The Society for Pediatric Radiology
55th Annual Meeting & Postgraduate Course

Postgraduate Course: April 16-17, 2012
Annual Meeting: April 17-20, 2012

The Fairmont Hotel • San Francisco, CA

Bridging Horizons

Jointly sponsored by the American College of Radiology
Dear Colleagues,

I confess I haven’t read many “Welcome Letters” at the beginning of the SPR Annual Meeting and Postgraduate Course brochure over the years. Perhaps the only defensible benefit of this is that there is no preconception about the content of this message… or the length. I will be brief.

This meeting is about building bridges… bridges between all of us, including our international colleagues, who believe fundamentally in improving the health of our children.

The content, which is detailed on subsequent pages, speaks for itself. This material will be presented during the sessions with an appreciative look back at past accomplishments — the legacy of our subspecialty — with a vision to the future of pediatric imaging. We can only measure how broad and deep our successes have been by connecting with these beginnings. Looking beyond the titles (and the speakers), I think you will see that the material is not only about techniques and tactics but about ideas, insights, energy, all conspiring in the creative process … an aggregate for excellence in pediatric imaging.

The content is also punctuated by a strong presence of our clinical colleagues. Again, this builds bridges. How can we maintain and expand these relationships? Moreover, the connections between science and clinical practice are evident in the structured blending of scientific papers and topical presentations by both imaging and clinical experts. This blending is also “fraternal” in that there will sometimes be disagreement and critical commentary, but this is essential in the advancement of medicine. Support and criticism make a stronger mortar. In the end, this gathering is about fostering a connected community, including technologists, nurses, physicists and other allied health experts including industry experts.

I cannot promote these bridges without gratitude for their engineering by the program committee – Brian Coley, Ed Lee, Cindy Rigsby and Alex Towbin, in addition to Jeff Hellinger for organizing the 3D session and the leadership of the special sessions on Friday afternoon, by Tina Young Poussaint (neuroradiology), Meg Parisi (nuclear imaging), Michael Temple (interventional radiology), Rajesh Krishnamurthy and Laureen Sena (Cardiac) and Dorothy Bulas and Marilyn Goske (education). The expert and always supportive guidance of Karen Schmitt in the overall meeting composition also cannot be overstated. Finally, I am grateful to the myriad of past presidents who have set an increasingly insightful, supportive and sustaining landscape for the Annual Meeting. I am both humbled and motivated by the remarkable and enduring achievements of these individuals.

About the venue…
San Francisco is one of the premier destinations in the world. Nothing much more needs to be said about this vibrant, diverse, and captivating city and the accessible and engaging surrounding areas.

Finally, the emblem of pediatric radiology has always been embossed by cooperation, passion, commitment, and humanistic care. I believe the program content, the presenters and you, the participants, all embrace this. I think that you will feel the spirit and the passion of the meeting and all of us will in many ways be better able to care for children because of this—even if you never read this message!

Donald P. Frush, MD

(Handwritten signature)
CONTINUING MEDICAL EDUCATION

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship 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.

The American College of Radiology designates this live educational activity for a maximum of 33 AMA PRA Category 1 Credits™ (10.25 Postgraduate Course/22.75 Annual Meeting). Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This Educational Activity has been approved by CAMPEP for 69.04 MPCEC credits.

The ACR designates this educational activity as meeting the criteria for up to 30.5 Category A credit hours of the ARRT.

The Postgraduate Course, as well as the Nuclear Medicine, Neuroradiology, Cardiac and IR special sessions have been submitted to be qualified by the American Board of Radiology in meeting the criteria for self-assessment (SAM) toward the purpose of fulfilling requirements in the ABR Maintenance of Certification Program.

OBJECTIVES

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

1. Summarize the most current information on state-of-the-art pediatric imaging and the practice of pediatric radiology.
2. Describe and apply new technologies for pediatric imaging.
3. Discuss common challenges facing pediatric radiologists, and possible solutions.
4. Evaluate and apply means of minimizing radiation exposure during diagnostic imaging and image-guided therapy.

At the conclusion of the experience, participants should have an improved understanding of the technologies discussed, increasing awareness of the costs and benefits of diagnostic imaging in children and of ways to minimize risks, and an improved general knowledge of pediatric radiology, especially as it interfaces with clinical decision making.
**JUNIOR SPR PROGRAM**
The JSPR presents 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. Consult the program for details of our program. Encourage your young colleagues to attend!

**5TH ANNUAL EDUCATION SUMMIT**
The 5th Annual SPR Education Summit invites all interested participants to attend. Topics will engage all who continue to actively learn and teach. This year we feature Ida Abbott, Esq., an author and expert on the topic of mentoring. Additional topics will include how best to engage learners; updates on ABR activities; and an overview of learning tools that people are using. All participants are encouraged to bring educational tools, projects and concepts to share with the group.

**INTERVENTIONAL RADIOLOGY SESSION (SAM Session)**
The goals of this session include the review of pediatric interventional radiology topics including insertion of enteral feeding tubes, treatment of chylothorax and malignant pleural effusions, use of inferior vena cava filters and the role of thrombectomy in pediatric patients. The IR session will include a case club presentation that will allow the audience to discuss interesting and problematic interventional cases.

