

# 30<sup>th</sup> Annual Advanced Ultrasound Seminar: OB/GYN

February 22-24, 2007  
Lake Buena Vista, Florida

*Disney's*  
Contemporary Resort



Pre-Conference Workshop  
Physics Refresher & Update  
February 21, 2007

AIUM  
Accreditation Workshop  
February 23, 2007

Abuhamad ~ Benson ~ Doubilet ~ Kremkau ~ Levine ~ Timor ~ Vintzileos ~ Woletz

*Co-Sponsored by:*

**WAKE FOREST**  
UNIVERSITY

SCHOOL of MEDICINE  
THE BOWMAN GRAY CAMPUS



ORLANDO REGIONAL  
HEALTHCARE

*Presented by:*

The Center for Medical Ultrasound of Wake Forest University School of Medicine  
Orlando Regional Healthcare Foundation  
Continuing Medical Education Department, Orlando Regional Healthcare

# Overview

## Description

An intense three-day conference will be presented to illustrate the latest principles and techniques in obstetrical and gynecological ultrasound. The topics will be presented by leaders in the field of diagnostic ultrasound. The intended audience includes physicians and sonographers. Commercial exhibits will display state-of-the-art ultrasound equipment, supplies, and educational materials.

## Objectives

At the conclusion of this CME activity, the participant should be better able to:

- Apply current issues and concerns in the use of clinical and technical ultrasound.
- Compare and relate ultrasound knowledge and skills with peers.
- Practice the latest instrumentation and techniques in obstetrical and gynecological ultrasound.

## Accreditation

Orlando Regional Healthcare is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

## Credit

Orlando Regional Healthcare designates this educational activity for a maximum of 13.5 *AMA PRA Category 1 Credits*.™ Physicians should only claim credit commensurate with the extent of their participation in the activity.

Cognate credits have been applied for through the American College of Obstetricians and Gynecologists.

Sonographers may apply credits toward meeting Continuing Competency Requirements for the American Registry of Diagnostic Medical Sonographers (ARDMS).

**Note:** Separate credits are given for each workshop as follows:

- Principles Refresher and Update: 6.5
- AIUM Accreditation Workshop: 3

## Accommodations

**Disney's Contemporary Resort**  
Guest Room Rate Per Night (plus tax):  
\$210.00 Single/Double Occupancy  
Additional Person (18 years or older)  
\$25 per person per night



©Disney

Rising majestically between the shores of Bay Lake and Seven Seas Lagoon, *Disney's Contemporary Resort* immerses you in a world of modern art and landmark architecture as sleek monorails silently glide through the center of the stunning atrium lobby. You'll enjoy the distinctive style of oversized guest rooms and suites, most with dramatic lakefront or Theme Park views, along with a marina, health club, tennis center and an expansive pool area.

**Disney's Port Orleans Riverside Resort\***

Guest Room Rate Per Night (plus tax):  
\$135.00 Single/Double Occupancy  
Additional Person (18 years or older)  
\$15 per person per night

\*Participants staying at the Port Orleans Riverside Resort will need to arrange transportation to the conference site: Disney's Contemporary Resort Conference Center.

## Reservations

A block of rooms has been reserved from **February 20-26, 2007**. To qualify for the special group rate, contact:

**Disney's Group Reservation Line: 407-824-3869** and refer to the **2007 Ultrasound Conference**. The block will be held until **January 22, 2007**; therefore, we advise you to reserve your lodging as soon as possible. Reservations made after this date will be based on space and rate availability.

**Theme Park Ticket** information is available online at:

[www.tickets.disneyparkevents.com](http://www.tickets.disneyparkevents.com)

For further information regarding the area and its attractions, you may visit the website of the Orlando Convention and Visitors Bureau at [www.orlandocvb.com](http://www.orlandocvb.com).

# Transportation

## Air

For airline reservations and rental car arrangements, please contact:

**Florida Travel Center –  
800-345-1893.**

## Ground

**Hotel Shuttles** from the airport are readily available upon your arrival on Level 1 for approximately \$29 per adult roundtrip.

