Create a unique experience customized to your specialization and educational needs. Register today at aaos.org/mymeeting.
Dear Colleagues:

On behalf of the AAOS’ Board of Specialty Societies (BOS), we are excited to host the 32nd annual Specialty Day on Saturday, March 28, 2020 in Orlando. Specialty Day provides a venue for BOS represented orthopaedic specialty societies to present educational programming. A considerable amount of physician volunteer and staff time has been spent assessing the cutting-edge technology and medical advancements in order to provide these high quality educational programs.

Participants of Specialty Day will not only learn about the latest developments in ensuring superior patient care, but they will also exchange information and interact with one another.

We encourage you to thoroughly review this preliminary program to identify the programs you wish to attend. The following organizations have included their preliminary programs, including titles and presenters in the pages that follow.

- American Orthopaedic Foot & Ankle Society
- American Orthopaedic Society for Sports Medicine/Arthroscopy Association of North America
- American Shoulder and Elbow Surgeons
- American Society for Surgery of the Hand/American Association for Hand Surgery
- Federation of Spine Associations
  - American Spinal Injury Association
  - Cervical Spine Research Society
  - North American Spine Society
  - Scoliosis Research Society
- Limb Lengthening and Reconstruction Society
- Musculoskeletal Tumor Society
- Orthopaedic Trauma Association
- The Hip Society/American Association of Hip and Knee Surgeons
- The Knee Society/American Association of Hip and Knee Surgeons

Please note that topics and presentation times are subject to change, so please contact each society for its final program. To ensure Specialty Day meets your needs, please send any comments and suggestions you may have about Specialty Day to BOS@aaos.org.

We look forward to learning with you at the 2020 Specialty Day in Orlando.

Sincerely,

Dirk H. Alander, MD, MHA
Chair, Board of Specialty Societies

---

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All programs will be held at the Orange County Convention Center, West Building.

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- **Federation of Spine Associations**
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- **Limb Lengthening and Reconstruction Society**
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  Room W311A.................................22

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Simple and Secure Online Registration

Visit [aaos.org/mymeeting](http://aaos.org/mymeeting)

**MEMBERS**
Members use your AAOS username and password.

**NON-MEMBERS**
Non-members use your AAOS username and password.

First time non-members request approval to attend at [aaos.org/register](http://aaos.org/register).

**INTERNATIONAL**
International attendees can request an invitation letter to submit during the visa application process at [aaos.org/invite](http://aaos.org/invite).

Contact us:
Email: AAOSMeeting@xpressreg.net
(844)529-3707 – U.S. and Canada
(508)743-8504 – International

**NEW!** Badges Will Not Be Mailed
Attendees must present an electronic or printed copy of their registration confirmation at the check-in counters located in the Orange County Convention Center, West Building, Level 1 and Hall D Lobbies.

**NEW!** Members Only Family Badge and Children at the Meeting
AAOS members receive one complimentary family badge that may be used by a spouse, significant other, or immediate family member (not an active medical professional). You may pre-register a family member during online registration or on-site. All Family Badge recipients must be accompanied by the registered AAOS member and present an ID to receive a family badge.

Family Badge attendees 16 years and older have access to the following:
- Academy Hall
- Industry Exhibits
- Your Academy/Guest Speaker

Family Badge attendees under 16 have access to Academy Hall, providing they are not disruptive to surrounding activities.

Please note: Family Badge attendees will not have access to any educational sessions or events.

Hotel Satellite Check-in is available on Monday and Tuesday at the following hotels:
- Hyatt Regency Orlando Lobby
- Hilton Orlando Lobby

Cancellation Policy
Registration Change or Cancellation Deadline: February 14, 2020
To cancel your registration, selected courses or a track package, please submit your written request to AAOSMeeting@xpressreg.net. After this date, course exchanges or additions will need to be done on-site and are charged the on-site course fee.

Registration Alert!
You may receive phone calls or emails or see websites from groups offering to arrange your registration for the AAOS 2020 Annual Meeting in Orlando, Florida, March 24-28. **Be advised that Convention Data Services (CDS) is the only registration provider authorized to manage meeting registration on behalf of AAOS.**

AAOS does not recommend that you provide any financial or personal information to or conduct business with these unaffiliated groups. If you choose to engage with these groups, you do so at your own risk. AAOS and CDS will be unable to verify the authenticity of these transactions.

If you question the authenticity of an individual, group or website, please contact AAOS at meeting@aaos.org.

Disclaimer
The material presented during the Specialty Day meetings is for educational purposes only. This material is not intended to represent the only, nor necessarily the best methods or procedures appropriate for the medical situations discussed, but rather, are intended to present an approach, view, statement, or opinion of the faculty, which may be helpful to others who face similar situations. The AAOS disclaims any and all liability for injury or other damages resulting to any individual attending a Specialty Day meeting and for all claims which may arise out of the use of the techniques demonstrated therein by such individuals, whether these claims shall be asserted by a physician or any other person.

FDA
All drugs or medical devices used in the United States are administered in accordance with the Food and Drug Administration (FDA) regulations. These regulations vary depending on the risks associated with the drug or medical device, the similarity of the drug or medical device to products already on the market, and the quality and scope of clinical data available.

Some drugs or medical devices demonstrated in Specialty Day meetings or described in related print or electronic publications have FDA clearance for use for specific purposes or for use only in restricted research settings. The FDA has stated that it is the responsibility of the physician to determine the FDA clearance status of each drug or medical device he or she wishes to use in clinical practice, and to use the products with appropriate patient consent and in compliance with applicable law.

Reproduction
No reproductions of any kind, including audiotapes, videotapes, and still photography may be made of presentations at Specialty Day without written pre-approval from the AAOS and the relevant specialty society. We reserve the rights to such materials, and any reproduction without proper authorization is strictly prohibited. Persons violating this policy may have their badge confiscated and be escorted from the meeting. No unapproved surveys, handouts, or literature may be distributed at the meeting.
## SPECIALTY DAY RATES
**Saturday, March 28, 2020**
Plan your education and register now at [aaos.org/mymeeting](http://aaos.org/mymeeting)

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<tr>
<th>American Orthopaedic Foot &amp; Ankle Society (AOFAS)</th>
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<th>American Orthopaedic Society for Sports Medicine/Arthroscopy Association of North America (AOSSM/AANA)</th>
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<td><strong>SELECT ONLY ONE CATEGORY</strong></td>
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<tr>
<td>American Orthopaedic Society for Sports Medicine and Arthroscopy Association of North America present a combined full-day scientific program.</td>
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<th>American Society for Surgery of the Hand/American Association of Hand Surgery (ASSH/AAHKS)</th>
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<th>Federation of Spine Associations (FOSA)</th>
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<td>For an additional $36 you may add a box lunch to your registration which will be delivered to the meeting room. Lunch can be ordered before February 14.</td>
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<td>FOSA Boxed Lunch</td>
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<th>Limb Lengthening and Reconstruction Society (LLRS)</th>
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<th>The Hip Society/The Knee Society/AAHKS</th>
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<td>The Hip Society and The Knee Society, in partnership with AAHKS, present two concurrent full-day scientific programs in adjacent rooms. A single registration allows participation in both programs.</td>
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<td><strong>CODE</strong></td>
<td><strong>MEMBERS</strong></td>
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<tr>
<td>074</td>
<td>The Hip Society Member</td>
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General Information

Description
This meeting is designed to identify areas of recent research in the field of orthopaedic foot and ankle surgery relevant to practicing physicians, surgeons, and allied health professionals. The information will be transmitted through scientific paper presentations, question and answer sessions, surgical technique videos, and symposia presentations.

Statement of Need
A need for this educational activity has been determined based on previous course evaluations, the AOFAS CME curriculum and on current issues and topics provided by AOFAS membership and leadership.

Target Audience
This program should prove valuable to any orthopaedic surgeon, physician, or allied health professional in the field of orthopaedic foot and ankle surgery.

Program
The American Orthopaedic Foot and Ankle Society attests that the people responsible for the development of this educational activity did so independently and were not influenced by commercial supporters.

Educational Objectives
At the conclusion of this meeting, learners should be able to:

• Evaluate current data reflecting clinical trends, emerging surgical techniques, pre- and postoperative procedures, and technological innovations in orthopaedic foot and ankle patient care.
• Identify ways to analyze, manage, and avoid complications of foot and ankle problems.
• Describe and apply strategies to improve patient outcomes.

Accreditation
Continuing Medical Education Credits
The American Orthopaedic Foot & Ankle Society (AOFAS) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The American Orthopaedic Foot & Ankle Society (AOFAS) designates this live activity for a maximum of 7.00 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Disclosure
The AOFAS requires all instructors, planners and other individuals in a position to control or influence the content of an educational activity to disclose all relevant financial relationships or affiliations during the past 12 months with any commercial interest (any entity producing, marketing, re-selling, or distributing health care goods and services consumed by, or used on patients). All identified conflicts of interest must be resolved and the education content vetted by the AOFAS for fair balance, scientific objectivity and appropriateness. The AOFAS also requires faculty to disclose when off-label/unapproved uses of a product are discussed in a CME activity. The AOFAS attests that the persons responsible for the development of this educational activity did so independently and were not influenced by commercial supporters. All financial disclosures will be provided to meeting attendees in the final program materials.

Disclaimer
The material presented in this continuing medical education activity has been made available by the American Orthopaedic Foot & Ankle Society (AOFAS) for educational purposes only. Methods, techniques and procedures demonstrated and views and opinions expressed by speakers, presenters and faculty are on their own, and do not necessarily represent those of the AOFAS nor does presentation on the program represent or constitute endorsement or promotion by the AOFAS. The AOFAS expressly disclaims any warranties or guaranties, expressed or implied, and shall not be liable for damages of any kind in connection with the material, methods, information, techniques, opinions or procedures expressed, presented or demonstrated. AOFAS may photograph or record you as you participate in this meeting and related activities.

Questions
For more information, contact:
AOFAS
9400 W. Higgins Road, Suite 220
Rosemont, IL 60018
Phone 847-698-4654
Email info@aofas.org

Program Committee Leadership
Scott J. Ellis, MD, Program Chair
7:00 am – 7:30 am  Continental Breakfast and Registration

7:25 am – 7:30 am  Welcome
Scott J. Ellis, MD

7:30 am – 8:30 am  Symposium #1: AAOS Meeting Highlights
Moderator: Patrick Ebeling, MD
Panel Includes: Jonathon D. Backus, MD; Kathryn O’Connor, MD; James E. W. Meeker, MD; Emilio Wagner, MD

8:30 am – 9:30 am  Paper Session #1
Moderators: Matthew M. Roberts, MD and Michael Greaser, MD

8:30 am – 8:36 am  The Intra-Articular Hematoma
Immediately after Ankle Fracture Causes Cartilage Damage that is Partially
Attenuated by Anti-Inflammatory Agents
Samuel B. Adams, MD

8:36 am – 8:42 am  Does intramedullary nailing for distal fibular fractures restore anatomic
parameters and syndesmotic relationship?
Natalio R. Cuchacovich Mikenberg, MD; Francisco J. Bravo Gallardo, MD; Esteban
Giannini; Claudia Astudillo, MD; Manuel J. Pellegrini, MD; Gerardo Muñoz, MD;
Rodrigo Melo, MD; Aaron Cortes, PhD; Gonzalo F. Bastías, MD

8:42 am – 8:48 am  Patient Outcomes Differences Following Ankle Fracture Fixation With or Without
Ankle Arthroscopy
Kenneth S. Smith, MD, BA; Katherine D. Drexelius; Shantanu Challa; Daniel K.
Moon, MD, MS, MBA; Joshua A. Metz, MD; Kenneth J. Hunt, MD

8:48 am – 8:54 am  A Prospective, Randomized Investigation of Syndesmosis Injury Fixation
Eric Giza, MD; Todd Oliver; Patrick S. Barousse, MD; Tyler Allen; Trevor Shelton,
MD; Aida Sarcon, MD; Aida K. Sarcon; Ashoke Sathy; Wade Faerber; Johnny L.
Lin, MD; James P. Stannard, MD, BA; Brett Crist; Gregory J. Della Rocca; James Ronan,
BS; Christopher D. Kreulen, MD, MS

8:54 am – 9:00 am  5 Year Follow Up Evaluation Of A Third Generation Fixed Bearing Total Ankle
Arthroplasty With An Intramedullary Tibial
Evan M. Loewy, MD; Robert B. Anderson, MD; Bruce E. Cohen, MD; Carroll P.
Jones, MD; W. Hodges Davis, MD

9:00 am – 9:06 am  Screw versus suture button in treatment of syndesmotic instability: clinical and
radiographic outcomes using PROMIS and weight bearing CT scan
Mohamed Abdelaziz, MD, MSc

