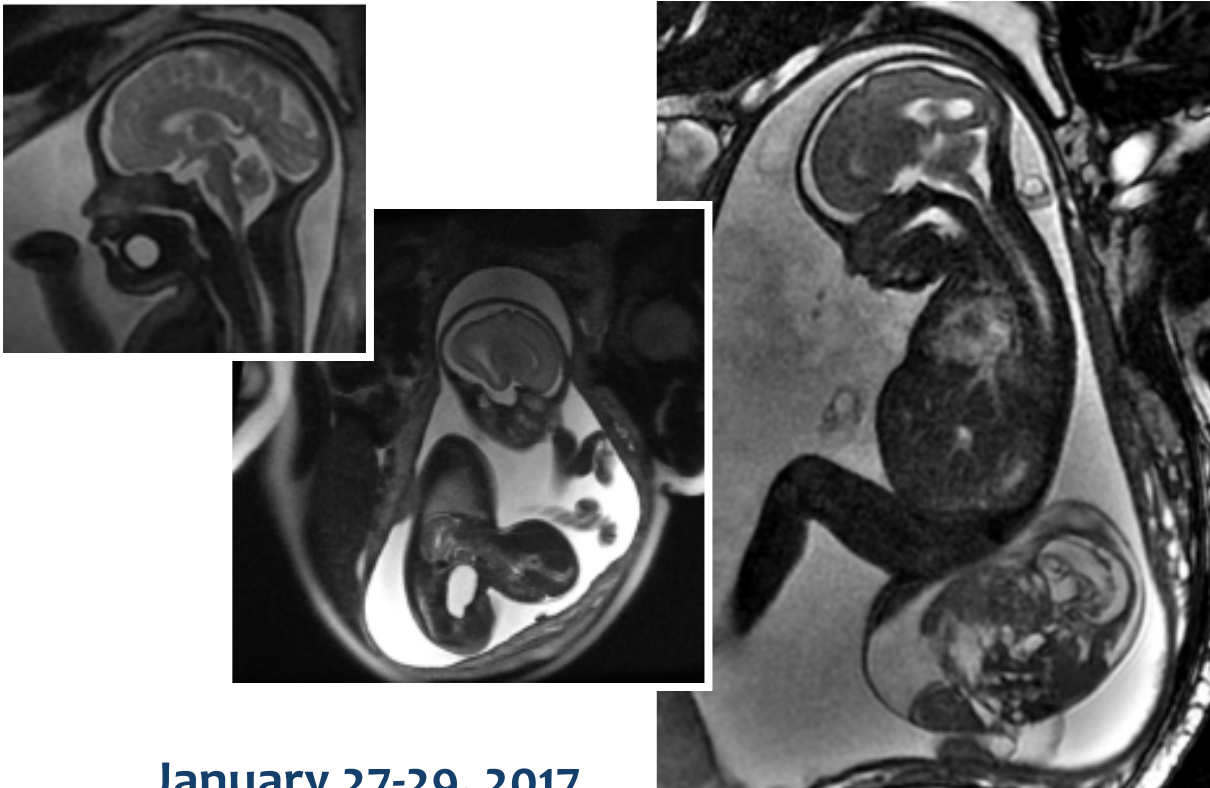




**The Society for Pediatric Radiology**

# **2017 Advances in Fetal and Neonatal Imaging Course**



**January 27-29, 2017**

*The Basics of Fetal Imaging –  
Friday Morning!*

**Wyndham Grand Orlando Resort Bonnet Creek  
Orlando, Florida**

## TARGET AUDIENCE

The target audience for this program includes pediatric radiologists, sonographers, obstetricians, neonatologists, pediatric radiology fellows, radiology trainees, general radiologists, pediatricians involved in the fetal and neonatal imaging and care of pediatric patients.

Learning Objectives:

1. Discuss the basics and advances in fetal and neonatal imaging
2. Recognize and describe progress in research concerning the care and imaging of the pregnant patient, fetus and neonate.
3. Identify challenging issues in perinatal and neonatal medicine

At the completion of this course, participants will be able to understand basic and advanced techniques in fetal and neonatal imaging, and recognize and apply the techniques for advanced diagnosis and improved management.

