2019
Marriott Copley Place
Boston, MA

Course Director
Roberto M. Lang, MD, FASE
Past President, ASE
University of Chicago Medical Center
Chicago, IL

Course Co-Director
Vera H. Rigolin, MD, FASE
Immediate Past President, ASE
Northwestern Medicine
Chicago, IL

Featuring:
- Practice Board Exam Questions
- Free Access to Online Lecture Recordings
- New Faculty and Presentations

Jointly Provided by ASE and the ASE Foundation
Welcome Message

Welcome to the 20th Annual ASCeXAM/ReASCE Review Course designed by ASE as a preparatory course for the National Board of Echocardiography, Inc.™ (NBE) ASCeXAM® and ReASCE® examinations. This course will cover all aspects of cardiovascular ultrasound essential to pass these examinations, including physics, valvular heart disease, strain and 3D imaging, contrast echocardiography, ischemic heart disease, congenital heart disease, and much more.

This year our expert faculty will deliver excellent reviews on the most important topics of contemporary echocardiography and also present multiple ASCeXAM “type” questions at the end of each session. We believe that these question and answer sessions will be valuable to familiarize you with the echo-board exam. As in other years, you will have the unique opportunity to interact and ask questions of our faculty.

The faculty will emphasize teaching by using multiple illustrative cases, case studies, lectures, and interactive sessions to help prepare you for the ASCeXAM® or ReASCE® examinations. The great majority of participants in this course have successfully passed the ASCeXAM® or ReASCE® examinations. To enhance the learning experience, an audience response system and question and answer sessions will facilitate faculty interaction and self-guided learning.

You asked and we delivered! A digital copy of the recorded lectures will be available online 3–4 weeks after the course. This is an exceptional study guide as you prepare for the exam. You will be notified by email when the library of recordings is available to you.

I hope you will take advantage of this opportunity to ask the faculty questions and network with the other attendees and exhibitors. The Marriott Copley Place is set in the heart of downtown and within walking distance to many attractions, including the chic boutiques and restaurants of Newbury Street and the Prudential Center, Fenway Park, Copley Square, and Boston Common.

Please let me know if you need anything while you are here. I look forward to meeting and spending time with you in the coming days. If you have any ideas on how to further improve this course, please let me know.

Faculty

Invited Faculty

Course Director

Roberto M. Lang, MD, FASE
Past President, ASE
University of Chicago Medical Center
Chicago, IL

Course Co-Director

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

Expert Faculty

Amr E. Abbas, MD, FASE
Beaumont Health System
Berkley, MI

Karima Addetia, MD
University of Chicago Medical Center
Chicago, IL

Gerard P. Aurigemma, MD, FASE
University of Massachusetts Medical School
Worcester, MA

Sidney K. Edelman, PhD
ESP Ultrasound
The Woodlands, TX

Benjamin W. Eidem, MD, FASE
Mayo Clinic
Rochester, MN

Martin G. Keane, MD, FASE
Lewis Katz School of Medicine at Temple University
Philadelphia, PA

Itzhak Kronzon, MD, FASE
Lenox Hill Hospital
New York, NY

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

Robert A. Levine, MD
Massachusetts General Hospital
Boston, MA

Sunil V. Mankad, MD, FASE
Mayo Clinic
Rochester, MN

Jae K. Oh, MD, FASE
Mayo Clinic
Rochester, MN

Pravin Patil, MD, FASE
Lewis Katz School of Medicine at Temple University
Philadelphia, PA

Sabrina D. Phillips, MD, FASE
Mayo Clinic
Jacksonville, FL

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

Roberto M. Lang, MD, FASE
Course Director
Past President, ASE
University of Chicago Medical Center
Chicago, IL
Overview of the ASCeXAM/ReASCE Review Course

ASE has specifically designed the ASCeXAM/ReASCE Review Course as a preparatory course for the National Board of Echocardiography, Inc.™ (NBE) ASCeXAM® and ReASCE® examinations. Lectures given will emphasize illustrative cases.

This Review Course covers all aspects of cardiovascular ultrasound essential to these examinations, including physics, valvular heart disease, strain and 3D imaging, contrast echocardiography, ischemic heart disease, heart failure, congenital heart disease, and more.

