# ECHO FLORIDA





**October 11-13, 2015** Preconferences available on October 10 Disney's Yacht & Beach Club Resort Walt Disney World<sup>®</sup>, FL

#### **Course Director**

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

#### **Course Co-Director**

Michael H. Picard, MD, FASE Past President, ASE Massachusetts General Hospital Harvard Medical School Boston, MA

#### **Learning Lab Director**

Pamela R. Burgess, BS, RDCS, RDMS, FASE Wake Forest University Baptist Medical Center Winston Salem, NC





# **Program Information**

# Overview of Echo Florida

The Echo Florida course is a comprehensive review of cardiovascular ultrasound in clinical practice. The faculty is composed of experts who will discuss the strengths and limitations of established and emerging technologies and illustrate how these technologies can be used to improve and streamline patient care in a cost-conscious manner.

# Course Highlights

There is heavy emphasis on case-based learning.

Topics include:

- · Coronary artery disease including stress testing
- Valvular heart disease
- Heart failure (systolic and diastolic) and cardiomyopathy
- Emerging technologies including contrast, 3D/4D echocardiography and strain imaging
- Complex congenital heart disease
- Case-based demonstrations on role of 2D and real time 3D/4D echocardiography to select, guide, and follow percutaneous structural heart disease interventions such as transcatheter aortic valve replacement and percutaneous mitral valve repair

## Preconferences

#### Separate Registration Required

On Saturday, October 10th, two preconferences will be offered. Maintenance of Certification (MOC) and Learning Lab run simultaneously; please only register for one session.

#### **Maintenance of Certification**

The MOC session will be a half-day session on Saturday, October 10, 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 ABIM Part 2 MOC Credits.

#### Learning Lab: Computer Based Learning

The Learning Lab is an opportunity for participants to get individualized instruction at computer workstations. Participants have an opportunity to get hands-on instruction on quantitative echocardiography using real cases. Topics covered include quantitation of LV heart size and function, quantitation of LV diastolic function, quantitation of right heart function, quantitation of valvular stenosis and regurgitation and 3D/4D echo image set cropping, display and quantitation. These small group sessions allow ample time to interact with the experts.

# Who Should Attend?

This course is designed for adult and pediatric cardiologists, cardiovascular surgeons, cardiovascular anesthesiologists, cardiac radiologists, fellows in training, cardiovascular sonographers, cardiovascular nurse specialists, internists, intensivists, and emergency physicians with special interest in clinical cardiology and echocardiography.

# Disney's Yacht & Beach Club Resort

**Overview:** Delight in the formal grace of a grand New England-style yacht club at this lakeside hotel. Relax in the inviting elegance of a plush lobby replete with nautical touches, explore the whimsical Stormalong Bay and rent a variety of watercraft from Bayside Marina. Sharing many amenities with its pastel-toned sister, Disney's Beach Club Resort, Disney's Yacht Club Resort is walking distance to Epcot and a convenient boat ride to Disney's Hollywood Studios.

**Special Features:** Beachside Water Recreation Area: Make a splash at Stormalong Bay, a 3-acre water wonderland! Climb the mast of a life-size shipwreck to breeze down one of the highest hotel waterslides at Walt Disney World Resort. Catch currents in the lazy circular river, relax in one of 3 whirlpool spas and soak up the sun on the elevated tanning deck. Children can enjoy the gently sloping, beach entry and have a blast in the kiddie pool—complete with a miniature waterslide.

# **Disney Resort Benefits**

As a Disney Resort Guest, you'll enjoy special benefits that make your Walt Disney World<sup>®</sup> stay easier and more relaxing than ever. These benefits provide everything from extra time in the Theme Parks and convenient transportation to more magic all around. Convenient Walt Disney World<sup>®</sup> Transportation – If you are arriving by air at Orlando International Airport, Disney's legendary service starts the moment you touch down and continues throughout your stay. Disney's Magical Express<sup>®</sup> – Take advantage of the latest innovation in Disney's legendary commitment to service and convenience. This exclusive complimentary shuttle and luggage delivery service conveniently takes you from the airport directly to your Disney Resort and back again when it's time to return. It's the hassle-free benefit that allows you to arrive at your meeting or event relaxed and stress-free. To book, call 407-827-6777 or visit www. disneyurl.com/AmericanSocietyofEchocardiographyEchoFlorida2015 for more information.