## CONTINUING MEDICAL EDUCATION

### ACCREDITATION STATEMENT

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education through the joint providership of the American College of Radiology and the Society for Pediatric Radiology. The American College of Radiology is accredited by the ACCME to provide continuing medical education for physicians.

### CREDIT DESIGNATION STATEMENT

The American College of Radiology designates this live activity for a maximum of 20.25 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The American College of Radiology designates this educational activity as meeting the criteria for up to 21.0 Category A credit hours of the ARRT.

## SAM

Qualified on November 28, 2016, select sessions from this activity meet the American Board of Radiology criteria for a self-assessment (SAM) activity and is designated for up to 8 SAM credits toward the ABR Maintenance of Certification Program.

## PROGRAM COMMITTEE & FACULTY

### **Dorothy I. Bulas, MD, FACR, Chair**

Director of Fetal Imaging  
Children's National Medical Center Professor of  
Pediatrics and Radiology  
George Washington University  
Washington, D.C.

### **Judy A. Estroff, MD**

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### **Beth M. Kline-Fath, MD**

Chief of Fetal and Neonatal Imaging  
Professor of Radiology  
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Cincinnati, Ohio

### **Mariana L. Meyers, MD**

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### **Richard B. Parad, MD, MPH**

Neonatologist  
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## INVITED FACULTY

### **Holly A. Hedrick, MD**

Attending Surgeon  
Surgical Director, ECMO Program  
Co-director, Neonatal Surgical Team  
Director, Pulmonary Hypoplasia Program  
Louise Schnauffer Endowed Chair in  
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### **Gregor Kasprian, MD**

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### **Louise Wilkins-Haug, MD, PhD**

Chief, Maternal Fetal Medicine  
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Professor  
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## SPR MEMBER FACULTY

### **Carol E. Barnewolt, MD**

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Assistant Professor of Radiology  
Harvard Medical School  
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### **Brandon P. Brown, MD, MA**

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University Health  
Assistant Professor, Radiology and  
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### **Christopher Cassady, MD**

EB Singleton Department of Pediatric  
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Center  
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### **Luis F. Goncalves, MD**

Co-Director of Fetal Imaging  
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Professor of Radiology and Obstetrics  
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Oakland University  
William Beaumont School of Medicine  
Rochester, Michigan

### **Leann E. Linam, MD**

Interim Chief of Pediatric Radiology  
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Associate Professor of Radiology  
University of Arkansas for Medical  
Sciences  
Little Rock, Arkansas

### **Amy R. Mehollin-Ray, MD, FAAP**

Chief, Division of Fetal Radiology  
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Assistant Professor of Radiology  
Baylor College of Medicine  
Houston, Texas

### **David M. Mirsky, MD**

Assistant Professor of Radiology  
University of Colorado School of  
Medicine  
Director, Pediatric Neuroradiology  
Fellowship  
Children's Hospital Colorado  
Aurora, Colorado

### **Erika Rubesova, MD**

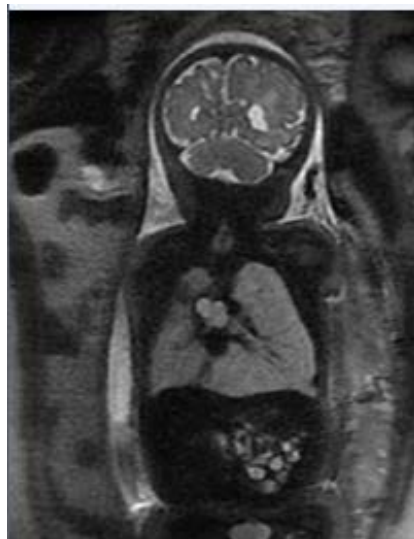
Clinical Associate Professor  
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Stanford, California

### **Eva I. Rubio, MD**

Children's National Medical Center  
Assistant Professor of Radiology  
George Washington School of Medicine  
Washington, DC