**NEURORADIOLOGY SESSION (SAM Session)**
The Pediatric Neuroradiology session will be broken down into two separate SAM sessions to allow for a more focused look at the following topics:

- *Pediatric Tumors of the Brain, Spine and Head and Neck*
  This session is devoted to imaging of tumors of the brain, spine and head and neck in children. Primary tumors of the central nervous system (CNS) are the second most common neoplasms in children and the leading cause of cancer death. The role of imaging in the diagnosis and follow-up of these CNS tumors with focus on MR imaging advances will be reviewed. Each talk will review the commonly encountered pediatric tumors, age at presentation, location, key imaging features, imaging workup including advanced techniques and the appropriate differential diagnosis.

**INJURY TO THE IMMATURE BRAIN**
This will be an up-to-date workshop on injury to the immature brain with focus on the full spectrum of brain development from the fetus, to the premature infant and term infant. MR sequences and MR coil equipment used for the quantitative assessment and novel assessment of these injuries will be discussed. Advances in our knowledge of the pathophysiology, imaging features, and diagnostic workup will lead to improved understanding of this challenging topic which affects many babies each year.

**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. Practical tips for patient preparation, pediatric specific techniques and protocols will be presented; imaging artifacts and variants demonstrated. The role of nuclear medicine as it compares with anatomic modalities will be addressed. The latest indications for hybrid nuclear imaging as it relates to tumor assessment and therapeutic response monitoring will be reviewed. 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.

**CARDIAC SESSION (SAM Session)**
This course was designed by the speaker team to cover the physics of common cardiac MR sequences, including discussion of cardiovascular functional and flow analysis, the segmental approach to imaging congenital heart disease, as well as a review of imaging following single and two ventricle repair and coronary artery imaging. An interesting case discussion will be presented by each speaker.

**3D READ WITH THE EXPERTS (Lunch Session)**
We invite you to participate in the 3D Advanced Workstation Visualization and Informatics lunch session on Tuesday, April 17, from 12:05-1:30 p.m. The objective of this session is for pediatric radiologists to observe the use of workstations by other pediatric radiologists skilled in the art of advanced image visualization, image post-processing, and informatics, in an effort to assist pediatric radiologists incorporate advanced workstations into their daily clinical practice. Advance registration is required and we encourage you to sign up early as space is limited.
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Oakland, California

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**ACKNOWLEDGEMENTS**

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

GE Healthcare
Philips Healthcare
Siemens Healthcare
Toshiba America Medical Systems
MONDAY, APRIL 16, 2012

7:00 – 8:00 AM Continental Breakfast

7:00 AM – 5:00 PM Registration

7:50 – 8:00 AM Welcome and Introduction
Brian D. Coley, MD and Edward Y. Lee, MD, MPH

THORACIC IMAGING: FROM INTERSTITIUM TO AIRWAYS
Richard I. Markowitz, MD and Beverley Newman, MD, FACR, Moderators

8:00 – 8:25 AM Interstitial Lung Disease in Infants: New Classifications, Imaging Findings, and Pathological Correlation
Edward Y. Lee, MD, MPH

8:25 – 8:50 AM Large Airway Disease in Pediatric Patients: Impact of Advanced Post-processing Techniques
Catherine M. Owens, MD

8:50 – 9:15 AM Pediatric Thoracic Neoplasms: Review and Updates
Sue C. Kaste, DO

9:15 – 9:45 AM MRI of Pediatric Lungs and Airways: Current Status and Future Direction
Talissa Altes, MD

9:45 – 9:55 AM Question and Answer

9:55 – 10:10 AM Break

ABDOMINAL IMAGING: FROM ASKING TO ANSWERS
David K. Yousefzadeh, MD and William H. McAlister, MD, Moderators

10:10 – 10:35 AM Bowel Sounds and Music: Malrotation, Intussusception, Appendicitis, Inflammatory Bowel Disease, Imperforate Anus
Laurent A. Garel, MD

10:35 – 11:00 AM Update on MDCT and MRI of Hepatobiliary Disease in Children: What’s New?
Lisa H. Lowe, MD

11:00 – 11:25 AM Diagnostic Errors in Pediatric Abdominal Imaging: Diagnostic Pearls and Pitfalls
George A. Taylor, MD
11:25 – 11:50 AM  Neonatal Congenital Abdominal Masses: Clues to Reach a Diagnosis
Marta Hernanz-Schulman, MD, FAAP, FACR

11:50 AM – 12:05 PM  Question and Answer

12:05 – 1:30 PM  Lunch Break (on your own)

**Pediatric Procedures: From Imaging to Intervention**
*James S. Donaldson MD and Neil D. Johnson, MBBS, Moderators*

1:30 – 1:55 PM  The Spectrum of Vascular Anomalies in Pediatric Patients: Multimodality Imaging Evaluation and Current Treatment
Patricia E. Burrows, MD

Manraj Heran, MD

2:20 – 2:45 PM  Non-vascular Interventional Procedures in Pediatric Patients: What is New?
Joao G. Amaral, MD

2:45 – 3:00 PM  Question and Answer

3:00 – 3:30 PM  Break

**Musculoskeletal Imaging: From Planning to Performance**
*Paul S. Babyn, MD and Ricardo Restrepo, MD, Moderators*

3:30 – 3:50 PM  Imaging of Pediatric Bone and Soft Tissue Tumors: Techniques and Advances
Kirsten Ecklund, MD

3:50 – 4:10 PM  Congenital Musculoskeletal Anomalies of the Extremities
Tal Laor, MD

4:10 – 4:30 PM  Multimodality Imaging of Skeletal Trauma in Children: Using All of the Tools
Peter J. Strouse, MD

