SPR 2019
Annual Meeting
& POSTGRADUATE COURSE
APRIL 30–MAY 4, 2019
Hilton Union Square
San Francisco, CA

LEARN FROM THE PAST.
INNOVATE FOR THE FUTURE.
MEETING INFORMATION

MEETING DATES

Postgraduate Course
Tuesday, April 30th – Wednesday, May 1st, 2019.

Annual Meeting

Exhibit Hall
Wednesday, May 1st – Friday, May 3rd, 2019.

SPR MISSION STATEMENT

The Society for Pediatric Radiology is dedicated to fostering excellence in pediatric health care through imaging and image-guided care.

SPR DIVERSITY & INCLUSION STATEMENT

The Society for Pediatric Radiology actively promotes diversity and inclusion at all levels of training, practice and leadership for the benefit of our patients, our profession and for the Society as a whole.

LEARNING OBJECTIVES

The Society for Pediatric Radiology Annual Meeting & Postgraduate Course will provide pediatric and general radiologists with an opportunity to;

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. Describe and apply basic principles for implementing quality safety programs in pediatric radiology.
4. Discuss trends in research concerning the care and imaging of pediatric patients.
5. Identify common challenges facing pediatric radiologists and possible solutions.

At the conclusion of the experience, participants should have an improved understanding of the technologies discussed, the benefits of medical imaging, increasing awareness of the risks of imaging, including radiation, to children and of ways to minimize these risks, and an understanding of evolving technologies, techniques and applications of imaging evaluation in children.

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 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.

Designation Statement
The American College of Radiology designates this live activity for a maximum of 37.75 AMA PRA Category 1 Credits ™. Physicians should claim only the credit commensurate with the extent of their participation.

Technologists
The American College of Radiology is approved by the American Registry of Radiologic Technologists (ARRT) as a Recognized Continuing Education Evaluation Mechanism (RCEEM) to sponsor and/or review CME programs for Radiologic Technologists and Radiation Therapists. The American College of Radiology designates this educational activity as meeting the criteria for up to 37.75 Category A credit hours.

SAM Credits
As indicated in this brochure, some of the Postgraduate Course Sessions as well as some of the half day sessions on Saturday meet the ABR's criteria for a self-assessment (SAM) activity in the ABR Maintenance of Certification (MOC) Program.

HOTEL INFORMATION

Hilton San Francisco Union Square
333 O’Farrell Street, San Francisco, CA 94102, US

Traditional Single/Double $309 (Rates will increase for triple and quadruple occupancy. The hotel fees are per night and are exclusive of applicable taxes.

Online Reservations can be completed here.
Phone Reservations can be completed by calling (415) 771-1400. Make sure to say you are with the SPR Meeting.

Cutoff Date: Friday, March 29, 2019 at 5:00 p.m. Pacific Time.
POSTGRADUATE COURSE

The 2019 SPR Postgraduate Course brings you 96 dynamic speakers from our field to deliver expert knowledge in two tandem tracts that will span one and a half days.

**Track I: Tricks of the Trade- Imaging Updates with How to Perform, Interpret and Report**
This track will cover state-of-the-art imaging of the fetus, newborn and young infant, MSK structures, gastroenterology, oncology with updates on ultrasound.

**Track II: Emergency Radiology, What Not to Miss and What the Surgeon/Clinician Wants to Know – Case-based**
This track will cover emergency imaging of the body, head, spine, and MSK system together with accidental and non-accidental trauma with a case-based presentation of pearls, pitfalls and what not to miss.

We aim to deliver distilled, up-to-date ten-minute micro-lectures for in-demand and high impact topics. For some broad subjects, we have assigned pairs of lecturers to give an initial micro-didactic lecture followed by an image-rich iteration in the hopes of yielding higher retention of the new knowledge. We have added 20 minutes of Self-Assessment Module (SAM) and panel discussion at the end of each session. Audience members will have the opportunity to participate in SAM questions via their electronic devices and will immediately receive credit. So have your devices ready!

SUNRISE & MIDDAY WORKSHOPS

Once again this year, both sunrise and mid-day workshop sessions will be offered with 4 or 5 different workshops running concurrently during each session, allowing attendees to choose from a wide spectrum of topics. There will be workshops focused on technical aspects of image acquisition including advanced MR techniques, neonatal and contrast-enhanced ultrasound, and evolving CT and digital radiography and fluoroscopy techniques. New workshop topics incidentalomas, diagnostic dilemmas, cardiac, thoracic and nuclear medicine imaging, and "Radiogenomics." We will also have several workshops on non-interpretive topics, including professionalism, research, safety, and value-added radiology, as well as a "Learn from the Experts" session focused on career guidance. Rather than long didactic lectures, most workshops will be divided into 10-15 minute talks and discussion sessions, allowing for more interactive learning. We hope to see you there!

IMAGING TECHNOLOGIST PROGRAM

The Pediatric Imaging Technologist program is back! 2019 marks the fourth consecutive year SPR has held this dedicated program to pediatric imaging technologists in conjunction with the SPR Annual Meeting. The Program will run Thursday, May 2nd through Friday, May 3rd. In addition to this program, all SPR Annual Meeting sessions with CME Credits will also carry Category A credits. Sessions are focused on topics in all radiology modalities, and also includes scientific sessions with a variety of topics from your peers. Lectures will be delivered by technologists and radiologists.

EDWARD B. NEUHAUSER LECTURE

**DEEP VISUAL UNDERSTANDING FROM DEEP LEARNING – Presented by Professor Jitendra Malik, PhD**

Dr. Malik received the B.Tech degree in Electrical Engineering from Indian Institute of Technology, Kanpur in 1980 and the PhD degree in Computer Science from Stanford University in 1985. In January 1986, he joined the University of California at Berkeley, where he is currently the Arthur J. Chick Professor in the Department of Electrical Engineering and Computer Sciences. He is also on the faculty of the department of Bioengineering, and the Cognitive Science and Vision Science groups. Prof. Malik’s research group has worked on many different topics in computer vision, computational modeling of human vision, computer graphics and the analysis of biological images. Several well-known concepts and algorithms arose in this research, such as anisotropic diffusion, normalized cuts, high dynamic range imaging, shape contexts and R-CNN. He has mentored more than 60 PhD students and postdoctoral fellows. His publications have received numerous best paper awards, including five test of time awards - the Longuet-Higgins Prize for papers published at CVPR (twice) and the Helmholtz Prize for papers published at ICCV (three times). He received the 2013 IEEE PAMI-TC Distinguished Researcher in Computer Vision Award, the 2014 K.S. Fu Prize from the International Association of Pattern Recognition, the 2016 ACM-AAAI Allen Newell Award, and the 2018 IJCAI Award for Research Excellence in AI. He is a fellow of the IEEE and the ACM. He is a member of the National Academy of Engineering and the National Academy of Sciences, and a fellow of the American Academy of Arts and Sciences.
**SATURDAY HALF-DAY SESSIONS**

**Hands-on Ultrasound:** Ultrasound is the most versatile and valuable of the non-ionizing radiation imaging modalities, and pediatric radiologists continue to be at the forefront of developing and adopting new and improved ultrasound techniques. This hands-on ultrasound session will focus both on advanced ultrasound imaging incorporating ultrasound elastography and contrast ultrasound as well as four challenging pediatric ultrasound applications, appendix, ankle, knee and tonsillar ultrasound. The course will provide a mix of didactic lectures, demonstration of exams by expert sonologists, and hands-on scanning by participants with faculty guidance.

**Interventional Radiology:** Led by respected experts in the field of pediatric interventional radiology, this half-day session provides insights into state of the art IR practice and exciting developments. With topics ranging from complex vascular access and biliary strictures to HIFU and artificial intelligence, there is something for everyone who has an interest in pediatric IR.

**Education – Advanced Skills in Translational Teaching:** The curriculum will include key topics that will significantly and positively influence the growth of the participant’s academic career in medical education including the following blocks: 1. Teaching dynamically, 2. Technology that works in teaching, 3. The complete scope of teaching & 4. Building and maintaining a teaching portfolio. Attendees will need to bring personal laptop for this session.

**Neuroradiology:** The 2019 Pediatric Neuroradiology Session will cover a variety of neurologic conditions relevant to pediatric neurological clinical care including some of the cutting edge. The entities and understanding of leukodystrophies continues to expand and in effort to incorporate that relevant to pediatric neuroimaging the session will open with a review of this subject. Recognition of metabolic disease in the newborn is important and critical in some cases for clinical intervention. To this end we will have a review of neuroimaging relevant to metabolic disease presenting early in life. Technological advances are driving increasingly sophisticated CNS neurovascular assessment. The current status of neurovascular assessment in pediatric patients including developing technologies such as vessel wall imaging will be presented. CSF dynamics and treatment of hydrocephalus will be covered including the neuroimaging assessment and neurosurgical perspectives. Finally, the session will conclude with a look into AI application to pediatric neuroradiology.

**Best Practices - Collaboration & Innovation for Pediatric Nuclear Medicine & Hybrid Imaging:** A half-day session focusing on clinical collaboration utilizing nuclear medicine and molecular imaging in pediatric patients. This year, the nuclear medicine session will host clinical colleagues discussing how they incorporate nuclear medicine multimodality imaging evaluation in managing their patients. We will also explore how we currently utilize nuclear medicine in pediatric hospitals and look to the future to see what AI might bring to the pediatric nuclear medicine field. As the field of theranostics rises, we will see how interventional radiology can be combined with PET imaging.

**Cardiac CT** – Pre-registration is required for this session and there will be no CME. For more information, please see page 5.

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**Hilton San Francisco Union Square**

333 O’Farrell Street, San Francisco, CA 94102, US

**Online Reservations:** Access the online reservation site [here](#).  
**Phone reservations:** For phone reservations call (415) 771-1400.  
If you call, be sure to state that you are with the SPR Annual Meeting.

