

# ECHO FLORIDA

# 5<sup>th</sup> ANNUAL



## Advance Program October 9-11, 2016

Preconferences Available October 8

Disney's Grand Floridian Resort and Spa  
Walt Disney World®, FL

### Course Director

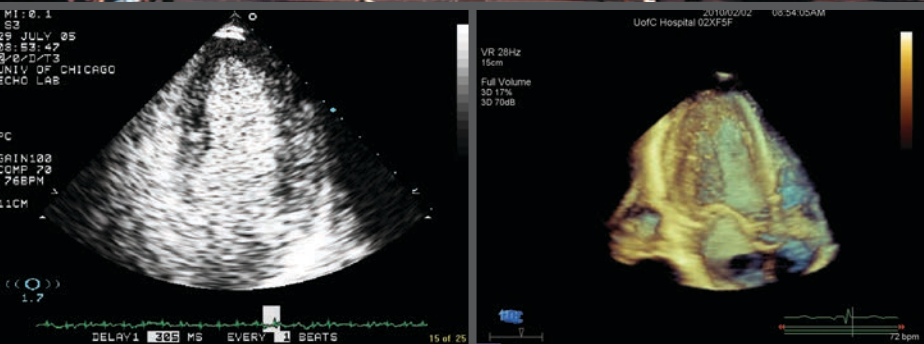
Rebecca T. Hahn, MD, FASE  
Columbia University  
New York, NY

### Course Co-Director

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

### Learning Lab Director

Deborah A. Agler, ACS, RDCS, FASE  
Cleveland Clinic  
Cleveland, OH



Register now at [ASEcho.org/echoflorida](http://ASEcho.org/echoflorida)



# 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 *(Additional fee required.)*

On Saturday, October 8 two preconferences will be offered simultaneously. Please only register for one session.

## 3D Workshop

**New this year**, the 3D Workshop will be a combination of live scanning and computer based sessions focusing on 3D acquisition techniques as well cropping and image display. After introductory lectures and live scanning, there will be two separate workshops with different 3D vendors. One workshop will offer a temporary download of a fully functional 3D cropping program. Both vendors will be supplying limited numbers of laptops pre-loaded with 3D examples for hands-on learning. The workshops will be repeated so attendees can learn the capabilities of both 3D vendors. These workshops will cover 3D quantification of ventricular size and function, as well as valvular morphology and function.

*“All of the speakers were excellent. Overall great course!”*

*2015 Echo Florida Attendee*

## Learning Lab

This new Learning Lab will be more interactive with a combination of live scanning, computer based sessions, and case examples. The morning sessions will show attendees exactly how to make measurements to assess chamber quantification, systolic and diastolic function, and valvular function. The afternoon sessions will concentrate on advanced imaging techniques of strain imaging and 3D.

## 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.

## Course Registration

Registration fees include breakfasts, lunches, refreshment breaks, the networking reception, access to course materials, and CME credit. ASE members can take advantage of reduced registration fees as a benefit of membership. Please visit [ASEcho.org/RegistrationEF](http://ASEcho.org/RegistrationEF) for more details on registration fees.

## ASE Membership

Nonmember registrants for the 5th Annual Echo Florida course will receive a complimentary American Society of Echocardiography (ASE) membership through December 31, 2017, with their registration. Non-member registration is only available to new ASE members. ASE serves its members in numerous ways by providing education, advocacy, research, practice guidelines, and a community for their profession. ASE membership includes over \$750 of FREE CME credits a year, in addition to discounts on all ASE educational courses and products. Also included is a monthly subscription to the *Journal of the American Society of Echocardiography* (JASE), help with legislative coding and reimbursement issues, and other career resources. A plethora of online tutorials, webinars, and other educational activities make membership beneficial to echocardiographers located around the world. View the extensive list of member benefits at [ASEcho.org](http://ASEcho.org).

## 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 30.25 *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 30.25 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.



# Location Information

## Disney's Grand Floridian Resort & Spa

Victorian elegance meets modern sophistication at this bayside Resort hotel. Relax in the lobby as the live orchestra plays ragtime, jazz and popular Disney tunes. Bask on the white-sand beach, indulge in a massage and watch the fireworks light up the sky over Cinderella Castle. Just one stop to Magic Kingdom park on the complimentary Resort Monorail, this timeless Victorian-style marvel evokes Palm Beach's golden era.

The American Society of Echocardiography (ASE) has secured a block of rooms at Disney's Grand Floridian Resort at a discounted rate of \$229 per night (tax and other fees not included) for attendees. To make your reservations, please contact the hotel directly at 407-824-3000 and specify that you are with ASE to secure the group room rate. You can also visit [ASEcho.org/accommodationsef/](http://ASEcho.org/accommodationsef/) to book your room online.

The discounted rate will be honored until Friday, September 9, 2016, or until the block is sold out. The room block is likely to sell out before this date. 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 5 days or less prior to arrival.

Special features include a beach pool with waterslide and kids play area as well as a courtyard pool, a fitness center and jogging paths, a world-class Spa & Health Club, watercraft rentals and fishing excursions at the Marina, a business center, Wi-Fi access throughout convention center and lobby common areas, in-room high speed internet access, monorail service to *Magic Kingdom*® Park and *Epcot*® and *Magic Kingdom*® Resorts, and access to championship golf courses.

**Extend Your Stay** – Once you arrive, you will discover the Walt Disney World® 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. Disney's Grand Floridian Resort will extend the same room rates\* 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.*

## Make Time for the Magic!

As a Disney Resort Guest, you will enjoy special benefits that make your Walt Disney World® 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.

### Purchase 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. To receive these special Theme Park tickets, you must purchase online at [DisneyURL.com/ef16](http://DisneyURL.com/ef16).

### 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® Resort ID are required.*

### Convenient *Walt Disney World*® Transportation

If you're 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*®** – 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 relaxed and stress-free. To book, call 407-827-6777 or visit [DisneyURL.com/trans](http://DisneyURL.com/trans) 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® 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® area and more.



# Invited Faculty

# Schedule of Events

## Course Director

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

## Course Co-Director

**Gerard P. Aurigemma, MD, FASE**  
UMass Memorial Medical Center  
Worcester, MA

## Learning Lab Director

**Deborah A. Agler, ACS, RDCS, FASE**  
Cleveland Clinic  
Cleveland, OH

## Faculty

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

**Steven A. Goldstein, MD, FASE**  
MedStar Washington  
Hospital Center  
Washington, DC

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

**Omar K. Khalique, MD, FASE**  
Columbia University  
Medical Center  
New York, NY

**Allan L. Klein, MD, FASE**  
President, ASE  
Cleveland Clinic  
Cleveland, OH

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

**Philippe Pibarot, DVM, PhD, FASE**  
Quebec Heart and Lung Institute  
Quebec City, Quebec, Canada

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

**Vincent L. Sorrell, MD, FASE**  
University of Kentucky  
Lexington, KY

**Karen Stout, MD**  
University of Washington  
Seattle, WA

**Wendy Tsang, MD**  
University of Toronto  
Toronto, Ontario, Canada

## Saturday, October 8, 2016

### Learning Lab

7:00 AM	<b>Breakfast</b>
7:45 AM	<b>Introduction to the Learning Lab</b> <i>D. Agler</i>
8:15 AM	<b>Basic Measurements: Left Ventricular Dimensions, Volume, Ejection Fraction, Left Atrial Volume, Mitral Valve Planimetry</b> <i>J. Gorcsan</i>
9:15 AM	<b>Basic Doppler: Aortic Stenosis Continuity, Mitral Stenosis, Pressure Half-time, Stroke Volume, Cardiac Output, Right Ventricular Systolic Pressure</b> <i>L. Gillam</i>
10:15 AM	<b>Refreshment Break</b>
10:45 AM	<b>Basic Diastology</b> <i>D. Agler, G. Aurigemma</i>
11:45 AM	<b>Quantitation of Regurgitation: Vena Contracta, Proximal Isovelocity Surface Area</b> <i>D. Agler, O. Khalique</i>
12:15 PM	<b>Lunch</b>
1:15 PM	<b>Diastolic Cases and Hemodynamics</b> <i>D. Agler, G. Aurigemma</i>
2:15 PM	<b>3D: Cropping, Quantifying Volume, and Depicting Pathologies</b> <i>O. Khalique</i>
3:30 PM	<b>Refreshment Break</b>
3:45 PM	<b>Strain</b> <i>D. Agler, J. Gorcsan</i>
4:45 PM	<b>Final Exam: Interpret, Quantify, and Prepare a Full Report</b> <i>D. Agler, G. Aurigemma</i>
5:45 PM	<b>Adjourn</b>