4:30 – 4:50 PM  Cartilage Imaging: Indications and Techniques
Diego Jaramillo, MD, MPH

4:50 – 5:05 PM  Question and Answer

**Tuesday, April 17, 2012**

7:00 – 8:00 AM  Continental Breakfast

7:00 AM – 5:00 PM  Registration

7:50 – 8:00 AM  Introduction and Announcements
Brian D. Coley, MD and Edward Y. Lee, MD, MPH
**Neuroimaging: From “What” to “How”**

Richard L. Robertson, MD and Yutaka Sato, MD, PhD, Moderators

8:00 – 8:25 AM  
**Imaging of Stroke in Children: What do We Need to Know for Optimal Management?**  
Avrum N. Pollock, MD, FRCPC

8:25 – 8:50 AM  
**Advanced Imaging Techniques for Neuroimaging in Pediatric Patients: Where Are We Now?**  
Blaise V. Jones, MD

8:50 – 9:15 AM  
**A Spectrum of Abnormality in Pediatric Neck: Practical Imaging Choices and Interpretation**  
Caroline D. Robson, MB Ch B

9:15 – 9:40 AM  
**Imaging of Spinal Anomalies and Abnormalities in Pediatric Patients: “How to do It”**  
L. Santiago Medina, MD, MPH and Esperanza Pacheco-Jacome, MD

9:40 – 9:55 AM  
**Question and Answer**

9:55 – 10:20 AM  
**Break**

**Infectious Diseases of the World: From Review to Updates in Imaging**

Timothy M. Cain, MBBS, MD (ANZSPR), M. Ines Boechat, MD, FACR (SPR), Fred E. Avni, Jr., MD, PhD (ESPR), In-One Kim, MD (AOSPR), Moderators

10:20 – 10:45 AM  
**Viral Infections in Children: Beyond SARS and H1N1**  
Winnie C.W. Chu, MD, FRCR (AOSPR)

10:45 – 11:10 AM  
**Pediatric TB Infection: Current Status and Updates**  
Bernard F. Lay, DO (AOSPR)

11:10 – 11:35 AM  
**The World of Parasites: Overview of Imaging Findings**  
Pedro A. Daltro, MD (SLARP)

11:35 – 11:50 AM  
**Infectious Diseases of Africa: Facing the Challenge**  
Omolola M. Atalabi, MD (ASR)

11:50 AM – 12:05 PM  
**Question and Answer**

12:05 – 1:30 PM  
**Lunch (on your own)**

12:05 – 1:30 PM  
**3D Read with the Experts Lunch (advance registration required)**  
*Supported by Philips Healthcare, Siemens Healthcare, Vital Images*

**Protocol Lunch Sessions (advance registration required; attendance is limited)**  
*Supported by GE Healthcare, Philips Healthcare, Siemens Healthcare, Toshiba America Medical Systems*

Session 1: Neuro-Brain/Spine MR

Session 2: Body-ABD/MSK MR
THE SOCIETY FOR PEDIATRIC RADIOLOGY
ANNUAL MEETING PROGRAM 2012
Donald P. Frush, MD, Program Director
Cynthia K. Rigsby, MD and Alexander J. Towbin, MD, Workshop Directors

TUESDAY, APRIL 17, 2012

1:30 PM Welcome
Donald P. Frush, MD

1:45 – 2:30 PM Edward B. Neuhauser Lecture
Present and Future Patient Benefits of Radiologist/Physicist Collaboration
William R. Hendee, PhD
Distinguished Professor of Radiology, Radiation Oncology, Biophysics and Bioethics
Medical College of Wisconsin
Milwaukee, Wisconsin

2:30-3:30 PM SCIENTIFIC SESSION I – ONCOLOGY & NUCLEAR MEDICINE
Sue C. Kaste, DO and Geetika Khanna, MD, Moderators

2:30 – 2:50 PM Oncologic Interventions: New Hope in Cancer War
Kamlesh U. Kukreja, MD

2:50 – 3:30 PM Scientific Papers - Oncology & Nuclear Medicine

3:30 – 3:50 PM Break

3:50 – 5:10 PM SCIENTIFIC SESSION II – GI
Nancy Fefferman, MD and Daniel J. Podberesky, MD, Moderators

3:50 – 4:10 PM Fetal and Postnatal Management of Abdominal Wall Defects
Tippi MacKenzie, MD

4:10 – 5:10 PM Scientific Papers – GI

5:10 – 5:45 PM Awards Ceremony
• Gold Medalist
• Pioneer Honoree
• Presidential Recognition Award
• Honorary Member
• Singleton-Taybi Award

6:00 – 7:30 PM Welcome Reception

WEDNESDAY, APRIL 18, 2012

6:45 – 8:00 AM Continental Breakfast

6:30 AM – 5:00 PM Registration

7:00 – 8:25 AM SUNRISE SESSIONS (concurrent)