### **Teresa Victoria, MD, PhD**

Associate Professor  
Children's Hospital of Philadelphia  
Philadelphia, Pennsylvania



## PROGRAM - FRIDAY, January 27, 2017

<b>7:00 AM</b>	<b>7:45 AM</b>	<b>Registration &amp; Continental Breakfast</b>
<b>7:45 AM</b>	<b>8:00 AM</b>	<b>Welcome and Introduction</b>
<b>8:00 AM</b>	<b>9:50 AM</b>	<b>The Basics of Fetal Imaging Part 1</b> <i>Moderator: Dorothy I. Bulas, MD, FACR</i>
8:00 AM	8:35 AM	Prenatal US 101 with Hands-On Demonstration Judith A. Estroff, MD
8:35 AM	8:55 AM	Fetal Doppler: What We Need to Know Luis Goncalves, MD
8:55 AM	9:20 AM	Basic Fetal Cardiac Exam Luis Goncalves, MD
9:20 AM	9:40 AM	Fetal 3D US with Hands-On Demonstration Luis Goncalves, MD
9:40 AM	9:50 AM	Questions & Answers
<b>9:50 AM</b>	<b>10:10 AM</b>	<b>Break</b>
<b>10:10 AM</b>	<b>12:15 PM</b>	<b>The Basics of Fetal Imaging Part 2</b> <i>Moderator: Dorothy I. Bulas, MD, FACR</i>
10:10 AM	10:25 AM	Fetal MRI: How to Start a Program Brandon P. Brown, MD, MA
10:25 AM	10:45 AM	Fetal MR Protocols Carol E. Barnewolt, MD
10:45 AM	11:15 AM	Normal Fetal Brain Gregor J. Kasprian, MD
11:15 AM	11:30 AM	Normal Fetal Face and Neck Maria A. Calvo-Garcia, MD
11:30 AM	11:45 AM	Normal Fetal Chest Amy R. Mehollin-Ray, MD
11:45 AM	12:05 PM	Normal Fetal Abdomen/Extremities Erika Rubesova, MD
12:05 PM	12:15 PM	Questions and Answers
<b>12:15 PM</b>		<b>Adjourn</b>

## PROGRAM - FRIDAY, January 27, 2017 (cont.)

12:20 PM	1:30 PM	<b>Lunch: Ask the Experts</b> <i>(The Basics of Fetal Imaging Registrants Only)</i>
1:30 PM	3:20 PM	<b>Updates in Genetics: Part 1</b> <i>Moderator: Judith A. Estroff, MD</i>
1:30 PM	2:00 PM	Have We Done Our Last Amniocentesis – Noninvasive Screening for Aneuploidy Louise Wilkins-Haug, MD, PhD
2:00 PM	2:20 PM	Syndrome Evaluation by US/MR Case Based Judith A. Estroff, MD
2:20 PM	2:40 PM	Case Based Mimics of Syndromes: Infection/Diabetes/Dysplasia Beth M. Kline-Fath, MD
2:40 PM	3:10 PM	Aneuploidy - What are the Outcomes? Louise Wilkins-Haug, MD, PhD
3:10 PM	3:20 PM	Questions & Answers
3:20 PM	3:40 PM	<b>Break</b>
3:40 PM	5:40 PM	<b>Updates in Genetics: Part 2</b> <i>Moderator: Dorothy I. Bulas, MD, FACR</i>
3:40 PM	4:10 PM	How Genetic Counselors Help Fetal Imaging Assessment Eva I. Rubio, MD; Margaret B. Menzel, MS, CGC; Anne K. Lawrence, MS, CGC
4:10 PM	4:35 PM	Prenatal Imaging of Skeletal Dysplasia Dorothy I. Bulas, MD, FACR
4:35 PM	4:55 PM	Breaking News to Families - Genetic Counseling Perspective Margaret B. Menzel, MS, CGC and Anne K. Lawrence, MS, CGC
4:55 PM	5:40 PM	Interactive Panel - Case Based Aneuploidy/Syndrome Work-up and Outcomes <i>Moderator: Dorothy I. Bulas, MD, FACR</i> <i>Panelists: Louise Wilkins-Haug, MD, PhD;</i> <i>Margaret B. Menzel, MS, CGC;</i> <i>Anne K. Lawrence, MD, CGC;</i> <i>Judith A. Estroff, MD; Eva I. Rubio, MD</i>
5:40 PM		<b>Adjourn</b>

