SPR 2010

BOSTON

April 13–14, Postgraduate Course
April 14–17, 53rd Annual Meeting
THE BOSTON PARK PLAZA HOTEL & TOWERS, BOSTON, MASS.
President’s Message

“Be sincere, be brief, be seated.”
—Franklin D. Roosevelt

FROM: Neil Johnson, MBBS
President, The Society for Pediatric Radiology (SPR)

ISSUE: No one reads the President’s Message!

BACKGROUND:
- The SPR Annual Meeting is the scientific and educational highlight of the SPR year. Welcome! Participate, debate, enjoy, but do not plan to sit still.
- Annual SPR Course is organized by Drs. Jim Donaldson and Cynthia Rigsby. Learn more than you ever imagined.
- Refresher Courses are organized by Drs. George Taylor and Michael Callahan. More great education.
- Theme: Senior SPR leaders are working with young, developing SPR leaders. The torch is being passed; the future of the SPR is assured.
- Neuhauser Lecturer, Dr. Regina Herzlinger, of the Harvard Business School, is a renowned expert in U.S. health care organization, financing, and politics. Do not miss this if you are concerned about the organization of health care in North America.
- All current practice and education was once known as “Research”. The academic papers and electronic posters are the absolute backbone of the SPR Annual Meeting. The format of the paper sessions is a little different.
- Sessions start with a short clinical highlight generally given by a Boston clinician or researcher, followed by the papers, with a single question and answer time at the end of each session. All will be good, some will be excellent, and a few will win awards. Don’t be left behind! See the future ...
- Boston was chosen for its amazing collection of first-class academics, its history, and the great subtropical weather.
- The Hotel is a 1930s renovated classic, central to all that matters in Boston. We know the rooms are a little small, but we think you’ll enjoy the hotel’s charm.
- Image Gently™ has gone viral internationally. What a wonderful, generous, and timely SPR-led initiative!
- The SPR and the other founding organizations simply did “the right thing” for children. Don’t miss the International Image Gently Panel on Thursday morning.
- Jeopardy… We are all in jeopardy. Wednesday Evening — Don’t miss the medical jeopardy game.
- Friday Banquet: Samba was last year! Didgeridoo meets Irish dancing this year. Ouch!
- Saturday Morning: The debates and the learning continue. Not to be missed, even if you stayed up all night.

ACTION ITEMS:

Objectives

The Society for Pediatric Radiology (SPR) Annual Meeting and Postgraduate Course will provide pediatric and general radiologists with an opportunity to do the following:

1. Summarize current information on state-of-the-art pediatric imaging and the practice of pediatric radiology.
2. Describe new technologies for pediatric imaging such as cone beam CT/interventional procedure guidance, MR urography, cardiac MRI — especially related to congenital heart disease. You’ll also understand 3D and advanced workstation use and capabilities and be able to successfully apply the knowledge and skills appropriately.
3. Review common problems facing pediatric radiologists and possible solutions, including PACS systems, teleradiology equipment and technology, patient safety initiatives and tracking, and organization of interventional radiology and vascular access services.
4. Evaluate and apply organizational principles and techniques of minimizing radiation exposure during diagnostic imaging of children.
5. Review the latest approaches to pediatric imaging and correlate with radiation reduction, procedure safety, and clinical outcomes.
6. Describe new advances in research and imaging.
7. Review the broad scope of pediatric radiology as it relates to everyday practice.

At the conclusion of the experience, participants should have an improved understanding of the technologies discussed, increasing awareness of the hazards of diagnostic radiation to children and ways to minimize them, and an improved general knowledge of pediatric radiology.

Cover photo courtesy of George A. Taylor, MD
Special Sessions

Junior SPR Program

This is a social and educational group for residents, fellows, and recent graduates of fellowship programs, created to address the unique needs of those members who have recently joined our society. Encourage your young colleagues to attend! This is the future of the SPR.

Medical Jeopardy Panel

As a kickoff to the Welcome Reception on Wednesday evening, we will have some fun with “Medical Jeopardy”!

Based on the ever-popular “Jeopardy” game show, three SPR teams will play against each other for your entertainment. Each team will include a prominent SPR personality, a representative of our major commercial sponsors, and a community-based pediatric radiologist. You can be sure that we will choose vocal and entertaining people for the teams.

The software and equipment for the game has been developed by Doan N. Vu, MD, interventional radiologist extraordinaire at the University of Cincinnati. The game was wildly popular at last year’s RSNA meeting.

This is an event not to be missed. See your favorite pediatric radiologists, vendors, and other worthy individuals stumble or shine in categories like “Obscure JCAHO Rules for $200,” “SPR History for $400,” and “Ultrasound Physics for $100”!

Pediatric Interventional Session

The goals of this session include review of clinical pediatric IR topics such as transplant interventions, evaluation and IR treatment of pediatric liver masses, and use of cone beam CT in pediatric interventions. In addition, there will be a discussion of the pros and cons of combined IR/surgery cases, an area of active growth. Lastly, speakers from three different institutions will present their tips for starting or supporting a pediatric IR practice, covering clinical care outside the angio suite, use of physician extenders in the room, and practical steps for negotiating needed resources for your practice.