STATE OF THE ART SHOULDER IMAGING
Kathleen H. Emery, MD, Moderator

Normal Shoulder Anatomy and Protocols
Andrew M. Zbojniewicz, MD

Imaging Techniques and Protocols – Ultrasound
Leslie E. Grissom, MD

Benign and Malignant Neoplasms
Robert C. Orth, MD, PhD

MR Arthrography
Jerry R. Dwek, MD

Congenital and Developmental Abnormalities
Sarah D. Bixby, MD

Trauma
Kathleen H. Emery, MD

ONCOLOGY IMAGING SYNOPSIS
Stephan D. Voss, MD, PhD, Moderator

RECIST Criteria
Geetika Khanna, MD

PET CT: When is it Most Helpful?
Jamie L. Coleman, MD

PET CT: Decreasing Dose
Susan E. Sharp, MD
WEDNESDAY, APRIL 18, 2012 (CONTINUED)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Activity</th>
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<tbody>
<tr>
<td>8:30 – 10:30 AM</td>
<td><strong>Tumor Diffusion Weighted Imaging Concepts and Protocols</strong>&lt;br&gt;Thomas C. Kwee, MD, PhD</td>
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<td>8:30 – 10:30 AM</td>
<td><strong>Dynamic Contrast Enhanced MR for Tumor Imaging</strong>&lt;br&gt;Stephan D. Voss, MD, PhD</td>
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<td>8:30 – 10:30 AM</td>
<td><strong>GENITOURINARY IMAGING UPDATE</strong>&lt;br&gt;<strong>Kassa Darge, MD, PhD, Moderator</strong></td>
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<td>8:30 – 10:30 AM</td>
<td><strong>MR Urography Imaging Protocol and Post Processing: How I Do It</strong>&lt;br&gt;J. Damien Grattan Smith, MBBS</td>
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<td>8:30 – 10:30 AM</td>
<td><strong>MR Urography Imaging Protocol and Post Processing: More Variations –Simplifications or Complications?</strong>&lt;br&gt;Kassa Darge, MD, PhD</td>
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<td>8:30 – 10:30 AM</td>
<td><strong>Kidney Scintigraphy Update</strong>&lt;br&gt;Helen R. Nadel, MD, FRCPC</td>
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<td>8:30 – 10:30 AM</td>
<td><strong>Modern Sonographic Techniques for GU Imaging</strong>&lt;br&gt;Sarah M. O’Hara, MD</td>
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<td>8:30 – 10:30 AM</td>
<td><strong>Fluoroscopic GU Update</strong>&lt;br&gt;Steven J. Kraus, MD, MS</td>
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<td>8:30 – 8:50 AM</td>
<td><strong>SCIENTIFIC SESSION III-A – NEURORADIOLOGY</strong>&lt;br&gt;(concurrent)&lt;br&gt;Eric N. Faerber, MD and&lt;br&gt;Ashok Panigrahy, MD, Moderators</td>
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<td>8:30 – 8:50 AM</td>
<td><strong>Pediatric Neuroimaging</strong>&lt;br&gt;A. James Barkovich, MD</td>
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<td>8:30 – 10:30 AM</td>
<td><strong>Scientific Papers – Neuroradiology</strong></td>
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<td>8:30 – 10:30 AM</td>
<td><strong>SCIENTIFIC SESSION III-B – CARDIOVASCULAR</strong>&lt;br&gt;(concurrent)&lt;br&gt;George S. Bisset, MD and&lt;br&gt;Wendy Lam, MB.BS, FRCR, FHKCR, FHKAM, Moderators</td>
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<td>8:30 – 10:30 AM</td>
<td><strong>Dual Source and Dual Energy CT, Optimized for Patients with Congenital Heart Disease</strong>&lt;br&gt;Hyun Woo Goo, MD, PhD</td>
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<td>8:30 – 10:30 AM</td>
<td><strong>Scientific Papers – Cardiovascular</strong></td>
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<td>8:50 – 10:30 AM</td>
<td><strong>Break</strong></td>
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<td>10:30 – 11:00 AM</td>
<td><strong>SCIENTIFIC SESSION IV-A – PUBLIC POLICY, HEALTHCARE, EDUCATION, TECHNOLOGY</strong>&lt;br&gt;(concurrent)&lt;br&gt;Jennifer L. Nicholas, MD and&lt;br&gt;Edward Weinberger, MD, Moderators</td>
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<td>11:00 AM – 12:00 PM</td>
<td><strong>Children and Neuroimaging: Ethical (and Legal) Issues</strong>&lt;br&gt;Henry T. Greely, JD</td>
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<td>11:20 AM – 12:00 PM</td>
<td><strong>SCIENTIFIC SESSION IV-B – GENITOURINARY</strong>&lt;br&gt;(concurrent)&lt;br&gt;Caroline L. Hollingsworth, MD, MPH and Supika Kritsaneepaiboon, MD, Moderators</td>
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<td>11:00 AM – 12:00 PM</td>
<td><strong>State of the Art Imaging – Kidney US</strong>&lt;br&gt;Alan Daneman, MD</td>
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<td>11:00 AM – 12:00 PM</td>
<td><strong>Scientific Papers – Genitourinary</strong></td>
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<td>12:00 – 1:30 PM</td>
<td>Lunch (on your own)</td>
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<td>12:00 PM</td>
<td><strong>jSPR Business Meeting and Lunch</strong>&lt;br&gt;(by invitation)</td>
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<td>12:00 PM</td>
<td><strong>Manuscript Preparation –</strong>&lt;br&gt;Thomas L. Slovis, MD</td>
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<td>12:00 PM</td>
<td><strong>Creating Effective Presentations –</strong>&lt;br&gt;George S. Bisset, MD</td>
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<td>12:00 PM</td>
<td><strong>Community Based Pediatric Radiologists Lunch</strong></td>
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<td>12:00 PM</td>
<td><strong>AAWR 30th Anniversary Lunch</strong>&lt;br&gt;Reflections and Prognostications by Pediatric Radiology’s Wise and Wonderful Women&lt;br&gt;Lynn Fordham, MD, Moderator</td>
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1:30 - 3:45 PM  **SCIENTIFIC SESSION V-A – GASTROINTESTINAL (concurrent)**  Michael J. Callahan, MD and Jesse Courtier, MD, Moderators