The expert faculty will use case studies, lectures, and interactive sessions to help prepare attendees for the ASCeXAM® or ReASCE® examinations. An audience response system and question and answer sessions will facilitate faculty interaction and self-guided learning.

The ASCeXAM/ReASCE Review Course gives attendees the unique opportunity to interact with and ask questions of the expert faculty. Attendees will receive access to the presentation website that will include lectures released by faculty in PDF format. In addition, attendees will receive the recorded lectures from this course.

Target Audience

This course is designed for physicians interested in sitting for the ASCeXAM® (Examination of Special Competence in Adult Echocardiography) or the ReASCE® (Recertification Examination of Special Competence in Adult Echocardiography), as well as physicians and sonographers interested in a broad review of cardiovascular ultrasound.

Learning Objectives

Upon completion of this course, participants should be better able to:

- Explain the essential physical principles of cardiac ultrasound.
- Recognize common ultrasound artifacts and their genesis.
- Estimate systolic function using standard M-mode and 2D echocardiography, as well as newer modalities such as strain imaging and 3D echocardiography.
- Identify and quantitate valvular heart disease severity.
- Describe the application of Doppler in the assessment of hemodynamics and diastolic function, and heart failure.
- Perform clinically relevant calculations of valve areas and intracardiac pressures.
- Explain proven techniques for interpreting stress echocardiographic examinations.
- Differentiate features of cardiac tamponade, constrictive pericarditis, and restrictive cardiomyopathy.
- List appropriate applications of echocardiography.
- Recognize newer applications of echocardiography such as myocardial contrast and 3D echocardiography.
- Explain the utility of Doppler echocardiography in disease of the Aorta.

Disclaimer

The information provided during this CME activity is for continuing education purposes only and is not meant to substitute for the independent medical judgment of a healthcare provider relative to diagnostic and treatment options of a specific patient’s condition.

Online Lecture Recordings

This year all online recordings are included with your course registration. You will be notified by email when the library of lectures has been posted to ASEUniversity.org. Look for notification about one month after the conclusion of the course.

Why take the ASCeXAM® or ReASCE® Examinations?

NBE administers the ASCeXAM® and ReASCE® examinations to allow physicians to test and demonstrate their knowledge of echocardiography based on an objective standard. The ASCeXAM® is the Examination of Special Competence in Adult Echocardiography and is intended for those who wish to demonstrate special competence in all areas of echocardiography. The ReASCE® is the Recertification Examination of Special Competence in Adult Echocardiography designed specifically for those who have previously passed the ASCeXAM®. The purpose of ReASCE® is to promote continued excellence in all areas of echocardiography.

Passing these examinations is mandatory when applying for and maintaining NBE certification in any or all of the following areas: transthoracic echocardiography, transesophageal echocardiography, or stress echocardiography.

The examinations are given at testing centers throughout the United States. The test will consist of one case-oriented block and three multiple choice blocks covering the following content areas:

- physical principles of ultrasound;
- valvular heart disease;
- ventricular size and function, coronary artery disease, cardiomyopathies;
- congenital heart disease and fetal echocardiography;
- cardiac masses, pericardial disease, myocardial contrast, and newer applications of echocardiography.

Questions will test knowledge of M-mode, 2D and Doppler echocardiography, transesophageal echocardiography, contrast, and stress echocardiography. The case-oriented block will last up to 1½ hours while the other three blocks will last up to 60 minutes per block.

More details concerning these examinations can be found at EchoBoards.org.
Accreditation & Designation

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

ASE designates this live activity for a maximum of 32.50 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 32.50 MOC points in the American Board of Internal Medicine’s (ABIM) Maintenance of Certification (MOC) program and/or The American Board of Anesthesiology® (ABA) Maintenance of Certification in Anesthesiology Program® or MOCA®. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is ASE’s responsibility to submit participant completion information to ACCME for the purpose of granting ABA MOCA and/or ABIM MOC points.

Daily breakdown of CME credits:

Saturday, May 4 = 6.0 hours
Sunday, May 5 = 9.25 hours
Monday, May 6 = 10.25 hours
Tuesday, May 7 = 7.0 hours

The ACCME and the European Board of Accreditation in Cardiology (EBAC) recognize each other’s accreditation systems as substantially equivalent. To obtain EBAC credit for participation in this activity, submit evidence of participation directly to EBAC (www.ebac-cme.org).

The European Union of Medical Specialists (UEMS)-European Accreditation Council for Continuing Medical Education (EACCME) has an agreement of mutual recognition of continuing medical education (CME) credit with the American Medical Association (AMA). European physicians interested in converting AMA PRA Category 1 Credit™ into European CME credit (ECMEC) should contact the UEMS (www.uems.eu).

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

All or a portion of this educational activity may meet the CME requirement for IAC Echocardiography accreditation.

This activity is eligible for Section 1 credits in the Royal College of Physicians and Surgeons of Canada’s Maintenance of Certification (MOC) Program. Participants must log into MAINPORT to claim this activity.

Disclosure

ASE 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. In accordance with these policies, ASE implemented mechanisms prior to the planning and implementation of this CME activity to identify and resolve conflicts of interest for all individuals in a position to control content. Disclosure information is referenced and can be found on page 11 of this program.

How to Obtain CME

To claim your CME for the Review Course, please follow the steps below using your Mozilla Firefox, Google Chrome, or Safari browser. Internet Explorer will not work. The deadline to claim credit is June 8, 2019.

ASE Members:

1. Go to ASEcho.org and log in to the Member Portal with your username (email) and password.
   a. If you forget your password, simply click “Retrieve” under the login.
2. Click on Education/ASEUniversity. This will take you directly to your ASEUniversity profile.

Nonmembers:

1. Go to ASEUniversity.org.
2. Log into your existing account or create a new one.

To Claim Credit:

3. Click Add Access Code on the left sidebar and enter the code, “REVIEW2019”
4. Click CE Information tab and Take Exam button to claim your CME credit. CME credits are not earned until the entire evaluation has been completed.
5. Your certificate will be available for immediate download and can also be found under My Account in the My Transcripts section.

Remember to enter your ABIM and/or ABA number and birthdate if you choose to have MOC and/or MOCA points for this meeting submitted to ABIM and/or ABA. There is a space for this information on the first page of the evaluation.
Attendee Information and Regulations

Registration Location and Hours
Attendee registration is located on the 4th floor at Registration Desk A, Ballroom Pre-Function Space.

- Friday, May 3, 2019: 3:00 PM – 6:00 PM
- Saturday, May 4, 2019: 10:30 AM – 6:30 PM
- Sunday, May 5, 2019: 6:30 AM – 6:30 PM
- Monday, May 6, 2019: 6:30 AM – 7:30 PM
- Tuesday, May 7, 2019: 6:30 AM – 3:30 PM

Food Functions
On Saturday, May 4, there will be an afternoon refreshment break in Gloucester Ballroom (3rd floor). ASE will provide continental breakfast and coffee breaks for registered attendees in Gloucester Ballroom from 6:30 AM until the start of the session on Sunday, Monday, and Tuesday mornings. Please refer to the program schedule for the times of the daily coffee breaks.

Lunch will be provided for attendees in Gloucester Ballroom, Sunday, May 5 through Tuesday, May 7. Lunch times vary, so please refer to the program schedule for times.

Marriott Copley Place Dining Options
- **Champions:** This sports bar is a sports lover’s dream. A wall of TVs airs your favorite sporting action, as you enjoy American cuisine and tasty drinks. It’s a Back Bay restaurant favorite of locals and travelers alike. Open for breakfast, lunch, and dinner.
- **Connexion Lounge:** Meet up with colleagues or unwind after a busy day in the Connexion Lounge. This comfortable restaurant has a welcoming, relaxed vibe and is open daily for drinks or casual dinner.

In addition, Marriott Copley Place is located less than a mile away from many other high quality restaurants right in the heart of downtown Boston.

Internet Access
Attendees of the course receive complimentary internet in their guest rooms, the meeting room, lobby, and other public areas at Marriott Copley Place.

Mobile Device Use
We encourage you to use your mobile device to download the new ASE Courses app. After you have downloaded the app, you will have access to the entire meeting program at your fingertips. You can also use the app to ask questions during the sessions you attend. Please remember to turn your mobile device to silent or vibrate mode. Search “ASE Courses” in the Google Play and Apple Stores to download.