### 3D Workshop: From Basic to Advanced

1:00 PM	<b>Cardiac Anatomy Learning the Basics for 3D</b> <i>R. Hahn</i>
1:30 PM	<b>Introduction to 3D Acquisition: Live Demo</b> <i>W. Tsang</i>
2:00 PM	<b>Workshop IA: Vendor Specific 3D Solutions for the Left Ventricle</b> <i>W. Tsang</i>
2:30 PM	<b>Workshop IB: Vendor Specific 3D Solutions for Valvular Disease</b> <i>R. Hahn</i>
3:00 PM	<b>Refreshment Break</b>



# Schedule of Events

3:30 AM	<b>Workshop IIA: Vendor Specific 3D Solutions for the Left Ventricle</b> <i>O. Khaliq</i>
4:00 PM	<b>Workshop IIB: Vendor Specific 3D Solutions for the Left Ventricle</b> <i>R. Hahn</i>
4:30 PM	<b>How to Incorporate 3D Into Your Lab</b> <i>W. Tsang</i>
4:45 PM	<b>Advances in 3D: What to Expect in the Future</b> <i>R. Hahn</i>
	<b>Question &amp; Answer</b>
5:15 PM	<b>Adjourn</b>

## Sunday, October 9, 2016

7:00 AM	<b>Breakfast and Visit Exhibits</b>
7:45 AM	<b>Welcome</b> <i>R. Hahn</i>
7:50 AM	<b>President's Address</b> <i>A. Klein</i>

## General Echocardiography: All the Tools You Need

8:00 AM	<b>Chamber Quantification Guidelines Update I: Left Heart Measurements</b> <i>L. Gillam</i>
8:25 AM	<b>Chamber Quantification Guidelines Update II: Right Heart Measurements</b> <i>S. Goldstein</i>
8:50 AM	<b>Strain, Strain Rate &amp; Torsion: Myocardial Mechanics Simplified and Applied</b> <i>J. Gorcsan</i>
9:10 AM	<b>2016 ASE Diastolic Function Guidelines: Relax!</b> <i>G. Aurigemma</i>
9:40 AM	<b>Echo Hemodynamics: Stroke Volume, Intracardiac Pressure and Vascular Resistance</b> <i>L. Gillam</i>
10:00 AM	<b>Question and Answer</b>
10:15 AM	<b>Refreshment Break and Visit Exhibits</b>
10:45 AM	<b>3D Echo: Acquisition, Cropping and Display</b> <i>W. Tsang</i>
11:10 AM	<b>Have a Little Bubbly: Essentials of Contrast</b> <i>L. Gillam</i>
11:30 AM	<b>TEE: The 28 Essential Views and More</b> <i>R. Hahn</i>
11:50 AM	<b>Cases: Strain and Contrast</b> <i>A. Klein, M. Saric</i>
12:10 PM	<b>Lunch and Visit Exhibits</b>

## New ASE Guidelines Review

1:10 PM	<b>Multimodality Imaging of Diseases of the Thoracic Aorta in Adults</b> <i>S. Goldstein</i>
1:30 PM	<b>Guidelines for the Use of Echocardiography in the Evaluation of a Cardiac Source of Embolism</b> <i>M. Saric</i>
1:50 PM	<b>Echocardiography in the Management of Patients with LVADs</b> <i>R. Hahn</i>
2:10 PM	<b>ASE Clinical Recommendations for Multimodality Cardiovascular Imaging of Patients with Pericardial Disease</b> <i>A. Klein</i>
2:30 PM	<b>Guidelines for the Echocardiographic Assessment of Atrial Septal Defect and Patent Foramen Ovale</b> <i>M. Saric</i>
2:45 PM	<b>Expert Consensus for Multimodality Imaging Evaluation of Adult Patients During and After Cancer</b> <i>V. Sorrell</i>
3:00 PM	<b>Refreshment Break and Visit Exhibits</b>