Let us take you where you want to go – During your stay, enjoy the convenience of Disney transportation throughout the Walt Disney World<sup>®</sup> Resort. Just steps from your door, boats and motor coaches are waiting to take you to and from the Theme Parks, Water Parks, the Downtown Disney<sup>®</sup> area and more.

**Enhanced! Extra Magic Hour Benefit** – Each day one of the Theme Parks opens an hour early or stays open up to three hours after regular Park hours for guests staying at select Disney Resorts, giving you even more time to enjoy select attractions before and after your meetings. This is a great way for you to maximize the value of your Disney Theme Park Tickets based around your schedule! Valid Theme Park admission and Walt Disney World<sup>®</sup> Resort ID are required.

# **Program Information**

# Make Time for the Magic!

# Purchase Special Disney Meeting/Convention Tickets in Advance

**Theme Park Tickets In Advance** – Available only to meeting attendees, their guests and family members, Disney's multi-day and half-day Meeting/Convention tickets are designed to fit any agenda and can't be purchased at the Theme Park gates. Visit www.mydisneymeetings.com/aseef2015 to purchase tickets.

**Extend Your Stay** – Once you're here, you'll discover the Walt Disney World<sup>®</sup> Resort offers more magical experiences than you ever dreamed possible. Don't pass up the chance to add an extra few days before or after your meetings for a spectacular golf or spa getaway or the perfect vacation with family and friends. We'll even extend the same room rates\* you received for your meeting to any nights you add to your visit.

\*Room Rates are subject to change without notice and are based on availability. Group rates may not be combined with any other discounts or offers.

#### Fee

Your registration will be confirmed by email only. Registration fees include continental breakfasts, breaks, lunches, networking reception and a memory stick containing course materials. One of the many benefits of being an ASE member is that ASE members are eligible to receive a reduced registration fee for Echo Florida as well as for all ASE educational courses. If you are not currently a member and wish to become one, visit www.asecho.org.

## Learning Objectives

#### Learning Lab (Preconference)

Upon completion of these sessions, participants will be better able to:

- 1. Apply ASE guidelines during echocardiography interpretation.
- 2. Demonstrate ability to crop and display 3D echocardiographic data sets.

#### **Main Conference**

Upon completion of these sessions, participants will be better able to:

- 1. Analyze and quantify systolic and diastolic function by echocardiography.
- 2. Recognize indications for echocardiographic contrast agents.
- 3. Interpret stress echocardiograms.
- 4. Appropriately utilize echocardiography in infective endocarditis.
- 5. Quantify valvular regurgitation.
- 6. Classify cardiomyopathies by echocardiography.

- 7. Identify eligible patients for transcatheter aortic valve replacement.
- 8. Recognize and assess the function of percutaneous cardiac devices by echocardiography.
- 9. Recognize echocardiographic features of common complex congenital lesions found in adults.
- 10. Explain normal and abnormal findings of prosthetic valve function.

## 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 29 .75 *AMA PRA Category 1 Credits*<sup>TM</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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.



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.

## Accommodations

The American Society of Echocardiography (ASE) has secured a block of rooms at a discounted rate for attendees at Disney's Yacht & Beach Club Resort. To make your reservations, please contact the hotel directly at (407) 934-7639. Please specify that you are with the American Society of Echocardiography (ASE) to secure the group room rate of \$219 per night (tax and other fees not included). You can also visit www.disneyurl.com/ AmericanSocietyofEchocardiographyEchoFlorida2015 to book your room online.

The room block will be held until Friday, September 11, 2015, or until the block is sold out. After this date, reservations will be accepted on a space-available basis. A deposit of one night room and tax will be held at the time of the reservation. Deposits will be forfeited for any cancellations occurring five days or less prior to arrival.

# **Program Information & Faculty**

# Cancellations

If you wish to cancel your participation in the 4th Annual Echo Florida conference, your registration fee, less a \$100 administrative fee, will be refunded when written notification is received before September 10, 2015. No refunds will be made after September 10, 2015, or 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 course is cancelled, ASE is responsible only for the refund of the registration fee, minus the administrative fee, and not for transportation, hotel accommodations or any miscellaneous expenses incurred by the participant.

# **Educational Grants**

This activity is supported in part by unrestricted educational grants from various commercial firms. At the time of printing, a complete list of supporters was not available. Appropriate acknowledgement of support will be provided at the time of the activity.