## **Disney's Magical Express Service**

This exclusive complimentary shuttle and luggage delivery service conveniently takes you from the airport to your *Walt Disney World*® Resort hotel. After obtaining a confirmed room reservation,

call **407-827-6777** to book your *Disney's Magical Express* reservation and refer to the Group Name as *2007 Ultrasound Conference*. To ensure seamless service, please make your express service reservation at least 30 days in advance. Further details are available by following the Air/Ground Transportation link on the conference website at: [www1.wfubmc.edu/ultrasound/seminars/orlando](http://www1.wfubmc.edu/ultrasound/seminars/orlando). *The optional express service is at the discretion of each individual and is not endorsed by Orlando Regional Healthcare or Wake Forest University Health Sciences.*



# Faculty

## Program Co-Directors

### **Lennard D. Greenbaum, MD**

Co-Director, The Hughes Center for Fetal Diagnostics, Winnie Palmer Hospital for Women & Babies, Orlando Regional Healthcare, Orlando, Florida

### **Frederick W. Kremkau, PhD**

Professor and Director, Center for Medical Ultrasound, Wake Forest University School of Medicine, Winston-Salem, North Carolina

## Guest Faculty

### **Alfred Abuhamad, MD**

Mason C. Andrews Chairman of Obstetrics and Gynecology and Professor, Eastern Virginia Medical School, Norfolk, Virginia

### **Carol B. Benson, MD**

Professor of Radiology, Harvard Medical School; Director of Ultrasound and Co-Director of High Risk Obstetrical Ultrasound, Brigham and Women's Hospital, Boston, Massachusetts

### **Peter M. Doubilet, MD, PhD, FAIUM**

Professor of Radiology, Harvard Medical School; Senior Vice Chair of Radiology, Brigham and Women's Hospital, Boston, Massachusetts

### **Deborah Levine, MD**

Associate Professor of Radiology, Harvard Medical School; Director of OB/GYN Ultrasound, Beth Israel Deaconess Medical Center, Boston, Massachusetts

### **Ilan Timor, MD**

Professor of Obstetrics and Gynecology, Director of OB/GYN Ultrasound, New York University School of Medicine, New York, New York

### **Anthony M. Vintzileos, MD, FAIUM**

Professor and Chair, Department of Obstetrics, Gynecology & Reproductive Sciences, UMDNJ-Robert Wood Johnson Medical School, Robert Wood Johnson University Hospital, New Brunswick, New Jersey

### **Paula Woletz, RDMS, RDCS, MPH**

Director of Accreditation, American Institute of Ultrasound in Medicine, Laurel, Maryland

# Pre-Conference Workshop

## February 21

### Physics Refresher and Update: Imaging and Doppler Principles

This full-day Refresher and Update covers the major topics involved in how modern ultrasound imaging and Doppler ultrasound work. Recent technological advances are included.

The course serves three purposes:

- It provides an introduction for participants who are new to the field.
- It provides a review and up-date of recent technological advances for practicing physicians, sonographers, and other health professionals.
- It provides a review for participants preparing for the UPI, CPI, and VPI examinations administered by the ARDMS.

At the conclusion of this CME activity, the participant should be better able to:

- Explain how ultrasound interacts with tissue, how transducers work, and how sonographic and Doppler instruments produce displays from echoes
- Discuss how these principles apply to clinical practice
- Recognize common artifacts
- Apply ultrasound in a prudent manner

This Refresher and Update is presented by Frederick W. Kremkau, PhD, Professor and Director of the Center for Medical Ultrasound at Wake Forest University School of Medicine, Past President of the American Institute of Ultrasound in Medicine, and author of *Diagnostic Ultrasound: Principles and Instruments*, now in its 7th edition.

#### Workshop Credit

Orlando Regional Healthcare designates this educational activity for a maximum of **6.5 AMA PRA Category 1 Credits.**<sup>™</sup> Physicians should only claim credit commensurate with the extent of their participation in the activity. Sonographers may apply credits toward meeting Continuing Competency Requirements for the American Registry of Diagnostic Medical Sonographers (ARDMS).

# Afternoon Workshop

## February 24

### AIUM Accreditation Workshop

Learn about AIUM standards for exam protocols, personnel, quality assurance, record keeping, safety and physical facilities. Attend the workshop to find out the answers to these questions:

- Does your ultrasound practice meet nationally accepted standards?
- What is the AIUM accreditation process?
- What does the accreditation application contain?
- What impact will accreditation will have on your practice?
- Do insurance companies require accreditation?

#### Workshop Credit

The American Institute of Ultrasound in Medicine (AIUM) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The AIUM designates this educational activity for a maximum of **3 AMA PRA Category 1 Credits.**<sup>™</sup> Physicians should only claim credit commensurate with the extent of their participation in the activity. Sonographers may apply credits toward meeting Continuing Competency Requirements for the American Registry of Diagnostic Medical Sonographers (ARDMS).