1:30 – 1:50 PM  **Practical Approach to Pediatric Liver MRI**  Jesse Courtier, MD

1:50 – 3:45 PM  **Scientific Papers – Gastrointestinal**

1:30 - 3:45 PM  **SCIENTIFIC SESSION V-B – CHEST (concurrent)**  Catherine M. Owens, MD and Ali Yikilmaz, MD, Moderators

1:30 – 1:50 PM  **A Population and Genomic Based Approach to Understanding BPD**  Hugh O’Brodovich, MD

1:50 – 3:45 PM  **Scientific Papers – Chest**

3:45 – 4:00 PM  **Break**

4:00 – 5:30 PM  **SCIENTIFIC SESSION VI-A – NEURORADIOLOGY (concurrent)**  Winnie Chu, MD and Robert C. McKinstry, MD, PhD, Moderators

4:00 – 4:20 PM  **DWI/DTI of Pediatric Congenital Brain Malformations**  Pratik Mukherjee, MD, PhD

4:20 – 5:30 PM  **Scientific Papers – Neuroradiology**

4:00 - 5:30 PM  **SCIENTIFIC SESSION VI-B – GENITOURINARY (concurrent)**  Ronald A. Cohen, MD and Gloria Soto Giordani, MD, Moderators

4:00 – 4:20 PM  **Autosomal Dominant Polycystic Kidney Disease**  Barbara B. Botelho, MD

4:20 – 5:30 PM  **Scientific Papers – Genitourinary**

5:30 – 6:45 PM  **Protocol Session & Reception**  (advance registration required; attendance is limited)

Supported by GE Healthcare, Philips Healthcare, Siemens Healthcare, Toshiba America Medical Systems

Session Topics: Chest/ABD/Pelvis CT

**THURSDAY, APRIL 19, 2012**

6:45 – 8:00 AM  **Continental Breakfast**

6:30 AM – 5:00 PM  **Registration**

7:00 – 8:25 AM  **SUNRISE SESSIONS (concurrent)**

**FETAL IMAGING OVERVIEW**  
*Richard A. Barth, MD, Moderator*

Fetal Imaging Protocols  
Carol E. Barnewolt, MD

Fetal GU Anomalies and Interventions  
Judy A. Estroff, MD

Fetal Brain Abnormalities  
Dorothy I. Bulas, MD

Fetal Chest Abnormalities, Pre and Postnatal Correlation  
Richard A. Barth, MD

Postnatal Imaging of the Premature Infant  
Beth M. Kline-Fath, MD

**CONTEMPORARY GI PROTOCOLS AND IMAGING**  
*Daniel J. Podberesky, MD, Moderator*

MRE Protocol  
Sudha A. Anupindi, MD
MRE Interpretation and Pathology Correlation
Jonathan R. Dillman, MD

Hepatocyte Sensitive MRI Contrast Agents
Alexander J. Towbin, MD

Liver Elastography
Daniel J. Podberesky, MD

MRCP Imaging Protocol and Image Evaluation
David A. Bloom, MD

CARDIAC AND LIVER IRON IMAGING: A PRACTICAL APPROACH
M. Beth McCarville, MD and Shreyas S. Vasanawala, MD, PhD, Moderators

Clinical Aspects of Iron Overload: Causes, Diagnosis, Complications, Treatment, Outcomes
Elliot Vichinsky, MD

MRI Sequences and Post-Processing Techniques for Measuring Liver and Cardiac R2 and R2*: How to do It
Shreyas S. Vasanawala, MD, PhD

Clinical Applications of MRI R2 and R2*
M. Beth McCarville, MD

Dual Energy CT for Iron Quantification
Benjamin M. Yeh, MD

CT Dose Optimization – The Future is Now
R. Paul Guillerman, MD

Current CT Dose Estimates in Children and Associated Risk
Rebecca Smith-Bindman, MD

A Better Pediatric CT Dose Estimate: How to Use Size Specific Dose Estimate (SSDE) in Your Practice
Keith J. Strauss, MS

Diagnostic Reference Levels and Dose Registries: Why We Need Them
Marilyn J. Goske, MD

8:30 – 10:30 AM

SCIENTIFIC SESSION VII-A – IR (concurrent)
Josee Dubois, MD and Stanley T. Kim, MD, Moderators

8:30 – 8:50 AM

Vascular Malformations: Diagnosis and Treatment
David M. Hovsepian, MD

8:50 – 10:30 AM

Scientific Papers – IR

8:30 – 10:30 AM

SCIENTIFIC SESSION VII-B – FETAL (concurrent)
Christopher I. Cassady, MD and Eva I. Rubio, MD, Moderators

8:30 – 8:50 AM

CDH Repair and Management
Doug Miniati, MD

8:50 – 10:30 AM

Scientific Papers – Fetal

10:30 – 11:00 AM

Break

11:00 AM – 12:30 PM

SCIENTIFIC SESSION VIII-A – PUBLIC POLICY, HEALTHCARE, EDUCATION, TECHNOLOGY
Ellen C. Benya, MD and David B. Larson, MD, Moderators