**Cutoff Date:** Friday, March 29, 2019 at 5:00 p.m. Pacific Time.  
Do note that reservations may sell out prior to the cutoff date, therefore, it is recommended that you book your room now. Reservations made after the cutoff date and time will be based on the room availability.  
**Check-in:** 3:00 p.m. - **Check-out:** 12:00 p.m.
NON-CME SESSIONS

PROTOCOL SESSIONS
Protocol refinement and problem solving sessions will be offered again. The goal of these sessions is to develop, through discussion and interaction, manufacturer-specific CT, MR and US Protocol improvements. Provided templates and audience suggestions, and discussions of challenges will help fashion protocol improvements.

Participants should come prepared with specific questions and challenges. The discussion will be led by experts in the field who have hands-on experience with the equipment operation and protocol design. Vendors will also have representatives, who can respond to questions about troubles with specific exam types, sequencing, best sequencing processes, image optimization, dose reduction, etc. Check the program for specific times.

3-D READ WITH THE EXPERTS
Drs. Dianna Bardo and Mark Ferguson will showcase how a pediatric radiologist can establish or expand an advanced imaging/3D lab as well as demonstrate 3D visualization techniques/applications. To achieve this goal, insights and tips for developing a successful 3D lab will be discussed. An additional component of the session will involve a panel of experts using a variety of software platforms, including virtual reality, to review clinical cases while describing the real-world utility of these visualization techniques as well as future applications. Organizing the session in this format will allow us to continue to explore building a successful 3D lab for a pediatric radiologist, provide needed guidance toward how advanced imaging can be financially sustainable, and how to promote 3D visualization to their customers, surgeons and other clinicians at their institutions.

jSPR LUNCHEON SESSION
Come connect and have fun with your colleagues and friends at the jSPR Luncheon! The luncheon will be held on Tuesday, April 30th from 12:00 – 1:30 p.m.

What is jSPR? jSPR is the junior group of the Society for Pediatric Radiology is dedicated to meeting the needs of trainees (fellows, residents and medical students) and recently graduated pediatric radiologists younger than 40 years of age as we embark on our careers.

SPR REF FUN RUN
Join us for the popular SPR REF Fun Run on Wednesday, May 1st at 6:00 a.m. Entrance fee is $25 and includes a t-shirt. Both runners and walkers are welcome and should meet in the Hotel Lobby at 5:45 a.m.

RECEPTION & ANNUAL BANQUET
Join us on Friday, May 3rd for the SPR Annual Banquet! Reception will begin at 7:00 p.m. There will be a reception, plated dinner, music, entertainment and dancing! Registration fee is $100 per ticket.

CARDIAC CT SATURDAY SESSION
This NEW hands on course will focus specifically on the use of CT in pediatric patients with congenital heart disease (CHD). Patient preparation, image acquisition and interpretation will be discussed in a case based format using interactive workstations. Cases will reflect the spectrum of unrepaired and palliated/repaired CHD from neonate to adult. The goal audience is pediatric radiologists who are interested in expanding their knowledge about pediatric cardiac imaging with CT. Attendees will be required to provide personal laptops with Chrome downloaded.

ANNUAL WELCOME RECEPTION
Come join us kick of the 2019 Annual Meeting! The welcome reception will be held on Wednesday, May 1st at 7:00 p.m. in the East Lounge. Hor d’oeuvres and Refreshments will be served. Attire is business casual. All attendees are welcome!
# Schedule of Events

**Tuesday April 30th**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 AM – 8:00 AM</td>
<td>Continental Breakfast</td>
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<td>7:00 AM – 5:00 PM</td>
<td>Registration</td>
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<tr>
<td>8:00 AM – 11:59 PM</td>
<td>Cases of the Day Online Activity</td>
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<tr>
<td>8:00 AM – 10:00 AM</td>
<td>Postgraduate Course Track I (SAM) – Newborn and Young Infant</td>
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<tr>
<td></td>
<td>Welcome &amp; Introduction</td>
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<td></td>
<td>Janet R. Reid, MD &amp; Taylor Chung, MD, SPR President</td>
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<tr>
<td>8:20-8:30 a.m.</td>
<td>NEC Ultrasound/X-ray – How To</td>
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<td>Janet R. Reid MD</td>
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<tr>
<td>8:30-8:40 a.m.</td>
<td>NEC – Complicated Cases</td>
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<td>Nadia F. Mahmood, MD</td>
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<tr>
<td>8:40-8:50 a.m.</td>
<td>Newborn Bowel Obstruction – How To</td>
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<td>D. Gregory Bates, MD</td>
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<tr>
<td>8:50-9:00 a.m.</td>
<td>Newborn Bowel Obstruction – Cases</td>
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<td>Boaz Karmayzn, MD</td>
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<tr>
<td>9:00-9:10 a.m.</td>
<td>UTD Classification System – Pros and Cons</td>
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<td>Jeanne &quot;Mei-Mei&quot; S. Chow, MD</td>
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<tr>
<td>9:10-9:20 a.m.</td>
<td>UTD Cases on MRI and US</td>
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<td>Andrew T. Trout, MD</td>
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<tr>
<td>9:20-9:30 a.m.</td>
<td>Radiologic Approach: Neonate with Disorder of Gender Development</td>
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<td>Heather Bray, MD</td>
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<tr>
<td>9:30-9:40 a.m.</td>
<td>Challenging Cases of Infant Lung Disease</td>
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<td>R. Paul Guillerman, MD</td>
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<tr>
<td>9:40-10:00 a.m.</td>
<td>SAM Questions &amp; Discussion</td>
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<tr>
<td>10:00 AM – 10:20 AM</td>
<td>Break</td>
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<tr>
<td>10:20 AM – 12:00 PM</td>
<td>Postgraduate Course Track I (SAM) – Body</td>
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<tr>
<td>10:20-10:30 a.m.</td>
<td>Diffuse Liver Disease – How To (US &amp; MRI Elastography)</td>
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<td></td>
<td>Jonathan R. Dillman, MD, MSc</td>
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<tr>
<td>10:30-10:40 a.m.</td>
<td>Diffuse Liver Disease - Cases</td>
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<td>Prakash M. Masand, MD</td>
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<td>10:40-10:50 a.m.</td>
<td>Crohn’s Disease Standardized Nomenclature/Reporting – How To</td>
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<td>Michael S. Gee, MD, PhD</td>
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<tr>
<td>10:50-11:00 a.m.</td>
<td>Crohn’s Disease Standardized Nomenclature/Reporting – Cases</td>
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<td>Ethan M. Smith, MD</td>
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</tbody>
</table>
11:00-11:10 a.m.  Esophageal Disease – How To  
Steven J. Kraus, MD, MS

11:10-11:20 a.m.  Esophageal Disease – Cases  
Lynn A. Fordham, MD, FACR

11:20-11:30 a.m.  Radiologic Approach: Teenager with Amenorrhea  
Laura Z. Fenton, MD, FACR

11:30-11:40 a.m.  Challenging Cases of Pancreatitis  
Michael J. Callahan, MD

11:40-12:00 p.m.  SAM Questions & Discussion

10:20 AM – 12:00 PM  
Postgraduate Course Track II (SAM) – Body Trauma  

10:20-10:30 a.m.  
Pros and Cons of American Association for the Surgery of Trauma (AAST) Classifications  
Christopher Newton, MD

10:30-10:40 a.m.  
Chest Trauma: Lung and Diaphragm  
Paul G. Thacker, MD, MHA

10:40-10:50 a.m.  
Abdomen Trauma: Liver, Spleen and Pancreas  
Michael Aquino, MD

10:50-11:00 a.m.  
Abdomen Trauma: Bowel and Mesentery  
Ramesh S. Iyer, MD

11:00-11:10 a.m.  
Abdomen Trauma: Renal, Ureter and Bladder  
Henry J. Baskin, MD

11:10-11:20 a.m.  
Abdomen Trauma: Shock Abdomen  
Emily S. Orscheln, MD

11:20-11:30 a.m.  
Radiologic Approach: Child with Straddle Injury (Perineal, Urethral, Scrotal Injury)  
Summer L. Kaplan, MD, MS

11:30-11:40 a.m.  
Challenging Cases of Ingested, Aspirated and Penetrated Foreign Bodies  
Beverly Newman, MD, FACR

11:40-12:00 p.m.  
SAM Questions & Discussion

12:00 PM – 1:30 PM  
Lunch on Own  
JSPR Luncheon

1:30 PM – 3:00 PM  
Postgraduate Course Track I (SAM) – Oncology  

1:30-1:40 p.m.  
Neuroblastoma Imaging Update on IDRF - How To  
M. Beth McCarville, MD

1:40-1:50 p.m.  
Neuroblastoma Imaging Update on IDRF - Cases  
Meryle Eklund, MD

1:50-2:00 p.m.  
Imaging of Liver Masses – How to (Including PRETEXT)  
Alexander J. Towbin, MD

2:00-2:10 p.m.  
Imaging of Liver Masses - Cases  
Ellen M. Chung, MD

2:00-2:10 p.m.  
Lymphoma/Leukemia – How To  
Lisa J. States, MD

2:10-2:20 p.m.  
Lymphoma/Leukemia - Cases  
Stephan D. Voss, MD, PhD

2:20-2:30 p.m.  
Radiologic Approach: Post Oncologic Treatment Complications  
Geetika Khanna, MD

2:30-2:40 p.m.  
Challenging Cases of Oncologic Emergencies  
Heike E. Daldrup-Link, MD, PhD

2:40-3:00 p.m.  
SAM Questions & Discussion

1:30 PM – 3:00 PM  
Postgraduate Course Track II (SAM) – Neuro Non-Trauma  

1:30-1:40 p.m.  
Radiologic Approach: Child with Acute Lower Extremity Weakness  
Korgun Koral, MD