9:06 am – 9:30 am  Discussion

9:30 am – 10:30 am  Symposium #2: Measuring Outcomes in Foot and Ankle Surgery
Moderator: Harold B. Kitaoka, MD

9:30 am – 9:36 am  Measuring Expectations in Foot and Ankle Surgery
Elizabeth Cody, MD

9:36 am – 9:42 am  Assessing Satisfaction in Foot and Ankle Surgery
Alastair S. E. Younger, MD, ChB, ChM, FRCS

9:42 am – 9:48 am  Using Legacy Scores: Is There Still a Role and What Scores Should We Use
Vinod K. Panchbhavi, MD, FACS

9:48 am – 9:54 am  The PROMIS Outcomes Scores: Is this the gold standard for the AOFAS?
Judith F. Baumhauer, MD, MS, MPH

9:54 am – 10:00 am  Foot and Ankle Registries: What have we learned and where do we go from here?
Kenneth J. Hunt, MD

10:00 am – 10:30 am  Discussion

10:30 am – 10:55 am  Presidential Address, AOFAS and OFAF Updates
William C. McGarvey, MD

10:00 am – 10:45 am  Presidential Address and AOFAS Update
William C. McGarvey, MD

10:46 am – 10:55 am  Foundation Update
Scott J. Ellis, MD

10:55 am – 11:05 am  Break

11:05 am – 12:05 pm  Paper Session #2
Moderators: Sheldon S. Lin, MD and Casey Humbyrd, MD

11:05 am – 11:11 am  Change in the C1-M2 Distance after Simulated Purely Ligamentous Lisfranc Injury as Evaluated by Weightbearing CT Scans: A Match-Paired Cadaveric Study
Yantaratr Sripanich, MD; Maxwell Weinberg, BSc; Chammanni Rungprai, MD; Charles L. Saltzman, MD; Alexej Barg, MD

11:11 am – 11:17 am  Influence of First Metatarsophalangeal Joint Degenerative Changes on Functional Outcomes Following Hallux Valgus Correction
Ryan G. Rogero, BS; Andrew Fischer; Daniel Corr; Joseph T. O’Neil, MD; Daniel J. Fuchs, MD; Steven M. Raikin, MD

11:17 am – 11:23 am  Virtual Scribe Services Decrease Documentation Burden Without Affecting Patient Satisfaction: A Randomized Controlled Trial
Savannah Benko, Alex Idarraga, Daniel D. Bohl, MD, MPH; Kamran S. Hamid, MD, MPH

11:23 am – 11:29 am  Radiographic Outcomes and Recurrence Following 126 Primary Lapidus Surgeries For Hallux Valgus
Sara H. Galli, MD; Nicholas Johnson, MD; W. Hodges Davis, MD; Robert B.
Anderson, MD; Carroll P. Jones, MD; Bruce E. Cohen, MD
Does Postoperative Gabapentin Administration Reduce Opioid Consumption after Foot and Ankle Surgery?
Haley McKissack, Jun Kit He; Sameer Naranje; Joshua L. Washington; Romil K. Patel; Jessyca Ray; Gerald McGwin; Michael D. Johnson, MD; Ashish Shah, MD

Cheilectomy With or Without Cryopreserved Amniotic Membrane-Umbilical Cord Allograft For Hallux Rigidus: A Prospective Randomized Controlled Trial
Sara H. Galli, MD; Chad M. Ferguson, MD; W. Hodges David, MD; Robert B. Anderson, MD; Bruce E. Cohen, MD; Carroll P. Jones, MD; Susan M. Odum, PhD; J. Kent Ellington, MD, MS

Discussion

Lunch and AOFAS Business Meeting

Symposium #3: Why My Way of Fixing the Bunion is the Best

Moderator: Amiethab A. Aiyer, MD

Lapidus
James R. Holmes, MD

Proximal Opening Wedge
Glenn B. Pheffer, MD

Proximal Rotational Osteotomy
Emilio Wagner, MD

SCARF
Peter Bock, MD

Ludloff
Steven K. Neufeld, MD

Distal Minimally Invasive.
Holly Johnson, MD

Discussion

Paper Session #3

Moderators: Taggart Gauvain, MD and Sandra E. Klein, MD

Weightbearing CT and MRI findings of Stage II Adult Acquired Flatfoot Deformity: Can We Predict Patients at High-Risk for Foot Collapse?
Cesar de Cesar Netto, MD, PhD; Guilherme H. Saito, MD; Carolyn M. Sofka, MD, FACR; Harry G. Greditzer, MD; Jonathan T. Deland, MD

Outcomes and Complications of Open Versus Posterior Arthroscopic Subtalar Arthrodesis: A Prospective Randomized Multicenter Study
Chamnanni Rungprai, MD; Yantarat Sripanich, MD; Aekachai Jaroenarpornwatana

The Effect of CAM Boots on Contact Pressures of the Ankle and Hindfoot Joints
Niall A. Smyth, MD; Pooyan Abbasi; Cesar de Cesar Netto, MD, PhD; Stuart Michnick, MD; Nicholas Casscells, MD; Brent Parks, MSc; Lew Schon, MD

Subtal Arthrodesis for Correction of Forefoot Abduction in Stage II Adult Acquired Flatfoot Deformity
James P. Davies, MD; Scott J. Ellis, MD; Martin J. O’Malley, MD; Mark C. Drakos, MD; Jonathan T. Deland, MD; Jonathan H. Garfinkel, MD; Matthew M. Roberts, MD

Radiographic Outcomes after Flexible Flatfoot Reconstruction with and without Spring Ligament Reconstruction
Jessica M. Kohring, MD; Ashlee MacDonald, MD; Steven Karnisky, MD; Irvin Oh, MD; Judith F. Baumhauer, MD, MS, MPH; John P. Ketz, MD; Adolph S. Flemister, MD

Hindfoot alignment after total ankle replacement
Christopher E. Gross, MD; Federico Guiseppe Usuelli, MD; Christian Indino, MD

Zimmer Biomet Trabecular Metal™
Lew Schon, MD

Cadence® Total Ankle System
David I. Pedowitz, MD, MS

INFINITY™ Total Ankle System
W. Hodges Davis, MD

Vantage® Total Ankle System
Mark Easley, MD

STAR™ Ankle
David B. Thordarson, MD

Salto Talaris® Ankle
Mark P. Slovenkai, MD

Discussion

Adjourn
General Information

Description
Despite continuous advances, musculoskeletal disorders and injuries are on the rise. While some areas require further research to improve outcomes, other areas have established best-practice patterns, but struggle with implementation. Orthopaedic Surgeons are a critical part of the team leading the way to address these issues.

Education is key to improvements in musculoskeletal care. The AOSSM/AANA Specialty Day 2020 program will feature didactic presentations that provide opportunities to share important research findings and serve as a review of core musculoskeletal topics, highlighting the latest advances and reinforce time-tested tools aimed at preventing and addressing musculoskeletal care while providing face-to-face networking opportunities.

Statement of Need
The need for this activity has been determined based on a comprehensive analysis of existing practice gaps in sports medicine and arthroscopic surgery. This includes review of data from sources including but not limited to member educational need surveys, self-assessment results from multiple self-assessment educational offerings, literature reviews, expert-physician input, and intra-course observational evaluation from prior courses.

Target Audience
This program is designed for Orthopaedic Surgeons, physicians, and allied health professionals in the field of sports medicine or related fields of practice and who may desire to improve their arthroscopic knowledge, competence, performance, and patient outcomes.

Program
The American Orthopaedic Society for Sports Medicine (AOSSM) and the Arthroscopy Association of North America (AANA) attest that the people responsible for the development of this educational activity did so independently and were not influenced by commercial supporters.

Educational Objectives
Upon completion of this educational activity, learners should be able to:

- Implement an effective evaluation algorithm, based on recent research, for musculoskeletal and medical sports medicine conditions through an arthroscopic surgery lens.
- Assess and apply surgical and non-surgical treatment recommendations and rehabilitation protocols for the diagnosis and clinical management of joint disorders in athletes.
- Review and implement new minimally invasive techniques for the management of shoulder, knee, and hip pathology.

Accreditation
Continuing Medical Education Credits
The Arthroscopy Association of North America (AANA) is accredited by the Accreditation Council for Continuing Education (ACCME) to provide continuing medical education for physicians.

AANA designates this live activity for a maximum of 8.50 AMA PRA Category 1 Credits™.

Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Disclosure
It is the mission of AANA as a provider accredited by ACCME to provide independent, fair, balanced, bias-free, peer-reviewed continuing medical education to its learners. In accordance with the ACCME Standards for Commercial Support™ (SCS 2.3) AANA requires that all individuals in the position to control AANA educational content must disclose to AANA and the activity audience all relevant financial relationships. An individual has a relevant financial relationship if he/she (or spouse/partner) has a financial relationship in any dollar amount that has occurred during the previous 12 months with a commercial interest whose products and services are discussed in the CME activity content over which the individual has control. A commercial interest is defined as any entity producing, marketing, re-selling, or distributing health care goods or services consumer by, or used on, patients. The SCS 2.3 requires accredited CME providers to resolve all identified potential conflicts of interest with any individual in a position to influence and/or control the content of CME activities prior to the education activity being delivered to learners. AANA has implemented mechanisms to identify and resolve conflicts of interest for all individuals in a position to control the content. All disclosures will be communicated to program participants prior to the activity via second slide, web-program and mobile app. In addition, all participants involved in discussions are required to disclose commercial interests prior to engaging in discussions. Speakers identified as violating the AANA Disclosure policy may not be invited to participate in future educational programs.

Disclaimer
The material presented in this continuing medical education program is being made available by AOSSM and AANA for educational purposes only. The methods, techniques and procedures demonstrated, and views and opinions expressed by all activity speakers are their own and do not necessarily represent those of AOSSM or AANA, nor does presentation on the program represent or constitute endorsement or promotion by AOSSM or AANA. AOSSM/AANA expressly disclaim any warranties or guarantees, expressed or implied, and shall not be liable for damages of any kind in connection with the material, methods, information, techniques, opinions or procedures expressed, presented or demonstrated. This material is not intended to represent the only methods or procedures appropriate for the medical situation discussed, but rather it is intended to present an approach, view, statement, or opinion of the faculty which may be helpful to others who face similar situations. Neither the content (whether written or oral) of any course, seminar, or other presentation in the program, nor the use of specific product in conjunction therewith, nor the exhibition of any materials by any parties coincident with the program should be construed as indicating endorsement or approval of the views presented, the products used, or the materials exhibited by AOSSM or AANA or their Committees, Commissions or Affiliates. AOSSM/AANA make no statements, representations, or warranties (whether written or oral) regarding the Food and Drug Administration (FDA) status of any product used or referred to in conjunction with any course, seminar, or other presentation being made available as part of this course. Faculty members shall have sole responsibility to inform attendees of the FDA status of each product that is used in conjunction with any course, seminar, or presentation and whether such use of the product is in compliance with FDA regulations.