# Course Director:

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

# Course Co-Director:

Michael H. Picard, MD, FASE Past President, ASE Massachusetts General Hospital Harvard Medical School Boston, MA

## Faculty:

Deborah A. Agler, RCT, RDCS, FASE The Cleveland Clinic Cleveland, OH

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

Benjamin Byrd, III, MD, FASE Vanderbilt University Medical Center Nashville, TN

# Learning Lab Director:

Pamela R. Burgess, BS, RDCS, RDMS, FASE Wake Forest University Baptist Medical Center Winston Salem, NC

Doreen DeFaria-Yeh, MD Massachusetts General Hospital Boston, MA

Linda D. Gillam, MD, FASE Morristown Medical Center Morristown, NJ

John Gorcsan, III, MD, FASE University of Pittsburgh Pittsburgh, PA

Mark J. Monaghan, PhD King's College Hospital London, United Kingdom

Wendy Tsang, MD University of Toronto Toronto, ON, Canada

Rory B. Weiner, MD, FASE Massachusetts General Hospital Boston, MA

Susan E. Wiegers, MD, FASE Temple University Hospital Philadelphia, PA



# Schedule of Events

Saturday, October 10, 2015				
Learning Lab				
6:45 AM	Continental Breakfast			
7:45 AM	Introduction to the Learning Lab P. Burgess			
8:15 AM	Basic Measurements: LV Dimensions, Volume, EF, LA Volume, MV Planimetry D. Agler, J. Gorscan			
9:15 AM	Basic Doppler: AS Continuity, MS PHT, Stroke Volume, CO, RVSP D. Agler, L. Gillam			
10:15 AM	Refreshment Break			
10:45 AM	Diastolic Function D. Agler, G. Aurigemma			
11:45 AM	Quantitation of AR <i>R. Hahn</i>			
12:15 PM	Lunch			
1:15 PM	Quantitation of MR: Vena Contracta, PISA P. Burgess, R. Hahn			
2:15 PM	3D - Cropping, Quantifying Volume and Depicting Pathologies <i>P. Burgess, M. Monaghan, W. Tsang</i>			
3:30 PM	Refreshment Break			
3:45 PM	Strain D. Agler, J. Gorcsan			
4:45 PM	Final exam - Interpret, Quantify and Prepare a Full Report <i>P. Burgess, R. Hahn</i>			
5:45 PM	Adjourn			
Maintena	nce of Certification			
8:00 AM	MOC Part I <i>B. Hahn</i>			
10:15 AM	Refreshment Break			
10:30 AM	MOC Part II <i>L. Gilliam</i>			
1:15 PM	Adjourn			
Sunday, O	ctober 11, 2015			
6:45 AM	Continental Breakfast and Visit Exhibits			
7:45 AM	Welcome <i>R. Hahn</i>			
7:50 AM	President's Address S. Wiegers			
General E	chocardiography: All the Tools You Need			
8:00 AM	Chamber Quantification: Review of the New ASE Guidelines 2015 <i>R. Hahn</i>			