1:40-1:50 p.m.  
Increased Intracranial Pressure – How To  
Jason N. Wright, MD

1:50-2:00 p.m.  
Increased Intracranial Pressure - Cases  
Jonathan G. Murnick, MD, PhD

2:00-2:10 p.m.  
Stroke and Look-alikes – How To  
Aylin Tekes, MD

2:00-2:10 p.m.  
Stroke and Look-alikes - Cases  
Dennis W. Shaw, MD

2:10-2:20 p.m.  
Acute Encephalopathy – How To  
Manohar Shroff, MD, FRCPCH

2:20-2:30 p.m.  
Acute Encephalopathy - Cases  
Bruno P. Soares, MD

2:30-2:40 p.m.  
Challenging Cases of Complicated Sinusitis/Mastoiditis  
Sumit Pruthi, MBBS, DNB

2:40-3:00 p.m.  
SAM Questions & Discussion
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<tr>
<th>Time</th>
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<tr>
<td>3:00 PM – 3:20 PM</td>
<td>Break</td>
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<tr>
<td>3:20 PM – 5:00 PM</td>
<td><strong>Postgraduate Course Track I (SAM) – MSK</strong></td>
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<tr>
<td>3:20-3:30 p.m.</td>
<td>Joint Disease – How To</td>
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<td></td>
<td>Sarah D. Bixby, MD</td>
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<tr>
<td>3:30-3:40 p.m.</td>
<td>Joint Disease - Cases</td>
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<td>Apeksha Chaturvedi, MBBS, MD</td>
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<td>3:40-3:50 p.m.</td>
<td>Imaging of FAI- How To</td>
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<td>Jerry R. Dwek, MD</td>
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<td>3:50-4:00 p.m.</td>
<td>Imaging of FAI - Cases</td>
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<td>Molly E. Dempsey, MD</td>
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<td>4:00-4:10 p.m.</td>
<td>Bone Marrow Imaging – How To</td>
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<td>Andrew Schapiro, MD</td>
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<td>4:10-4:20 p.m.</td>
<td>Bone Marrow Imaging - Cases</td>
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<td>Kirsten Ecklund, MD</td>
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<td>4:20-4:30 p.m.</td>
<td>Radiologic Approach: Child with Multifocal Bone Lesions</td>
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<td>A. Carl Merrow, MD</td>
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<td>4:30-4:40 p.m.</td>
<td>Challenging Cases of Peripheral Neuropathy (US-MRI)</td>
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<td>Ricardo Restreppo, MD</td>
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<td>4:40-5:00 p.m.</td>
<td>SAM Questions &amp; Discussion</td>
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<td>3:20 PM – 5:00 PM</td>
<td><strong>Postgraduate Course Track II (SAM) – Neuro Trauma</strong></td>
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<td>3:20-3:30 p.m.</td>
<td>Radiologic Approach: Child with Skull Base Trauma</td>
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<td>Mai-Lan Ho, MD</td>
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<td>3:30-3:40 p.m.</td>
<td>Child with Severe Head Trauma – How To</td>
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<td>Laura L. Hayes, MD</td>
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<tr>
<td>3:40-3:50 p.m.</td>
<td>Child with Severe Head Trauma - Cases</td>
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<td>Hisham Dahmoush, MBBCh</td>
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<td>3:50-4:00 p.m.</td>
<td>C-Spine Trauma – How To</td>
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<td>Camilo Jaimes, MD</td>
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<td>4:00-4:10 p.m.</td>
<td>C-Spine Trauma - Cases</td>
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<td>Judith A. Gadde, DO, MBA</td>
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<td>4:10-4:20 p.m.</td>
<td>Facial and Orbital Trauma – How To</td>
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<td>Timothy N. Booth, MD</td>
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<tr>
<td>4:20-4:30 p.m.</td>
<td>Facial and Orbital Trauma - Cases</td>
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<td>Asim F. Choudhri, MD</td>
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<td>4:30-4:40 p.m.</td>
<td>Challenging Cases of Thoracic Spine Trauma</td>
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<td>Nicholas V. Stence, MD</td>
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<tr>
<td>4:40-5:00 p.m.</td>
<td>SAM Questions &amp; Discussion</td>
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<td>5:00 PM</td>
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**WEDNESDAY MAY 1**

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<tr>
<th>Time</th>
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<tr>
<td>5:45 AM – 7:00 AM</td>
<td>SPR/REF Fun Run</td>
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<tr>
<td>7:00 AM – 8:00 AM</td>
<td>Continental Breakfast &amp; Exhibit Hall Opens</td>
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<tr>
<td>8:00 AM – 11:59 PM</td>
<td>Cases of the Day Online Activity</td>
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<tr>
<td>8:00 AM – 9:40 AM</td>
<td><strong>Postgraduate Course Track I (SAM) – Fetal</strong></td>
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<tr>
<td>8:00-8:10 a.m.</td>
<td>Twin-Twin Complications – How To</td>
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<td></td>
<td>Amy R. Mehollin-Ray, MD</td>
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<tr>
<td>8:10-8:20 a.m.</td>
<td>Twin-Twin Complications – Cases</td>
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<td>Edward R. Oliver, MD, PhD</td>
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<tr>
<td>8:20-8:30 a.m.</td>
<td>Fetal Bowel – Imaging Updates and How to Do, Interpret &amp; Report</td>
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<td>Teresa Victoria, MD, PhD</td>
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<tr>
<td>8:30-8:40 a.m.</td>
<td>Fetal Bowel – Cases</td>
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<td></td>
<td>Brandon P. Brown, MD, MA, FAAP</td>
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<tr>
<td>8:40-8:50 a.m.</td>
<td>Placental Invasion Disorders – How To</td>
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<td>Luis F. Goncalves, MD</td>
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<td>8:50-9:00 a.m.</td>
<td>Placental Invasion Disorders – Cases</td>
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<td>Mariana L. Meyers, MD</td>
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<td>9:00-9:10 a.m.</td>
<td>Radiologic Approach: Fetal Ventriculomegaly</td>
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<td>Sarah S. Milla, MD, FAAP</td>
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<td>9:10-9:20 a.m.</td>
<td>Challenging Cases in the Fetal Abdomen</td>
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<td>Christopher I. Cassady, MD, FAAP, FRANZCR</td>
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<tr>
<td>9:20-9:40 a.m.</td>
<td>SAM Questions &amp; Discussion</td>
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<td>8:00 AM – 9:40 AM</td>
<td>Postgraduate Course Track II (SAM) – MSK in the ED</td>
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<tr>
<td>8:00-8:10 a.m.</td>
<td>Radiologic Approach: Child with Acute and Painful Limping</td>
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<td>Kieran J. Frawley, MBBS</td>
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<td>8:10-8:20 a.m.</td>
<td>Pelvis Fractures: How To</td>
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<td>Arthur B. Meyers, MD</td>
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<td>8:20-8:30 a.m.</td>
<td>Pelvis Fractures: Cases</td>
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<td>Matthew R. Hammer, MD</td>
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<td>8:30-8:40 a.m.</td>
<td>Sickie Cell Patient with Bone Pain – How To</td>
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<td>Mahesh M. Thapa, MD</td>
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<td>8:40-8:50 a.m.</td>
<td>Sickie Cell Patient with Bone Pain - Cases</td>
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<td>Bamidele F. Kammen, MD</td>
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<td>8:50-9:00 a.m.</td>
<td>Soft Tissue – Trauma vs. Infection – How To</td>
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<td>Andrew S. Phelps, MD</td>
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<td>9:00-9:10 a.m.</td>
<td>Soft Tissue – Trauma vs. Infection - Cases</td>
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<td>Delma Y. Jarrett, MD</td>
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<td>9:10-9:20 a.m.</td>
<td>Challenging Extremity Trauma Radiographs</td>
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<td>Erika Rubesova, MD</td>
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<td>9:20-9:40 a.m.</td>
<td>SAM Questions &amp; Discussion</td>
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<tr>
<td>9:40 AM – 10:20 AM</td>
<td>Break</td>
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<tr>
<td>10:20 AM – 12:00 PM</td>
<td>Postgraduate Course Track I (SAM) – Updates on Ultrasound</td>
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<tr>
<td>10:20-10:30 a.m.</td>
<td>Contrast-enhanced US of Solid Mass – How To</td>
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<td>Susan J. Back, MD</td>
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<tr>
<td>10:30-10:40 a.m.</td>
<td>Contrast-enhanced US of Solid Mass - Cases</td>
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<td>Judy H. Squires, MD</td>
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<tr>
<td>10:40-10:50 a.m.</td>
<td>Liver Transplant Doppler – How To</td>
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<td>Rama S. Ayyala, MD</td>
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<td>10:50-11:00 a.m.</td>
<td>Liver Transplant Doppler - Cases</td>
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<td>Michael R. Acord, MD</td>
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<tr>
<td>11:00-11:10 a.m.</td>
<td>Lung US – How To</td>
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<td>Monica Epelman, MD</td>
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<td>11:10-11:20 a.m.</td>
<td>Lung US - Cases</td>
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<td>Brian D. Coley, MD, FACR</td>
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<tr>
<td>11:20-11:30 a.m.</td>
<td>Radiologic Approach to Renal Doppler – When Is It Helpful?</td>
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<tr>
<td>Harriet J. Paltiel, MD</td>
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<tr>
<td>11:30-11:40 a.m.</td>
<td>Challenging Cases of Thyroid Sonography (TI-RADS)</td>
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<tr>
<td>Jennifer E. Lim-Dunham, MD, FACR</td>
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<tr>
<td>11:40-12:00 p.m.</td>
<td>SAM Questions &amp; Discussion</td>
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<tr>
<td>10:20 AM – 12:00 PM</td>
<td>Postgraduate Course Track II (SAM) – NAT</td>
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<tr>
<td>10:20-10:30 a.m.</td>
<td>Radiologic Approach: Young Child with Healing Fractures</td>
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<tr>
<td>Ellen S. Park, MD, MS</td>
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<tr>
<td>10:30-10:40 a.m.</td>
<td>Warning Signs of NAT in Infant Head Trauma</td>
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<tr>
<td>Teresa Chapman, MD, MA</td>
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<tr>
<td>10:40-10:50 a.m.</td>
<td>Differential Diagnosis of NAT in Infant Head Trauma</td>
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<td>Giulio Zuccoi, MD</td>
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<td>10:50-11:00 a.m.</td>
<td>Skeletal Trauma in NAT: Common and Uncommon Skeletal Injuries in NAT</td>
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<td>Lydia Bajno, MD</td>
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<td>11:00-11:10 a.m.</td>
<td>Skeletal Trauma in NAT: How Old is the Injury?</td>
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<td>Andy Tsai, MD, PhD</td>
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<td>11:10-11:20 a.m.</td>
<td>Abdominal and Pelvic Injuries in NAT – How To</td>
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<td>HaiThuy N. Nguyen, MD</td>
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<td>11:20-11:30 a.m.</td>
<td>Abdominal and Pelvic Injuries in NAT - Cases</td>
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<td>Aparna Joshi, MD</td>
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<td>11:30-11:40 a.m.</td>
<td>Challenging Cases of NAT</td>
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<td>Gary L. Hedlund, DO</td>
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<td>11:40-12:00 p.m.</td>
<td>SAM Questions &amp; Discussion</td>
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<tr>
<td>12:00 PM</td>
<td>Postgraduate Course Adjourns</td>
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<tr>
<td>12:00 PM – 1:30 PM</td>
<td>Lunch Break</td>
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<td>12:00 PM – 1:30 PM</td>
<td>3D Read with the Experts – Non- CME</td>
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<tr>
<td>12:00 PM – 1:30 PM</td>
<td>CT Protocol Session – Non-CME</td>
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<tr>
<td>1:30 PM – 2:30 PM</td>
<td><strong>Annual Meeting Welcome &amp; Neuhauser Lecture</strong></td>
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<tr>
<td>1:30-1:35 p.m.</td>
<td>2019 Welcome Address</td>
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<td>Taylor Chung, MD, SPR President</td>
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<td>1:35-2:30 p.m.</td>
<td><strong>Edward B. Neuhauser Lecture – Deep Visual Understanding from Deep Learning</strong></td>
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<td>Jitendra Malik, PhD, Professor, Department of Electrical Engineering &amp; Computer Science,</td>
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<td>University of California at Berkeley</td>
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<td>2:30 PM – 3:30 PM</td>
<td><strong>Artificial Intelligence: A Real Assistant for Imagers</strong></td>
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<td>2:30-2:40 p.m.</td>
<td><strong>Landscape &amp; Introduction</strong></td>
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<td>Shreyas Vasanawala, MD, PhD, Radiologist &amp; Scientist, Stanford University</td>
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<td>2:40-2:55 p.m.</td>
<td><strong>Learning to Create Images</strong></td>
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<td>Joseph Cheng, PhD, Senior Scientist, Stanford University</td>
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<td>2:55-3:10 p.m.</td>
<td><strong>Speeding up Image Segmentation</strong></td>
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<td>Akshay Chaudhari, PhD, Post-doctoral Scholar, Stanford University</td>
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<tr>
<td>3:10-3:25 p.m.</td>
<td><strong>Autonomous Image Acquisition</strong></td>
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<td>Juan Santos, PhD, Scientist &amp; Founding CEO HeartVista</td>
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<tr>
<td>3:25-3:30 p.m.</td>
<td><strong>Discussion</strong></td>
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<td>3:30 PM – 4:00 PM</td>
<td><strong>Exhibit Hall Kick-off Party</strong></td>
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<td>Join us as we welcome the 2019 SPR Exhibitors.</td>
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<tr>
<td>4:00 PM – 5:15 PM</td>
<td><strong>Scientific Session I-A: Gastrointestinal</strong></td>
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<td>Moderators: Michael Ches, MD, PhD &amp; Sudha Anupindi, MD</td>
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<td>4:00 PM – 5:15 PM</td>
<td><strong>Scientific Session I-B: Interventional</strong></td>
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<td>Moderators: Leah Braswell, MD &amp; Tim Singewald, MD</td>
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<td>4:00 PM – 5:15 PM</td>
<td><strong>Scientific Session I-C: Informatics, Education, Policy</strong></td>
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<td>Moderators: Scott Dorfman, MD &amp; Alexander Towbin, MD</td>
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<td>5:15 PM</td>
<td><strong>Sessions Adjourn</strong></td>
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<td>5:15 PM – 7:00 PM</td>
<td><strong>Awards Ceremony</strong></td>
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<td>7:00 PM – 8:00 PM</td>
<td><strong>2019 Annual Meeting Welcome Reception</strong></td>
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**THURSDAY, MAY 2nd**