Pediatric Neuroradiology Session

The Pediatric Neuroradiology session will be broken down into two separate sessions to allow for a more focused look at the following topics:

**Pediatric Neuro-Oncology: Issues and Answers**

Despite advances in detection and therapy, pediatric brain tumors remain the leading cause of cancer death in children. However, exciting inroads have been made in the understanding of the physiology of pediatric brain tumors, which has led to new targeted treatment strategies that hold great promise. With these new strategies, the role of the radiologist in diagnosing and monitoring these cases has evolved. This session will review the latest advances in the field of pediatric neuro-oncology, from the perspective of the oncologist-researcher, the pediatric neuroradiologist, and the MR spectroscopist, with an eye toward future developments and successes in the treatment of pediatric brain tumors.

**Neonatal Brain Injury: Issues and Answers (SAM Session)**

One of the most intimidating neuroradiology studies encountered by pediatric radiologists is the brain-injured neonate. Not only are these fragile patients difficult to care for and manage in the radiology department, their brains respond in atypical fashion to a variety of insults, resulting in interpretations that are filled with hesitation and uncertainty. In the first decade of the 21st century, researchers and clinicians alike have gained new insight into the pathophysiology of neonatal brain injury, and have developed new techniques to evaluate it. This SAM session will present and discuss some of these insights and methodologies to enable the participant to effectively apply new knowledge and techniques to more accurately and confidently assess these children.

**Pediatric Nuclear Medicine Session (SAM Session)**

Hybrid imaging is here to stay! Using a case-based approach, this program is aimed at improving interpretive skills that pertain to pediatric PET, PET/CT, SPECT/CT, as well as conventional nuclear medicine studies. Learn strategies to reduce patient dose while maintaining image quality for both conventional and hybrid nuclear medicine examinations. Presenters will offer practical tips for patient preparation, pediatric-specific techniques, and protocols as well as demonstrate imaging artifacts and variants. Instructors will also address the role of nuclear medicine as it compares with anatomic modalities. Participants will review the latest indications for hybrid nuclear imaging as it relates to tumor assessment and therapeutic response monitoring. The combination of challenging cases and didactic material will heighten participants’ awareness of common and uncommonly imaged pediatric disease entities, their differential diagnosis, and potential pitfalls that may result in misdiagnosis.

**Cardiovascular Course**

Back by popular demand! This special morning session will be held on Saturday, April 17, and will be a technical and clinical overview of MR imaging of pediatric cardiovascular disease. The course will cover cardiac MR sequences and imaging planes, as well as an overview of the segmental approach and review of current surgeries for congenital heart disease. This session will continue to serve as a prerequisite for individuals planning to attend future training and credentialing courses in MR imaging of pediatric cardiovascular disease at the ACR Learning Center.

**Pediatric 3D Advanced Imaging and Informatics (PAI) Curriculum**

PAI, 2010 features two morning Workshops, Workstation Hands-on Training, and a lunch-time Read With the Expert session.
Workshops
The workshops will be held on April 15 and 16, from 7 a.m. to 8:25 a.m. The first workshop will focus on musculoskeletal, while the second will focus on cardiothoracic applications. State-of-the-art hot topics in image post-processing and utilization will be presented. This includes discussions on current and future potential roles of computer-aided detection.

Workstation Hands-on Training
Single and group workstation training will be offered in a dedicated breakout room April 14–16. Application trainers from GE, Philips, Siemens, TeraRecon, and Vital Images will participate. Attendees will review specific features of the workstations and also learn how to apply the latest workstation techniques for advanced pediatric imaging and analysis. Twenty-minute training sessions with one or more of the participating vendors can be reserved online, in advance of the conference at www.pedrad.org on the Meetings page, and can also be booked during the meeting. Group times are also available over the breaks and are 30 minutes in length.

Read With the Expert
This will be a novel SPR lunch-time event on Wednesday, April 14. Experts will present a range of pediatric cases on platforms from Philips, Siemens, and Vital Images, highlighting workstation software, tool functions, and workflow. Experts will also offer “tricks of the trade” to optimize workstation utilization. Interactive questions will be presented to the audience by the moderator. Lunch will be provided. Reservations can be made on the Meetings page at www.pedrad.org. Space is limited to 100 people.

4th Annual Education Session: Update in the Latest and Greatest Techniques in Education
This four-hour session is open to all who are interested in advances in learning and education. Topics will include tips in teaching and learning effectively, descriptions of the newest educational technologies available, as well as an interactive workshop where participants are invited to show and discuss their latest innovations in advancing education. We ask that every attendee bring an educational material (patient handout, booklet on radiation safety, lecture, ANY teaching material) that they are willing to briefly discuss and share at a round-table discussion. We ask also for each attendee to bring 10 copies of a CD with this material that they are willing to give to those at their table for use at their institution.

Acknowledgments
The SPR gratefully acknowledges the support of the following Platinum-level sponsors:

GE Healthcare
PHILIPS
SIEMENS
TOSHIBA
Leading Innovation
Guest Faculty Listing (Nonmembers of the SPR)

Emile A. Bacha, MD
Associate Professor of Surgery, Harvard Medical School
Senior Associate, Cardiac Surgery
Children's Hospital Boston, Boston, Mass.