Safety
Audience seating is on a first come, first served basis. According to fire code, a session must be closed if the room fills to capacity. Inappropriate behavior or undesirable conduct, including, but not limited to, verbal or physical abuse, whether threatened or performed, will not be permitted or tolerated. You must wear your name badge at all times when attending the session or events.

Photography/AV Policy
No person may record any portion of the 20th Annual ASCeXAM/ReASCE Review Course, either by video, still or digital photography, audio or any other recording or reproduction mechanism. This includes recording of presentations and supporting audio visual materials and of presenter presentations and supporting poster materials.

Taking photos of, or recording the content of, presentation slides is also prohibited and is considered intellectual piracy. Attendees who ignore this policy will be asked to leave the educational session and are at risk of losing their name badge and attendance privileges. Photographs taken for the purpose of sharing on social media is allowed, but should avoid showing presentation slides. Please use #EchoReview when posting on social media.

ASE reserves the rights to all recordings or reproductions at ASE meetings. Please be aware that during the 20th Annual ASCeXAM/ReASCE Review Course, attendees, vendors, guests, and exhibitors may be photographed or videotaped by ASE staff capturing the event. Some of these photographs or videos may be displayed by ASE in future publication or other materials. By virtue of your attendance, you agree to allow ASE to use photographs of you in its promotional materials.

Children
Childcare services are not offered at at the ASCeXAM/ReASCE Review Course. Due to limited seating capacity and the highly technical nature of this program, children are not allowed to attend the educational session. For their safety, children must be accompanied by an adult at all times when attending the course events.
# Course Schedule

## Saturday, May 4, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Moderator</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30 AM</td>
<td>Registration</td>
<td>Salon Pre-Function Space</td>
<td>G. Aurigemma</td>
</tr>
<tr>
<td>12:00 PM</td>
<td>Welcome</td>
<td>Salon F-G</td>
<td>G. Aurigemma, R. Lang</td>
</tr>
<tr>
<td>12:10 PM</td>
<td>Normal TTE Examination, Doppler Echocardiography and Normal Antegrade Flow Patterns</td>
<td>Salon Pre-Function Space</td>
<td>P. Patil</td>
</tr>
<tr>
<td>12:55 PM</td>
<td>Normal TEE Examination: Applications, Pitfalls, Probe Insertion and Manipulation, Risks and Complications</td>
<td>Salon F-G</td>
<td>M. Keane</td>
</tr>
<tr>
<td>1:40 PM</td>
<td>Echo-Doppler Assessment of Right and Left Ventricular Hemodynamics</td>
<td>Salon F-G</td>
<td>I. Kronzon</td>
</tr>
<tr>
<td>2:30 PM</td>
<td>Refreshment Break &amp; Visit Exhibits</td>
<td>Gloucester Ballroom</td>
<td></td>
</tr>
<tr>
<td>3:00 PM</td>
<td>Endocarditis and Its Complications: The Role of Echocardiography</td>
<td>Salon F-G</td>
<td>M. Saric</td>
</tr>
<tr>
<td>3:45 PM</td>
<td>Chamber Quantitation: Left Ventricle, Left Atrium, Right Ventricle (2D and 3D)</td>
<td>Salon F-G</td>
<td>R. Lang</td>
</tr>
<tr>
<td>4:30 PM</td>
<td>Global and Regional Systolic Function: Basics of Remodeling, Hypertrophy and Left Ventricle Mass</td>
<td>Salon F-G</td>
<td>G. Aurigemma</td>
</tr>
<tr>
<td>6:30 PM</td>
<td>Adjourn</td>
<td></td>
<td></td>
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</table>