Program Committee Leadership
James M. Bradley, MD, AOSSM President
Larry D. Field, MD, AANA President
Lee D. Kaplan, MD, AOSSM Program Chair
Kevin F. Bonner, MD, AANA Program Chair
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<tr>
<th>Time</th>
<th>Session/Panel</th>
<th>Moderators/Panelists</th>
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| 7:00 am – 7:05 am | Welcome                                                                       | Lee D. Kaplan, MD, AOSSM
Program Chair: Kevin F. Bonner, MD, AANA |
| 7:05 am – 8:20 am | **Session I: Shoulder Instability/Labrum**                                    | **Moderators:** Mary Lloyd Ireland, MD and Brian R. Waterman, MD
Paper #1 7:05 am – 7:10 am | Revision Arthroscopic Bankart Repair in the Military | Jonathan F. Dickens, MD |
Paper #2 7:10 am – 7:15 am | Surgical Outcomes in the Frequency, Etiology, Direction, Severity (feds) Classification System for Shoulder Instability | Carolyn M. Hettrich, MD |
7:15 am – 7:20 am | Questions and Answers                                                          |
7:20 am – 7:26 am | My Pearls to Successful Arthroscopic Shoulder Stabilization                  | Claude T. Moorman, MD |
7:26 am – 7:32 am | My Tricks to a Reproducible Safe Laterjet                                     | Matthew T. Provencher, MD |
7:32 am – 7:33 am | **Debate: 22-Year-Old Recreational Male Athlete Sustains 4th Anterior Dislocation:** 15% Glenoid Bone Loss / Hill-Sachs Lesion | **Moderator:** Paul E. Caldwell, MD |
7:33 am – 7:39 am | Arthroscopic Stabilization with Remplissage: Listen Why                      | John D. Kelly, IV, MD |
7:39 am – 7:45 am | Laterjet: No Second Thoughts                                                   | Anthony A. Romeo, MD |
Paper #3 7:45 am – 7:50 am | Risk Factors for Revision Posterior Shoulder Stabilization in Throwing Athletes | Ravi S. Vaswani, MD |
7:50 am – 7:56 am | Return to Sport Following Shoulder Stabilization: As Good as We Think?        | Scott A. Rodeo, MD |
7:56 am – 8:05 am | Questions and Answers                                                          |
8:05 am – 8:20 am | **Shoulder Instability Case Panel: Rapid Fire – What Would You Do?**          | **Moderator:** William N. Levine, MD
**Panelists:** Anthony A. Romeo, MD, Claude T. Moorman, MD, Paul E. Caldwell, MD, Matthew T. Provencher, MD, John D. Kelly, IV, MD, Scott A. Rodeo, MD |
8:20 am – 8:59 am | **Session II: Shoulder Biceps/Scapula/AC Joint**                               | **Moderators:** Dean C. Taylor, MD and Joseph C. Tauro, MD |
8:20 am – 8:26 am | Evaluation and Approach to the Thrower’s Shoulder                            | Neal S. ElAttrache, MD |
8:26 am – 8:32 am | SLAP Repair vs. Tenodesis – How to Make the Right Call?                       | John E. Conway, MD |
8:32 am – 8:37 am | Radiostereometric Analysis of Biceps Tenodesis: A Comparison of Techniques    | Adam B. Yanke, MD, PhD |
8:37 am – 8:43 am | Biceps Tenodesis: How I Do This and Why?                                       | Alan S. Curtis, MD |
8:43 am – 8:49 am | The Unstable AC Joint – Fixing and Avoiding Complications                    | Stephen F. Brockmeier, MD |
8:49 am – 8:59 am | Questions and Answers                                                          |
8:59 am – 9:40 am | **Session III: Shoulder**                                                      | **Moderators:** Mark H. Getelman, MD and Richard K.N. Ryu, MD |
8:59 am – 9:05 am | My Five Arthroscopic Cuff Repair Tips to Make Your Life Simple                | Peter J. Millet, MD, MSc |
9:05 am – 9:06 am | SCR Debate: 52-Year-Old Male with a Massive Cuff Tear                          | **Moderator:** Richard K.N. Ryu, MD |
9:06 am – 9:12 am | Jury Still Out: Fix What You Can and Avoid an SCR                             | Felix H. Savoie, III, MD |
9:12 am – 9:18 am | Results Justify: Why I’m Doing a SRC                                           | John M. Tokish, MD |
9:18 am – 9:23 am | Clinical and MRI Outcomes After Arthroscopic Superior Capsule Reconstruction with Human Dermal Allograft for Irreparable Posterosuperior Rotator Cuff Tears a Minimum Two-Year Follow-up | Lucca Lacheta, MD |
9:30 am – 9:40 am | Questions and Answers                                                          |
9:40 am – 9:55 am | Break                                                                          |
9:55 am – 10:18 am | **AOSSM Kennedy Lecture**                                                      | **Introduction:** James P. Bradley, MD |
10:18 am – 11:39 am | **Session IV: Knee and Sports**                                                | **Kennedy Lecture:** Champ L. Baker Jr, MD |
10:18 am – 10:23 am | Does Intra-operative Prep Improve Patient Function & Complication Rates Following ACL Reconstruction with Meniscus Repair? | Matthew D. Weldon, MD |
10:23 am – 10:28 am  The Effect of Playing Surface on Anterior Cruciate Ligament Injury in NCAA Soccer  
Mark C. Howard, MD

10:28 am – 10:33 am  Revision Risk of Soft-tissue Allograft vs. Hybrid Graft Following Anterior Cruciate Ligament Reconstruction  
Anthony Essilfie, MD

10:33 am – 10:38 am  Questions and Answers

10:38 am – 10:39 am  Debate: Graft Selection in the Athlete  
Julie A. Dodds, MD and Rick W. Wright, MD

10:39 am – 10:45 am  No Brainer: Use the Patellar Tendon!  
Kurt P. Spindler, MD

10:45 am – 10:51 am  Quadriceps Tendon for Everyone  
John W. Xerogeanes, MD

10:51 am – 10:57 am  Not So Fast: Matching the Autograft to the Athlete – Choose Wisely  
Freddie H. Fu, MD

10:57 am – 11:03 am  Avoiding Contemporary ACL Technical Mistakes  
Aaron J. Krych, MD

11:03 am – 11:09 am  MCL Injuries: Surgical Indications and Timing  
Darren L. Johnson, MD

11:09 am – 11:15 am  ACL Augmentation: ALL or ITB Tenodesis – When and How?  
Alan M.J. Getgood, MD

11:15 am – 11:21 am  Athlete Clearance for RTS Following ACL Surgery: My Current Real-Life Answer  
E. Lyle Cain, Jr., MD

11:21 am – 11:29 am  Revision ACL Surgery: Technical Considerations for Success  
Mark D. Miller, MD

11:29 am – 11:39 am  Questions and Answers

11:39 am – 12:02 pm  AANA Innovations Lecture

11:39 am – 11:42 am  Introduction  
Larry D. Field, MD

11:42 am – 12:02 pm  AANA Innovations Lecture  
Stephen S. Burkhart, MD

12:02 pm – 12:17 pm  Lunch

12:17 pm – 2:02 pm  Session V: Knee Cartilage, Meniscus and Biologics

12:20 pm – 12:22 pm  Clinical Efficacy of Intra-articular Mesenchymal Stem Cells for the Treatment of Knee Osteoarthritis: A Double Blinded, Prospective, Randomized, Controlled Clinical Trial  
Bradford S. Tucker, MD

12:22 pm – 12:24 pm  Questions and Answers

12:24 pm – 12:30 pm  Root Tears: How to and Who to Fix in 2019?  
Nicholas A. Sgaglione, MD

12:30 pm – 12:36 pm  Decision-Making: All-Inside vs. Inside-Out Meniscus Repair?  
Michael J. Stuart, MD

12:36 pm – 12:42 pm  Debate: 2 cm MFC Defect in a 21-Year-Old College Athlete  
Louis F. McIntyre, MD

12:42 pm – 12:48 pm  Marrow Stimulation: Evidence Supports Popularity  
Jason L. Koh, MD

12:48 pm – 12:54 pm  Surface Cartilage Treatments are the Way to Go  
Craig H. Bennett, MD

12:54 pm – 1:00 pm  Osteochondral Grafts are Most Reliable  
Riley J. Williams, III, MD

1:00 pm – 1:06 pm  Chondral Defects: My Decision-Making has Evolved Over Time  
Bert R. Mandelbaum, MD

1:06 pm – 1:12 pm  Osteochondral Allografts: Technical Pearls You May Not Know  
William D. Bugbee, MD

1:12 pm – 1:18 pm  Biologics for the Knee: My Evidence-based Indications  
Andreas H. Gomoll, MD

1:18 pm – 1:38 pm  Meniscus/Cartilage Case Panel – What Would You Do?  
Moderators: Kevin D. Plancher, MD and David R. Diduch, MD  
Panel: Jason L. Koh, MD, Andreas H. Gomoll, MD, Riley J. Williams, III, MD, William D. Bugbee, MD, Bert R. Mandelbaum, MD, Nicholas A. Sgaglione, MD, Michael J. Stuart, MD, Craig H. Bennett, MD, Jason L. Dragoo, MD, Louis F. McIntyre, MD

1:38 pm – 1:46 pm  MRI (Mis) Interpretation When to Worry, When to Chill?  
Hollis G. Potter, MD

1:46 pm – 1:52 pm  Quick Sideline Decisions: What You Need to Know to Stay out of Trouble  
Eric C. McCarty, MD

1:52 pm – 2:02 pm  Questions and Answers

2:02 pm – 2:12 pm  Break

2:12 pm – 3:28 pm  Session VI: Contemporary Controversies: Give Us Answers

2:12 pm – 2:17 pm  Return to Sport Following Stabilization Surgery for Recurrent Patellar Instability in Patients Undergoing Isolated MPFL Reconstruction vs. Combined MPFL Reconstruction and Tibial Tubercle Osteotomy  
Stephanie J. Swensen-Buza, MD

2:17 pm – 2:20 pm  Session VI: Contemporary Controversies: Give Us Answers  
Moderators: William R. Beach, MD and Elizabeth Arendt, MD

Paper #10
2:12 pm – 2:17 pm  Return to Sport Following Stabilization Surgery for Recurrent Patellar Instability in Patients Undergoing Isolated MPFL Reconstruction vs. Combined MPFL Reconstruction and Tibial Tubercle Osteotomy  
Stephanie J. Swensen-Buza, MD
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| 2:17 pm – 2:23 pm | Paper #11 | Outcomes and Reoperation Rates After Tibial Tubercle Transfer and Medial Patellofemoral Ligament Reconstruction  
Jacob Gorbaty, MD |
| 2:23 pm – 2:28 pm | Questions and Answers |                                                                   |
| 2:28 pm – 2:34 pm | Paper #11 | Debate: Patella Instability with Maltracking, Dysplasia and Alta  
William R. Beach, MD |
| 2:34 pm – 2:40 pm | Paper #11 | MPFL Only – TTO Not Worth Morbidity  
Michael G. Baraga, MD |
| 2:40 pm – 2:46 pm | Paper #11 | TTO + MPFL: Worth It!  
Andrew J. Cosgarea, MD |
| 2:46 pm – 2:54 pm | Questions and Answers |                                                                   |
| 2:54 pm – 3:00 pm | Paper #11 | Decision-Making and Treatment of Partial UCL Tears  
Steven B. Cohen, MD |

**3:00 pm – 3:01 pm**

**Debate: UCL Repair in Elbow**  
*Moderator: James R. Andrews, MD*

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| 3:01 pm – 3:07 pm | Paper #12 | It Works and Worth a Try!  
Jeffrey R. Dugas, MD |
| 3:07 pm – 3:13 pm | Paper #12 | Not Doing it – Here’s Why  
Michael G. Ciccotti, MD |

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<tr>
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| 3:13 pm – 3:18 pm | Paper #12 | The Ulnar Collateral Ligament Responds to Stress in Professional Pitchers  
Peter N. Chalmers, MD |
| 3:18 pm – 3:28 pm | Questions and Answers |                                                                   |

**3:28 pm – 4:15 pm**

**Session VII: Hip**  
*Moderators: Bryan T. Kelly, MD and Allston J. Stubbs, IV, MD, MBA*

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Lionel E. Lazaro, MD |
| 3:33 pm – 3:35 pm | Questions and Answers |                                                                   |
| 3:35 pm – 3:41 pm | Paper #13 | Mid-term Outcomes with FAIS: What Have We Learned Over the Past Decade  
J.W. Thomas Byrd, MD |
| 3:41 pm – 3:47 pm | Questions and Answers |                                                                   |
| 3:47 pm – 3:53 pm | Paper #13 | Five Tips to Make Your Labral Repair Easier  
Marc R. Safran, MD |
| 3:53 pm – 3:59 pm | Paper #13 | Indications for Labral Reconstructions: What is the Evidence?  
Marc J. Philippon, MD |
| 3:59 pm – 4:05 pm | Paper #13 | Endoscopic Gluteus Medius/Minimus Repair: My Decision Making for Scope vs. Open  
Shane J. Nho, MD |
| 4:05 pm – 4:15 pm | Questions and Answers |                                                                   |
| 4:15 pm | | Adjourn – See you in March 2021! |
General Information

Educational Objectives
• Review basic science and orthopaedic problems relative to the shoulder and elbow.
• Examine the indications, techniques, and results of various surgical procedures.
• Describe the management of common orthopaedic problems relative to the shoulder and elbow.
• Permit expert panelists to put into perspective new technologies.

Questions
American Shoulder and Elbow Surgeons
9400 W. Higgins Road, Suite 500
Rosemont, IL 60018
Phone: 847/698-1629 | Fax: 847/268-9499
Email: ases@aaos.org

Accreditation
This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Academy of Orthopaedic Surgeons and the American Shoulder and Elbow Surgeons. The American Academy of Orthopaedic Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

Credit Hours
The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of 4.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Disclaimer
The material presented at the 2020 Specialty Day Meeting has been made available by the American Shoulder and Elbow Surgeons for educational purposes only. This material is not intended to represent the only, nor necessarily best, method or procedure appropriate for the medical situations discussed, but rather is intended to present an approach, view, statement or opinion of the faculty, which may be helpful to others who face similar situations.