11:00 – 11:20 AM

Helping People Learn
Beverly P. Wood, MD, MS, Ed, PhD

11:20 AM – 12:30 PM

Scientific Papers – Public Policy, Healthcare, Education, Technology

IMAGE GENTLY/ALARA FORUM ON NEW CONCEPTS IN CT RADIATION DOSE
Marilyn J. Goske, MD, Moderator

CT – Controlling Dose: Lessons Learned from the Past
Thomas L. Slovis, MD

CT Dose Optimization: How I do It
Beverley Newman, MD, FACR
THURSDAY, APRIL 19, 2012 (CONTINUED)

11:00 AM – 12:30 PM  
**SCIENTIFIC SESSION VIII-B - FETAL**  
Dorothy I. Bulas, MD and Monica Epelman, MD, Moderators

11:00 – 11:20 AM  
**Fetal Surgery**  
Michael R. Harrison, MD

11:20 AM – 12:30 PM  
**Scientific Papers – Fetal**

12:30 – 1:45 PM  
**SPR Members’ Business Meeting & Lunch**  
(Those attending may enter a drawing to win 3 nights free at the Fairmont San Francisco to be applied to a current or future stay.)

1:45 – 4:00 PM  
**SCIENTIFIC SESSION IX-A – MUSCULOSKELETAL**  
Brent H. Adler, MD and J. Herman Kan, MD, Moderators

1:45 – 2:05 PM  
**Pelvic Osteotomies: Why, Where, Who and How?**  
Larry Rinsky, MD

2:05 – 4:00 PM  
**Scientific Papers – Musculoskeletal**

1:45 – 4:00 PM  
**SCIENTIFIC SESSION IX-B – ONCOLOGY & NUCLEAR MEDICINE**  
M. Beth McCarville, MD and Alexander J. Towbin, MD, Moderators

1:45 – 2:05 PM  
**Norepinephrine Transporter on Neuroblastoma for Imaging and Therapy**  
Katherine K. Matthay, MD

2:05 – 4:00 PM  
**Scientific Papers – Oncology & Nuclear Medicine**

4:00 – 4:20 PM  
**Break**

4:20 – 5:30 PM  
**SCIENTIFIC SESSION X-A – MUSCULOSKELETAL**  
Tal Laor, MD and John D. MacKenzie, MD, Moderators

4:20 – 4:40 PM  
**Ankle Imaging**  
John D. MacKenzie, MD

4:40 – 5:30 PM  
**Scientific Papers – MSK**

4:20 – 5:30 PM  
**SCIENTIFIC SESSION X-B – INTERVENTIONAL**  
Manish N. Patel, DO and Richard B. Towbin, MD, Moderators

4:20 – 4:40 PM  
**Treatment for Vascular Malformations**  
Manish N. Patel, DO

4:40 – 5:30 PM  
**Scientific Papers - Interventional**

6:30 - 11:00 PM  
**Reception and Annual Banquet**

FRIDAY, APRIL 20, 2012

7:00 – 8:00 AM  
**Continental Breakfast**

7:00 AM – 12:00 PM  
**Registration**

**CARDIAC SESSION**  
Rajesh Krishnamurthy, MD and Laureen M. Sena, MD, Moderators

8:00 - 8:30 AM  
**Physics of Common MR Sequences in CHD**  
Taylor Chung, MD

8:30 - 9:00 AM  
**Evaluation of Function and Flow in CHD**  
Laureen M. Sena, MD

9:00 - 9:30 AM  
**Segmental Approach to Imaging of CHD**  
Rajesh Krishnamurthy, MD

9:30 - 9:45 AM  
**Break**

9:45 - 10:15 AM  
**Imaging Protocol After 2 Ventricle Repair**  
Robert J. Fleck, MD

10:15 - 10:45 AM  
**Imaging Protocol After Single Ventricle Repair**  
Lorna P. Browne, MBBS
10:45 - 11:15 AM  CT and MRI of the Coronaries in Children
Cynthia K. Rigsby, MD

11:15 - 11:45 AM  Interesting Case Presentations

5TH ANNUAL EDUCATION SUMMIT
Teaching and Learning for the Next Generation
Dorothy I. Bulas, MD and Marilyn J. Goske, MD, Moderators

8:00 – 8:05 AM  Introduction
Dorothy I. Bulas, MD

8:05 – 9:00 AM  Mentoring Across Generations
Ida O. Abbot, Esq.

9:00 – 9:30 AM  Engaging Learners in the Era of the Internet
Beverly P. Wood, MD, MS, Ed, PhD

9:30 - 9:45 AM  ABR Updates-Lifelong Learning: Why We Need It
Donald P. Frush MD

9:45 – 10:00 AM  Discussion

10:00 – 10:15 AM  Break

10:15 – 10:45 AM  Why We Teach: Rewards for the Educator
Richard B. Gunderman, MD

10:45 – 10:55 AM  Entrustable Professional Activities – What are They?
Nadja Kadom, MD

11:00 – 11:10 AM  Milestone Project - What is It?
Dorothy I. Bulas, MD

11:10 – 11:30 AM  Latest and Greatest Educational Tools/Projects on the SPR Website
Jane E. Benson, MD and Geetika Khanna, MD

11:30 AM  Closing
Marilyn J. Goske, MD

NEURORADIOLOGY SESSION
Susan Palasis, MD and Tina Young Poussaint, MD, Moderators