## Sunday, May 5, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Moderator</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 AM</td>
<td>Registration, Breakfast, and Visit Exhibits</td>
<td>Salon Pre-Function Space</td>
<td>M. Keane</td>
</tr>
<tr>
<td>7:20 AM</td>
<td>Overview</td>
<td>Salon F-G</td>
<td>R. Lang</td>
</tr>
<tr>
<td>7:30 AM</td>
<td>Spectral Doppler and M-Mode Echo Cases</td>
<td>Salon F-G</td>
<td>G. Aurigemma, I. Kronzon</td>
</tr>
<tr>
<td>8:00 AM</td>
<td>Tissue Doppler and Strain Imaging</td>
<td>Salon F-G</td>
<td>S. Lester</td>
</tr>
<tr>
<td>8:30 AM</td>
<td>Cardiac Masses</td>
<td>Salon F-G</td>
<td>R. Lang</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>Quantification of Mitral Regurgitation: New Guidelines</td>
<td>Salon F-G</td>
<td>S. Mankad</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>Refreshment Break &amp; Visit Exhibits</td>
<td>Gloucester Ballroom</td>
<td></td>
</tr>
<tr>
<td>10:00 AM</td>
<td>Mitral Stenosis</td>
<td>Salon F-G</td>
<td>R. Levine</td>
</tr>
<tr>
<td>10:30 AM</td>
<td>Degenerative and Functional Mitral Valve Disease</td>
<td>Salon F-G</td>
<td>R. Lang</td>
</tr>
<tr>
<td>11:15 AM</td>
<td>Practice Board Exam Questions on Mitral Valve Disease and Cardiac Masses</td>
<td>Salon F-G</td>
<td>G. Aurigemma, I. Kronzon, R. Lang, R. Levine, S. Lester, S. Mankad</td>
</tr>
<tr>
<td>12:15 PM</td>
<td>Lunch &amp; Visit Exhibits</td>
<td>Gloucester Ballroom</td>
<td></td>
</tr>
<tr>
<td>1:15 PM</td>
<td>Echocardiographic Evaluation of Mitral Valve Prostheses</td>
<td>Salon F-G</td>
<td>S. Lester</td>
</tr>
<tr>
<td>1:50 PM</td>
<td>How to Assess Aortic Stenosis: New Guidelines</td>
<td>Salon F-G</td>
<td>M. Keane</td>
</tr>
<tr>
<td>2:30 PM</td>
<td>Different Variants of Aortic Stenosis</td>
<td>Salon F-G</td>
<td>A. Abbas</td>
</tr>
<tr>
<td>3:15 PM</td>
<td>Refreshment Break &amp; Visit Exhibits</td>
<td>Gloucester Ballroom</td>
<td></td>
</tr>
<tr>
<td>3:45 PM</td>
<td>Hypertrophic Cardiomyopathy</td>
<td>Salon F-G</td>
<td>S. Lester</td>
</tr>
<tr>
<td>4:45 PM</td>
<td>Echocardiography in Systemic Disease</td>
<td>Salon F-G</td>
<td>S. Mankad</td>
</tr>
<tr>
<td>5:15 PM</td>
<td>Practice Board Exam on Aortic Valve Disease, Hypertrophic Cardiomyopathy, and Systemic Disease</td>
<td>Salon F-G</td>
<td>A. Abbas, M. Keane, S. Lester, S. Mankad</td>
</tr>
<tr>
<td>6:30 PM</td>
<td>Adjourn</td>
<td></td>
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</tbody>
</table>
### Course Schedule