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Program Committee Leadership
Frank A. Cordasco, MD, MS, President, 2018-2019
Heinz R. Hoenecke, MD, Program Co-Chair
Brett D. Owens, MD, Program Co-Chair
### Paper #3
9:03 am – 9:08 am  Midterm (>= 5 Year) Outcomes for Biologic Resurfacing of the Glenoid Are Satisfactory for Patients Aged <= 60 Years with Glenohumeral Osteoarthritis
*Armarios M. Hatzidakis, MD*

### Paper #4
9:45 am – 9:50 am  Arthroscopic Superior Capsule Reconstruction: Comparison of Clinical Outcome with and Without Subscapularis Tear
*Teruhisa Mihata, MD, PhD*

### Paper #5
9:51 am – 9:56 am  Mid-Term Outcomes of Arthroscopic Rotator Cuff Repair in Patients Age 75 and Older
*Surena Namdari, MD, MSc*

### Paper #6
10:30 am – 10:35 am  Magnetic Resonance Imaging Findings of the Asymptomatic Shoulder Predict Injuries and Surgery in Major League Baseball Pitchers
*Nikhil N. Verma, MD*

### Paper #7
10:36 am – 10:41 am  Osteochondral Autograft Transportation vs Arthroscopic Fragment Resection for Large Capitellar Osteochondritis Dissecans in Adolescent Athletes – a Minimum of 5-Year Follow-Up
*Yusuke Ueda, MD*

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| 10:42 am – 10:52 am | The Type 2 SLAP Tear – Ought We Treat Our 18-Year-Old like the 35-Year-Old Professional?  
*John E. Conway, MD*
| 10:53 am – 11:03 am | UCL Surgery in 2020  
*TBD*
| 11:04 am – 11:29 am | Everything You Need to Learn about Throwing Injuries in a Single Major League Career  
*TBD*
| 11:30 am – 11:45 am | NEER AWARD PRESENTATION  
*Frank A. Cordasco, MD, MS, President, 2018-2019*
| 11:50 am – 12:15 pm | Symposium III: The Throwing Athlete  
*Moderators: John E. Conway, MD, and W. Benjamin Kibler, MD*
| 12:45 pm – 12:50 pm | Symposium IV: Shoulder Arthroplasty  
*Moderators: James D. Kelly II, MD, and Joseph P. Iannotti, MD, PhD*
| 12:51 pm – 12:56 pm | Three-Dimensional Computed Tomography Analysis of Glenoid Component Shift and Osteolysis Following Total Shoulder Arthroplasty  
*Eric T. Ricchetti, MD*
| 12:57 pm – 1:02 pm | Panel Discussion and Questions  
*Preoperative Templating: Is There a Gold Standard?  
*Joseph P. Iannotti, MD, PhD*
| 1:03 pm – 1:08 pm | Case-Based Discussion IV: Arthroplasty Decision Making for a B2 Glenoid  
*Revision with Distal Clavicle Autograft  
*James D. Kelly II, MD*
| 1:09 pm – 1:11 pm | Case Presentation  
*Charles M. Jobin, MD*
| 1:12 pm – 1:15 pm | 3D Planning Solution #1  
*E. Rhettson Hobgood, MD*
| 1:16 pm – 1:19 pm | 3D Planning Solution #2  
*Eric T. Ricchetti, MD*
| 1:20 pm – 1:23 pm | 3D Planning Solution #3  
*John M. Itamura, MD*
| 1:23 pm – 1:26 pm | Panel Discussion and Questions  
*Revision Using a Custom Glenoid Implant  
*J. Itamura, MD*
| 1:27 pm – 1:32 pm | Case-Based Discussion V: Arthroplasty for Severe Glenoid Deficiency  
*Revision with Distal Clavicle Autograft  
*James D. Kelly II, MD*
| 1:33 pm – 1:38 pm | Panel Discussion and Questions  
*Revision Using a Custom Glenoid Implant  
*John M. Itamura, MD*
| 1:39 pm – 1:49 pm | Break  
*John M. Itamura, MD*
**American Shoulder and Elbow Surgeons**

To support the ethical practice of evidence-based, high quality, cost-effective, shoulder and elbow care

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**Combined Specialty Day Meeting**

**American Shoulder and Elbow Surgeons / Orthopaedic Trauma Association**

**Accreditation:**
This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME). The Orthopaedic Trauma Association (OTA) is accredited by the ACCME to provide continuing medical education for physicians. The OTA designates this live activity for a maximum of 2.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### 2:00 pm – 2:41 pm

**Symposium V: Recent Developments in Elbow Fracture Treatment**

- **Moderators:** Michael J. Gardner, MD, and TBD

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<td>2:00 pm – 2:05 pm</td>
<td>Terrible Triad</td>
<td>David C. Ring, MD, PhD</td>
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<td>2:06 pm – 2:11 pm</td>
<td>Olecranon Fractures</td>
<td>Andrew D. Duckworth, FRCS</td>
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<tr>
<td>2:12 pm – 2:17 pm</td>
<td>Radial Head – Fix or Replace?</td>
<td>Graham J.W. King, MD, FRCS(C)</td>
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<td>2:18 pm – 2:23 pm</td>
<td>Total Elbow Arthroplasty for Fractures</td>
<td>Matthew L. Ramsey, MD</td>
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<td>2:24 pm – 2:41 pm</td>
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### 2:42 pm – 3:24 pm

**Symposium VI: Glenohumeral Fracture/Dislocation**

- **Moderators:** Stephen F. Brockmeier, MD, and Heather A. Vallier, MD

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<td>2:42 pm – 2:47 pm</td>
<td>Bony Bankart – How This Impacts Decision Making</td>
<td>TBD</td>
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<td>2:48 pm – 2:53 pm</td>
<td>Displaced Greater Tuberosity Fracture in Middle-Aged Patient</td>
<td>Dominique Rouleau, MD</td>
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<td>2:54 pm – 2:59 pm</td>
<td>Reduction of Fracture Dislocation</td>
<td>Niloofar Dehghan, MD, FRCS(C)</td>
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<td>3:00 pm – 3:05 pm</td>
<td>Delayed Treatment of the Missed Fracture Dislocation</td>
<td>TBD</td>
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<td>3:06 pm – 3:24 pm</td>
<td>Panel Discussion and Questions</td>
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### 3:25 pm – 4:11 pm

**Symposium VII: Proximal Humerus Fracture**

- **Moderators:** E. Scott Paxton, MD, and Utku Kandemir, MD

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<td>Deltopectoral Versus Split</td>
<td>Michael J. Gardner, MD</td>
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<td>3:31 pm – 3:36 pm</td>
<td>Indications for Arthroplasty</td>
<td>Xavier A. Duralde, MD</td>
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<td>3:37 pm – 3:42 pm</td>
<td>Revision Fixation</td>
<td>Jonah Hebert-Davies, MD</td>
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<td>3:43 pm – 3:53 pm</td>
<td>Reverse Arthroplasty for the Traumatologist (Video Technique Spotlight)</td>
<td>Joaquin Sanchez-Sotelo, MD, PhD</td>
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<tr>
<td>3:54 pm – 4:11 pm</td>
<td>Panel Discussion and Questions</td>
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### 4:12 pm – 4:45 pm

**Symposium VIII: Middle Third Fracture in 15-Year-Old**

- **Moderators:** Joshua S. Dines, MD, and Samir Mehta, MD

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<td>4:12 pm – 4:17 pm</td>
<td>Sling It</td>
<td>Benton E. Heyworth, MD</td>
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<td>4:18 pm – 4:23 pm</td>
<td>Plate It</td>
<td>Kyle J. Jeray, MD</td>
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<tr>
<td>4:24 pm – 4:29 pm</td>
<td>Nail It</td>
<td>TBD</td>
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<tr>
<td>4:30 pm – 4:45 pm</td>
<td>Panel Discussion and Questions</td>
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<td>4:45 pm</td>
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<td>Meeting Adjourns</td>
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Saturday, March 28, 2020
Orange County Convention Center
Valencia Ballroom D
2:00 pm – 4:45 pm
Saturday, March 28, 2020
Orange County Convention Center
Room W311E
7:30 am – 5:15 pm

American Society for Surgery of
the Hand/American Association for
Hand Surgery

General Information

Description
This ASSH/AAHS Hand Surgery Specialty Day Program is focused on Controversies and Challenges that are encountered in hand surgical practice. The morning portion of the program is aimed at “What’s New and What’s Next” in hand surgery, with cutting edge topics and specific debatable issues in mini symposia sessions on scaphoid fractures and nonunions, evaluation and treatment of ulnar sided wrist pain, updates in nerve pathology, elbow injuries and carpal instability. Experienced faculty will present case-based scenarios, and engage in lively discussion and debate with point and counter point style presentations; audience participation and questions are encouraged.

In the afternoon session, expert faculty will share “What you Need to Know NOW about Common Hand Conditions”. This session is ideal for the residents, fellows, advanced practice providers, and general orthopedists, but is also of interest and applicable to the practice of experienced and expert hand surgeons. An emphasis on common conditions encountered in hand surgical practice with a specific focus on “what the books don’t tell you” about how to manage specific challenges and complications will be provided. Practice enhancement and optimization as well as experienced words of wisdom from seasoned surgeons will round out the program. This program is essential for residents, fellows and new practitioners, but seasoned surgeons will also find pearls for their practices!

Target Audience
This section of the program is ideal for residents and fellows or the surgeon who wants to know the most important information about common conditions that you will see in your training, in your clinic and in your OR. This parallels the ASSH Resident Review Course but with an emphasis on “what the books don’t tell you” and how to manage specific challenges you may see. This program is essential for the resident or fellow or new practitioner, but seasoned surgeons will also find pearls that will be useful in their practices!

Course Objectives
Upon completion of the course, the learner will:

- List options for management of scaphoid fractures and nonunions, and stratify treatment options by goals and patient specific factors and outcomes.
- Describe differential diagnoses for ulnar sided wrist pathology, evaluation strategies, and treatment alternatives
- List indications and technique options for nerve repair or reconstruction, nerve transfer, and diagnosis and management of nerve pathology.
- Describe injury patterns seen in elbow fractures and dislocations, and list treatment options associated with acute and chronic elbow pathology.
- Be able to recognize carpal instability and describe treatment options.

Accreditation
The ASSH is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Credit Hours
The ASSH designates this live educational activity for a maximum of 9.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Disclaimer
The material presented in this continuing medical education program is being made available by the American Society for Surgery of the Hand for educational purposes only. This material is not intended to represent the best or only methods or procedures appropriate for the medical situation discussed; rather the material is intended to present an approach, view, statement or opinion of the authors or presenters, which may be helpful, or of interest to other practitioners. The attendees agree to participate in this medical education program, sponsored by ASSH with full knowledge and awareness that they waive any claim they may have against ASSH for reliance on any information presented in this educational program. In addition, the attendees also waive any claim they have against the ASSH for injury or other damage that may result in any way from their participation in this program.

All of the proceedings of the ASSH/AAHS Specialty Day: Tips from the Masters: Stacking Your Deck, including the presentation of scientific papers, are intended for limited publication only, and all property rights in the material presented, including common-law copyright, are expressly reserved to the speaker or the ASSH. No statement or presentation made is to be regarded as dedicated to the public domain. Any sound reproduction, transcript or other use of the material presented at this course without the permission of the speaker or the ASSH is prohibited to the full extent of common-law copyright in such material. The ASSH is not responsible for expenses incurred by an individual who is not confirmed and for whom space is not available at the meeting. Costs incurred by the registrant such as airline or hotel fees or penalties are the responsibility of the registrant. The approval of the U.S. Food and Drug Administration is required for procedures and drugs that are considered experimental. Instrumentation systems discussed and/or demonstrated in or at ASSH educational programs may not yet have received FDA approval.