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>6:45 AM – 8:00 AM</td>
<td><strong>Continental Breakfast &amp; Exhibit Hall</strong></td>
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<tr>
<td>8:00 AM – 11:59 PM</td>
<td><strong>Cases of the Day Online Activity</strong></td>
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<tr>
<td>7:00 AM – 8:20 AM</td>
<td><strong>Sunrise Session I - Creating a Research Infrastructure</strong></td>
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<td>Moderators: Amie S. Robinson, BSRT, (R) (MR) CCRP &amp; Shireen Hayatghaibi, MA, MPH</td>
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<td>Chief’s Perspective/Providing Value through Research</td>
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<td>Rajesh Krishnamurthy, MD</td>
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<td><strong>Research Types</strong></td>
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<td>Raymond W. Sze, MD</td>
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<td><strong>Administrative Do’s and Don’ts</strong></td>
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<td>Amie S. Robinson, BSRT, (R)(MR)CCRP &amp; Sherwin S. Chan, MD</td>
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<td><strong>Developing a Curriculum for Trainees</strong></td>
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<td>Andrew T. Trout, MD</td>
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<td><strong>Measuring Success with Key Metrics</strong></td>
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<td>Shireen Hayatghaibi, MA, MPH</td>
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<td><strong>Leveraging Your Resources and Talents</strong></td>
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<td>Douglas C. Rivard, DO</td>
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<td>7:00 AM – 8:20 AM</td>
<td><strong>Sunrise Session II - WFPI</strong></td>
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<td>Moderator: Dorothy I. Bulas, MD, FACR</td>
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<td><strong>Introduction</strong></td>
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<td>M. Ines Boechat, MD</td>
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<td><strong>Pediatric Radiology Education &amp; Innovation in China</strong></td>
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<td>Maggie Zhong, MD</td>
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<td><strong>Innovation in Africa using Artificial Intelligence as a Sustainable Solution for Healthcare</strong></td>
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<td>Jaishree Naidoo, FCRad</td>
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<td><strong>Challenging of Ensuring Radiation Safety in Low Resource Settings</strong></td>
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<td>Monica Atalabi, MD</td>
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<td><strong>Update in WFPI Fellowship Initiatives</strong></td>
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<td>Jaishree Naidoo, FCRad</td>
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7:50-8:10 a.m.  Innovation Outreach Initiatives – Top 5 Recommendations  
Dorothy I. Bulas  
Rwanda Experience – George A. Taylor, MD, FACR  
Mozambique Experience – Ricardi Faingold, MD  
Tanzania Experience – Sjirk J. Westra, MD, FACR  
8:10-8:20 a.m.  Discussion

7:00 AM – 8:20 AM  
Sunrise Session III – Professionalism  
Moderator: Brandon P. Brown, MD, MA, FAAP  
7:00-7:15 a.m.  Burnout in Pediatric Radiology  
Rama S. Ayyala, MD  
7:15-7:30 a.m.  Customer Service in Radiology  
Alexander J. Towbin, MD  
7:30-7:50 a.m.  What Your Hospital/Chief Wants From You  
George S. Bisset, MD, FACR  
7:50-8:05 a.m.  The Changing Workforce in Radiology  
Jane C. Cook, DO  
8:05-8:20 a.m.  Building a Culture of Professionalism  
Brandon P. Brown, MD, MA, FAAP

7:00 AM – 8:20 AM  
Sunrise Session IV – What’s New That Radiation Can Do For You  
Moderator: Steven Don, MD  
7:00-7:20 a.m.  Spectral CT – Applications in Pediatric Radiology  
Nicholas Rubert, PhD  
7:20-7:35 a.m.  Clinical Case Utilization of Spectral CT Applications  
Richard Southard, MD  
7:35-7:50 a.m.  DECT in Clinical Practice  
Erica L. Riedesel, MD  
7:50-8:05 a.m.  Update on Digital Radiography: What’s New?  
Steven Don, MD  
8:05-8:20 a.m.  3D and Videofluoroscopy Techniques in Pediatric Radiology  
Benjamin Thompson, DO

7:00 AM – 8:20 AM  
Sunrise Session V – Learn From the Experts  
Moderators: George A. Taylor, MD, FACR & Alan S. Brody, MD  
7:00-7:15 a.m.  What Were We Thinking?  
James E. Crowe, MD  
7:15-7:30 a.m.  Career Lessons – Thoughts on Leadership  
George A. Taylor, MD, FACR  
7:30-7:45 a.m.  Keeping Things in Perspective  
Alan E. Schlesinger, MD  
7:45-8:00 a.m.  Lessons: The Good, The Bad and The Ugly  
Alan S. Brody, MD  
8:00-8:15 a.m.  Retirement Starts at 30  
Bruce R. Parker, MD, FACR  
8:15-8:20 a.m.  Q&A

8:30 AM – 10:20 AM  
Scientific Session II-A: Genitourinary  
Moderators: Ronald Cohen, MD & Patricia Acharya, MD  
Keynote Presentation: Interesting Pediatric Urology Cases – How Imaging Can Help – Laurence Baskin, MD, Oakland-San Francisco

8:30 AM – 10:20 AM  
Scientific Session II-B: Cardiovascular/Education  
Moderators: Rajesh Krishnamurthy, MD & Karen Lyons, MD  
Keynote Presentation: Stem Cell Therapy for Patients with Single Ventricle - Shunji Sano, MD, PhD, San Francisco-Oakland

8:30 AM – 10:20 AM  
Scientific Session II-C: Interventional Radiology  
Moderators: Ahmad Alomari, MD & Anne Gill, MD  
Keynote Presentation: Angloarchitecture and the Imaging of Vascular Malformations – Patricia E. Burrows, MD, St. Petersburg

8:30 AM – 10:20 AM  
Technologist Program – Session I  
Moderator: Laura Gruber, MBA, RT(R), RDMS, RVT  
Ice Breaker  
Nikki Butler, BMSc, RT(R), (MR)  
8:50-9:05 a.m.  Transitioning From Adults to Pediatrics  
Gabe Linke, BSRT, (R)(MR)  
9:05-9:20 a.m.  Strategies for Imaging Patients with Special Needs  
Merima Karastanovic, MS, RT(R)(MR)
9:20-9:35 a.m. Why Do I Need to Look at Other Imaging Studies Prior to Performing Exams?  
Lacey Gander

9:35-9:50 a.m. Struggles of Anesthesia  
Christine Harris, RT(R)(MR)

9:50-10:05 a.m. Slight of the Hand Scheduling Magic  
Angela Quintello,

10:05-10:20 a.m. Gad Dep in the Pediatric Population  
Charles Stanley

10:20 AM – 10:50 AM Break

10:50 AM – 12:00 PM Midday Session I – Heartless Vascular Imaging  
Moderator: Prakash M. Masand, MD

10:50-11:05 a.m. Ferumoxytol/Feraheme Contrast for MRA  
Dianna M.E. Bardo, MD

11:05-11:20 a.m. Contrast-enhanced Body MRA in Children: Techniques and Indications  
Ladonna J. Malone, MD

11:20-11:30 a.m. Blood Pool Contrast for Abdominal MRA Post Ablavar  
Lindsay Griffen, MD

11:30-11:45 a.m. Contrast and Non-contrast Extremity MRA  
Michael A. Breen, MBBCh

11:45-12:00 p.m. MR Lymphangiography  
Govind B. Chavhan, MD

10:50 AM – 12:00 PM Midday Session II – Incidentalomas  
Moderator: R. Paul Guillerman, MD

10:50-11:05 a.m. Neuroradiology  
Sarah S. Milla, MD, FAAP

11:05-11:20 a.m. MSK  
Lauren W. Averill, MD

11:20-11:30 a.m. Chest  
Paul G. Thacker, MD, MHA

11:30-11:45 a.m. GI  
Martha M. Munden, MD

11:45-12:00 p.m. GU  
R. Paul Guillerman, MD

10:50 AM – 12:00 PM Midday Session III – Pearls in Neonatal Ultrasound  
Moderator: Monica Epelman, MD & Rama S. Ayyala, MD

10:50-11:05 a.m. US for Necrotizing Enterocolitis: Utility and Pitfalls  
Cicero T. Silva, MD

11:05-11:20 a.m. Head US in HIE in Term Infants  
Monica Epelman, MD

11:20-11:35 a.m. Utility of Supplemental Views for Head US in Preterm Infants  
Rama S. Ayyala, MD

11:35-11:45 a.m. US of Diaphragm  
Brooke S. Lampi, DO

11:45-12:00 p.m. US of Brachial Plexus  
Ramesh S. Iyer, MD

10:50 AM – 12:00 PM Midday Session IV – Noninterpretive Skills  
Moderator: Richard E. Heller III, MD, MBA

10:50-11:05 a.m. Communication  
George S. Bisset, MD, FACR

11:05-11:20 a.m. Presentation Skills  
Richard E. Heller III, MD, MBA

11:20-11:30 a.m. Time Management  
Jonathan R. Dillman, MD, MSc

11:30-11:40 a.m. Faculty Development  
Brian D. Coley, MD, FACR

11:40-12:00 p.m. Leading As a Pediatric Radiologist  
Richard B. Gunderman, MD, FACR

10:50 AM – 12:00 PM Midday Session V – CEUS Technique and Applications  
Moderators: Kassa Darge, MD, PhD & M. Beth McCarville, MD

10:50-11:00 a.m. Contrast US of the Brain  
Misun Hwang, MD

11:00-11:10 a.m. Contrast US of the Liver  
Jeannie K. Kwon, MD
11:10-11:20 a.m.  
Contrast US of the Spleen, Kidney and Co.  
Patricia T. Acharya, MD

11:20-11:30 a.m.  
CEUS Bowel  
Ami Gokili, MD

11:30-11:40 a.m.  
Contrast US of the Hip Joint  
Susan J. Back, MD

11:40-11:50 a.m.  
Contrast enhanced Voiding Urosonography  
Jeanne “Mei-Mei” S. Chow, MD

11:50-12:00 p.m.  
Contrast US for Interventional Radiology  
Michael R. Acord, MD

10:50 AM – 12:00 PM  
Technologist Program – Session II  
Moderator: Trista Raymer Maule, RT

10:50-11:10 a.m.  
MRI Imaging of Cochlear Implants  
Christina Sammet, PhD

11:10-11:30 a.m.  
US TCD in Ages 1-4  
Brandi Kozak, RDMS

11:30-12:00 p.m.  
Interesting Uses of Imaging (Mummy Experience and Cadaver Imaging)  
Gabe Linke, BSRT, (R)(MR)

12:00 PM – 1:30 PM  
Lunch Break

12:00 PM – 1:30 PM  
MR Protocol Session – Non-CME

1:30 PM – 3:30 PM  
Technologist Program – Session III  
Moderator: Christine Harris, RT(R)(MR)

1:30-2:15 p.m.  
Hot Topics  
Scientific Abstract Presentations

1:30 PM – 2:40 PM  
REF Research in Action

1:30-1:50 p.m.  
Towards Pediatric Body MR without Anesthesia  
Michael “Miki” Lustig, PhD, Associate Professor, Department of Electrical Engineering & Computer Science, UC Berkeley

1:50-1:58 p.m.  
Education Project Grant – “Facilitating a Pediatric Radiology Curriculum in the Global Health Setting Using Tablet Computers”  
Jennifer Nicholas, MD

1:58-2:06 p.m.  
Education Project Grant – “Pediatric Cardiovascular CT: A Faculty Development Initiative”  
Lorna P. Browne, MD, FACR

2:06-2:14 p.m.  
Seed Grant – “Feasibility of contrast-enhanced Transfontanelle Ultrasound: Comparison with Magnetic Resonance Imaging in the Neonate”  
Judy H. Squires, MD

2:14-2:22 p.m.  
Young Investigator Award – “In vivo Tau Imaging using 18F-AV-1451 PET Radioligand in a Swine Model of Closed Head Injury”  
Neha S. Kwatra, MD

2:22-2:30 p.m.  
Multi-Institutional Pilot Award – “Determination of Normal Liver Stiffness by MR Elastography in Children”  
Andrew Trout, MD

2:30-2:40 p.m.  
Wrap-up & Announcements  
Damien Grattan-Smith, MD

2:40 PM – 3:30 PM  
Pediatric Radiology Jeopardy  
Host - Richard E. Heller III, MD, MBA

Hall of Fame Team – Captain - Dorothy I. Bulas, MD, FACR  
Marta Hernanz-Schulman, MD, FACR, George Taylor, MD FACR & Brian Coley, MD, FACR

All-Star Team – Captain - Jonathan R. Dillman, MD  
Rama Ayyala, MD, Sarah Milla, MD & R. Paul Guillerman, MD

3:30 PM – 4:00 PM  
Exhibit Hall Break

4:00 PM – 5:40 PM  
Scientific Session III-A: Neuroradiology/Cardiology  
Moderators: Susan Palasis, MD & Starn Konratana, MD

4:00 PM – 5:40 PM  
Scientific Session III-B: Musculoskeletal  
Moderators: John MacKenzie, MD & Jié Nguyen, MD

4:00 PM – 5:40 PM  
Scientific Session III-C: ALARA/Gastrointestinal  
Moderators: Gary Schoeller, MD & Heather Bray, MD

4:00 PM – 5:40 PM  
Technologist Program – Session IV  
Moderator: Laura Poznick, AAS, RDMS

4:00-4:20 p.m.  
MR Cardiac Pacemakers  
Georgina Prevett, MS, RT(R)(N) (CT)(MR), CNMT(CT)
FRIDAY, MAY 3rd

6:45 AM – 8:00 AM  Continental Breakfast & Exhibit Hall
8:00 AM – 11:59 PM  Cases of the Day Online Activity

7:00 AM – 8:20 AM  WFPI Breakfast Get Together: Pediatric Radiology Outreach FAQ
Interested in outreach? Interested in learning what your colleagues in the World Federation of Pediatric Imaging, an alliance of Pediatric Radiology organizations across the globe, are doing and, if interested, how you could jump in? Pick up your breakfast from the hallway and join us for an informal gathering of WFPI volunteers and supporters!

7:00 AM – 8:20 AM  Sunrise Session VI – Thoracic Imaging
Moderator: Alan S. Brody, MD
7:00-7:15 a.m.  Dynamic Airway Imaging
Pamela M. Ketwaroo, MD
7:15-7:35 a.m.  What is Pneumonia and What Should We Do about It?
Alan S. Brody, MD
7:35-7:50 a.m.  Pediatric Chest CTA
Karen Lyons MD, BCh, BAO
7:50-8:05 a.m.  Functional Lung MRI: From Research Tool to Clinical Application
Talissa Altes, MD
8:05-8:20 a.m.  Strategies for Optimizing Thoracic CT and MRI in Children
Sarah Desoky, MD

7:00 AM – 8:20 AM  Sunrise Session VII – Hybrid Imaging
Moderator: Stephan D. Voss, MD, PhD
7:00-7:20 a.m.  Hybrid Imaging in Pediatrics
Stephen D. Voss, MD, PhD
7:20-7:35 a.m.  SPECT/CT ONC
Susan E. Sharp, MD
7:35-7:50 a.m.  PET CT in Lymphoma
Pek-Lan Khong, MBBS, FRCR
7:50-8:05 a.m.  PET and SPECT CT in Epilepsy
Jason N. Wright, MD
8:05-8:20 a.m.  PET MR Oncology
Heike E. Daldrup-Link, MD, PhD

7:00 AM – 8:20 AM  Sunrise Session VIII – Safety
Moderator: Michael J. Callahan, MD
7:00-7:15 a.m.  Here’s Looking at You, CT
Donald P. Frush, MD, FACR
7:15-7:30 a.m.  MRI Safety
Cory M. Pfeifer, MD, MS, FAAP
7:30-7:45 a.m.  Gadolinium Deposition: Update
Alex Radbruch, MD
7:45-8:00 a.m.  Anesthesia Safety
Joshua Nickerson, MD
8:00-8:20 a.m.  Putting It Together: Risk/Benefit of Abdominal MRI vs. CT in Young Pediatric Patients
Michael J. Callahan, MD

7:00 AM – 8:20 AM  Sunrise Session IX – Radiogenomics
Moderator: Matthew A. Zapala, MD, PhD
7:00-7:15 a.m.  Radiogenomics: A Primer and Initial Applications to Pediatric Radiology
Matthew A. Zapala, MD, PhD
7:15-7:30 a.m.  Practical Radiomics and Radiogenomics Using Computational Pipelines
Sandy Napel, PhD
7:30-7:45 a.m.  Radiogenomics in Pediatric Neuroradiology
Kristen Yeom, MD
7:45-8:00 a.m.  Radiogenomics in the World of Nuclear Medicine
Spencer Behr, MD, PhD
8:00-8:20 a.m.  Imaging Genomics in the Age of Bioinformatics, a Computational Perspective
Olivier Gavaert, PhD

8:30 AM – 10:20 AM  Scientific Session IV-A: Nuclear/Oncology
Moderators: Stephan Voss, MD & Adina Alazraki, MD
Keynote Presentation: Total-Body PET/CT: Simultaneous Imaging of the Entire Body with EXPLORER – Ramsey Badawi, MD, PhD, Davis

8:30 AM – 10:20 AM  Scientific Session IV-B: Neonatal/Fetal/Neuroradiology
Moderators: Misun Hwang, MD & Rama Ayyala, MD
Keynote Presentation: How Alterations of Normal Brain Development Results in Malformations - James Barkovich, MD, Oakland-San Francisco

8:30 AM – 10:20 AM  Scientific Session IV-C: Thoracic
Moderators: Paul Thacker, MD & Ladonna Malone, MD
Keynote Presentation: Standardization of Postnatal CT Imaging and Interpretation of Bronchopulmonary Malformations - Beverley Newman, MD, Stanford

8:30 AM – 10:20 AM  Technologist Program – Session V
Moderator: Tara Cielma, RDMS, RDCS, RVT, RT(S)
8:30-8:50 a.m.  MSK Ultrasound
Parker Stanley
8:50-9:10 a.m.  LEAN in Nuclear Medicine
Joseph MacLean, RT
9:10-9:30 a.m.  CT Dynamic Imaging
Erica Gates, RT(R) (CT) (ARRT)
9:30-10:20 a.m.  Scientific Abstract Presentations

10:50 AM – 12:00 PM  Midday Session VI – Image Gently
Moderator: Donald P. Frush, MD, FACR
10:50-11:10 a.m.  From Abbey Road to the Digital Highway: Update on Medical Radiation Exposure to Children in the US
Donald P. Frush, MD, FACR
11:10-11:30 a.m.  Help: Decision Support for Pediatric CT
Marta Hernanz-Schulman, MD, FACR
11:30-11:50 a.m.  Get Back: Recommendations for Gonadal Shielding in Children
Keith J. Strauss, MSc, FACR
11:50-12:00 p.m.  Come Together: AI/Machine Learning in Radiology
Matthew P. Lungren, MD, PhD

10:50 AM – 12:00 PM  Midday Session VII – Cardiac MR
Moderator: Lorna P. Browne, MD
10:50-11:05 a.m.  Crash Course in the Common Congenital Cardiac Surgeries
Lorna P. Browne, MD
11:05-11:20 a.m.  How Do I Start Incorporating T1 and T2 Mapping in to my Clinical Practice?
Christopher Lam, MD
11:20-11:40 a.m.  How Do I Start Scanning Pacemakers in my Clinical Practice?
Maryam Ghadami Mahani, MD
11:40-12:00 p.m.  How Do I Image a Failing Fontan?
David M. Biko, MD

10:50 AM – 12:00 PM  Midday Session VIII – Advanced Topics in Pediatric MRI
Moderator: Sarah D. Bixby, MD
10:50-11:05 a.m.  Accelerated MSK MRI
Sarah D. Bixby, MD
11:05-11:20 a.m.  Accelerated Body MRI
Michael S. Gee, MD, PhD
11:20-11:40 a.m.  Accelerated Neuro MRI
Mai-Lan Ho, MD
11:40-12:00 p.m.  High Value MRI: What Does the Future Look Like?
Houchun H. Hu, PhD

10:50 AM – 12:00 PM  Midday Session IX – Diagnostic Dilemmas/Questions
Moderator: Kirsten Ecklund, MD
10:50-11:05 a.m.  Whole Body MRI vs. PET
Govind B. Chavhan, MD
11:05-11:20 a.m.  When Do Cartilage Maps Actually Help
Diego Jaramillo, MD, MPH
11:20-11:35 a.m.  Developments in Lung MRI
   Shreyas Vasanawala, MD, PhD

11:35-11:50 a.m.
   Options for Scoliosis Imaging
   Kirsten Ecklund, MD

11:50-12:00 p.m.  MRE – Do I Really Need 25 Sequences?
   Prakash M. Masand, MD

10:50 AM – 12:00 PM  Midday Session X – Value-Added Radiology
   Moderator: David B. Larson, MD

10:50-11:00 a.m.  Adding Value as a Consultant
   Brandon P. Brown, MD, MA, FAAP

11:00-11:15 a.m.  Measuring the Value of Consultation
   Nghia (Jack) Vo, MD

11:15-11:25 a.m.  Time-Driven Activity-Based Costing
   Robert C. Orth, MD, PhD

11:25-11:45 a.m.  The Role of Technologist Education in Practice Reform
   David B. Larson, MD

11:45-12:00 p.m.  Using Radiology Extenders to Add Value
   Brandy Bales, RPA, RT(R)(M)

10:50 AM – 12:00 PM  Technologist Program – Session VI
   Moderator: Lacy Gandor, RDMS

10:50-11:10 a.m.  PET/MR How to Decrease Overall Scan Time
   Elad Nevo, MS, RT(MR)(N)(CT), CNMT

11:10-11:30 a.m.  Comparison of Standard VCUG, ceVcug, Nuclear VCUG
   Roxanne Munyon
   Joseph Maclean, RT
   Laura Poznick, RDMS

11:30-12:00 p.m.  Imaging Jeopardy
   Nikki Butler, BMSc, RT(R), (MR)

12:00 PM – 1:30 PM  Lunch

12:00 PM – 1:30 PM  SPR Business Meeting – Members Only

1:30 PM – 3:30 PM  Scientific Session V-A: Fetal/Musculoskeletal
   Moderators: Carol Barnewolt, MD & Sarah Menashe, MD
   Keynote Presentation: Fetal Imaging: Key to Fetal/Peri-natal Surgical Management in 2019? – Darrell Cass, MD, Cleveland

1:30 PM – 3:30 PM  Scientific Session V-B: Cardiovascular
   Moderators: Harry Hu, PhD & Christopher Lam, MD
   Keynote Presentation: Gadolinium Deposition in Children: Should we Worry? Alexander Radbruch, MD, Essen, Germany

1:30 PM – 3:30 PM  Scientific Session V-C: Neuroradiology
   Moderators: Ashok Panigrahy, MD & Hisham Dahmoush, MD
   Keynote Presentation: Immersive Virtual Reality Imaging in Pediatric Neurosurgery - Kurtis Auguste, MD, Oakland-San Francisco

3:30 PM – 3:45 PM  Break

3:45 PM – 5:45 PM  Scientific Session VI-A: Musculoskeletal
   Moderators: Bamidele Kammen, MD & Mahesh Thapa, MD
   Keynote Presentation: How Advanced Imaging Has Changed Surgical Practice in the Age of Sports Specialization – Nirav Pandya, MD, Oakland

3:45 PM – 5:45 PM  Scientific Session VI-B: Gastrointestinal
   Moderators: Govind Chavhan, MD & Ethan Smith, MD
   Keynote Presentation: Advanced Imaging is Integral to the Clinical Care of Pediatric Gastrointestinal, Hepatologic, and Pancreatic Diseases – Zachary Sellers, MD, PhD, Stanford

3:45 PM – 5:45 PM  Scientific Session VI-C: Informatics/Educational
   Moderators: David Larson, MD & Michael Moore, MD
   Keynote Presentation: The Sacred Work of Caring for Children – Richard Gunderman, MD, Indianapolis

5:45 PM  Sessions Adjourn

7:00 PM – 10:30 PM  Reception & Annual Banquet – separate fee applies
SATURDAY, MAY 4th

7:00 AM – 8:00 AM  Continental Breakfast & Exhibit Hall
7:00 AM – 8:00 AM  US Protocol Session – Non-CME
8:00 AM – 11:59 PM  Cases of the Day Online Activity

8:00 AM – 12:00 PM  Cardiac CT – Pre-registration required, Non-CME
  8:00-8:10 a.m.  Welcome & Introductions
  Lorna P. Browne, MD, FACR
  8:10-8:25 a.m.  Cardiac CT – Technical Aspects
  Prakash M. Masand, MD
  8:25-8:40 a.m.  Cardiac CT Dose & Pitfalls
  Lorna P. Browne, MD, FACR
  8:40-8:55 a.m.  Cardiac CT for Anomalous Pulmonary Venous Connections
  Mark R. Ferguson, MD
  8:55-9:10 a.m.  Neonatal and Infantile Coronary Artery CT
  Eric Hoggard, MD
  9:10-9:25 a.m.  Anomalous Aortic Origin of the Coronary Arteries and Myocardial Bridge Evaluation
  Dianna M. E. Bardo, MD
  9:25-9:40 a.m.  Approach to Heterotaxy on Cardiac CT
  Rajesh Krishnamurthy, MD
  9:40-9:55 a.m.  Cardiac CT for Ductal Dependent Anatomy
  David M. Biko, MD
  9:55-10:20 a.m.  Wrap-up/Break
  10:20-10:30 a.m.  Case Review Session Introduction & Buttonology with Arterys
  10:30-11:00 a.m.  Independent Case Review
  11:00-11:10 a.m.  Mentored Case Review – Anomalous Pulmonary Venous Connections
  Marielle Fortier, MD
  11:10-11:20 a.m.  Mentored Case Review – Coronary Arteries
  Hyun Woo Goo, MD, PhD
  11:20-11:30 a.m.  Mentored Case Review - Heterotaxy
  Maryam Ghadimi Mahani, MD
  11:30-11:40 a.m.  Mentored Case Review – Ductal Dependent Anatomy
  Cynthia K. Rigsby, MD, FACR
  11:40-12:00 p.m.  Interesting Case Review
  Carlos F. Ugas Charcape, MD

8:00 AM – 12:00 PM  Interventional Radiology – SAM Session
  Moderator: Manish Patel, MD
  8:00-8:05 a.m.  Welcome, Introductions & SAM Overview
  Leah E. Braswell, MD
  8:05-8:30 a.m.  HIFU
  Karun Sharma, MD
  8:30-8:55 a.m.  Complex Vascular Access U & Beyond
  Allison S. Aguado, MD
  8:55-9:20 a.m.  Management of Biliary Strictures
  Giridhar Shivaram, MD
  9:20-9:45 a.m.  Discussion & SAM Questions
  9:45-10:00 a.m.  Break
  10:00-10:05 a.m.  Welcome Back & SAM Reminder
  10:05-10:30 a.m.  Artificial Intelligence in IR
  Matthew P. Lungren, MD
  10:30-10:55 a.m.  Retinoblastoma Intra-arterial Chemotherapy
  Todd Abruzzo, MD
  10:55-11:20 a.m.  Pediatric Thrombolysis with Update on Management for May-Thurner
  Patrick Waren, MD
  11:20-12:00 p.m.  Discussion & SAM Questions

8:00 AM – 12:00 PM  Best Practices: Collaboration & Innovation for Pediatric Nuclear Medicine & Hybrid Imaging – SAM Session
  Moderators: Helen Nadel, MD & Victor J. Seghers, MD, PhD
  8:00-8:05 a.m.  Welcome, Introductions & SAM Overview
  Helen Nadel, MD
  8:05-8:30 a.m.  How Nuclear Medicine is practiced at Children’s Hospitals
  Victor J. Seghers, MD, PhD
  8:30-8:55 a.m.  AI Man or Machine? Can It Work for Nuclear Medicine?
  Safwan Halabi, MD
  8:55-9:20 a.m.  Brain PET/MRI for Epilepsy – Best Practices
  Hisham Dahmoush, MBBCh
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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>9:20-9:45 a.m.</td>
<td>Discussion &amp; SAM Questions</td>
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<td>9:45-10:00 a.m.</td>
<td>Break</td>
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<tr>
<td>10:00-10:05 a.m.</td>
<td>Welcome Back &amp; SAM Reminder</td>
<td>Victor J. Seghers, MD, PhD</td>
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<td>10:05-10:30 a.m.</td>
<td>Multidisciplinary Approach to Thyroid Cancer – Two Centers’ Experience</td>
<td>Kara Meister, MD &amp; Adina L. Alazraki, MD</td>
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<td>10:30-10:55 a.m.</td>
<td>Pulmonary Artery Reconstruction and Lung Perfusion Quantitation</td>
<td>Arun Rangaswami, MD</td>
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<td>10:55-11:20 a.m.</td>
<td>Metabolic Tumor Biopsy</td>
<td>TBD</td>
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<td>11:20-11:45 a.m.</td>
<td>Discussion &amp; SAM Questions</td>
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<tr>
<td>11:45-12:00 p.m.</td>
<td>Wrap-up</td>
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**8:00 AM – 12:00 PM**  
**Education: Advanced Skills in Translational Teaching – SAM Session**

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tr>
<td>8:00-8:15 a.m.</td>
<td>Welcome, Introductions &amp; SAM Overview</td>
<td>Sarah Milla, MD, FAAP</td>
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<td>8:15-8:30 a.m.</td>
<td>Teaching Dynamically</td>
<td>Sarah Milla, MD, FAAP</td>
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<td>8:30-9:15 a.m.</td>
<td>Technology That Works in Teaching</td>
<td>Janet R. Reid, MD</td>
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<td>9:15-10:00 a.m.</td>
<td>Hands-on: Two Minute PowerPoint &amp; Panel</td>
<td>Sarah Milla, MD, FAAP</td>
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<td>10:00-10:30 a.m.</td>
<td>Break</td>
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<tr>
<td>10:30-10:45 a.m.</td>
<td>The Complete Scope of Teaching</td>
<td>Janet R. Reid, MD</td>
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<td>10:45-11:00 a.m.</td>
<td>Building and Maintaining a Teaching Portfolio</td>
<td>Mahesh M. Thapa, MD</td>
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<td>11:00-11:45 a.m.</td>
<td>Hands-on: Teaching Portfolio</td>
<td>Sarah Milla, MD, FAAP</td>
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<td>11:45-12:00 p.m.</td>
<td>Discussion &amp; SAM Questions</td>
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**8:00 AM – 12:00 PM**  
**Neuroradiology – SAM Session**

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<tr>
<td>8:00-8:05 a.m.</td>
<td>Welcome, Introductions &amp; SAM Overview</td>
<td>Andrea Rossi, MD</td>
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<td>8:05-8:35 a.m.</td>
<td>Pediatric Leukodystrophies</td>
<td>Theirry Huisman, MD</td>
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<td>8:35-9:05 a.m.</td>
<td>Metabolic Disorders in Newborns</td>
<td>Francisco Perez, MD, PhD</td>
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<td>9:05-9:30 a.m.</td>
<td>Pediatric Vascular Imaging in 2019</td>
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<td>9:30-9:45 a.m.</td>
<td>Discussion &amp; SAM Questions</td>
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<td>9:45-10:00 a.m.</td>
<td>Break</td>
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<tr>
<td>10:00-10:35 a.m.</td>
<td>Imaging of Hydrocephalus</td>
<td>Birgit B. Ertl-Wagner, MD, MHBA</td>
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<td>10:35-11:05 a.m.</td>
<td>Hydrocephalus Treatment – Neurosurgery Perspective</td>
<td>Nalin Gupta, MD</td>
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<td>11:05-11:35 a.m.</td>
<td>Basics of Artificial Intelligence in Pediatric Neuroimaging</td>
<td>Matthias Wagner, MD</td>
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<tr>
<td>11:35-12:00 p.m.</td>
<td>Discussion &amp; SAM Questions</td>
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**8:00 AM – 12:00 PM**  
**Hands-On Ultrasound**

**Moderators: Kassa Darge, MD, PhD & Monica Epelman, MD**

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presentation &amp; Stations</th>
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<tr>
<td>8:00-8:45 a.m.</td>
<td>Session I: Intravescical Contrast Enhanced Ultrasound</td>
<td>Susan J. Back, MD</td>
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<td>Station 1: Preparation of Ultrasound Contrast Agents</td>
<td>Laura Poznick, RDMS &amp; Brandi Kozak, RDMS</td>
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<td>Station 2: Imaging of Microbubbles: A Teach Yourself Session</td>
<td>Lamont Hill, RT, ARDMS &amp; Kassa Darge, MD</td>
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<td>Station 3: Imaging of Microbubbles: A Teach Yourself Session</td>
<td>Trudy Morgan, RDMS</td>
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<td>Station 4: Simulation of Contrast Enhanced Voiding Urosonography</td>
<td>Susan J. Back, MD &amp; Elizabeth Silvestro, MSc</td>
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<td>8:45-8:50 a.m.</td>
<td>Break</td>
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<tr>
<td>8:50-9:20 a.m.</td>
<td>Session II: Ultrasound Elastography</td>
<td>Jonathan R. Dillman, MD &amp; Brandi Kozak, RDMS</td>
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<td>Station 1 – Jonathan R. Dillman, MD, MSc</td>
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<td>Station 2 – Andrew S. Phelps, MD</td>
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<td>Station 3 – Trudy Morgan, RDMS &amp; Brandi Kozak, RDMS</td>
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<td>Station 4 – Monica Epelman, MD &amp; Maria G. Smith, BS, RDMS, RVT</td>
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<td>9:20-9:35 a.m.</td>
<td>Break</td>
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9:35-10:20 a.m.  
**Session III: Ultrasound of the Appendix**  
**Presentation:** Andrew S. Phelps, MD  
**Station 1:** Andrew S. Phelps, MD & Janet Mar, RDMS  
**Station 2:** Monica Epelman, MD & Kara Groom, RDMS  
**Station 3:** Maria G. Smith, BS, RDMS, RVT & Stephanie Suller, RDMS  
**Station 4:** Lamont Hill, RT, ARDMS & Mark Goce, RDMS  
**Station 5:** Trudy Morgan, RDMS & Kassa Darge, MD, PhD

10:20-10:25 a.m.  
**Break**

10:25-10:55 a.m.  
**Session IV: Ultrasound of the Knee**  
**Presentation:** Jie Nguyen, MD  
**Station 1:** Jie Nguyen, MD & Lamont Hill, RT, ARDMS  
**Station 2:** Trudy Morgan, RDMS & Laura Poznick, RDMS  
**Station 3:** Brandi Kozak, RDMS  
**Station 4:** Monica Epelman, MD & Kara Groom, MD  
**Station 5:** Mahesh M. Thapa, MD & Maria G. Smith, BS, RDMS, RVT

10:55-11:00 a.m.  
**Break**

11:00-11:30 a.m.  
**Session V: Ultrasound of the Ankle**  
**Presentation:** Mahesh M. Thapa, MD  
**Station 1:** Mahesh M. Thapa, MD  
**Station 2:** Jie Nguyen, MD & Lamont Hill, RT, ARDMS  
**Station 3:** Trudy Morgan, RDMS & Laura Poznick, RDMS  
**Station 4:** Monica Epelman, MD & Maria G. Smith, BS, RDMS, RVT  
**Station 5:** Kara Groom, RDMS & Brandi Kozak, RDMS

11:30-11:35 a.m.  
**Break**

11:35-12:00 p.m.  
**Session VI: Ultrasound of the Tonsils**  
**Presentation:** Anjum N. Banarkar, MD  
**Station 1:** Anjum N. Banarkar, MD  
**Station 2:** Kara Groom, RDMS  
**Station 3:** Maria G. Smith, BS, RDMS, RVT  
**Station 4:** Monica Epelman, MD & Brandi Kozak, RDMS  
**Station 5:** Lamont Hill, RT, ARDMS & Trudy Morgan, RDMS

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**EXHIBIT HALL INFORMATION**

*NEW THIS YEAR! - Join us on Wednesday, May 1st for the Exhibit Hall Kick-off Party!*

**Wednesday, May 1st**

7:30 a.m. – 8:00 a.m. – Continental Breakfast in Hall  
9:40 a.m. – 10:20 a.m. – Break & Exhibits  
3:30 p.m. – 4:00 p.m. – Exhibit Hall Kick-off Party!

**Thursday, May 2nd**

6:45 a.m. – 8:00 a.m. – Continental Breakfast in Exhibit Hall  
10:20 a.m. – 10:50 a.m. – Break & Exhibits  
3:30 p.m. – 4:00 p.m. – Break & Exhibits  
5:45 p.m. – 6:45 p.m. – Mix & Mingle: Leadership Product Showcase

**Friday, May 3rd**

6:45 a.m. – 8:00 a.m. – Continental Breakfast in Exhibit Hall  
10:20 a.m. – 10:50 a.m. – Break & Last Exhibit Hall Break
REGISTRATION SUMMARY

Registration Fee $___________

jSPR Luncheon - $45 per participant $___________

REF Fun Run - $25 per participant $___________

REF Fun Run Guest - $25 per participant $___________

Annual Banquet - $100 per participant $___________

Annual Banquet Guest - $100 per participant $___________

TOTAL ENCLOSED $___________

PAYMENT INFORMATION

Credit Card: ☐ American Express ☐ MasterCard ☐ VISA

Credit Number: ________________________________ Exp. Date: ___________

Authorized Signature: _____________________________________________

REGISTRANT CONTACT INFORMATION

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

Last Name: ___________________________ First Name: ___________________________
MI: _______ Credentials: ____________

Badge Name: ___________________________ Preferred Mailing Address: ☐ Home ☐ Office

Institution: ___________________________ Mailing Address: ___________________________

City: ________________________ State/Prov: _______ Postal Code: ____________ Country: ____________

Preferred Phone: ☐ Home ☐ Office ___________________________

Preferred E-mail: ☐ Home ☐ Office ___________________________

EMERGENCY CONTACT INFORMATION

Name: ___________________________ Relationship: ___________________________ Phone: ___________________________
Please indicate the program for which you wish to register (you will select your sessions below):

- Annual Meeting & Postgraduate Course, 4/30-5/4/2019
- Postgraduate Course ONLY, 4/30-5/1/2019
- Annual Meeting ONLY, 5/1-5/4/2019
- Technologist Program ONLY, 5/2-5/3/2019 — If selected, you will be registered in all Technologist Program sessions. In the event that you wish to attend a session during these dates that is not part of the Technologist Program, please select it from the list below.

Please check if you are a/an:

- SPR Member
- Emeritus SPR Member
- ESPR Member
- SLARP Member
- AOSPR Member
- AFSPI Member

Please check if you are a/an:

- Med Student
- Resident
- Fellow
- Nurse
- Technologist
- Physicist
- Active Duty Military
- Other Trainee

(Verification (e.g. letter) required for those listed above.)

Are you a newer faculty member, within 5 years of graduating from fellowship? ❑ Yes ❑ No If not a Pediatric Radiologist, indicate primary area of practice: ________________________________

Will you bring a guest(s) with you? ❑ Yes ❑ No If yes, please their first and last names below.

_________________________________________________________________________________________________________

Do you require the following dietary accommodations? ❑ Kosher ❑ Vegetarian

If this your first SPR meeting? ❑ Yes ❑ No How did you hear about the meeting? ❑ Brochure ❑ Email ❑ SPR Website ❑ Department ❑ Colleague-Friend ❑ Other (please specify) ________________________________

For this event, how would you like to hear from sponsors, vendors and exhibitors?

❑ E-mail ❑ Mail ❑ I prefer not to be contacted

SPR staff and assigned volunteers have been secured to take photos/videos to document and capture events at the 2019 SPR Annual Meeting & Postgraduate Course and may photograph or record parts of the Course and/or Meeting, including, but not limited to, the exhibit hall, educational sessions and social events. An individual attending the 2019 SPR Annual Meeting & Postgraduate Course understands that his or her image, likeness, name, voice and/or words may be captured in photographs or recordings taken during the meeting and grants SPR unrestricted permission to use. SPR has the right, but not the obligation to identify you in connection with such media by name and/or affiliation.

❑ Please check the box to confirm that you have read this statement.

Please check the sessions/events you plan to attend. A list of the full program can be found on the SPR website, [https://www.pedrad.org/Events/SPRMeetings/SPR19](https://www.pedrad.org/Events/SPRMeetings/SPR19).

<table>
<thead>
<tr>
<th>Day</th>
<th>Session/Activity</th>
<th>Fee</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday, April 30</td>
<td>Postgraduate Course Track I: Tricks of the Trade – Imaging Updates</td>
<td>$0</td>
<td>8:00 a.m. - 5:00 p.m.</td>
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<tr>
<td></td>
<td>Postgraduate Course Track II: Emergency Radiology</td>
<td>$0</td>
<td>8:00 a.m. - 5:00 p.m.</td>
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<tr>
<td></td>
<td>jSPR Luncheon</td>
<td>$45</td>
<td>12:00 p.m. - 1:30 p.m.</td>
</tr>
<tr>
<td>Wednesday, May 1</td>
<td>SPR REF Fun Run</td>
<td>$25</td>
<td>5:45 a.m. - 7:00 a.m.</td>
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<tr>
<td></td>
<td>Postgraduate Course Track I: Tricks of the Trade – Imaging Updates</td>
<td>$0</td>
<td>8:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td></td>
<td>Postgraduate Course Track II: Emergency Radiology</td>
<td>$0</td>
<td>8:00 a.m. - 12:00 p.m.</td>
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<tr>
<td></td>
<td>SPR 2019 Welcome Reception</td>
<td>$0</td>
<td>7:15 p.m. - 8:00 p.m.</td>
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<td>*Guest(s) Name:</td>
<td></td>
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<tr>
<td>Thursday, May 2</td>
<td>Technologist Program</td>
<td>$0</td>
<td>8:30 a.m. - 5:45 p.m.</td>
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<tr>
<td>Friday, May 3</td>
<td>Technologist Program</td>
<td>$0</td>
<td>8:30 a.m. - 2:00 p.m.</td>
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<tr>
<td></td>
<td>SPR Business Luncheon (Member Only)</td>
<td>$0</td>
<td>12:00 p.m. - 1:30 p.m.</td>
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<td></td>
<td>Annual Reception &amp; Banquet (Plated Dinner)</td>
<td>$100</td>
<td>7:00 p.m. - 10:30 p.m.</td>
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<td>*Guest(s) Name:</td>
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<tr>
<td>Saturday, May 4</td>
<td>**Cardiac CT Workshop – No CME, Personal Laptop Required</td>
<td>$0</td>
<td>8:00 a.m. - 12:00 p.m.</td>
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<td></td>
<td>**Education Workshop – Personal Laptop Required</td>
<td>$0</td>
<td>8:00 a.m. - 12:00 p.m.</td>
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<td></td>
<td>Hands-on Ultrasound Workshop</td>
<td>$0</td>
<td>8:00 a.m. - 12:00 p.m.</td>
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** Limited space available. Registration Required.