Pediatric Tumors

8:00 – 8:30 AM  Pediatric Tumors: Brain
Tina Young Poussaint, MD

8:30 – 9:00 AM  Pediatric Tumors: Spine
Andrea Rossi, MD

9:00 – 9:30 AM  Pediatric Tumors: Head and Neck
Bernadette L. Koch, MD

8:30 – 9:45 AM  Discussion

9:45 – 10:00 AM  Break

Injury to the Immature Brain

10:00 – 10:30 AM  Injury to the Immature Brain: Fetal Brain Injury
Orit A. Glenn, MD

10:30 – 11:00 AM  Fetal and Neonatal MR Sequences for Evaluation of Injury to the Immature Brain
Duan Xu, PhD

11:00 – 11:45 AM  Injury to the Immature Brain: Premature and Term Infants
A. James Barkovich, MD

11:45 AM – 12:00 PM  Discussion

NUCLEAR MEDICINE SESSION
Marguerite T. Parisi, MD, MSED, Moderator

8:00 - 8:20 AM  Dose Reduction Strategies in Pediatric Nuclear Medicine: An Update
S. Ted Treves, MD
**Friday, April 20, 2012 (Continued)**

<table>
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| 8:20 - 8:45 AM | **FDG PET/CT of Infection: Potential Pitfall or Key Diagnostic Tool in Children with Malignancies**  
Marguerite T. Parisi, MD, MSeD |
| 8:45 - 9:15 AM | **FDG/PET in Therapeutic Response Monitoring of Lymphoma: Outcomes Predictors**  
M. Beth McCarville, MD |
| 9:15 - 9:40 AM | **Neuroblastoma: Respective Roles of MIBG and FDG PET/CT in Therapeutic Response Monitoring**  
Susan E. Sharp, MD |
| 9:40 - 9:45 AM | **Discussion**                                                                               |
| 9:45 - 10:00 AM| Break                                                                                       |
| 10:00 - 10:20 AM | **FDG PET/CT in Diagnosis and Follow-up of LCH and Wilm's Tumors: Comparison with Conventional Imaging**  
Michael J. Gelfand, MD |
| 10:20 - 10:50 AM | ** Pediatric Bone Tumors and Soft Tissue Sarcomas: Therapeutic Response Monitoring and Outcomes**  
Helen R. Nadel, MD, FRCPC |
| 10:50 - 11:20 AM | **Hybrid Imaging of Pediatric Brain Tumors, Neurofibromatosis and Non-Lymphomatous Head and Neck Tumors**  
Lisa J. States, MD |
| 11:20 - 11:50 AM | **Multi-Modality Whole Body Imaging: Data to Date and Future Perspectives**  
Heike E. Daldrup-Link, MD |
| 11:50 AM – 12:00 PM | **Discussion**                                                                               |

**INTERVENTIONAL SESSION**

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| 8:00 – 8:30 AM | **G and GJ Tubes**                                                                          
Els Nijs, MD |
| 8:30 – 9:00 AM | **Thoracic Duct Embolization**  
Marc S. Keller, MD |
| 9:00 – 9:30 AM | **Malignant Pleural Effusions**  
Michael J. Temple, MD |
| 9:30 – 9:40 AM | **Discussion**                                                                               |
| 9:40 – 10:00 AM| Break                                                                                       |
| 10:00 - 10:30 AM | **IVC Filters**                                                                             
João G. Amaral, MD and Kamlesh U. Kukreja, MD |
| 10:30 - 11:00 AM | **Thrombectomy**                                                                           
Anne Marie Cahill, MD, MBBCh |
| 11:00 - 11:15 AM | **Discussion**                                                                               |
| 11:15 AM – 12:00 PM | **Interventional Case Club**                                                                 |

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

**Meeting Contact**

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.
### Postgraduate Course (April 16-17, 2012)

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- Member - SPR, ESPR, AOSP, SLARP
- Physicians (Non-Members SPR, ESPR, AOSP, SLARP)
- Active Duty Military
- Emeritus SPR Member
- Radiologist-In-Training, Resident, Fellow, Nurse, Technologist, Physicist

### Annual Meeting (April 17-20, 2012)

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- Physicians (Non-Members SPR, ESPR, AOSP, SLARP)
- Active Duty Military
- Emeritus SPR Member
- Radiologist-In-Training, Resident or Fellow (if attending the Annual Banquet, an additional $100 fee is due with registration)
- Nurse, Technologist, Physicist (if attending the Annual Banquet, an additional $100 fee is due with registration)
- Guest - Welcome Reception, Annual Banquet

### Combined Postgraduate Course and Annual Meeting (April 16-20, 2012)

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- Active Duty Military
- Emeritus SPR Member
- Radiologist-In-Training, Resident or Fellow (if attending the Annual Banquet, an additional $100 fee is due with registration)
- Nurse, Technologist, Physicist (if attending the Annual Banquet, an additional $100 fee is due with registration)
- Guest - Welcome Reception, Annual Banquet

*Written verification of Radiologist-In-Training, Resident, Fellow, Technologist, Physicist 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 Annual 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.