# Schedule

## Wednesday, February 21 (Optional)

### Pre-Conference Workshop

### Physics Refresher & Update: Imaging and Doppler Principles

7:45-8:30 am	<b>Registration and Continental Breakfast</b> <i>All Lectures Presented by: Frederick W. Kremkau, PhD</i>
8:30-9:30	<b>Sound and Ultrasound</b>
9:30-10:30	<b>Transducers</b>
10:30-10:45	<b>Refreshment Break</b>
10:45-12:15 pm	<b>Imaging Instruments</b>
12:15-12:30	<b>Questions and Answers</b>
12:30-2:00	<b>Lunch on your own</b>
2:00-3:30	<b>Doppler Instruments</b>
3:30-3:45	<b>Refreshment Break</b>
3:45-4:45	<b>Artifacts, QA, and Safety</b>
4:45-5:00	<b>Questions and Answers</b>

## Thursday, February 22, 2007

7:00-8:00 am	<b>Registration and Continental Breakfast – Visit Exhibits</b>
7:55-8:00 am	<b>Welcome and Announcements</b>
8:00-8:40 am	<b>Sonography of Multiple Gestations</b> <i>Carol B. Benson, MD</i>
8:40-9:20 am	<b>The Role of Ultrasound in the Prenatal Detection of Fetal Chromosomal Abnormalities</b> <i>Anthony M. Vintzileos, MD</i>
9:20-10:00 am	<b>Controversial and Potentially Misleading Findings in Obstetrical Ultrasound</b> <i>Peter M. Doubilet, MD, PhD</i>
10:00-10:15 am	<b>Panel Discussion</b> <i>Drs. Benson, Vintzileos and Doubilet</i>
10:15-10:45 am	<b>Refreshment Break – Visit Exhibits</b>
10:45-11:25 am	<b>Fetal Assessment: An Evidenced-Based Approach for Today. The Case for “Condition-Specific” Fetal Testing</b> <i>Anthony M. Vintzileos, MD</i>
11:25 am-12:05 pm	<b>Color Doppler in Obstetrics</b> <i>Carol B. Benson, MD</i>
12:05-12:45 pm	<b>Fetal Growth Restriction: Diagnosis and Management</b> <i>Anthony M. Vintzileos, MD</i>
12:45-1:00 pm	<b>Panel Discussion</b> <i>Drs. Vintzileos and Benson</i>

**Conflict of Interest Policy:** It is the policy of Orlando Regional Healthcare to require disclosure of any significant financial interest or any other relationship a faculty member or a sponsor has with the manufacturer(s) of any commercial products discussed in an educational presentation. This information can be found in the program materials distributed at the meeting.

**Note:** Views expressed in this program are those of the individual speaker and do not necessarily reflect views of Orlando Regional Healthcare or Wake Forest University School of Medicine.

## Friday, February 23, 2007

- 7:00-8:00 am **Registration and Continental Breakfast – Visit Exhibits**
- 7:55-8:00 am **Announcements**
- 8:00-8:40 am **Pitfalls in Emergency Obstetrical Ultrasound**  
*Peter M. Doubilet, MD, PhD*
- 8:40-9:20 am **Fetal Cardiac Evaluation**  
*Alfred Z. Abuhamad, MD*
- 9:20-10:00 am **Fetal Interventional Procedures, Including Cardiac Surgery and the EXIT Procedure**  
*Carol B. Benson, MD*
- 10:00-10:15 am **Panel Discussion**  
*Drs. Doubilet, Abuhamad and Benson*
- 10:15-10:45 am **Refreshment Break – Visit Exhibits**
- 10:45-11:25 am **Fetal Neurosonography: Comprehensive Review**  
*Alfred Z. Abuhamad, MD*
- 11:25 am-12:05 pm **Pathologies of the Posterior Fossa and the Cerebellum**  
*Ilan E. Timor, MD*
- 12:05-12:45 pm **Sonographic/MR Correlation in Obstetrics**  
*Deborah Levine, MD*
- 12:45-1:00 pm **Panel Discussion**  
*Drs. Abuhamad, Timor and Levine*

### AIUM Accreditation Workshop (Optional)

- 2:20–2:30 pm **Registration**
- 2:30-5:30 pm **Workshop**  
*Paula Woletz, RDMS, RDCS, MPH*