## Coronary Artery Disease

3:30 PM	<b>Myocardial Infarction Complications: Case Illustrations</b> <i>W. Tsang</i>
3:45 PM	<b>Stress Echo: Basics and Interpretation Tips</b> <i>V. Sorrell</i>
4:05 PM	<b>Hemodynamic Stress Testing</b> <i>A. Klein</i>
4:20 PM	<b>Stress Echo Cases: Are You As Good As the Experts?</b> <i>M. Saric, V. Sorrell</i>
4:50 PM	<b>Question and Answer</b>
5:00 PM	<b>Adjourn</b>
5:00-6:00 PM	<b>Networking Reception</b>

*"This is easily one of the top echo courses around."*

*2015 Echo Florida Attendee*

## Monday, October 10, 2016

### Valvular Heart Disease I

7:00 AM	<b>Breakfast and Visit Exhibits</b>
7:45 AM	<b>Update on the Pathophysiology of Aortic Stenosis</b> <i>P. Pibarot</i>
8:05 AM	<b>Basic and Advanced Assessment of Aortic Stenosis</b> <i>R. Hahn</i>
8:25 AM	<b>Low Gradient, Severe Aortic Stenosis</b> <i>P. Pibarot</i>
8:45 AM	<b>Mitral Stenosis: Pitfalls of Pressure Halftime</b> <i>R. Hahn</i>
9:05 AM	<b>Assessing Prosthetic Valve Function: Differentiating Normal from Stenotic or Regurgitant</b> <i>P. Pibarot</i>
9:30 AM	<b>Question and Answer</b>
9:50 AM	<b>Refreshment Break and Visit Exhibits</b>

### Valvular Heart Disease II

10:20 AM	<b>Primary Versus Secondary Mitral Regurgitation: What the Guidelines Say and Why</b> <i>L. Gillam</i>
10:40 AM	<b>Strengths and Weaknesses of Mitral Regurgitation Quantification</b> <i>R. Hahn</i>
11:00 AM	<b>Quantifying Aortic Regurgitation</b> <i>L. Gillam</i>
11:20 AM	<b>Role of Echo in the Management of Asymptomatic Disease</b> <i>P. Pibarot</i>
11:40 PM	<b>Question and Answer</b>
12:00 PM	<b>Lunch and Visit Exhibits</b>

### Heart Failure

1:00 PM	<b>Role of Echo for Heart Failure Prognosis</b> <i>J. Gorcsan</i>
1:20PM	<b>Hypertrophic Cardiomyopathy</b> <i>V. Sorrell</i>
1:40 PM	<b>Restrictive and Infiltrative Cardiomyopathy: Recognition By Echo</b> <i>G. Aurigemma</i>
2:00 PM	<b>Cardiac Transplant: The Role of Echo</b> <i>J. Gorcsan</i>
2:20 PM	<b>Question and Answer</b>
2:40 PM	<b>Refreshment Break and Visit Exhibits</b>
3:10 PM	<b>Cases: Discrepant Valvular Quantification</b> <i>L. Gillam, O. Khalique</i>
3:30 PM	<b>Cases: Diastology Sucks (Really!)</b> <i>G. Aurigemma</i>

3:50 PM	<b>Echo Clinical Conundrums I: What's in the Heart?</b> <i>M. Saric, V. Sorrell, S. Goldstein</i>
4:15 PM	<b>Question and Answer</b>
4:30 PM	<b>Adjourn</b>

## Tuesday, October 11, 2016

### Early Bird Session

7:00 AM	<b>Breakfast and Visit Exhibits</b>
7:00 AM	<b>Chalk Talks With the Master Teachers</b> <i>R. Hahn, G. Aurigemma</i>