Donald S. Bae, MD
Assistant Professor of Orthopedic Surgery, Harvard Medical School
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Stefan Blüml, PhD
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Ximena Ortega, MD
Pediatric Radiologist, Clinica Las Condes
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Debra L. Weiner, MD, PhD
Assistant Professor of Pediatrics, Harvard Medical School
Medical Director, Audiology & Cochlear Implant Programs
Children's Hospital Boston, Boston, Mass.
Postgraduate Course SPR 2010
Imaging Challenges and Clinical Perspectives in Pediatric Radiology

Monday, April 12
3 p.m. – 6 p.m. Registration

Tuesday, April 13
7 a.m. – 8 a.m. Continental Breakfast
7 a.m. – 5 p.m. Registration
7:50 a.m. – 8 a.m. Welcome and Introduction
James S. Donaldson, MD, FACR, and Cynthia K. Rigsby, MD

Liver Imaging
Paul S. Babyn, MD, Moderator
8 a.m. – 8:25 a.m. MRI of the Liver: “How to Do It”
Shreyas S. Vasanawala, MD, PhD
8:25 a.m. – 8:50 a.m. Cross-Sectional Imaging of Liver Pathology
Kathleen H. Emery, MD
8:50 a.m. – 9:15 a.m. Imaging of the Transplant Liver
Paul S. Babyn, MD
9:15 a.m. – 9:40 a.m. IR of the Liver
Philip R. John, MBChB, FRCR
9:40 a.m. – 9:55 a.m. Question and Answer
9:55 a.m. – 10:10 a.m. Break

Musculoskeletal: The Large Joints
Tal Laor, MD, Moderator
10:10 a.m. – 10:35 a.m. MRI of the Knee: Key Points in the Pediatric Population
Peter J. Strouse, MD
10:35 a.m. – 11 a.m. MRI of the Shoulder: Overuse Injuries
Kelley W. Marshall, MD
11 a.m. – 11:25 a.m. Femoral-Acetabular Impingement: Treatment Options and Results
Michael B. Millis, MD
11:25 a.m. – 11:50 a.m. MRI of the Hip
Tal Laor, MD
11:50 a.m. – 12:05 p.m. Question and Answer
12:05 p.m. – 1:30 p.m. Lunch Break (on your own)

Musculoskeletal: Clinical, Imaging, and IR Challenges
James S. Donaldson, MD, FACR, Moderator
1:30 p.m. – 1:55 p.m. Neurocutaneous Syndromes: The Pediatrician’s Challenges
Robert Listernick, MD
1:55 p.m. – 2:20 p.m. Evaluation of Pediatric Musculoskeletal Lesions
Mary R. Wyers, MD
2:20 p.m. – 2:45 p.m. IR Challenges in the MSK System
John M. Racadio, MD
2:45 p.m. – 3 p.m. Question and Answer
3 p.m. – 3:30 p.m. Break

Radiologists in the Workplace — An Interactive Session
Stuart A. Royal, MD, Moderator
(Each session begins with a 15-minute talk followed by 10 minutes for Q&A.)
3:30 p.m. – 3:55 p.m. The Pediatric Radiologist in Academics
George A. Taylor, MD
3:55 p.m. – 4:20 p.m. The Pediatric Radiologist in Private Practice
Susan Palasis, MD
4:20 p.m. – 4:45 p.m. Issues for Women in Pediatric Radiology
M. Ines Boechat, MD, FACR
4:45 p.m. – 5:10 p.m. The Newly Graduated Pediatric Radiologist
Sarah S. Milla, MD

Wednesday, April 14
7 a.m. – 8 a.m. Continental Breakfast
7 a.m. – 6 p.m. Registration
7:50 a.m. – 8 a.m. Introduction and Announcements
James S. Donaldson, MD, FACR, and Cynthia K. Rigsby, MD

Neuroimaging
Francine M. Kim, MD, Moderator
8 a.m. – 8:25 a.m. Sensorineural Hearing Loss: A Medical and Surgical Perspective
Nancy M. Young, MD
8:25 a.m. – 8:50 a.m. Temporal Bone Imaging: Sensory Neural Hearing Loss and Cochlear Implants
Francine M. Kim, MD
8:50 a.m. – 9:15 a.m. C-spine Trauma
Joseph J. Junewick, MD
9:15 a.m. – 9:40 a.m. Head and Neck Neoplasms in Children
Caroline D. Robson, MD
9:40 a.m. – 9:55 a.m. Question and Answer
9:55 a.m. – 10:20 a.m. Break

Tetralogy of Fallot
Cynthia K. Rigsby, MD, Moderator
10:20 a.m. – 10:45 a.m. Imaging of Tetralogy
Laureen M. Sena, MD
10:45 a.m. – 11:10 a.m. Surgical Treatment of Tetralogy
Emile A. Bacha, MD
11:10 a.m. – 11:35 a.m. Management of Tetralogy From Birth Through Adulthood
Tal Geva, MD
11:35 a.m. – 11:50 a.m. Question and Answer
Registration in the lunch sessions listed below is required in advance. Please consult the registration form.