## PROGRAM - SATURDAY, January 28, 2017

<b>6:45 AM</b>	<b>7:45 AM</b>	<b>Continental Breakfast</b>
<b>7:45 AM</b>	<b>8:50 AM</b>	<b>Fetal CNS Part I (SAM Session)</b> <i>Moderator: Beth M. Kline-Fath, MD</i>
7:45 AM	8:00 AM	Fetal Evaluation of CNS Infections David M. Mirsky, MD
8:00 AM	8:20 AM	Cortical Dysplasias Gregor J. Kaspryan, MD
8:20 AM	8:40 AM	Fetal Evaluation of Midline CNS Anomalies David M. Mirsky, MD
8:40 AM	8:50 AM	SAM Questions and Q&A
8:50 AM	9:20 AM	Panel: Case Based Fetal CNS Abnormalities- <i>Moderator: Beth M. Kline-Fath, MD</i> Panelists: David Mirsky, MD; Gregor J. Kaspryan, MD; Margaret B. Menzel, MS, CGC
<b>9:20 AM</b>	<b>10:30 AM</b>	<b>Fetal CNS Part II (SAM Session)</b>
9:20 AM	9:40 AM	Advanced Fetal CNS MRI Techniques Gregor J. Kaspryan, MD
9:40 AM	9:55 AM	Sedating the Neonate: What We Need to Know Richard B. Parad, MD, MPH
9:55 AM	10:15 AM	Neonatal Brain MR Protocols Beth M. Kline-Fath, MD
10:15 AM	10:30 AM	SAM Questions and Q&A
<b>10:30 AM</b>	<b>10:50 AM</b>	<b>Break</b>
<b>10:50 AM</b>	<b>12:15 PM</b>	<b>Fetal Chest (SAM Session)</b> <i>Moderator: Christopher I. Cassady, MD</i>
10:50 AM	11:10 AM	Case Based Fetal Lung Masses Leann E. Linam, MD
11:10 AM	11:20 AM	Pulmonary Lymphangiectasia – More Common Than You Think Dorothy I. Bulas, MD, FACR
11:20 AM	11:35 AM	Measuring Lung Volumes: How, Why, When Amy R. Mehollin-Ray, MD
11:35 AM	12:00 PM	Updates on Fetal Chest Surgery Holly A. Hedrick, MD

## PROGRAM - SATURDAY, January 28, 2017 (cont.)

12:00 PM	12:15 PM	SAM Questions
12:20 PM	12:40 PM	Panel: Approach to CDH Counseling <i>Moderator: Christopher I. Cassady, MD</i> Panelists: Holly A. Hedrick, MD; Mariana L. Meyers, MD; Gregor J. Kasparian, MD; Amy R. Mehollin-Ray, MD; Anne K. Lawrence, MS, CGC
<b>12:45 PM</b>	<b>1:45 PM</b>	<b>Lunch: Ask the Experts</b>
<b>1:45 PM</b>	<b>3:40 PM</b>	<b>Fetal Gastrointestinal &amp; Genitourinary Anomalies (SAM Session)</b> <i>Moderator: Mariana L. Meyers, MD</i>
1:45 PM	2:05 PM	Case Based Severe GU Anomalies Judy Estroff, MD
2:05 PM	2:25 PM	Fetal Intervention for GU Anomalies Holly A. Hedrick, MD
2:25 PM	2:45 PM	Advanced Fetal GI Evaluation: When Is MR Useful? Eva I. Rubio, MD
2:45 PM	3:05 PM	Case Based Ventral Wall Defects Teresa Victoria, MD, PhD
3:05 PM	3:25 PM	Management of Lung Hypoplasia- Giant Omphalocele Holly A. Hedrick, MD
3:25 PM	3:40 PM	SAM Questions
<b>3:40 PM</b>	<b>4:00 PM</b>	<b>Break</b>
<b>4:00 PM</b>	<b>5:20 PM</b>	<b>Fetal and Maternal Issues (SAM Session)</b> <i>Moderator: Judith A. Estroff, MD</i>
4:00 PM	4:20 PM	Fetal Cardiac Intervention for Hypoplastic Left Heart Syndrome Louise Wilkins-Haug, MD, PhD
4:25 PM	4:45 PM	Fetal Imaging of Twins Mariana L. Meyers, MD
4:45 PM	5:05 PM	Placental Imaging Christopher I. Cassady, MD
5:05 PM	5:10 PM	Questions and Answers
5:10 PM	5:20 PM	SAM Questions