### Clinical Echocardiography

8:00 AM	<b>TAVR: Procedure Guidance by Echo</b> <i>M. Monaghan</i>
8:25 AM	<b>The Forgotten Valve: New Tricuspid Interventions</b> <i>R. Hahn</i>
8:50 AM	<b>Percutaneous Mitral Valve Repair</b> <i>S. Goldstein</i>
9:10 AM	<b>Post-TAVR and MitraClip Echo Assessment: What the TVT Registry Requires</b> <i>R. Hahn</i>
9:30 AM	<b>Left Atrial Appendage Closure Devices</b> <i>M. Monaghan</i>
9:50 AM	<b>Refreshment Break and Visit Exhibits</b>
10:20 AM	<b>Cases: Interventional Imaging</b> <i>R. Hahn, M. Monaghan</i>
10:40 AM	<b>Congenital Heart Disease Part I: The Unrepaired Adult</b> <i>K. Stout</i>
11:00 AM	<b>Congenital Heart Disease Part II: The Repaired Adult</b> <i>K. Stout</i>
11:20 AM	<b>Infectious Endocarditis</b> <i>S. Goldstein</i>
11:45 PM	<b>Athlete's Heart: How Can We Recognize It?</b> <i>K. Stout</i>
12:00 PM	<b>Question and Answer</b>
12:30 PM	<b>Lunch and Visit Exhibits</b>
1:30 PM	<b>The Role of Echo in Pulmonary Hypertension</b> <i>S. Goldstein</i>
1:50 PM	<b>Pregnancy and Heart Disease: The Role of Echo</b> <i>K. Stout</i>
2:10 PM	<b>Cardiac Masses</b> <i>M. Saric</i>
2:30 PM	<b>Cases: Adult Congenital Heart Disease</b> <i>K. Stout</i>
2:50 PM	<b>Echo Clinical Conundrums II: Echo Saves the Day!</b> <i>G. Aurigemma, J. Gorcsan, S. Goldstein</i>
3:45 PM	<b>Question and Answer</b>
4:00 PM	<b>Adjourn</b>



Register online at [ASEcho.org/echoflorida](http://ASEcho.org/echoflorida)

**October 9-11, 2016**

**Preconferences available on October 8**

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Walt Disney World®, FL

Your Echo Florida registration fee includes breakfasts, lunches, refreshment breaks, networking reception, access to course materials, and 30.25 hours of CME credit. Register online for immediate confirmation at [ASEcho.org/echoflorida](http://ASEcho.org/echoflorida).

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.)

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](mailto:EchoFlorida@asecho.org) or telephone at 919-861-5574.

Special Dietary Needs: \_\_\_\_\_

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

	Through September 8, 2016	After September 8, 2016
<b>ASE Physician Member</b>	\$775	\$875
<b>Physician Non-Member</b>	\$925	\$1,025
<b>ASE Sonographer/Allied Health Member/Fellow Member</b>	\$575	\$675
<b>Sonographer/Allied Health Non-Member/Fellow Non-Member*</b>	\$725	\$825
<b>Preconference Optional Session Fees Attendees must register for this workshop in advance in order to attend due to limited seating available.</b>	<b>ASE Member</b>	<b>Non-Member</b>
<b>3D Workshop: October 8, 2016</b>	\$100	\$200
<b>Learning Lab: October 8, 2016</b>	\$350	\$450

Attendees must register in advance in order to attend due to limited seating. The 3D Workshop and Learning Lab run simultaneously; please only register for one session. More information on the educational opportunities below are available online at [ASEcho.org/echoflorida](http://ASEcho.org/echoflorida).

\*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! [ASEcho.org/echoflorida](http://ASEcho.org/echoflorida)**

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

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# ASE Foundation

American Society of Echocardiography  
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Morrisville, NC 27560

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# ECHO FLORIDA

**October 9-11, 2016**

**Preconferences available on October 8**

**October 8: 3D Workshop**

**October 8: Learning Lab**

**October 9-11: Main Conference**

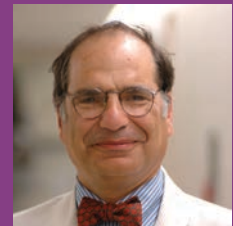
REGISTER NOW at

**[ASEcho.org/echoflorida](http://ASEcho.org/echoflorida)**



**Course Director**

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Columbia University  
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Cleveland Clinic  
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