#### Monday, May 6, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 AM</td>
<td>Registration, Breakfast, and Visit Exhibits</td>
</tr>
<tr>
<td></td>
<td>Salon Pre-Function Space and Gloucester Ballroom</td>
</tr>
<tr>
<td></td>
<td><strong>Moderator: S. Mankad</strong></td>
</tr>
<tr>
<td>7:20 AM</td>
<td>Overview <em>R. Lang</em></td>
</tr>
<tr>
<td>7:30 AM</td>
<td>Basic Ultrasound Physics <em>S. Edelman</em></td>
</tr>
<tr>
<td>8:15 AM</td>
<td>Concepts of Imaging and Knobology <em>P. Patil</em></td>
</tr>
<tr>
<td>9:00 AM</td>
<td>Fundamentals in Doppler Physics <em>S. Edelman</em></td>
</tr>
<tr>
<td>9:45 AM</td>
<td>Artifacts: Theory and Illustrative Examples <em>R. Levine</em></td>
</tr>
<tr>
<td>10:30 AM</td>
<td>Refreshment Break &amp; Visit Exhibits <em>Gloucester Ballroom</em></td>
</tr>
<tr>
<td>11:00 AM</td>
<td>Evaluation of the Right Ventricle <em>V. Rigolin</em></td>
</tr>
<tr>
<td>11:45 AM</td>
<td>Tricuspid and Pulmonary Valve Disease: New Guidelines <em>K. Addetia</em></td>
</tr>
<tr>
<td>1:15 PM</td>
<td>Lunch &amp; Visit Exhibits <em>Gloucester Ballroom</em></td>
</tr>
<tr>
<td></td>
<td><strong>Moderator: G. Aurigemma</strong></td>
</tr>
<tr>
<td>2:15 PM</td>
<td>Echocardiographic Evaluation of Aortic Valve Prostheses <em>A. Abbas</em></td>
</tr>
<tr>
<td>3:00 PM</td>
<td>Quantitation of Aortic Regurgitation <em>V. Rigolin</em></td>
</tr>
<tr>
<td>3:45 PM</td>
<td>Stress Echocardiography: Theoretical and Practical Considerations <em>M. Keane</em></td>
</tr>
<tr>
<td>4:30 PM</td>
<td>Refreshment Break &amp; Visit Exhibits <em>Gloucester Ballroom</em></td>
</tr>
<tr>
<td>5:00 PM</td>
<td>Complications of Myocardial Infarction <em>S. Mankad</em></td>
</tr>
<tr>
<td>5:30 PM</td>
<td>Primer of Interventional Echo <em>M. Saric</em></td>
</tr>
<tr>
<td>6:30 PM</td>
<td>Practice Board Exam on Stress Echocardiography, 3D, Hypertrophic Cardiomyopathy, and Systemic Disease <em>A. Abbas, M. Keane, S. Mankad, V. Rigolin, M. Saric</em></td>
</tr>
<tr>
<td>7:30 PM</td>
<td>Adjourn</td>
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</tbody>
</table>

#### Tuesday, May 7, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 AM</td>
<td>Registration, Breakfast, and Visit Exhibits</td>
</tr>
<tr>
<td></td>
<td>Salon Pre-Function Space and Gloucester Ballroom</td>
</tr>
<tr>
<td></td>
<td><strong>Moderator: V. Rigolin</strong></td>
</tr>
<tr>
<td>7:00 AM</td>
<td>Contrast Echocardiography <em>M. Saric</em></td>
</tr>
<tr>
<td>7:30 AM</td>
<td>Commonly Encountered Congenital Heart Disease in Adults <em>S. Phillips</em></td>
</tr>
<tr>
<td>8:15 AM</td>
<td>Congenital Heart Disease: An Approach for Simple and Complex Anomalies <em>B. Eidem</em></td>
</tr>
<tr>
<td>9:00 AM</td>
<td>Congenital Heart Disease Cases <em>B. Eidem, S. Phillips</em></td>
</tr>
<tr>
<td>9:45 AM</td>
<td>Refreshment Break &amp; Visit Exhibits <em>Gloucester Ballroom</em></td>
</tr>
<tr>
<td>10:15 AM</td>
<td>Echocardiographic Evaluation of Diastolic Function <em>J. Oh</em></td>
</tr>
<tr>
<td>11:15 AM</td>
<td>Echocardiographic Evaluation of Pericardial Disease: Constriction vs. Restriction <em>J. Oh</em></td>
</tr>
<tr>
<td>12:00 PM</td>
<td>Practice Board Exam on Diastolic Dysfunction, Pericardial Disease, and Congenital Heart Disease <em>B. Eidem, J. Oh, S. Phillips, M. Saric</em></td>
</tr>
<tr>
<td>1:00 PM</td>
<td>Lunch &amp; Visit Exhibits <em>Gloucester Ballroom</em></td>
</tr>
<tr>
<td></td>
<td><strong>Moderator: R. Lang</strong></td>
</tr>
<tr>
<td>2:00 PM</td>
<td>Diseases of the Aorta <em>R. Lang</em></td>
</tr>
<tr>
<td>2:45 PM</td>
<td>Echocardiography in Heart Failure and Left Ventricular Assist Devices <em>K. Addetia</em></td>
</tr>
<tr>
<td>3:30 PM</td>
<td>Adjourn</td>
</tr>
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</table>
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Exhibit Location and Hours
Exhibits are located in Gloucester Ballroom during the dates and hours listed below.

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Monday, May 6, 2019 .............................. 6:30 AM – 5:00 PM
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