## PROGRAM - SATURDAY, January 28, 2017 (cont.)

5:20 PM	6:00 PM	Panel: Invited Interesting Chest, GI & GU Cases <i>Moderator: Judith A. Estroff, MD</i> Panelists: Holly A. Hedrick, MD; Louise Wilkins-Haug, MD, PhD; Teresa Victoria, MD, PhD; Christopher I. Cassady, MD; Mariana L. Meyers, MD; Anne K. Lawrence, MS, CGC Cases submitted by audience
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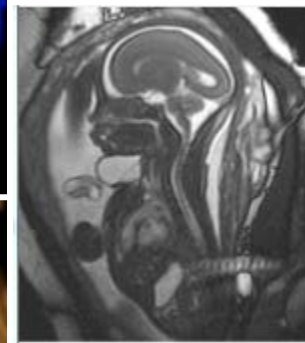
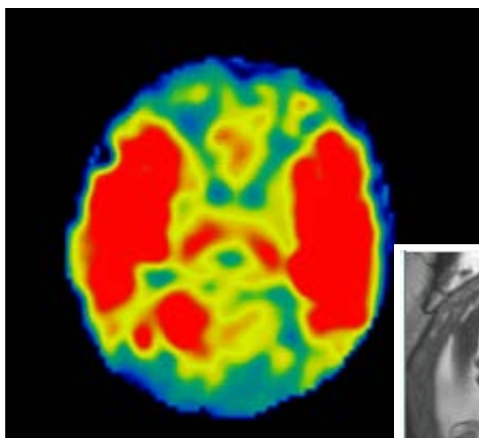
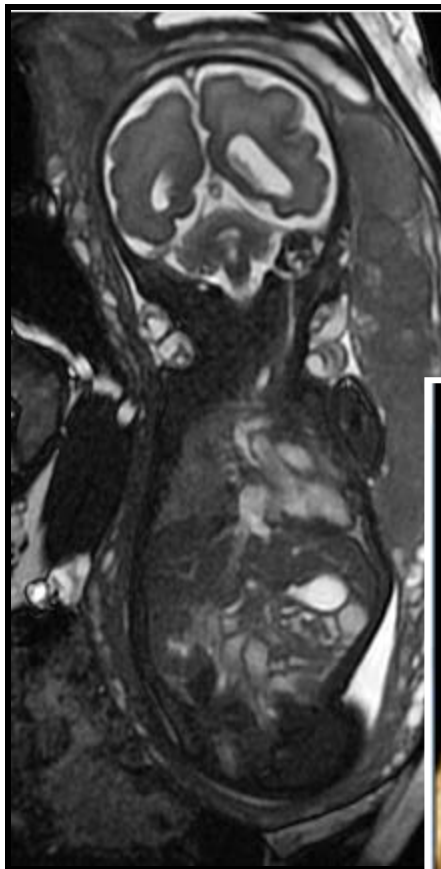
6:00 PM	<b>Adjourn</b>
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## PROGRAM - SUNDAY, January 29, 2017