8:25 AM	Assessment of Right and Left Ventricular Systolic Function: 2D and 3D Measurements S. Wiegers		
8:45 AM	Strain, Strain Rate & Torsion: Myocardial Mechanics Simplified and Applied <i>J. Gorcsan</i>		
9:10 AM	Diastology 101: The Basics of Measuring Diastolic Function <i>G. Aurigemma</i>		
9:40 AM	Echo Hemodynamics: Stroke Volume, Intracardiac Pressure and Vascular Resistance <i>R. Hahn</i>		
10:00 AM	Question and Answer		
10:15 AM	Refreshment Break and Visit Exhibits		
10:45 AM	3D Echo: Acquisition, Cropping and Display - What is the Norm in 2015? <i>W. Tsang</i>		
11:10 AM	Contrast 2015: Understanding "What," "How" and "When" <i>L. Gillam</i>		
11:30 AM	Appropriate Use of Echocardiography S. Wiegers		
11:50 AM	Cases: Diastolic Dilemmas G. Aurigemma		
12:10 PM	Cases: Strain and Contrast W. Tsang		
	W. Tsang		
12:30 PM	W. Tsang Lunch and Visit Exhibits		
	Lunch and Visit Exhibits		
Valvular H	Lunch and Visit Exhibits eart Disease Part I Aortic Stenosis - Epidemiology and Natural History		
Valvular H 1:30 PM	Lunch and Visit Exhibits eart Disease Part I Aortic Stenosis - Epidemiology and Natural History L. Gillam Potential Pitfalls in the Quantitation of AS		
<b>Valvular H</b> 1:30 PM 1:45 PM	Lunch and Visit Exhibits eart Disease Part I Aortic Stenosis - Epidemiology and Natural History <i>L. Gillam</i> Potential Pitfalls in the Quantitation of AS <i>M. Monaghan</i> Low Gradient, Low AVA, Decreased LV Function - Real or Pseudo AS?		
Valvular H 1:30 PM 1:45 PM 2:00 PM	Lunch and Visit Exhibits eart Disease Part I Aortic Stenosis - Epidemiology and Natural History <i>L. Gillam</i> Potential Pitfalls in the Quantitation of AS <i>M. Monaghan</i> Low Gradient, Low AVA, Decreased LV Function - Real or Pseudo AS? <i>R. Hahn</i> Low Gradient, Low AVA, Normal LV Function - Paradoxical Findings?		
Valvular H 1:30 PM 1:45 PM 2:00 PM 2:20 PM	Lunch and Visit Exhibits eart Disease Part I Aortic Stenosis - Epidemiology and Natural History <i>L. Gillam</i> Potential Pitfalls in the Quantitation of AS <i>M. Monaghan</i> Low Gradient, Low AVA, Decreased LV Function - Real or Pseudo AS? <i>R. Hahn</i> Low Gradient, Low AVA, Normal LV Function - Paradoxical Findings? <i>L. Gillam</i>		
Valvular H 1:30 PM 1:45 PM 2:00 PM 2:20 PM 2:40 PM 2:55 PM	Lunch and Visit Exhibits eart Disease Part I Aortic Stenosis - Epidemiology and Natural History <i>L. Gillam</i> Potential Pitfalls in the Quantitation of AS <i>M. Monaghan</i> Low Gradient, Low AVA, Decreased LV Function - Real or Pseudo AS? <i>R. Hahn</i> Low Gradient, Low AVA, Normal LV Function - Paradoxical Findings? <i>L. Gillam</i> Question and Answer		
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Valvular H 1:30 PM 1:45 PM 2:00 PM 2:20 PM 2:40 PM 2:55 PM Interventio	Lunch and Visit Exhibits eart Disease Part I Aortic Stenosis - Epidemiology and Natural History L. Gillam Potential Pitfalls in the Quantitation of AS M. Monaghan Low Gradient, Low AVA, Decreased LV Function - Real or Pseudo AS? R. Hahn Low Gradient, Low AVA, Normal LV Function - Paradoxical Findings? L. Gillam Question and Answer Refreshment Break and Visit Exhibits Dal Echocardiography TAVR - Current Devices - How Do They Work and Who Should You Treat?		

4:20 PM	Case Presentations R. Hahn, M. Monaghan		
4:50 PM	Question and Answer		
5:00 PM	Adjourn		
Monday, O	ctober 12, 2015		
Valvular H	eart Disease Part II		
6:45 AM	Continental Breakfast and Visit Exhibits		
7:45 AM	Quantitation of Regurgitation: Strengths and Weaknesses of Echo <i>L. Gillam</i>		
8:05 AM	Ischemic MR: Is it Different From Degenerative Disease? <i>M. Picard</i>		
8:25 AM	The Role of Echo in the Management AR and MR, With and Without Symptoms <i>G. Aurigemma</i>		
8:45 AM	Assessing Prosthetic Valve Function: Differentiating Normal From Stenotic or Regurgitant <i>L. Gillam</i>		
9:05 AM	Cases: 3D to the Rescue <i>W. Tsang</i>		
9:30 AM	Cases: Hemodynamic Dilemmas M. Monaghan		
9:50 AM	Question and Answer		
10:05 AM	Refreshment Break and Visit Exhibits		
Coronary A	Artery Disease		
10:35 AM	MI Complications -Case Illustrations W. Tsang		
11:00 AM	Stress Echo - Basics and Interpretation Tips <i>M. Picard</i>		
11:25 AM	Hemodynamic Stress Testing R. Weiner		
11:45 AM	Stress Echo Cases - Are You As Good As the Experts		
12:25 PM	G. Aurigemma, S. Wiegers, M. Picard Ouestion and Answer		
12:20 PM	Lunch and Visit Exhibits		
Heart Faile 1:30 PM			
1.30 111	Role of Echo for Heart Failure Prognosis <i>J. Gorcsan</i>		
2:00PM	Hypertrophic Cardiomyopathy S. Wiegers		
2:30 PM	Restrictive and Infiltrative Cardiomyopathy - Recognition By Echo <i>G. Aurigemma</i>		