Noon – 1:30 p.m.  Lunch Break

• Community- and University-Based Pediatric Radiologists Joint Lunch

• AAWR Luncheon
  Journeys in Radiology Quality and Safety
  Kimberly E. Applegate, MD, MS, FACR

• 3D Read With the Expert Lunch
  Supported by Philips Healthcare, Siemens Healthcare, and Vital Images

1:35 p.m. – 1:45 p.m.  Welcome
  Neil D. Johnson, MBBS — SPR
  President

1:45 p.m. – 2:30 p.m.  Edward B. Neuhauser Lecture
  The Economic Basis of Change in Health Care
  Regina E. Herzlinger
  Nancy R. McPherson, Professor of Business Administration, Chair, Harvard Business School, Boston

2:30 p.m. – 3:30 p.m.  Scientific Papers — Functional Imaging

3:30 p.m. – 3:50 p.m.  Break

3:50 p.m. – 5:10 p.m.  Scientific Papers — Functional Imaging

5:15 p.m. – 5:45 p.m.  Gold Medal and Pioneer Award Ceremony

5:45 p.m. – 6:30 p.m.  Medical Jeopardy Panel

6:30 p.m. – 7:45 p.m.  Welcome Reception

Thursday, April 15

6:45 a.m. – 8 a.m.  Continental Breakfast

6:45 a.m. – 5:30 p.m.  Registration

7 a.m. – 8:25 a.m.  Image Gently Panel:
  International Perspectives on Radiation Protection for Children
  Kimberly E. Applegate, MD, MS, FACR, and Marilyn J. Goske, MD, Moderators
  Timothy M. Cain, MBBS, Donald P. Frush, MD, FACR, Hyun Woo Goo, MD, PhD, Henrique M. Lederman MD, PhD, Ximena Ortega, MD, Catherine M. Owens, MD

7 a.m. – 8:25 a.m.  PAI, 3D Workshop — Musculoskeletal Imaging
  Jeffrey C. Hellinger, MD, Monica S. Epelman, MD, Moderators

7 a.m. – 7:02 a.m.  Introduction
  Jeffrey C. Hellinger, MD

7:03 a.m. – 7:11 a.m.  Advanced Imaging Techniques for the Musculoskeletal System: From Fetal MRI to the Post-Operative Spine

7:12 a.m. – 7:27 a.m.  Dual Energy Applications for Pediatric Musculoskeletal CT
  Paul S. Babyn, MD

7:28 a.m. – 7:43 a.m.  Imaging With Orthopedic Hardware: How I Optimize My 3D CT and MRI Musculoskeletal Protocols
  John D. MacKenzie, MD, MS

7:44 a.m. – 7:59 a.m.  Computer Aided Detection for Pediatric Musculoskeletal Disorders: Are We Ready?
  Rick R. van Rijn, MD, PhD

8 a.m. – 8:12 a.m.  Forensic CT and MRI:
  Workstation Applications for the Musculoskeletal System and Beyond
  Jeffrey C. Hellinger, MD

8:13 a.m. – 8:25 a.m.  Discussion

8:30 a.m. – 12:30 p.m.  Interventional Session — Concurrent

8:30 a.m. – 8:50 a.m.  Current Advances in Minimally Invasive Pediatric Surgery
  Bradley C. Linden, MD

9 a.m. – 10:10 a.m.  Scientific Papers — Interventional

10:10 a.m. – 10:30 a.m.  Question and Answer

10:30 a.m. – 11 a.m.  Break

11 a.m. – 11:20 a.m.  Radiation Safety — Step Lightly
  Manrita K. Sidhu, MD

11:20 a.m. – 12:20 p.m.  Scientific Papers — Interventional

12:20 p.m. – 12:30 p.m.  Question and Answer

8:30 a.m. – 12:30 p.m.  Fetal Session — Concurrent

8:30 a.m. – 8:50 a.m.  Congenital Diaphragmatic Hernia
  Jay M. Wilson, MD

9 a.m. – 10:10 a.m.  Scientific Papers — Fetal

10:10 a.m. – 10:30 a.m.  Question and Answer

10:30 a.m. – 11 a.m.  Break

11 a.m. – 11:20 a.m.  Ethical Issues in Prenatal Imaging
  Stephen D. Brown, MD

11:20 a.m. – 12:20 p.m.  Scientific Papers — Fetal

12:20 p.m. – 12:30 p.m.  Question and Answer

12:30 p.m. – 1:30 p.m.  Lunch Break

• Junior Society for Pediatric Radiology (jSPR) Lunch and Business Meeting (by invitation)

• Lower Radiation and Sedation CT Technologies
  Presented by Toshiba America Medical Systems (advance registration required)

• Innovations in Pediatric Imaging: Speed, Resolution, and Workflow
  Presented by Siemens Healthcare (advance registration required; attendance is limited)

• Ambient Experience: Humanizing Health Care
  Presented by Philips Healthcare (advance registration required; attendance is limited)
1:30 p.m. – 5:30 p.m. **Neuroimaging Session — Concurrent**

1:30 p.m. – 1:50 p.m. **Malformations of the Fetal Brain: A Clinical and Genetic Overview**
Omar Khwaja, MD, PhD

1:50 p.m. – 3:30 p.m. **Scientific Papers —**

3:30 p.m. – 3:45 p.m. **Question and Answer**

3:45 p.m. – 4 p.m. **Break**

4 p.m. – 4:20 p.m. **Fetal MRI: Current Use, Challenges, and Future Potential**
P. Ellen Grant, MD

4:20 p.m. – 5:20 p.m. **Scientific Papers — Neuroimaging**

5:20 p.m. – 5:30 p.m. **Question and Answer**

1:30 p.m. – 1:50 p.m. **Fetal Cardiac Interventions**
Audrey C. Marshall, MD

1:50 p.m. – 3:30 p.m. **Scientific Papers — Cardiovascular**

3:30 p.m. – 3:45 p.m. **Question and Answer**

3:45 p.m. – 4 p.m. **Break**

4 p.m. – 4:20 p.m. **Neonatal Cardiac Imaging**
Rajesh Krishnamurthy, MD

4:20 p.m. – 5:20 p.m. **Scientific Papers — Cardiovascular**

5:20 p.m. – 5:30 p.m. **Question and Answer**

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**Friday, April 16**

6:45 a.m. – 8 a.m. **Continental Breakfast**

6:45 a.m. – 5:30 p.m. **Registration**

7 a.m. – 8:25 a.m. **PAI, 3D Workshop — Cardiothoracic Imaging**
Monica S. Epelman, MD, Jeffrey C. Hellinger, MD, Moderators

7 a.m. – 7:03 a.m. **Introduction**
Monica S. Epelman, MD

7:04 a.m. – 7:19 a.m. **Advanced Post-Processing Techniques**
Catherine M. Owens, MD

7:20 a.m. – 7:35 a.m. **Pediatric Central Airway MDCT Imaging: A Practical Guide to 2D and 3D Evaluation**
Edward Y. Lee, MD, MPH

7:36 a.m. – 7:51 a.m. **Computer Aided Detection for Pediatric Thoracic Disorders: What Would Dr. Caffey Think?**
Beverley Newman, MD, FACR

7:52 a.m. – 8:07 a.m. **Dynamic Evaluation of Thoracic Insufficiency Syndrome: A Novel Application for the Pediatric Workstation**
Monica S. Epelman, MD

8:08 a.m. – 8:25 a.m. **Discussion**

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8:30 a.m. – 12:30 p.m. **Musculoskeletal — Concurrent**

8:30 a.m. – 8:50 a.m. **Upper Extremity Imaging**
Donald S. Bae, MD

8:50 a.m. – 10:10 a.m. **Scientific Papers — Musculoskeletal**

10:10 a.m. – 10:40 a.m. **Question and Answer**

10:40 a.m. – 11 a.m. **Break**

11 a.m. – 11:20 a.m. **ACL Repair**
Martha M. Murray, MD

11:20 a.m. – 12:20 p.m. **Scientific Papers — Musculoskeletal**

12:20 p.m. – 12:30 p.m. **Question and Answer**

12:30 p.m. – 1:45 p.m. **Business Meeting and Lunch (SPR Members)**

1:45 p.m. – 5:30 p.m. **Dose Reduction in Pediatric Nuclear Medicine: Expert Consensus Workshop**
An Activity of the SPR Nuclear Medicine Committee, Pediatric Imaging Council of the SNM, and Image Gently *(Please indicate your interest in participating on the registration form.)*
S. Ted Treves, MD, Michael J. Gelfand, MD, Marguerite T. Parisi, MD, MSEd, Moderators

1:45 p.m. – 5:30 p.m. **Abdomen Session — Concurrent**

1:45 p.m. – 2:05 p.m. **Short Gut Syndrome**
Mark Puder, MD, PhD

2:05 p.m. – 3:45 p.m. **Scientific Papers — Abdomen**

3:45 p.m. – 4 p.m. **Question and Answer**

4 p.m. – 4:20 p.m. **Break**

4:20 p.m. – 4:40 p.m. **Ultrasound Imaging of the Bowel**
Kassa Darge, MD, PhD

4:40 p.m. – 5:20 p.m. **Scientific Papers — Abdomen**

5:20 p.m. – 5:30 p.m. **Question and Answer**

1:45 p.m. – 5:30 p.m. **Technical/Education Session — Concurrent**

1:45 p.m. – 3:45 p.m. **Scientific Papers — Tech/EDU**

3:45 p.m. – 4 p.m. **Question and Answer**

4 p.m. – 4:20 p.m. **Break**

4:20 p.m. – 5:20 p.m. **Scientific Papers — Tech/EDU**

5:20 p.m. – 5:30 p.m. **Question and Answer**

6:30 p.m. – 11 p.m. **Reception and Awards Banquet**
Saturday, April 17

7 a.m. – 8 a.m.  Continental Breakfast
7 a.m. – Noon  Registration

Cardiac Session
Laureen M. Sena, MD, Moderator

8 a.m. – 8:05 a.m.  Introduction
Laureen M. Sena, MD

8:05 a.m. – 8:50 a.m.  Overview of Basic Sequences Used in Cardiac MRI
Taylor Chung, MD

8:50 a.m. – 9:35 a.m.  Practical Tips for MR Imaging of Congenital Heart Disease Including Protocols and Imaging Planes
Robert J. Fleck, MD

9:35 a.m. – 9:50 a.m.  Question and Answer

9:50 a.m. – 10:10 a.m.  Break

10:10 a.m. – 11 a.m.  Overview of CHD Surgical Repairs and Complications
S. Bruce Greenberg, MD

11 a.m. – 11:50 a.m.  Overview of Segmental Approach to CHD
Rajesh Krishnamurthy, MD

11:50 a.m. – Noon  Question and Answer

Interventional Session
Manrita K. Sidhu, MD, Moderator

8 a.m. – 8:30 a.m.  Transplant Interventions
N. Jack Vo, MD

8:30 a.m. – 9 a.m.  Pediatric Liver Masses Diagnosis and Treatment
Patricia E. Burrows, MD

9 a.m. – 9:25 a.m.  C-arm Cone Beam CT: Pediatric IR Applications
John M. Racadio, MD

9:25 a.m. – 9:50 a.m.  Combined IR/Surgery Cases: Sleeping With the Enemy or a Match Made in Heaven?
Neil D. Johnson, MBBS

9:50 a.m. – 10:10 a.m.  Break

10:10 a.m. – 10:40 a.m.  Pediatric IR Practice: Rounds, Clinic, and Nurse Coordinator
Charles A. James, MD, FACR

10:40 a.m. – 11:10 a.m.  Pediatric IR Practice: Physician Extender in a Solo Practice
Francis E. Marshalleck, MD

11:10 a.m. – 11:40 a.m.  Pediatric IR Practice: How to Successfully Negotiate for Equipment, Space, and Staff
William E. Shiels II, DO

11:40 a.m. – Noon  Question and Answer

Neuroradiology Session
Blaise V. Jones, MD, Marvin D. Nelson Jr., MD, FACR, Moderators

Session I: Pediatric Neuro-Oncology

8 a.m. – 8:30 a.m.  Updates on Pediatric Neuro-Oncology
Mark W. Kieran, MD, PhD

8:30 a.m. – 9 a.m.  Imaging of Pediatric Brain Tumors: A Report from the PBTC Neuroimaging Center
Tina Young Poussaint, MD

9 a.m. – 9:30 a.m.  MR Spectroscopy of Pediatric Brain Tumors
Stefan Blüml, PhD

9:30 a.m. – 9:45 a.m.  Panel Discussion

9:45 a.m. – 10 a.m.  Break

Session II: Neonatal Brain Injury (SAM session)

10 a.m. – 10:30 a.m.  Update on the Neuropathology of Preterm Brain Injury
Hannah C. Kinney, MD

10:30 a.m. – 11 a.m.  Perfusion MR (ASL) and NIRS Imaging of Neonatal Brain Injury
P. Ellen Grant, MD

11 a.m. – 11:30 a.m.  MR Spectroscopy and DTI of Neonatal Brain Injury
Ashok Panigrahy, MD

11:30 a.m. – Noon  Panel Discussion

Pediatric Nuclear Medicine: Improve Your Diagnostic Acumen (SAM session)
Marguerite T. Parisi, MD, MSEd, Helen R. Nadel, MD, FRCP, Moderators

Part 1: Overview of Conventional Nuclear Imaging Studies

8 a.m. – 8:20 a.m.  The Pediatric Bone Scan
Eglal Shalaby-Rana, MD

8:20 a.m. – 8:40 a.m.  Gastrointestinal Scintigraphy in Children
Stephanie E. Spottswood, MD, MSPH

8:40 a.m. – 9 a.m.  Pediatric Genitourinary Scintigraphy: Ongoing Challenges
Larry A. Binkovitz, MD

9 a.m. – 9:10 a.m.  A Primer of Pediatric Nuclear Cardiology
Lisa J. States, MD

9:10 a.m. – 9:30 a.m.  Less Commonly Performed Pediatric Nuclear Medicine Procedures
Marguerite T. Parisi, MD, MSEd

Part 2: A Primer of Hybrid Imaging

9:30 a.m. – 9:50 a.m.  SPECT/CT
Michael J. Gelfand, MD

9:50 a.m. – 10:10 a.m.  Break

10:10 a.m. – 10:30 a.m.  Pediatric PET/CT: Patient Preparation and Imaging Findings That Mimic Disease
Marla B. K. Sammer, MD

10:30 a.m. – 10:50 a.m.  FDG-PET/CT in Lymphoma
Helen R. Nadel, MD, FRCP
10:50 a.m. – 11:10 a.m.  FDG-PET/CT in Pediatric Sarcomas
M. Beth McCarville, MD

11:10 a.m. – 11:30 a.m.  FDG-PET/CT and I-123 MIBG Imaging in Neuroblastoma
Susan E. Sharp, MD

11:30 a.m. – 11:40 a.m.  FDG-PET CT in Some Uncommon Tumors and Proliferative Diseases
Michael J. Gelfand, MD

11:40 a.m. – Noon  Tumors and Tremors: PET/CT in Pediatric Brain Imaging
Ruth Lim, MD

4th Annual Education Session

8 a.m. – 8:05 a.m.  Introduction
Dorothy I. Bulas, MD, FACR

8:05 a.m. – 8:30 a.m.  Setting Up a Hospital-Based Teaching Academy: Trials and Tribulations
Alan M. Leichtner, MD

8:30 a.m. – 9 a.m.  Creating Communities and Supporting Learning Through the Use of Web 2.0 Technologies
Beverley P. Wood, MD, MSEd, PhD

9 a.m. – 9:30 a.m.  Use of Technology Enhanced Multidisciplinary Educational Resources to Optimize Radiology Teaching and Learning
Debra L. Weiner, MD, PhD

9:30 a.m. – 9:55 a.m.  Pediatric Radiology Learning and Teaching in a Web 2.0 World: How I Do It
Michael P. D’Alessandro, MD

9:55 a.m. – 10 a.m.  Question and Answer

10 a.m. – 10:15 a.m.  Break

10:15 a.m. – 10:20 a.m.  Introduction to Breakout Education Session
Marilyn J. Goske, MD

10:20 a.m. – 11 a.m.  Interactive Workshop

11 a.m. – 11:30 a.m.  Round-Table Summary

11:30 a.m. – 11:50 a.m.  Impact of ABR Changes to Residency Education and Pediatric Radiology
Lisa H. Lowe, MD

11:50 a.m. – Noon  Closing Statements

Scientific Paper Session topics are tentative and will be finalized once the abstracts have been reviewed and accepted.

Registration Fees

<table>
<thead>
<tr>
<th>Postgraduate Course</th>
<th>(April 13–14, 2010)</th>
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Fees should be made payable to The Society for Pediatric Radiology in U.S. dollars only. All foreign payments must be made on a U.S. bank. American Express, VISA, and MasterCard are accepted for payment. All fees must be received at the time of registration.

Written verification of radiologist-in-training, resident, fellow, technologist, or nurse status must accompany registration form.

Fees include tuition, teaching materials, continental breakfast daily, and coffee breaks as indicated on the program schedule. Additionally, Annual Meeting fees include the Welcome Reception and Awards Banquet for the attendee.

A $75 administrative fee will be retained if you cancel your meeting registration. In order to receive a full refund of the balance, written notice must be received no later than one week before the meeting begins; thereafter, no refunds will be made.

One-day fees are available. Please contact meeting management for more information. (See the next page.)

Registration may be completed online through the SPR Web site at www.pedrad.org. Online registration will be available after Dec. 1, 2009.

Meeting Management

The Society for Pediatric Radiology
1891 Preston White Drive, Reston, VA 20191-4326
Telephone: 703-648-0680 or 800-373-2204
Facsimile: 703-648-1863
SPRmeetings@acr.org

If you have any special needs, please contact The Society for Pediatric Radiology at the above address or e-mail address, in writing, at least two weeks before the meeting to ensure that your needs are met.

Travel

The Boston Park Plaza Hotel & Towers is located in the heart of the Back Bay and is a member of the Historic Hotels of America. With an unsurpassed Boston address, the hotel is located only three miles from Logan International Airport and only 200 yards from the nation’s first public parks, Boston Common and Public Garden. The hotel is easily accessible to shopping along world-renowned Newbury Street, Faneuil Hall Marketplace, and the theatre and financial districts.

Airlines

American Airlines is pleased to offer a discount of 5 percent off the lowest applicable, eligible fare for travel to the SPR 2010 meeting.

For reservations, call Meeting Services at 800-433-1790 from anywhere in the United States or Canada, seven days a week, from 6 a.m. to midnight (Central Time), and refer to the authorization number A1410SS. Reservations for the hearing and speech impaired may be made by calling 800-543-1586. There is a $20.00USD reservations service fee for tickets issued through AA reservations, and a $30.00USD ticketing fee for tickets issued at the airport. (Please note: The STARFile number cannot be applied online for discounts.)

Ground Transportation

When arriving at Logan International Airport, there are three transfer options to the Boston Park Plaza Hotel & Towers:

- Taxi Service — Fares run between $25–$40 each way, depending on traffic.
- Boston’s Subway: The “T” — The hotel is one block from the Arlington stop off of the Green Line and three blocks from the Back Bay stop off of the Orange Line. Additional information may be found online at www.mbta.com.
- Ultimate Shuttle — www.ultimateshuttle.com or 617-437-8800. Rates are $14/person, one way. Rates are subject to change.

For further questions regarding transportation, you may contact the Park Plaza concierge staff directly at 617-654-1912.

Special Events

Welcome Reception
Wednesday, April 14
6:30 p.m. – 7:45 p.m.
Boston Park Plaza Hotel & Towers
Hors d’oeuvres and Refreshments
Casual Attire

Reception and Awards Banquet
Friday, April 16
6:30 p.m. – 11 p.m.
Boston Park Plaza Hotel & Towers
Reception, Dinner, and Dancing
Business-Casual Attire
- Presidential Recognition Award
- Honorary Member
- Singleton-Taybi Award
- Caffey Awards
- Transition of Presidents

Activities

The Park Plaza Hotel employs a full-service concierge staff who are happy to share their detailed knowledge of Boston, New England, and beyond. You may contact them by e-mail at concierge.97507@starwoodhotels.com or by telephone at 617-654-1912. Additional information is included on the SPR Web site under the Meetings menu.
Hotel Information

Boston Park Plaza Hotel & Towers
64 Arlington Street
Boston, MA 02116
Telephone: 617-426-2000
Toll-Free Reservations: 800-225-2008

Single/Double Rate: $209.00

The room rate quoted is subject to federal, state and local taxes, which are currently 14.45%. Taxes are subject to change.

Reservations may be booked online by visiting the SPR Web site at www.pedrad.org and selecting the Meetings link.

To obtain the group rate, you must identify yourself as being with the SPR group.

Reservations must be received by March 5, 2010. It is possible that hotel rooms may sell out prior to this date; therefore it is strongly recommended that you make your reservations as early as possible. Room rates are available three days prior and following actual meeting dates, subject to availability. Rooms booked after the cutoff date may be offered at a higher rate.

Reservations must be accompanied by a deposit for one night's stay and, upon check-in, shall be applied to the first night of the reserved stay. Reservations cancelled by at least 6 p.m. on the day prior to arrival are fully refundable. Please retain the cancellation number for your records.
### SPR 53rd Annual Meeting and Postgraduate Course • April 13–17, 2010

Please indicate which meeting(s) you wish to register for:

- Postgraduate Course, April 13–14, 2010
- Annual Meeting, April 14–17, 2010
- Both — Postgraduate Course and Annual Meeting, April 13–17, 2010

Registration may be completed online at www.pedrad.org. Online registration will be available after Dec. 1, 2009.

Please note that your name badge will contain your first name, last name, credentials, and institution as you provide below.