6:45 AM	8:00 AM	<b>Continental Breakfast</b>
8:00 AM	10:45 AM	<b>Advanced Imaging Part 1</b> <i>Moderator: Beth M. Kline-Fath</i>
8:00 AM	8:20 AM	3D US: How Does It Help? Luis Goncalves, MD
8:20 AM	8:40 AM	3D MR Modeling: How Does It Help? David M. Mirsky, MD
8:40 AM	8:55 AM	Fetal Imaging in Europe: Difference and Similarities Gregor J. Kasprian, MD
8:55 AM	9:25 AM	3T: Tricks of the Trade Teresa Victoria, MD, PhD
9:25 AM	9:45 AM	The Future of Fetal MRI – Spectroscopy/FMR/DTI/Volumes Gregor J. Kasprian, MD
9:45 AM	9:55 AM	Questions and Answers
9:55 AM	10:45 AM	Panel: Interesting Cases from Your Institution <i>Moderator: Judith A. Estroff, MD</i> Panelists: Gregor J. Kasprian, MD; Luis Goncalves, MD; David M. Mirsky, MD; Teresa Victoria, MD PhD; Beth M. Kline-Fath, MD
10:45 AM	11:00 AM	<b>Break</b>
11:00 AM	12:30 PM	<b>Advanced Imaging Part 2</b> <i>Moderator: Dorothy I. Bulas, MD, FACR</i>
11:00 AM	11:20 AM	Advanced Fetal Skeletal Imaging Erika Rubesova, MD

## PROGRAM - SUNDAY, January 29, 2017 cont.

11:00 AM	11:20 AM	Advanced Fetal Skeletal Imaging Erika Rubesova, MD
11:20 AM	11:40 AM	Fetal MRI Artifacts: What to Do? Carol E. Barnewolt, MD
11:40 AM	12:00 PM	Neonatal Electrical Impedence Tomography Richard B. Parad, MD, MPH
12:00 PM	12:15 PM	Updates in NICU MRI Beth M. Kline-Fath, MD
12:15 PM	12:30 PM	Questions and Answers
	<b>12:30 PM</b>	<b>Adjourn</b>



# Registration and Hotel Information

	Early	Regular
SPR Member Physician	\$600	\$650
Non-Member Physician	\$700	\$750
Active Duty Military	\$500	\$550
In-Training (Med. Student, Resident, Fellow)	\$300	\$350
Technologist/Allied Health Professional	\$300	\$350
Basics of Fetal Imaging Course * (Friday morning)	\$150	\$175

*\*Separate from the Course rate. One must attend the Course to participate and register for the Basics of Fetal Imaging Course.*

Registration fees are in US Dollars . Fees for the SPR 2017 Fetal and Neonatal Imaging Course include tuition, teaching materials, continental breakfasts, coffee breaks and lunch on Saturday. Lunch on Friday will only be provided for registrants of The Basics of Fetal Imaging Course.

**Early – On or before 11/25/2016 • Regular – 11/26/2016-1/13/2017**

*An additional fee applies to onsite registrations.*

**REGISTER ONLINE [HERE](#)**

*Be sure to review the cancellation and no-show policies listed on the online registration site.*

**Conference Hotel – Wyndham Grand Orlando Resort Bonnet Creek**  
14651 Chelonia Pkwy • Orlando, Florida 32821

## **Room Reservations:**

Phone: 1-800-996-3426

Online: Please use this link.

*(You must identify yourself as being a part of The Society for Pediatric Radiology Group or reference the group code, 01266795SPR to take advantage of the discounted group rate.)*

**Room Rate:** \$189 Single/Double

**Check-in Time:** 4:00 p.m. Eastern Time

**Check-out Time:** 11:00 a.m. Eastern Time

*The above hotel fees are per night and are exclusive of applicable taxes, which are 12.5% at the time of posting and are subject to change.*

The cutoff date for reservations is **Friday, December 30, 2016 at 5:00 p.m. Eastern Time** . Do note that reservations may sell out prior to the cutoff date; therefore, it is recommended that you book your early. Reservations made after the cutoff date and time will be based on the room availability, and the group rate cannot be confirmed.

**Don't forget to mention the Course on social media: #SPRFN17**

# MEETING CONTACT

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For assistance with registration,  
please contact (800) 373-2204.  
For all other inquiries, dial  
(703) 648-0680

## **The SPR 2017 Advances in Fetal and Neonatal Imaging Course**