3:00 PM	Refreshment Break and Visit Exhibits				
3:30 PM	Cardiac Transplant: The Role of Echo R. Weiner				
3:50 PM	Mechanical Circulatory Support - Imaging Pearls M. Picard				
4:15 PM	Question and Answer				
4:30 PM	Adjourn				
4:30-5:30 PM	Networking Reception				
Tuesday, October 13, 2015					
<b>Optional E</b>	arly Bird Session				
6:45 AM	Continental Breakfast and Visit Exhibits				
7:00 AM	Chalk Talks With the Master Teachers M. Picard, G. Aurigemma				
Clinical Ech	ocardiography				
8:00 AM	Congenital Heart Disease Part I - The Unrepaired Adult D. DeFariah-Yeh				
8:30 AM	Congenital Heart Disease Part II - The Repaired Adult				
9:00 AM	D. DeFariah-Yeh Athlete's Heart - How Can We Recognize It? R. Weiner				
9:30 AM	Cardio-oncology M. Picard				
9:50 AM	Question and Answer				
10:05 AM	Refreshment Break and Visit Exhibits				
10:35 AM	Pulmonary Hypertension: Can We Accurately Assess? D. DeFariah-Yeh				
10:55 AM	Cases You Won't Forget B. Byrd, D. DeFariah-Yeh				
11:25 AM	Cardiac Source of Embolus J. Gorcsan				
11:45 AM	Infectious Endocarditis R. Weiner				
12:15 PM	Question and Answer				
12:30 PM	Lunch and Visit Exhibits				
1:30 PM	Acute Aortic Syndromes M. Picard				
1:55 PM	Pericardial Disease R. Weiner				
2:25 PM	Cardiac Masses B. Byrd				
2:50 PM	Cases You Won't Forget J. Gorcsan, M. Picard				
3:45 PM	Question and Answer				
4:00 PM	Adjourn				

# ECHO FLORIDA

# **Registration Form**

# October 11-13, 2015

Disney's Yacht & Beach Club Walt Disney World, FL

October 11-13 with Preconferences available on October 10th • Disney's Yacht and Beach Club, Walt Disney World<sup>®</sup>, FL Your Echo Florida registration fee includes continental breakfasts, breaks, lunches, welcome reception and a memory stick containing course materials.

Name:					
First Name	Middle I	nitial	Last Name		
Credential: MD D0	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 EchoFlorida@asecho.org or telephone at (919) 861-5574.

Special Dietary Needs:

#### **Registration Fees: Preconference October 10, 2015**

Attendees must register in advance in order to attend due to limited seating. Maintenance of Certification and Learning Lab run simultaneously; please only register for one session. More information on the educational opportunities below are available online at www.asecho.org/echoflorida.

Maintenance of Certification   ASE Member (\$350) Non-Member (\$450)	Learning Lab: Computer Based Learning   ASE Member (\$350)   Non-Member (\$450)			
Registration Fees: Main Conference October 11-13, 2015 (Prior to September 11, 2015)				
ASE Physician Member (\$725)	Physician Non-Member (\$899)			
ASE Sonographer/Allied Health Member* (\$550)	Sonographer/Allied Health Non-Member* (\$699)			
After September 11, 2015: ASE Physician Member \$825; Physician Non-Member \$999; ASE Sonographer/Allied Health Member* \$650; Sonographer /Allied Health Non-Member* \$799 *Registrants in the Allied Health category include Sonographers, Nurses, Physicians Assistants and Fellows in Training.				
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:			
Register online and receive an immediate receipt! www.asecho.org/echoflorida				

AMERICAN SOCIETY OF ECHOCARDIOGRAPHY INC, P.O. Box 890082, Charlotte, NC 28289-0082

Phone: 919-861-5574, Fax: 919-882-9900 • Email: EchoFlorida@asecho.org, website: www.asecho.org/echoflorida



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# ECHO FLORIDA

October 11-13, 2015 Preconferences available on October 10 October 10: Maintenance of Certification October 10: Learning Lab October 11-13: Main Conference

## **REGISTER NOW at**

www.asecho.org/echoflorida

AMERICAN SOCIETY OF ECHOCARDIOGRAPHY established 1975 ANNIVERSARY



**Course Director** Rebecca T. Hahn, MD, FASE Columbia University New York, NY



**Course Co-Director** Michael H. Picard, MD, FASE, Past President ASE Massachusetts General Hospital Harvard Medical School Boston, MA



Learning Lab Director Pamela R. Burgess, BS, RDCS, RDMS, FASE Wake Forest University Baptist Medical Center Winston Salem, NC