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Credentials:

Institution:

Preferred Mailing Address:  
- Home
- Office

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<th>City:</th>
<th>State/Province:</th>
<th>Postal Code:</th>
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Country:

Preferred Phone:  
- Home
- Office
  Preferred Fax:  
- Home
- Office

Preferred E-mail:  
- Home
- Office

- SPR Member?
- Emeritus SPR Member?
- ASPNR Member?
- SLARP Member?
- ESPR Member?
- AOSPR Member?

Please check if you are a:  
- Resident
- Fellow
- Trainee
- Nurse
- Technologist

*(Letter of verification required.)*

Are you a newer faculty member, within seven years of graduating from fellowship?  
- Yes
- No

If not a pediatric radiologist, please indicate primary area of practice:

<table>
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<th>Guest(s):</th>
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Please indicate the number of people attending: *Lunches are for meeting participants only.*

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tr>
<td>Welcome Reception, Wednesday, April 14</td>
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<tr>
<td>3D Read With the Expert Lunch, Wednesday, April 14</td>
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<tr>
<td>AAWR Lunch, Wednesday, April 14 (Members $40; Nonmembers $45; Residents/Fellows $20)</td>
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<tr>
<td>CBPR/UBPR (Community- and University-Based Pediatric Radiologists Joint Lunch), Wednesday, April 14</td>
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<tr>
<td>SPR Members’ Business Meeting, Friday, April 16</td>
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<tr>
<td>Awards Banquet, Friday, April 16</td>
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The Welcome Reception, Awards Banquet, and lunches noted above are included in your registration fees with the exception of the AAWR lunch for which a fee is required.
### Workshop and Special Session Registration

Please indicate your preferred sessions and return as soon as possible, as space is limited.

- **If you are interested in registering for a 3D hands-on training session with one of the vendors, please check here and you will be contacted with more information.**

#### Thursday, April 15

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>7 a.m – 8:25 a.m.</td>
<td>Image Gently Panel Discussion</td>
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<tr>
<td>7 a.m – 8:25 a.m.</td>
<td>PAI, 3D Workshop — MSK Imaging</td>
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<tr>
<td>8:30 a.m. – 12:30 p.m.</td>
<td>Interventional Session</td>
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<tr>
<td>8:30 a.m. – 12:30 p.m.</td>
<td>Lower Radiation and Sedation CT Technologies Lunch Seminar Presented by Toshiba — lunch provided</td>
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<tr>
<td>12:30 p.m. – 1:30 p.m.</td>
<td>Innovations in Pediatric Imaging: Speed, Resolution, and Workflow Lunch Seminar Presented by Siemens — lunch provided (space is limited)</td>
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<tr>
<td>12:30 p.m. – 1:30 p.m.</td>
<td>Ambient Experience: Humanizing Health Care Lunch Seminar Presented by Philips — lunch provided (space is limited)</td>
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<tr>
<td>1:30 p.m. – 5:30 p.m.</td>
<td>Neuroimaging Session</td>
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<tr>
<td>1:30 p.m. – 5:30 p.m.</td>
<td>Cardiovascular Session</td>
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#### Friday, April 16

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<th>Time</th>
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<tr>
<td>7 a.m – 8:25 a.m.</td>
<td>PAI, 3D Workshop — Cardiothoracic Imaging</td>
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<tr>
<td>8:30 a.m. – 12:30 p.m.</td>
<td>General Pediatric Radiology Session</td>
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<tr>
<td>8:30 a.m. – 12:30 p.m.</td>
<td>MSK Session</td>
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<tr>
<td>1:45 p.m. – 5:30 p.m.</td>
<td>Dose Reduction in Nuclear Medicine Consensus Workshop</td>
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<tr>
<td>1:45 p.m. – 5:30 p.m.</td>
<td>Abdomen Session</td>
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<tr>
<td>1:45 p.m. – 5:30 p.m.</td>
<td>Technical/Education Session</td>
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#### Saturday, April 17 - Concurrent Sessions

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<th>Time</th>
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<td>8 a.m. – Noon</td>
<td>Cardiac</td>
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<td>8 a.m. – Noon</td>
<td>Education</td>
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<tr>
<td>8 a.m. – Noon</td>
<td>Interventional</td>
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<tr>
<td>8 a.m. – Noon</td>
<td>Neuroradiology</td>
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<tr>
<td>8 a.m. – Noon</td>
<td>Nuclear Medicine</td>
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### Registration Summary

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<tr>
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<td>Guest Fee:</td>
<td>Guest(s) $175</td>
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<td><strong>TOTAL ENCLOSED:</strong></td>
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#### Credit Card Information

- Visa
- MasterCard
- American Express

Credit Card #:
Exp. Date:

Authorized Signature:

**Registration Disclaimer:** The Society for Pediatric Radiology and the American College of Radiology, as planners of this function, claim no liability for the acts of any suppliers to this meeting or the safety of any attendee while in transit to or from this event. The total amount of any liability during the precise hours of the meeting will be limited to a refund of the attendance fee. Your signature below acknowledges acceptance of this provision of registration.

**Signature:**

**Date:**

**Please return this form with your check or credit card information to:**

The Society for Pediatric Radiology • 1891 Preston White Drive • Reston, VA 20191-4326 • Facsimile: 703-648-1863

To inquire about your registration, please call **800-373-2204**. Telephone registrations are not accepted. Please allow two weeks for receipt of confirmation.
Photo courtesy of George A. Taylor, MD and Michael J. Callahan, MD.