## Saturday, February 24, 2007

- 7:00-8:00 am **Registration and Continental Breakfast – Visit Exhibits**
- 7:55-8:00 am **Announcements**
- 8:00-8:40 am **3D in Obstetrics and Gynecology**  
*Alfred Z. Abuhamad, MD*
- 8:40-9:20 am **3D in Gynecology: Luxury or Necessity?**  
*Ilan E. Timor, MD*
- 9:20-10:00 am **Imaging of Ovarian Tumors**  
*Deborah Levine, MD*
- 10:00-10:15 am **Panel Discussion**  
*Drs. Abuhamad, Timor and Levine*
- 10:15-10:45 am **Refreshment Break – Visit Exhibits**
- 10:45-11:25 am **Sonography and Sonohysterography of the Non-Gravid Uterus**  
*Peter M. Doubilet, MD, PhD*
- 11:25 am-12:05 pm **Sonographic Evaluation of Acute Pelvic Pain**  
*Deborah Levine, MD*
- 12:05-12:45 pm **Gyn Cases with Moral**  
*Ilan E. Timor, MD*
- 12:45-1:00 pm **Panel Discussion**  
*Drs. Doubilet, Levine and Timor*

# Registration Information

All fees include lectures, syllabus, continental breakfasts, and refreshment breaks. Receipt of your registration fee will be confirmed by mail unless requested otherwise.

Registration cancellation must be confirmed in writing by February 9, 2007 and a processing fee of \$75 will be assessed. No refunds will be given for no-shows.

In the unlikely event that the program is cancelled, seminar registration fees will be refunded, however, Wake Forest University Health Sciences or Orlando Regional Healthcare are not responsible for any travel or hotel costs you may incur.

## Registration Form

**30th Annual Advanced Ultrasound Seminar: OB/GYN**  
**February 22-24, 2007 ~ Disney's Contemporary Resort ~ Lake Buena Vista, FL**

### Mail or Fax Form and Payment to:

Center for Medical Ultrasound  
Wake Forest University Health Sciences  
Medical Center Boulevard  
Winston-Salem, NC 27157-1039

Telephone: 336-716-4505  
Fax: 336-716-2447  
E-mail: [cmu@wfubmc.edu](mailto:cmu@wfubmc.edu)

**Online Registration:** [www1.wfubmc.edu/ultrasound/seminars/orlando](http://www1.wfubmc.edu/ultrasound/seminars/orlando)

*(Please print clearly or type all information. Form may be duplicated for multiple registrations.)*

Name \_\_\_\_\_  
(First Name) (Last Name)

Degree  MD  DO  RN  RT  RDMS  CNM  FNP  Other \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Daytime Telephone: (\_\_\_\_\_) \_\_\_\_\_ Fax: (\_\_\_\_\_) \_\_\_\_\_

E-mail: \_\_\_\_\_

**Special Needs:** Wake Forest University School of Medicine and Orlando Regional Healthcare adhere to the Americans with Disabilities Act. Please check here and advise the Center for Medical Ultrasound of any special needs you may have for participation in and/or access to this educational activity.

### Pre-Conference Workshop (Optional)

Physics Refresher and Update (Wednesday, 2/21/07) **Fee \$175**

### Afternoon Workshop (Optional)

AIUM Accreditation Workshop (Friday, 2/23/07) **\$ 35**

### Conference Registration

	Received by 1/22/07	Received after 1/22/07
<input type="checkbox"/> Physician	<input type="checkbox"/> \$575	<input type="checkbox"/> \$595
<input type="checkbox"/> Resident (Must submit letter from department chief confirming status)	<input type="checkbox"/> \$475	<input type="checkbox"/> \$495
<input type="checkbox"/> Non-Physician	<input type="checkbox"/> \$475	<input type="checkbox"/> \$495
<input type="checkbox"/> One Day (Circle one: Thursday-Friday-Saturday)	<input type="checkbox"/> \$250	<input type="checkbox"/> \$275

**Total Enclosed \$** \_\_\_\_\_

### Payment Method

Check (Payable to **Wake Forest University Health Sciences-Ultrasound** in U.S. dollars)

MasterCard  VISA

Card # \_\_\_\_\_ Expiration Date \_\_\_\_\_

\_\_\_\_\_  
Print Cardholder's Name

\_\_\_\_\_  
Signature

### Office Use Only:

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# 30<sup>th</sup> Annual Advanced Ultrasound Seminar: OB/GYN

February 22-24, 2007  
Lake Buena Vista, Florida



REGISTER TODAY!

Center for Medical Ultrasound  
Wake Forest University School of Medicine  
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[www.l.wfubmc.edu/ultrasound/seminars/orlando](http://www.l.wfubmc.edu/ultrasound/seminars/orlando)

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