*Registration may be completed on-line through the SPR website at [www.pedrad.org](http://www.pedrad.org). On-line registration will be available after December 1, 2011.*
**SPECIAL EVENTS**

**Welcome Reception**
Tuesday, April 17  
6:00 – 7:30 p.m.  
The Fairmont Hotel  
Hors d’oeuvres and Refreshments  
Casual Attire (this will be an outdoor event)

**Reception and Annual Banquet**
Thursday, April 19  
6:30 – 11:00 p.m.  
The Fairmont Hotel  
Reception, Dinner and Dancing  
Business/Cocktail Attire

**Activities**
The Fairmont Hotel employs a full-service concierge staff who are happy to share their detailed knowledge of San Francisco and the surrounding area. You may contact them by telephone at (415) 772-5136.

Additional information is included on the SPR website under the Meetings menu.

**TRAVEL**
The Fairmont Hotel is located at the top of Nob Hill, approximately 25 minutes from San Francisco International Airport (SFO), 35 minutes from Oakland International Airport (OAK) and 1 hour from San Jose International Airport (SJC).

**Ground Transportation**
- Taxi Service – Fares are about $40 from SFO and $55 from OAK.  
- Super Shuttle rates are $17 one-way from SFO; $27 one-way from OAK. Reservations should be made in advance at [www.supershuttle.com](http://www.supershuttle.com) or by contacting the concierge.

For additional questions regarding transportation, you may contact the Fairmont Hotel concierge staff directly at (415) 772-5136. Please note that parking at the hotel is very expensive. If you plan to rent a car, you may wish to consider a daily rental through the on-site rental agency which is Hertz.

**THE FAIRMONT HOTEL**
950 Mason Street  
415-772-5000 – Telephone  
800-441-1414 – Toll-Free Reservations

Single/Double Rate: $270  
Deluxe Tower Rate: $300

The room rate quoted is subject to federal, state and local taxes, which are currently 15.5%. Taxes are subject to change.

Reservations may be booked on-line by visiting the SPR website at [www.pedrad.org](http://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 17, 2012. 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.

Reservations must be accompanied by a deposit for one night’s stay which will be charged at the time of booking. Reservations cancelled at least 48 hours prior to arrival are fully refundable. Please retain the cancellation number for your records.

We suggest that you enroll in the Fairmont President’s Club program in order to receive these benefits of membership, among many others: complimentary in-room internet access, complimentary local calls and no fees for toll access, complimentary fitness center access. For a complete list of benefits and to enroll, visit [https://www.fairmont.com/fpc/](https://www.fairmont.com/fpc/).
REGISTRATION FORM • THE SOCIETY FOR PEDIATRIC RADIOLOGY • APRIL 16-20, 2012

Please indicate which meeting(s) you wish to register for:
- Postgraduate Course, April 16-17, 2012
- Annual Meeting, April 17-20, 2012
- Both – Postgraduate Course and Annual Meeting, April 16-20, 2012

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

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Preferred Mailing Address
- Home
- Office

City ___________________________ State/Prov. ___________________________ Postal Code ___________________________

Country ___________________________

Preferred Phone
- Home
- Office

Preferred Fax
- Home
- Office

Preferred E-Mail ___________________________

SPR Member? ☐
Emeritus SPR Member? ☐
ESPR Member? ☐
AOSPR Member? ☐
SLARP Member? ☐

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

(Letter of verification required.)

Are you a new resident within 7 years of graduating from fellowship? ☐ Yes ☐ No

If not a Pediatric Radiologist, please indicate primary area of practice ___________________________

Guest(s):

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Please Indicate the Number of People Attending:
(Lunches are for meeting participants only.)

SPR Members’ Business Meeting, Thursday, April 19 (those attending may enter a drawing to win 3 nights free at the Fairmont San Francisco to be applied to a current or future stay)
Welcome Reception, Tuesday, April 17
3D Read with the Expert Lunch, Tuesday, April 17
Protocol Session – Neuro, Tuesday, April 17
Protocol Session – Body, Tuesday, April 17
Protocol Session – Chest/Abd/Pelvis, Wednesday, April 18
AAWR Lunch, Wednesday, April 18 (Members $40; Non-members $45; Residents/Fellows $20)
CBPR Lunch (Community Based Pediatric Radiologists), Wednesday, April 18
Annual Banquet – Thursday, April 19

The Welcome Reception, Annual Banquet and lunches noted above are included in your registration fees with the exception of the AAWR Lunch for which a fee is required. All attendees are welcome to register.

Please indicate any special dietary needs/restrictions: ___________________________

Presentation Materials
Presenters will submit a PDF of their talks in advance of the meeting for attendees to review and download. Alternatively, a limited number of USB keys will be distributed on site. If you wish to purchase one, the cost is $10. Please indicate in the total below.

Workshop and Special Session Registration
Please indicate your preferred sessions and return as soon as possible as space is limited.

Registration Summary
Registration Fee (See page 17) $ _____________
Optional USB Key ($10) $ _____________
AAWR Lunch Fee (Members $40; Non-members $45; Residents/Fellows $20) $ _____________
Guest Fee ($175) $ _____________

TOTAL ENCLOSED: $ _____________

Credit Card Company: ☐ Visa ☐ MasterCard ☐ American Express
Credit Card # ___________________________ Exp. Date ___________________________

Authorized Signature ___________________________

To inquire about your registration, please call (800) 373-2204. Telephone registrations are not accepted. Please allow two weeks for receipt of confirmation.

REGISTRATION FORM • THE SOCIETY FOR PEDIATRIC RADIOLOGY • APRIL 16-20, 2012

Please return this form with your check or credit card information to:
The Society for Pediatric Radiology
1891 Preston White Drive
Reston, VA 20191
Facsimile: (703) 648-1863