Program Committee Leadership
Julie E. Adams, MD, Program Co-Chair
Nicole Strauss Schroeder, MD, Program Co-Chair

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Contributors</th>
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<tbody>
<tr>
<td>7:30 am – 7:35 am</td>
<td>Introductions and Welcome</td>
<td>Room W311E</td>
<td>Julie E. Adams, MD, Nicole Strauss Schroeder, MD, Martin I. Boyer, MD, FRCS(C) and Nash H. Naam, MD</td>
</tr>
</tbody>
</table>
| 7:35 am – 8:35 am | Session I – Symposium on Scaphoid Fractures and Nonunions | Room W311E | Moderator: Julie E. Adams, MD
Pearls and Pitfalls in Diagnosis and Treatment
Ruby Grewal, MD, MSc, FRCS(C)
Nonunions: Vascular Bone Grafting is Necessary?
Deana Mercer, MD
Nonunions: Back to the Future: Nonvascularized Bone Graft is Adequate
Michelle G. Carlson, MD
Nonunions: When to Save and When to Salvage?
William B. Geissler, MD
Jason P. Rehm, MD |
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Description</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>8:20 am – 8:35 am</td>
<td>Collective Wisdom from the Crowd and from the Panel</td>
<td>All Faculty</td>
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<tr>
<td>8:35 am – 9:35 am</td>
<td>Session II – Controversies And Challenges In Ulnar Sided Wrist Pain</td>
<td>Moderator: Nicole Strauss Schroeder, MD</td>
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<tr>
<td>8:35 am – 8:44 am</td>
<td>Wrist Ligament Problems I Have Never Seen?</td>
<td>David C. Ring, MD, PhD</td>
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<tr>
<td>8:44 am – 8:53 am</td>
<td>Split UT Ligament Tears &amp; LT tears: Pathologic or Simply Present?</td>
<td>Sanjeev Kakar, MD, FAOA</td>
</tr>
<tr>
<td>8:53 am – 9:02 am</td>
<td>Final Common Pathway – Constrained Distal Ulnar Joint Arthroplasty</td>
<td>Juan M. Breyer, MD</td>
</tr>
<tr>
<td>9:02 am – 9:11 am</td>
<td>DRUJ Instability in the Setting of Distal Radius Fractures – What to Do?</td>
<td>Sebastian A. Von Unger, MD</td>
</tr>
<tr>
<td>9:11 am – 9:20 am</td>
<td>How I Approach Problems at the Ulnar Side of the Wrist</td>
<td>Brian D. Adams, MD</td>
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<tr>
<td>9:20 am – 9:35 am</td>
<td>Collective Wisdom from the Crowd and from the Panel</td>
<td>All Faculty</td>
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<tr>
<td>9:35 am – 10:45 am</td>
<td>Session III – Symposium on Nerve Pathology</td>
<td>Moderator: Julie E. Adams, MD</td>
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<tr>
<td>9:44 am – 9:53 am</td>
<td>TMR – The Future Is Now</td>
<td>Kyle R. Eberlin, MD</td>
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<tr>
<td>9:53 am – 10:02 am</td>
<td>My Favorite Nerve Transfers</td>
<td>Amy M. Moore, MD</td>
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<tr>
<td>10:02 am – 10:11 am</td>
<td>Challenges and Timing Issues in Peripheral Nerve Injuries: My Algorithm</td>
<td>Christopher J. Dy, MD, MPH, FACS</td>
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<tr>
<td>10:11 am – 10:20 am</td>
<td>Compressive Neuropathies That I Never See</td>
<td>Mark S. Rekant, MD</td>
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<tr>
<td>10:20 am – 10:29 am</td>
<td>Compressive Neuropathies that See You</td>
<td>Fraser J. Leversedge, MD</td>
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<tr>
<td>10:29 am – 10:45 am</td>
<td>Collective Wisdom from the Crowd and from the Panel</td>
<td>All Faculty</td>
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<tr>
<td>10:45 am – 11:45 am</td>
<td>Session IV – Symposium On Elbow Injuries</td>
<td>Moderator: Nicole Strauss Schroeder, MD</td>
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<tr>
<td>10:45 am – 10:54 am</td>
<td>Rehabilitation of the Unstable Elbow: What You Need to Know</td>
<td>Graham J. King, MD, FRCSC</td>
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<tr>
<td>10:54 am – 11:03 am</td>
<td>Elbow Disasters I have Seen</td>
<td>Scott P. Steinmann, MD</td>
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<tr>
<td>11:03 am – 11:12 am</td>
<td>More Elbow Disasters that Have Seen Me</td>
<td>Adam C. Watts, MD</td>
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<tr>
<td>11:12 am – 11:21 am</td>
<td>Seductive Siren or Sound Solution: Elbow Joint Arthroplasty</td>
<td>Michael R. Hausman, MD</td>
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<td>11:21 am – 11:30 am</td>
<td>Soft Tissue Coverage Solutions About the Elbow</td>
<td>Duretti T. Fufa, MD</td>
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<tr>
<td>11:30 am – 11:45 am</td>
<td>Collective Wisdom from the Crowd and from the Panel</td>
<td>All Faculty</td>
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<tr>
<td>11:45 am – 12:35 pm</td>
<td>Session V – Carpal Instability &amp; Its Sequelae Symposium</td>
<td>Moderator: Julie E. Adams, MD</td>
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<tr>
<td>11:45 am – 11:54 am</td>
<td>Scapholunate Ligament Injuries: an Expanded Understanding?</td>
<td>Steve K. Lee, MD</td>
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<tr>
<td>11:54 am – 12:03 pm</td>
<td>Midcarpal instability: is There a Solution Out There?</td>
<td>Jeffrey A. Greenberg, MD</td>
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<tr>
<td>12:03 pm – 12:12 pm</td>
<td>Ligament Instabilities That We Don't Always Recognize</td>
<td>Scott W. Wolfe, MD</td>
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<tr>
<td>12:12 pm – 12:21 pm</td>
<td>PRC vs 4CF – Pushing the Indications, Understanding the Limitations?</td>
<td>Jennifer F. Waljee, MD</td>
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<tr>
<td>12:21 pm – 12:35 pm</td>
<td>Collective Wisdom from the Crowd and from the Panel</td>
<td>All Faculty</td>
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<tr>
<td>12:35 am – 12:40 pm</td>
<td>Last Thoughts and Adjourn</td>
<td>All Faculty</td>
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<tr>
<td>12:40 pm – 1:30 pm</td>
<td>Lunch break</td>
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<tr>
<td>1:30 pm – 1:35 pm</td>
<td>Introductions and Welcome</td>
<td>Julie E. Adams, MD, Nicole Strauss Schroeder, MD, Martin I. Boyer, MD, FRCS(C) and Nash H. Naam, MD</td>
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<tr>
<td>1:35 pm – 2:40 pm</td>
<td>Session I – Surgery of the Hand</td>
<td>Moderator: Nicole Strauss Schroeder, MD</td>
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<tr>
<td>1:35 pm – 1:42 pm</td>
<td>Carpal Tunnel Syndrome – They Don’t All Do Well</td>
<td>Donald H. Lee, MD</td>
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<tr>
<td>1:42 pm – 1:49 pm</td>
<td>Tendinopathies Of The Upper Limb – What The Evidence Shows and What You Need To Know</td>
<td>Robert W. Wysocki, MD</td>
</tr>
<tr>
<td>1:56 pm – 2:02 pm</td>
<td>Dupuytrens' Decision Points- What To Do And How To Do It?</td>
<td>Nash H. Naam, MD</td>
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<td>Time</td>
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<tr>
<td>2:02 pm – 2:09 pm</td>
<td>Fractures I Never Fix (eg: Boxers and Mallets)</td>
<td>Marco Rizzo, MD</td>
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<tr>
<td>2:09 pm – 2:16 pm</td>
<td>Pearls And Pitfalls At The PIP (Fracture)</td>
<td>Peter J. Lund, MD</td>
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<tr>
<td>2:16 pm – 2:23 pm</td>
<td>Pearls and Pitfalls in Pediatric Hand Fractures</td>
<td>Lindley B. Wall, MD</td>
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<tr>
<td>2:23 pm – 2:30 pm</td>
<td>Simple Hand Fractures That Aren’t</td>
<td>Mark E. Baratz, MD</td>
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<tr>
<td>2:30 pm – 2:40 pm</td>
<td>Q&amp;A and Collective Wisdom from the Crowd and From the Panel</td>
<td>All Faculty</td>
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<tr>
<td>2:40 pm – 2:47 pm</td>
<td>Distal Radius Tips And Tricks You Need Now</td>
<td>Julie E. Adams, MD</td>
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<tr>
<td>2:47 pm – 2:54 pm</td>
<td>What You Need To Know About Common Elbow Fractures</td>
<td>Lisa L. Lattanza, MD</td>
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<tr>
<td>2:51 pm – 3:01 pm</td>
<td>Pearls And Pitfalls For CMC Joint Arthritis</td>
<td>Amy L. Ladd MD</td>
</tr>
<tr>
<td>3:01 pm – 3:08 pm</td>
<td>Mimickers, Mockers, And Messes: Things You Should Never Operate On</td>
<td>Nicolas Hyun-Woo Lee, MD</td>
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<tr>
<td>3:15 pm – 3:22 pm</td>
<td>What You Will Need To Know To Make Your Practice Go From Good To Great</td>
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<td>3:22 pm – 3:29 pm</td>
<td>Top Ten Things You Will See In The ER That May Be Missed Or Mis-Managed</td>
<td>Nicole Strauss Schroeder, MD</td>
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<tr>
<td>3:29 pm – 3:36 pm</td>
<td>Workers Compensation – Taming The Lion</td>
<td>David S. Zelouf, MD</td>
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<tr>
<td>3:36 pm – 3:46 pm</td>
<td>Q&amp;A and Catch Up</td>
<td>All Faculty</td>
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<tr>
<td>3:53 pm – 4:00 pm</td>
<td>Challenges And Controversies In Small Joint Arthritis – When To Do What</td>
<td>Ryan P. Calfee, MD, MSc</td>
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<tr>
<td>4:00 pm – 4:07 pm</td>
<td>The Road To Acceptance: How To Get Your Hospital To Buy In For What You Need</td>
<td>L. Scott Levin, MD, FACS</td>
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<tr>
<td>4:07 pm – 4:22 pm</td>
<td>What I Wish I Knew When I Was You</td>
<td>Peter J. Stern, MD</td>
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<td>4:22 pm – 4:37 pm</td>
<td>The Papers I Wish I Had Read Sooner And The Ones I Wish I Had Never Read</td>
<td>Douglas P. Hanel, MD</td>
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<tr>
<td>4:37 pm – 5:15 pm</td>
<td>Collective Wisdom and Questions and Answers</td>
<td>All Faculty</td>
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<td>5:15 pm</td>
<td>Adjourn</td>
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**Saturday, March 28, 2020**  
**Orange County Convention Center**  
**Room W414B**  
**8:00 am – 4:50 pm**

**Federation of Spine Associations**

- American Spinal Injury Association
- Cervical Spine Research Society
- North American Spine Society
- Scoliosis Research Society

**Accreditation**

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Academy of Orthopaedic Surgeons and the Federation of Spine Associations. The American Academy of Orthopaedic Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

**Description**

The FOSA Specialty Day offers a unique forum from our four premier spine societies, ASIA, CSRS, NASS, and SRS, to exchange ideas regarding basic science and clinical problems of the spine. Hot topics and clinically relevant information in spine surgery, along with the latest advances in spine care, and current concepts in the diagnosis and management of spinal disorders, will be presented by a faculty of experts. This year’s program is no exception featuring an interactive educational format which includes lectures, case-based presentations, and lively debate.

**Educational Objectives**

To present a common forum for the four spine societies (American Spinal Injury Association, Cervical Spine Research Society, North American Spine Society and Scoliosis Research Society) to exchange ideas regarding basic science and clinical problems of the spine.

- To discuss current concepts in diagnosis and management of spinal disorders in the form of case presentations, debate, roundtable discussions, free papers, and instructional presentations.
- To update the review of clinical and surgical results as well as complications.

**Credit Hours**

7.0 AMA PRA Category 1 Credits™

**Program Chairs**

ASIA: Jacob M. Buchowski, MD and Addisu Mesfin, MD  
CSRS: Michael C. Gerling, MD and Gregory D. Schroeder, MD  
NASS: John G. Finkenberg, MD and Thomas E. Mroz, MD  
SRS: Rajiv K. Sethi, MD and Burt Yaszay, MD

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<th>Time</th>
<th>Event</th>
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| 8:00 am–8:05 am | Welcome and President’s Report  
*Mia. Buchowski, MD* |
| 8:05 am–9:50 am | **SECTION I: AMERICAN SPINAL INJURY ASSOCIATION**  
Moderators: Jacob M. Buchowski, MD and Addisu Mesfin, MD |
| 8:05 am–8:25 am | Update on the Management of Cervical Spine Trauma  
*Alexander R. Vaccaro, MD, PhD, MBA* |
| 8:25 am–8:27 am | **Debate – Case Presentation: 24-Year-Old Female with L2 Burst Fracture with Neurological Deficit** |
| 8:27 am–8:35 am | Posterior Spinal Fusion with Decompression  
*Kristen E. Radcliff, MD* |
| 8:35 am–8:43 am | Lateral Corpectomy with Posterior Spinal Fusion  
*Chadi A. Tannoury, MD* |
| 8:43 am–8:48 am | Discussion |
| 8:48 am–8:56 am | Update on the Management of Gunshot Wounds to the Spine  
*Joseph P. Gjolaj, MD* |
| 8:56 am–9:04 am | Minimally Invasive Stabilization of Hyperostotic Spine Fractures  
*Addisu Mesfin, MD* |
| 9:04 am–9:09 am | Discussion |
| 9:09 am–9:11 am | **Debate – Case Presentation: 30-Year-Old Male with T3 and T7 Flexion Distraction Injuries with SCI** |
| 9:11 am–9:19 am | Delayed Stabilization and Decompression of Thoracic SCI  
*William F. Lavelle, MD* |
| 9:19 am–9:28 am | Decompression and Stabilization of Thoracic SCI within 24 Hours  
*Elizabeth M. Yu, MD* |
| 9:28 am–9:36 am | Is Anterior Column Support Needed for Thoracic Fractures with Spinal Cord Injury?  
*Hamid Hassanzadeh, MD* |
| 9:36 am–9:41 am | Discussion |
| 9:41 am–9:47 am | MAP Goals: Durations and Side Effects  
*Daniel G. Kang, MD* |
| 9:47 am–9:50 am | Discussion |
| 9:50 am–10:10 am | Break |
| 10:10 am–11:55 am | **SECTION II: SCOLIOSIS RESEARCH SOCIETY**  
Moderators: Rajiv K. Sethi, MD and Burt Yaszay, MD |
| 10:10 am–10:47 am | Preventing Complications  
Reducing Blood Loss in Pediatric and Adult Deformity  
*Paul D. Sponseller, MD, MBA* |
| 10:17 am–10:24 am | Minimizing the Risk of Peri-Operative Infections  
*Michael P. Glotzbecker, MD* |
| 10:24 am–10:31 am | Preoperative Management of Poor Bone Quality  
*Venu M. Nemani, MD, PhD* |
| 10:31 am–10:38 am | Optimizing Nutritional Status  
*Eric O. Klineberg, MD* |
| 10:38 am–10:47 am | Discussion |
| 10:47 am–11:25 am | Managing Complications  
Management Options for a Delayed Infection  
*Baron S. Lonner, MD* |
10:54 am – 11:02 am  Intraoperative Instrumentation Failures – What Now?  
*Gregory M. Mundis, Jr., MD*

11:02 am – 11:09 am  Intraoperative Neuromonitoring Alert  
*A. Noelle Larson, MD*

11:09 am – 11:16 am  Proximal Junction Failure  
*Han Jo Kim, MD*

11:16 am – 11:25 am  Discussion

11:25 am – 11:55 am  Complication Cases

11:25 am – 11:40 am  Pediatric Cases  
Panel:  
*Paul D. Sponseller, MD, MBA; Baron S. Lonner, MD; Michael Glotzbecker, MD; A. Noelle Larson, MD*

11:40 am – 11:55 am  Adult Cases  
Panel:  
*Eric O. Klineberg, MD; Gregory M. Mundis, Jr., MD; Han Jo Kim, MD; Venu M. Nemani, MD, PhD*

11:55 am – 1:00 pm  Lunch on your own

1:00 pm – 2:45 pm  SECTION III: CERVICAL SPINE RESEARCH SOCIETY  
*Moderators: Michael C. Gerling, MD and Gregory D. Schroeder, MD*

1:00 pm – 1:05 pm  Introduction and Case Presentation  
*Michael C. Gerling, MD*

1:05 pm – 1:20 pm  Managing On-Field Cervical Injuries  
*Brandon D. Lawrence, MD*

1:20 pm – 1:35 pm  Clearing Athletes for Return to Play  
*Michael C. Gerling, MD*

1:35 pm – 1:50 pm  Emergency Department Evaluation of Cervical Spine Injuries  
*Timothy A. Moore, MD*

1:50 pm – 2:05 pm  Surgical Management and Prognosis of Cervical Injuries in Athletes  
*Gregory D. Schroeder, MD*

2:05 pm – 2:20 pm  Management of Upper Cervical Spine Injuries  
*John C. France, MD*

2:20 pm – 2:35 pm  Panel Case Discussions

2:35 pm – 2:45 pm  Question and Answer

2:45 pm – 3:05 pm  Break

3:05 pm – 4:50 pm  SECTION IV: NORTH AMERICAN SPINE SOCIETY  
*Moderator: John G. Finkenberg, MD*

3:05 pm – 3:34 pm  Debate – Case 1: Olympic High Jumper with Cervical Disc Herniation

3:05 pm – 3:14 pm  Posterior Cervical Foraminotomy  
*TBD*

3:14 pm – 3:23 pm  TDA  
*K. Daniel Riew, MD*

3:23 pm – 3:34 pm  Discussion

3:34 pm – 4:12 pm  Debate – Case 2: Third Recurrent Lumbar Disc Herniation

3:34 pm – 3:43 pm  MIS Tubular  
*Neel Anand, MD*

3:43 pm – 3:52 pm  Endoscopic Fusion  
*Michael P. Steinmetz, MD*

3:52 pm – 4:01 pm  Open TLIF  
*Dominic Pelle, MD*

4:01 pm – 4:12 pm  Discussion

4:12 pm – 4:50 pm  Complications

4:12 pm – 4:21 pm  Cervical Case  
*John G. Finkenberg, MD*

4:21 pm – 4:30 pm  Thoracic Case  
*Eric Truumees, MD*

4:30 pm – 4:39 pm  Lumbar Case  
*Edward J. Dohring, MD*

4:39 pm – 4:50 pm  Discussion

4:50 pm  Adjourn
Saturday, March 28, 2020
Combined Morning Session - Valencia Ballroom B
Afternoon Session - Room W311C
7:30 am – 4:50 pm

Limb Lengthening and Reconstruction Society
Growing Pains: Difficult Problems in Limb Reconstruction from Birth through Adulthood

General Information

Description
The 2020 LLRS Specialty Day will begin with a morning session combined with the Orthopaedic Trauma Association (OTA). The session will include a comprehensive update on topics with exciting innovations over the past few years including bone defect management, new technologies, techniques for bone infection/nonunion, and advances in amputation reconstruction. The afternoon will begin with a featured session by our international guest nation, South Africa, with a special invited guest lecture from Dr. Kevin Tetsworth. This will be followed by the best papers from the 2019 LLRS meeting and a highlighted section of controversies in treatment of congenital deformity.

Educational Objectives
• Identify techniques and advances in bone defect management of the lower–extremity
• Recognize state–of–the–art treatment of musculoskeletal infection
• Describe best–evidence techniques of amputation management in the lower–extremity
• Understand best–practice management of limb lengthening and deformity correction in pediatric congenital deficiencies

Accreditation of Morning Session
The combined activity with OTA has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME). The Orthopaedic Trauma Association (OTA) is accredited by the ACCME to provide continuing medical education for physicians.

Accreditation of Afternoon Session
This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Academy of Orthopaedic Surgeons and the Limb Lengthening and Reconstruction Society. The American Academy of Orthopaedic Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

Credit Hours for Morning Session
The Orthopaedic Trauma Association designates this live activity for a maximum of 4.0 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Credit Hours for Afternoon Session
The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of 4.0 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Program Committee Leadership
Stephen M. Quinnan, MD, Chair
Mitchell Bernstein, MD, Co-chair

Combined Specialty Day Meeting
Limb Lengthening and Reconstruction Society / Orthopaedic Trauma Association
Valencia Ballroom B

7:30 am – 11:25 am
LLRS and OTA: Innovations in Management of Bone Loss, Infection, and Amputation Reconstruction

7:30 am – 7:35 am
Welcome and Introductions
Stephen M. Quinnan, MD and Mitchell Bernstein, MD – LLRS
Michael D. McKee, MD and J. Tracy Watson, MD – OTA

7:35 am – 9:00 am
Part I: Innovations in Bone Defect Management

7:35 am – 7:45 am
Bone Defects in 2020: Conventional Treatment
Michael J. Gardner, MD

7:45 am – 7:55 am
Induced Membrane Grafting/3D Titanium Cages
Kevin Tetsworth, MD

7:55 am – 8:05 am
Treatment of LLD with Internal Lengthening Nail
J. Tracy Watson, MD

8:05 am – 8:15 am
Acute Shortening and Lengthening
S. Robert Rozbruch, MD

8:15 am – 8:25 am
Plate Assisted Bone Segment Transport (PABST)
Matthew P. Gardner, MD

8:25 am – 8:35 am
Transport and Then Nailing (BC–TATN)
Stephen M. Quinnan, MD

9:00 am – 9:15 am
Discussion

9:15 am – 10:15 am
Part II: New Technologies and Techniques for Bone Infection/Nonunion

9:15 am – 9:30 am
An EBM Approach to Preventing Infections in At–Risk Injuries
Robert V. O’Toole, MD

9:30 am – 9:40 am
Definitive Intra–Operative Testing for Infection: Are We There Yet?
William T. Obremskey, MD, MPH

9:40 am – 9:50 am
Antibiotic Cement Coated Nails
Janet C. Conway, MD
Saturday, March 28, 2020
Combined Morning Session - Valencia Ballroom B
Afternoon Session - Room W311C
7:30 am – 4:45 pm

9:50 am – 10:00 am  Compression Nails
Austin T. Fragomen, MD

10:00 am – 10:15 am  Discussion

10:15 am – 11:25 am  Part III: Amputation

Moderators: Stephen M. Quinnan, MD and Michael D. McKee, MD

Lisa C. Cannada, MD

10:25 am – 10:35 am  Ertie, What’s the Data?
David C. Teague, MD

10:35 am – 10:45 am  Nerve Management
Oskar C. Aszmann, MD

10:45 am – 10:55 am  Residuum Lengthening
Jean-Claude Gregoire D’Alleyrand, MD

10:55 am – 11:05 am  Osseointegration
Munjed Al Muderis, MBChB

11:05 am – 11:25 am  Discussion

11:25 am – 12:30 pm  Optional LLRS Research Breakout Session
Moderator: Jessica C. Rivera, MD
Participants must register at https://form.jotform.com/92794111890159 prior to March 23 and present ticket to enter. Lunch will be provided.

12:30 pm – 4:45 pm  LLRS Specialty Day in Room W311C

12:30 pm – 12:35 pm  Introduction of Guest Nation, South Africa

12:35 pm – 4:50 pm  Part IV: Symposium – South Africa
Moderator: Joseph R. Hsu, MD

12:35 pm – 12:50 pm  Overview of Limb Reconstruction in South Africa
H. Sean Pretorius, BSc MBChB MMed (Orth)

12:50 pm – 1:05 pm  Paediatric Limb Reconstruction in South Africa
Jacques du Toit MBChB, FCOrth, MSc

1:05 pm – 1:20 pm  Musculoskeletal Infections
Nando Ferreira, BSc, MBChB, FC Orth(SA), MMed Orth, PhD

1:20 pm – 1:35 pm  Challenges in Treating Civilian Gun Shot Fractures
Maritz Laubscher, FC Orth(SA), MMed Ortho, MBChB, Dip PEC

1:35 pm – 1:50 pm  Deformity Assisted Wound Closure for Soft Tissue Reconstruction in a Resource-Poor Environment
Juraj Kubicek, MD

1:50 pm – 2:00 pm  Discussion

2:00 pm – 2:15 pm  Refreshment Break

2:15 pm – 2:35 pm  Guest Lecture
Going Out on a Limb: Seeing Beyond the Conventional Limits of Post-Traumatic Salvage and Reconstruction
Kevin Tetsworth, MD

2:35 pm – 3:30 pm  Part V: Best Papers from LLRS 28th Annual Meeting 2019
Moderator: Douglas N. Beaman, MD

2:35 pm – 2:45 pm  Reverse Dynamization Accelerated Bone Healing in a Large Animal Osteotomy Model
Christopher A. Iobst, MD

2:45 pm – 2:55 pm  Biological Activity of Human Induced Membranes: Temporal Differences Between Femoral and Tibial Sites
Kevin Tetsworth, MD

2:55 pm – 3:05 pm  Dilute Peripheral Nerve Catheters: A Unique Method to Decrease Postoperative Narcotic Usage in Limb Reconstruction Patients
Christopher A. Iobst, MD

3:05 pm – 3:15 pm  Balanced Cable Transport with Circular External Fixation and Then Nailing for Segmental Tibia Bone Defects
Stephen M. Quinnan, MD

3:15 pm – 3:30 pm  Discussion

3:30 pm – 4:50 pm  Part VI: Congenital Deficiencies
Moderator: Raymond W. Liu, MD

3:30 pm – 3:45 pm  Before Limb Lengthening in Congenital Femoral Deficiency: Preparatory Surgery
John E. Herzenberg, MD

3:45 pm – 4:00 pm  Femoral Lengthening in Congenital Femoral Deficiency: External Fixation Versus Intramedullary Nailing
Mark T. Dahl, MD

4:00 pm – 4:15 pm  Fibular Hemimelia Controversies
Dror Paley, MD

4:15 pm – 4:30 pm  Growth Modulation Versus Limb Lengthening – A Paradigm Shift
L. Reid Nichols, MD

4:30 pm – 4:40 pm  Discussion

4:40 pm – 4:50 pm  Conclusion/Adjourn
**General Information**

**Description**
The focus of the upcoming Specialty Day will be on advances in musculoskeletal oncology around the world. With presenters from 6 continents, attendees will have the opportunity to learn the cutting-edge science, surgical techniques, and innovative technologies moving our field forward. Attendees will see different approaches to the challenges faces in orthopaedic oncology, and with interactive sessions, will contribute to collaborative solutions.

**Educational Objectives**
Upon completion of this session, attendees should be able to:
- Be aware of cutting-edge sarcoma research being performed in North America, Europe and Asia.
- Recognize different approaches to complex surgical cases.
- Identify new medical, non-surgical options for giant cell tumor of bone, tenosynovial giant cell tumor, and sarcoma.
- Understand the FDA approval process for new therapeutics and differences between device approval and drug approval.
- Develop an awareness of the difference organizations representing us (MSTS, EMSOS, ISOLS), the different roles each organization plays, and the potential collaborations in promoting education.
- Understand the important of surgical margins in bone and soft tissue tumors, respectively.

**Accreditation**
This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Academy of Orthopaedic Surgeons and the Musculoskeletal Tumor Society. The American Academy of Orthopaedic Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

**Credit Hours**
The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of 6.25 AMA PRA Category 1 credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Disclosure**
Each faculty member in this Specialty Day Meeting has been asked to disclose if he or she (of their spouse/partner) has received something of value from a commercial company or institution, which relates directly or indirectly to the subject of their presentation. An indication of the participants disclosure appears after his or her name as well as the commercial company or institution that provides the support.

The AAOS and the MSTS does not view the existence of these disclosed interests or commitments as necessarily implying bias or decreasing the value of the author’s participation in the course.

**Disclaimer**
The material presented at this Specialty Day Meeting has been made available by the MSTS for educational purposes only. This material is not intended to represent the only, or necessarily the best, methods or procedures appropriate for the medical situations discussed, but rather is intended to present an approach, view, statement or opinion of the faculty, which may be helpful to others who face similar situations.
10:40 am – 10:45 am  CSF-1 Receptor Blockers: Failures, Success, & Side Effects  
*Kurt R. Weiss, MD*

10:45 am – 10:50 am  Immune Checkpoint Regulators: Failures, Successes, & Side Effects  
*Joseph H. Schwab, MD*

10:50 am – 11:00 am  Discussion and Questions

11:00 am – 12:00 pm  Achieving Equilibrium  
**Moderators:** Patrick P. Lin, MD and Peter S. Rose, MD

11:00 am – 11:15 am  The Best and Worst Thing About My Job  
*Michelle Ghert, MD, FRCSC*

11:15 am – 11:30 am  Balancing Research and Clinical Care  
*Parker Gibbs, Jr., MD*

11:30 am – 11:45 am  Discussion and Questions

11:45 am – 12:00 pm  Announcement of MSTS Annual Meeting Paper and Poster Awards

11:50 am – 12:00 pm  Hatcher Fellowship Announcement  
*Michael A. Simon, MD*

12:00 pm – 1:00 pm  Lunch – MSTS Members Only Meeting

1:00 pm – 1:30 pm  New Technologies – Innovative Techniques  
**Moderators:** Peter Ferguson, MD and Emily E. Carmody, MD

1:00 pm – 1:10 pm  Minimally Invasive Endo-Pelvis Reconstruction for Metastatic Cancers  
*Francis Young Lee, MD, PhD*

1:10 pm – 1:20 pm  Navigation in Musculoskeletal Oncology: An Update  
*G. Douglas Letson, MD*

1:20 pm – 1:30 pm  Discussion and Questions

1:30 pm – 2:30 pm  Session IV: Education in Musculoskeletal Oncology – The role of International Societies in Promoting Education  
**Moderators:** Franklin H. Sim, MD and Pietro Ruggieri, MD, PhD

1:30 pm – 1:45 pm  The Role of MSTS  
*R. Lor Randall, MD, FACS*

1:45 pm – 2:00 pm  The Role of EMSOS in Europe  
*Andreas Leithner, MD*

2:00 pm – 2:15 pm  The Intercontinental Role of ISOLS  
*Mark T. Scarborough, MD*

2:15 pm – 2:30 pm  Discussion and Questions

2:30 pm – 3:45 pm  Session V: “Open Problems”  
**Moderators:** Cara A. Cipriano, MD and Nicholas M. Bernthal, MD

2:30 pm – 2:45 pm  “Oops” Surgery: Still A Relevant Problem in Musculoskeletal Oncology?  
*Nicola Fabbri, MD*

2:45 pm – 3:00 pm  Surgical Margins: Still an Issue! – Bone Tumors  
*Joseph Benevenia, MD*

3:00 pm – 3:15 pm  Surgical Margins: Still an Issue! - Soft Tissue Tumors  
*Carol D. Morris, MD, MS*

3:15 pm – 3:30 pm  What’s New: Basic Science in Musculoskeletal Oncology  
*John H. Healey, MD, FACS*

3:30 pm – 3:45 pm  Discussion and Questions

3:45 pm  Final Remarks and Adjourn  
*Pietro Ruggieri, MD, PhD and Nicholas M. Bernthal, MD*
Saturday, March 28, 2020
Orange County Convention Center
Valencia Ballroom B
7:30 am – 4:45 pm

General Information

Description
The OTA Specialty Day features an energetic and entertaining agenda for trauma experts, generalists and international attendees focused on practical strategies for difficult clinical situations, best evidence for contemporary controversies, and highlights from the OTA annual scientific programs. The morning will feature a combined session with Limb Lengthening and Reconstruction Society (LLRS). The afternoon will feature a combined session with American Shoulder and Elbow Surgeons (ASES).

Target Audience
This meeting is designed for orthopaedic surgeons and is beneficial to related allied health care professionals. OTA has created the program based on stated needs and interests expressed from previous Specialty Day attendee evaluations.

Educational Objectives
- Determine a decision making strategy for limb salvage versus amputation in severe lower extremity injuries
- Identify contemporary operative techniques for lower extremity nonunions and malunions, including limb length discrepancy
- Describe evidence-based recommendations for treatment options when treating intra-articular upper extremity fractures

Accreditation
This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME). The Orthopaedic Trauma Association (OTA) is accredited by the ACCME to provide continuing medical education for physicians.

Credit Hours
The Orthopaedic Trauma Association designates this live activity for a maximum of 7.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

*This includes credits for:
Combined session with LLRS – 4.0 AMA PRA Category 1 Credits™
Combined session with ASES – 2.75 AMA PRA Category 1 Credits™

Program Committee Leadership

OTA: Michael D. McKee, MD, OTA President
  Michael J. Gardner, MD; Stephen A. Kottmeier, MD; Emil H. Schemitsch, MD

ASES: Frank A. Cordasco, MD, MS, President, 2018-2019
  Heinz R. Hoenecke, MD, Program Co-Chair
  S. Robert Rozbruch, MD, Program Co-Chair
  Matthew P. Gardner, MD
  J. Spence Reid, MD

Questions
Orthopaedic Trauma Association
9400 W. Higgins Rd., Suite 305, Rosemont, IL 60018
Phone: 847-698-1631, Email: ota@ota.org

7:30 am – 7:35 am
Welcome and Introductions
Stephen M. Quinnan, MD and Mitchell Bernstein, MD – LLRS
Michael D. McKee, MD and J. Tracy Watson, MD – OTA

7:35 am – 9:00 am
Part I: Innovations in Bone Defect Management

7:30 am – 7:45 am
Bone Defects in 2020: Conventional Treatment
Michael J. Gardner, MD

7:45 am – 7:55 am
Induced Membrane Grafting/3D Titanium Cages
Kevin Tetsworth, MD

7:55 am – 8:05 am
Treatment of LLD with Internal Lengthening Nail
J. Tracy Watson, MD

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Stephen M. Quinnan, MD

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9:00 am – 9:15 am
Refreshment Break

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Part II: New Technologies and Techniques for Bone Infection/Nonunion

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Robert V. O’Toole, MD

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Definitive Intra–Operative Testing for Infection: Are We There Yet?
William T. Obremskey, MD, MPH

9:40 am – 9:50 am
Antibiotic Cement Coated Nails
Janet C. Conway, MD

10:00 am – 10:15 am
Discussion

10:15 am – 11:25 am
Part III: Amputation

10:15 am – 10:25 am
Limb Salvage vs. Amputation: Decision-Making in 2020
Lisa K. Cannada, MD

10:25 am – 10:35 am
Ertl, What’s the Data?
David C. Teague, MD

Combined Specialty Day Meeting
Limb Lengthening and Reconstruction Society / Orthopaedic Trauma Association
Valencia Ballroom B

7:30 am – 11:25 am
LLRS and OTA: Innovations in Management of Loss, Infection, and Amputation Reconstruction
**Saturday, March 28, 2020**  
**Orange County Convention Center**  
**Valencia Ballroom B**  
**7:30 am – 4:45 pm**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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| 10:35 am – 10:45 am | Nerve Management  
**Oskar C. Aszmann, MD**                                         |
| 10:45 am – 10:55 am | Residuum Lengthening  
**Jean-Claude Gregoire D’Alleyrand, MD**                                    |
| 10:55 am – 11:05 am | Osseointegration  
**Munjed Al Muderis, MBChB**                                             |
| 11:05 am – 11:20 am | Discussion                                                                                   |
| 11:40 am – 12:00 pm | Guest Speaker: Introduction  
**Michael D. McKee, MD**                                                      |
| 12:00 pm – 1:00 pm | Lunch break  
OTAs Members-Only Business Meeting                                           |
| 1:00 pm – 1:45 pm | **Session I: Papers You Should Know About: 2019 OTA Annual Meeting Highlights**          |
| 2:00 pm – 2:41 pm | **Symposium V: Recent Developments in Elbow Fracture Treatment**  
**Moderators: Michael J. Gardner, MD and TBD**                                 |
| 2:04 pm – 2:44 pm | **Symposium VI: Glenohumeral Fracture/Dislocation**  
**Moderators: Stephen F. Brockmeier, MD and Heather A. Vallier, MD**             |
| 2:42 pm – 2:47 pm | Bony Bankart – How This Impacts Decision Making  
**TBD**                                                                       |
| 2:48 pm – 2:53 pm | Displaced Greater Tuberosity Fracture in Middle-Aged Patient  
**Dominique Rouleau, MD**                                                    |
| 2:54 pm – 2:59 pm | Reduction of Fracture Dislocation  
**Niloofar Dehghan, MD, FRCS(C)**                                               |
| 3:00 pm – 3:05 pm | Delayed Treatment of the Missed Fracture Dislocation  
**TBD**                                                                     |
| 3:06 pm – 3:24 pm | Panel Discussion and Questions                                                                 |
| 3:25 pm – 4:11 pm | **Symposium VII: Proximal Humerus Fracture**  
**Moderators: E. Scott Paxton, MD and Utku Kandemir, MD**                       |
| 4:12 pm – 4:17 pm | Sling It  
**Benton E. Heyworth, MD**                                                   |
| 4:18 pm – 4:23 pm | Plate It  
**Kyle J. Jeray, MD**                                                        |
| 4:24 pm – 4:29 pm | Nail It  
**TBD**                                                                    |
| 4:30 pm – 4:45 pm | Panel Discussion and Questions                                                                 |
| 4:45 pm         | Meeting Adjourns                                                                          |
General Information

Description
The program is designed to identify areas of recent research in the field of hip surgery relevant to practicing physicians, surgeons, and allied health professionals. This information will be delivered through scientific paper presentations, hot topic updates, case-based and video-based discussions, current concepts overview and special spotlight sessions.

Target Audience
The intended audience is orthopaedic surgeons, physicians, fellows, residents, and allied health professionals in the field of hip surgery or related fields of practice.

Course Objectives
• Review basic science and orthopaedic problems relative to the hip joint.
• Examine the indications, techniques, and results of various surgical procedures.
• Describe the management of hip arthroplasty related problems and complications.
• Gain further understanding in the areas of quality, economics and value as related to the US healthcare.

Questions
The Hip Society
9400 West Higgins Road, Suite 500
Rosemont, IL 60018
Phone: 847/698-1638
Email: hip@aaos.org

Accreditation
This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Academy of Orthopaedic Surgeons and The Hip Society. The American Academy of Orthopaedic Surgeons is accredited by the ACCME to provide continuing education for physicians.

Credit Hours
The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of **7.0 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation.

Disclaimer
The material presented at the 2020 Winter (Open) Meeting of The Hip Society and AAHKS has been made available by The Hip Society and AAHKS for educational purposes only. This material is not intended to represent the only, nor necessarily the best, method or procedure appropriate for the medical situations discussed, but rather is intended to present an approach, view, statement or opinion of the faculty, which may be helpful to others who face similar situations. The Hip Society and AAHKS disclaim any and all liability for injury or other damages resulting to any individuals attending the 2020 Winter (Open) Meeting and for all claims which may arise out of the use of the techniques demonstrated therein by such individuals, whether these claims shall be asserted by a physician or by any other party. No reproductions of any kind, including audio- and video recordings, may be made of the presentations at the 2020 Winter (Open) Meeting. The Hip Society reserves all rights to such material, and commercial reproduction is specifically prohibited unless authorized by The Hip Society.

Program Committee Leadership
The Hip Society and AAHKS Leadership
Joshua J. Jacobs, MD (Chicago, IL), President, The Hip Society
Craig J. Della Valle, MD (Chicago, IL), Chair, Program Committee, The Hip Society
Michael P. Bolognesi, MD (Durham, NC), President, AAHKS
Bryan D. Springer, MD (Charlotte, NC), Chair, Education and Communications Council, AAHKS

NOTE: Morning Sessions from 7:55 am – 9:55 am will be COMBINED in THE HIP SOCIETY ROOM

7:55 am – 8:00 am Welcome / Opening Remarks
Joshua J. Jacobs, MD (Chicago, IL), President of The Hip Society
Mark W. Pagnano, MD (Rochester, MN), President of The Knee Society

8:01 am – 8:45 am COMBINED SESSION I: Patient Optimization
Moderator: C. Lowry Barnes, MD (Little Rock, AR)

8:02 am – 8:09 am Preoperative Optimization: Which Risk Factors Should I Try to Have My Patient Modify?
TBD

8:10 am – 8:17 am Perioperative Infection Prevention
Thomas P. Vail, MD (San Francisco, CA)

8:18 am – 8:25 am How to Establish an Optimization Program in Academic Practice
Richard Iorio, MD (Beverly, MA)

8:26 am – 8:33 am How to Establish an Optimization Program in Private Practice
Michael J. Archibeck, MD (Albuquerque, NM)

8:34 am – 8:48 am Discussion and Audience Questions

8:49 am – 9:36 am COMBINED SESSION II: Outpatient TJA
Moderator: Adolph V. Lombardi, Jr., MD (New Albany, OH)

8:50 am – 8:57 am Choosing Patients Wisely
R. Michael Meneghini, MD (Fishers, IN)

8:58 am – 9:05 am Pain Management in the Outpatient Setting
David F. Dalury, MD (Towson, MD)

9:06 am – 9:13 am When Complications Occur in the ASC
Michael E. Berend, MD (Indianapolis, IN)
9:14 am – 9:21 am  Is Outpatient Total Hip Arthroplasty Safe: What Does the Data Say
Craig J. Della Valle, MD (Chicago, IL)
9:22 am – 9:36 am  Discussion and Audience Questions
9:37 am – 9:47 am  Special Highlight: Health Policy: The Year in Review and What to Expect
Presenters: James I. Huddleston, III, MD (Redwood, CA) and Michael P. Bolognesi, MD (Durham, NC)
9:48 am – 9:52 am  Discussion and Audience Questions
9:53 am – 9:55 am  CCJR Winter 2020 Highlights
Daniel J. Berry, MD (Rochester, MN)
9:55 am – 10:10  Coffee Break
REST OF THE DAY SESSIONS WILL BE HELD IN EACH SOCIETIES ROOM
10:11 am – 11:01 am  SESSION III: Revision THA: A Case Based Discussion
Moderator: Donald S. Garbuz, MD (Vancouver, BC)
Faculty: Paul J. Duwelius, MD (Portland, OR); TBD; Allan E. Gross, MD (Toronto, ON); Wayne G. Paprosky, MD (Winfield, IL); TBD; Michael D. Ries, MD (Reno, NV)
10:51 am – 11:01 am  Discussion and Audience Questions
11:02 am – 11:20 am  SESSION IV: The Hip Society Awards
Awards Moderator: Joshua J. Jacobs, MD (Chicago, IL)
11:03 am – 11:08 am  The John Charnley Award
TBD
11:09 am – 11:14 am  The Otto Aufranc Award
TBD
11:15 am – 11:20 am  The Frank Stinchfield Award
TBD
11:21 am – 11:26 am  Discussion and Audience Questions
11:27 am – 11:33 am  SESSION V: Special Highlights
Moderator: Adolph V. Lombardi, Jr., MD (New Albany, OH)
Rothman Ranawat Traveling Fellowship
British Hip Society Traveling Fellowship
11:34 am – 11:54 am  SESSION VI: Presidential Guest Speaker
J. Mark Wilkinson, PhD, FRCS (Tr&Orth) (Sheffield, UK)
11:55 am – 1:00 pm  Lunch
1:01 pm – 1:48 pm  SESSION VII: The Hip-Spine Relationship
Moderator: Douglas E. Padgett, MD (New York, NY)
1:01 pm – 1:09 pm  Understanding the X-Rays
Ran Schwarzkopf, MD, MSc (New York, NY)
1:10 pm – 1:18 pm  How do I Prevent Them From Dislocating?
Arthur L. Malkani, MD (Louisville, KY)
1:19 pm – 1:27 pm  A Spine Surgeon’s Perspective
Han Jo Kim, MD (New York City, NY)
1:28 pm – 1:48 pm  Cases and Discussion
1:49 pm – 2:30 pm  SESSION VIII: Management and Early Osteoarthritis of the Hip
Moderator: John C. Clover, MD (St. Louis, MO)
1:49 pm – 1:56 pm  Cortisone, Viscosupplementation, PRP and Stem Cells: What is Their Role?
Rafael J. Sierra, MD (Rochester, MN)
1:57 pm – 2:04 pm  The Role of Arthroscopy in Early Hip Arthritis
Shane J. Nho, MD, MS (Chicago, IL)
2:05 pm – 2:12 pm  Pelvic Osteotomies: Which Patients Benefit Most?
Michael P. Millis, MD (Boston, MA)
2:13 pm – 2:20 pm  Osteotomy vs “Early” THA
Christopher L. Peters, MD (Salt Lake City, UT)
2:21 pm – 2:45 pm  Clinical Cases and Discussion
2:46 pm – 3:00 pm  Refreshment Break
3:01 pm – 3:46 pm  SESSION IX: How I Do A Primary THA
Moderator: Jay R. Lieberman, MD (Los Angeles, CA)
Faculty: William J. Hozack, MD (Philadelphia, PA); Joseph T. Moskal, MD (Roanoke, VA); Charles L. Nelson, MD (Philadelphia, PA); TBD; Vincent D. Pelligrini, MD (Lebanon, NH); Thomas P. Schmalzried, MD (Los Angeles, CA)
3:36 pm – 3:46 pm  Questions from the Audience
3:47 pm – 4:32 pm  SESSION X: Complex Primary THA: A Case Based Discussion
Moderator: David G. Lewallen, MD (Rochester, MN)
Faculty: C. Anderson Engh, MD (Alexandria, VA); Paul F. Lachiewicz, MD (Rochester, MN); Scott M. Sporer, MD (Chapel Hill, NC); Michael Tanzer, MD (Montreal, QC); Michael J. Taunton, MD (Winfield, IL); Leo A. Whiteside, MD (St. Louis, MO)
4:23 pm – 4:32 pm  Discussion and Audience Questions
4:33 pm  Adjourn
Saturday, March 28, 2020
Orange County Convention Center
Tangerine Ballroom 3
7:55 am – 4:33 pm

The Knee Society/American Association of Hip and Knee Surgeons

General Information

Description
The program is designed to identify areas of recent research in the field of knee surgery relevant to practicing physicians, surgeons, and allied health professionals. This information will be delivered through scientific paper presentations, hot topic updates, case-based and video-based discussions, current concepts overview and special spotlight sessions.

Target Audience
The intended audience is orthopaedic surgeons, physicians, fellows, residents, and allied health professionals in the field of knee surgery or related fields of practice.

Course Objectives
Review basic science and orthopaedic problems relative to the knee joint.
• Examine the indications, techniques, and results of various surgical procedures.
• Describe the management of knee arthroplasty related problems and complications.
• Gain further understanding in the areas of quality, economics, and value as related to the US healthcare.

Questions
The Knee Society
9400 West Higgins Road, Suite 500
Rosemont, IL 60018
Phone: 847/698-1632
Email: knee@aaos.org

Accreditation
This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Academy of Orthopaedic Surgeons and The Knee Society. The American Academy of Orthopaedic Surgeons is accredited by the ACCME to provide continuing education for physicians.

Credit Hours
The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of 7.0 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation.

Disclaimer
The material presented at the 2020 Specialty Day (Open) Meeting of The Knee Society and AAHKS has been made available by The Knee Society and AAHKS for educational purposes only. This material is not intended to represent the only, nor necessarily the best, method or procedure appropriate for the medical situations discussed, but rather is intended to present an approach, view, statement or opinion of the faculty, which may be helpful to others who face similar situations. The Knee Society and AAHKS disclaim any and all liability for injury or other damages resulting to any individuals attending the 2020 Specialty Day (Open) Meeting and for all claims which may arise out of the use of the techniques demonstrated therein by such individuals, whether these claims shall be asserted by a physician or by any other party.

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The Knee Society and AAHKS Leadership
Mark W. Pagnano, MD (Rochester, MN), President, The Knee Society
Bryan D. Springer, MD (Charlotte, NC), Chair, Program Committee, The Knee Society
Michael P. Bolognesi, MD (Durham, NC), President, AAHKS
Bryan D. Springer, MD (Charlotte, NC), Chair, Education and Communications Council, AAHKS

NOTE: Morning Sessions from 7:55 am – 9:55 am will be COMBINED in THE HIP SOCIETY ROOM

7:55 am – 8:00 am Welcome / Opening Remarks
Joshua J. Jacobs, MD (Chicago, IL)
President of The Hip Society
Mark W. Pagnano, MD (Rochester, MN)
President of The Knee Society

8:01 am – 8:45 am COMBINED SESSION I: Patient Optimization
Moderator: C. Lowry Barnes, MD
(Little Rock, AR)

8:02 am – 8:09 am Preoperative Optimization: Which Risk Factors Should I Try to Have My Patient Modify?
TBD

8:10 am – 8:17 am Perioperative Infection Prevention
Thomas P. Vail, MD (San Francisco, CA)

8:26 am – 8:33 am How to Establish an Optimization Program in Private Practice.
Michael J. Archibeck, MD
(Albuquerque, NM)

8:34 am – 8:48 am Discussion and Audience Questions

8:49 am – 9:36 am COMBINED SESSION II: Outpatient TJA
Moderator: Adolph V. Lombardi, Jr., MD
(New Albany, OH)

8:50 am – 8:57 am Choosing Patients Wisely
R. Michael Meneghini, MD (Fishers, IN)

8:58 am – 9:05 am Pain Management in the Outpatient Setting
David F. Dalury, MD (Towson, MD)

9:06 am – 9:13 am When Complications Occur in the ASC
Michael E. Berend, MD (Indianapolis, IN)

The Knee Society/American Association of Hip and Knee Surgeons
9:14 am – 9:21 am  Is Outpatient Total Hip Arthroplasty Safe: What Does the Data Say
Craig J. Della Valle, MD (Chicago, IL)

9:22 am – 9:36 am  Discussion and Audience Questions

9:37 am – 9:47 am  Special Highlight: Health Policy: The Year in Review and What to Expect
Presenters: James I. Huddleston, III, MD (Redwood, CA) and Michael P. Bolognesi, MD (Durham, NC)

9:48 am – 9:52 am  Discussion and Audience Questions

9:53 am – 9:55 am  CCJR Winter 2020 Highlights
Daniel J. Berry, MD (Rochester, MN)

9:55 am – 10:10 am  Coffee Break

REST OF THE DAY SESSIONS WILL BE HELD IN EACH SOCIETIES ROOM

10:11 am – 11:01 am  SESSION III: How I Do A Primary TKA
Moderator: Thomas K. