Course Description
This course has been developed to reignite the passions of neuroradiology and musculoskeletal diagnostic and interventional radiologists, and to stir the fire within general radiologists striving to expand their neuro and MSK skills. The symposium brings together nationally and internationally renowned speakers who are experts in the fields of neuroradiology, musculoskeletal radiology, and interventional pain medicine. The course will revalidate some established concepts and imaging parameters but overturn others by presenting new up-to-date information. Through this course the attendees will review normal neuro and MSK anatomy and the imaging of pathophysiologies affecting adults and children. Complex metabolic bone and neuro pathology will be dissected into more easily recognizable patterns. The attendees will be exposed to panel discussions, where imaging of spine and MSK diseases will be presented side by side with treatment options. Neoplastic and inflammatory neuro and MSK processes will be reviewed. Time will be dedicated to currently-pressing topics such as dementia, regenerative medicine, and both the diagnosis and treatment of acute stroke. All imaging modalities, ranging from plain films to nuclear medicine studies, will be included. A two-hour hands-on MSK/US workshop will be an interactive part of the course.

Course Objectives
At the completion of this course, attendees will be able to:
• Identify the complex anatomy of the sella, temporal bone and sinuses and the pathologies affecting them.
• Discuss the various imaging modalities used in the evaluation of trauma, phacomatoses, epilepsy, dementia and stroke. Discuss advances in imaging and therapy as they apply to both disease processes.
• Explain the complex anatomy of head and neck cancers and the intricacies of pre and post-operative imaging.
• Expand the recognition and differential for difficult white matter diseases, CNS infections as well as metabolic brain disorders.
• Describe the anatomy of the musculoskeletal system as it applies to the joints, spine and soft tissues.
• Recognize the imaging findings in musculoskeletal disease that affect the patients function and quality of life.
• Integrate available treatment options into the understanding and reporting of musculoskeletal diseases and pathology. Recognize important findings for the interventionalist.
• Identify the complexities of metabolic bone diseases, tumors and synovial disease and their imaging manifestations.
• Hone US imaging skills of the musculoskeletal system by participating in a hands-on US workshop.

ACCME & AOA Accreditation
The AOCR is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. The AOCR designates this live activity for a maximum of 34.5 AMA PRA Category 1 credits™.

The AOCR is accredited by the American Osteopathic Association (AOA). The AOA has approved this CME Activity for a maximum of 34.5 Category 1-A credits.

Disclosure
It is the policy of the AOCR to comply with the ACCME Standards for commercial support of CME Activities. All faculty participants in AOCR programs are required to disclose to the program audience any real or apparent conflict(s) of interest related to this meeting or its content. Faculty disclosure information is included in the course syllabus information and will be disclosed by faculty as they present.
**Program Schedule**

**Monday, April 8**
- 7:30 am Opening Remarks/AOA Updates
- 8:00 am MRI Shoulder Instability - Laura Bancroft, MD
- 9:00 am Imaging of Pediatric Head Trauma - William O’Brien, DO
- 10:00 am Break
- 10:15 am MRI Shoulder: Rotator Cuff Alphabet - Laura Bancroft, MD
- 11:15 am PET/CT for Head and Neck Cancer - Terence Wong, MD
- 12:15 pm Lunch Provided by AOCR
- 1:15 pm MRI Hip - Laura Bancroft, MD
- 2:15 pm Molecular Imaging for Dementia - Terence Wong, MD
- 3:15 pm Break
- 3:30 pm Knee MRI Part 1 - Christine Chung, MD

**Tuesday, April 9**
- 7:30 am Brain Infections - Patricia Roche, DO
- 8:30 am MRI of Hand and Wrist - Sheri Albers, DO
- 9:30 am General Membership Business Meeting
- 10:00 am Knee MRI Part 2 - Christine Chung, MD
- 11:00 am MRI Imaging of Dementia - Valerie Jewells, DO
- 12:00 pm Lunch Provided by AOCR
- 1:00 pm Synovitis and Arthritis - Christine Chung, MD
- 3:00 pm Break
- 3:15 pm Metabolic Bone Disease - Christine Chung, MD
- 4:15 pm Temporal Bone Imaging - Benjamin Huang, MD

**Wednesday, April 10**
- 7:30 am Head and Neck Cancer Staging Update - Benjamin Huang, MD
- 8:30 am MRI of Pediatric Sports Injuries - John Reeder, MD
- 9:30 am Break
- 9:45 am MRI of the Elbow - John Reeder, MD
- 10:45 am Sinus Imaging - Patricia Roche, DO
- 11:45 am Lunch on Your Own
- 12:45 pm MRI of Osseous Neoplasms - John Reeder, MD
- 1:45 pm Metabolic and Toxic Abnormalities of the CNS - Richard Latchaw, MD
- 2:45 pm MRI of Soft Tissue Neoplasms - John Reeder, MD

**Thursday, April 11**
- 7:30 am Sellar/Parasellar Lesions - Carlos Zamora, MD
- 8:30 am Break
- 8:45 am Panel Discussion: Spine Imaging and Intervention - Aaron Calodney, MD & Richard Latchaw, MD
- 10:45 am Neuroimaging of Major Phakomatoses - Carlos Zamora, MD
- 11:45 am Lunch
- 12:45 pm MSC Exosome Therapies for CNS Injuries and Neurodegenerative Diseases - Douglas Spiel, MD
- 1:45 pm Break
- 2:00 pm Panel Discussion: Upper & Lower Extremity US: Imaging & Regenerative Medicine Intervention - George Chien, DO & Sheri Albers, DO
- 3-5 pm Hands On Ultrasound MSK Workshop - George Chien, DO, Sheri Albers, DO & Douglas Spiel, MD

**Friday, April 12**
- 7:30 am Imaging of Seizure and Epilepsy - Michael Zapadka, DO
- 8:30 am Stroke: Imaging and Treatment in 2019 - Richard Latchaw, MD
- 9:30 am Practical Approach to Hypoxic Ischemic Brain Injury in Children - Michael Zapadka, DO
- 10:30 am Foot and Ankle MRI - Sheri Albers, DO
Faculty

Sheri L. Albers, DO, FAOCR
Co-Program Chair
Radiology Research and Consultation
Sacramento, CA

Valerie L. Jewells, DO, FAOCR, FACR
Co-Program Chair
Clinical Professor, Department of Radiology, Division of Neuroradiology
Associate Professor, Neurology
Director of Quality and Safety, Radiology
University of North Carolina Hospital
Chapel Hill, NC

Laura W. Bancroft, MD, FACR
Chief of Musculoskeletal Radiology
Florida Hospital
Radiology Chair of Education
Adjunct Professor of Radiology
UCF College of Medicine
Orlando, FL
Clinical Professor of Radiology
Florida State University College of Medicine
Tallahassee, FL

Aaron K. Calodney, MD
Anesthesiologist & Interventional Pain Specialist
Precision Spine Care
Tyler, TX

George C. Chang Chien, DO
Director for the Center of Regenerative Medicine
Southern California University
Director of Pain Management
Ventura County Medical Center
Ventura, CA

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La Jolla, CA

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Neuroradiology Program Director
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Chapel Hill, NC

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Department of Radiology
UC Davis Medical Center
Sacramento, CA

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Fellowship Program Director, Pediatric Neuroradiology
Cincinnati Children’s Hospital Medical Center
Associate Professor of Radiology
University of Cincinnati College of Medicine
Cincinnati, OH

John D. Reeder, MD, FACR
Director of Imaging
Proscan Imaging
Columbia, MD

Patricia E. Roche, DO
Head of Neuroradiology Division, Dept. of Radiology
ProHealth Care Associates, LLP
Lake Success, NY

Douglas J. Spiel, MD
Radiologist & Interventional Pain Specialist
Spiel MD
Edison, NJ

Terence Z. Wong, MD, PhD
Chief, Division of Nuclear Medicine
Department of Radiology
Duke Cancer Center
Medical Physics Graduate Program
Duke University Medical Center
Durham, NC

Carlos Zamora, MD, PhD
Assistant Professor, Department of Radiology, Division of Neuroradiology
University of North Carolina Hospital
Chapel Hill, NC

Michael E. Zapadka, DO
Associate Professor, Department of Radiology
Wake Forest School of Medicine
Winston Salem, NC
**Meeting Location & Reservation Information**

The Westin Riverwalk  
420 W Market Street  
San Antonio, TX 78205  
**Reservations:** (210) 224-6500  
**Group Room Rate:** $199

Rooms at the discounted group rate have been reserved for attendees on a first-come, first-serve basis and may sell out before the cut-off date of March 12, 2019. Be sure to identify that you are with the American Osteopathic College of Radiology group to receive the discounted rate. If you have any problems making your reservation or need to cancel a reservation, please contact Mary Lentz at (800) 258-2627.

**Course Registration Information**

<table>
<thead>
<tr>
<th>MEMBER RATES</th>
<th>Early Bird Ends 3/5/19</th>
<th>Regular Ends 4/4/19</th>
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<td>$995</td>
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<td>Retired (Non-Practicing Physician)</td>
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<td>Resident/Fellow</td>
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<tr>
<th>NON-MEMBER RATES</th>
<th>Early Bird Ends 3/5/19</th>
<th>Regular Ends 4/4/19</th>
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<tr>
<td>Physician’s Assistant</td>
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*Interns & Students receive complimentary registration if a letter from the DME is provided*

**CANCELLATION POLICY**

- **30 Days Prior** – Full Refund
- **29-7 Days Prior** – Refund less $100 cancellation fee or transfer to either of the next two (2) AOCR Sponsored CME Activities
- **Less Than 7 Days Prior** – No Refund

**Registrant Contact Information**

<table>
<thead>
<tr>
<th>Name:</th>
<th>Address:</th>
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<tbody>
<tr>
<td>Telephone #:</td>
<td>City:</td>
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<tr>
<td>Email Address:</td>
<td>State:</td>
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<td></td>
<td>Zip:</td>
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**Payment Information**

Make check payable to the AOCR or Credit Card Payment:

- [ ] Visa
- [ ] MasterCard
- [ ] American Express
- [ ] Discover

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<tr>
<th>Card #:</th>
<th>Expiration Date:</th>
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<tbody>
<tr>
<td>Name on Credit Card:</td>
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</tbody>
</table>

Card Billing Address (if different from above):

**Registration Options**

- **Online**  
  [www.aocr.org](http://www.aocr.org)
- **Mail**  
  119 E. 2nd St.  
  Milan, MO 63556
- **Fax**  
  (660) 265-3494
- **Phone**  
  (660) 265-4011

**Program Contact**

Mary Lentz  
(800) 258-AOCR (2627)  
mary@aocr.org
**Things to do in San Antonio**

**The River Walk**
Sightseeing, shopping, food and fun. All on a world-renowned 15-mile urban waterway. The River Walk, or Paseo del Rio, is a San Antonio treasure and the largest urban ecosystem in the nation. Tucked quietly below street level and only steps from the Alamo, it provides a serene and pleasant way to navigate the city. Explore by foot along the river’s walking path or jump aboard a river barge for a ride and guided tour.

**The Alamo**
Centrally located on Alamo Plaza in downtown San Antonio, the Alamo features interactive tours and exhibits and hosts reenactments of the Texas Revolution. Today, visitors are invited to rediscover the gem of Texas history, stroll through the 4.2-acre complex and Alamo Gardens, then head back down to the River Walk for local experiences in dining, shopping and entertainment.

**The Witte Museum**
Nature, science and culture meet at The Witte Museum. Massive exhibits of dinosaurs, People of the Pecos and Texas Wild, and other rotating exhibits fill the recently renovated space with history, storytelling and interactive, family-friendly fun. A catalyst of the Broadway Cultural Corridor, the museum is a San Antonio arts and culture staple with a 300-year history that contributes to the city’s rich cultural legacy.

**Majestic Theatre**
The Majestic Theatre takes center stage as one of the country’s most ornate performing arts facilities. Built in 1929, the Majestic is one of San Antonio’s premier live performing arts spaces and is located in the heart of downtown San Antonio on the iconic and booming Houston Street. A National Historic Landmark, the theater seats 2,264 guests and hosts more than 200 live events a year, including the Broadway in San Antonio series and a wide variety of concerts and performing arts attractions.

**Explore more to do in San Antonio!**

<table>
<thead>
<tr>
<th><strong>Accessing Course Information</strong></th>
<th><strong>How to Obtain CME Credit</strong></th>
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</thead>
<tbody>
<tr>
<td>All course information will be available to attendees using our event app. This may be accessed by downloading the app a mobile device or by web browser and will be available to attendees for six months after the conference. Details on accessing the event app will be emailed to course registrants prior to the course.</td>
<td><strong>Monday, April 8</strong> 7.50 hours</td>
</tr>
<tr>
<td><strong>Hearing Impairment</strong></td>
<td><strong>Tuesday, April 9</strong> 8.00 hours</td>
</tr>
<tr>
<td>Attendees who would like to request reasonable accommodations for hearing impairment assistance are asked to submit their request no later than March 25 so that we may best accommodate your needs and requirements. Onsite requests will be accommodated to the best of our ability; however, available resources may be limited.</td>
<td><strong>Wednesday, April 10</strong> 7.00 hours</td>
</tr>
<tr>
<td>Questions and requests regarding hearing assistance at AOCR CME Conferences should be directed to <a href="mailto:info@aocr.org">info@aocr.org</a> or 660-265-4011.</td>
<td><strong>Thursday, April 11</strong> 8.00 hours</td>
</tr>
<tr>
<td><strong>General Photography Disclaimer</strong></td>
<td><strong>Friday, April 12</strong> 4.00 hours</td>
</tr>
<tr>
<td>By virtue of participation, meeting registrants grant to the American Osteopathic College of Radiology (AOCR), its representatives and employees the right to take photographs of them in connection with the CME Conference. It is agreed that AOCR may use such photographs of registrants with or without the registrant’s name and for any lawful purpose, including (for example) publicity, illustration, advertising and web content.</td>
<td>1. The CME Attestation &amp; Evaluation will be available on the event app. An email will be sent on Friday, April 12, reminding attendees to complete the attestation.</td>
</tr>
<tr>
<td><strong>DO Learners:</strong> AOCR will report your CME credit to the AOA on your behalf no later than Friday, May 10. Print/save a copy of your CME certificate to provide to other appropriate licensing and accrediting bodies.</td>
<td>2. The attestation form will close on Friday, May 3. Please make every effort to complete this process prior to the closing date. Learners that do not complete the attestation form prior to the closing date must email <a href="mailto:info@aocr.org">info@aocr.org</a> for assistance.</td>
</tr>
<tr>
<td><strong>MD Learners:</strong> Print/save a copy of your CME certificate to provide to the appropriate licensing and accrediting bodies.</td>
<td>3. Starting Friday, April 19, all learners who have completed the CME Attestation &amp; Evaluation will receive an email with details on accessing their CME certificate.</td>
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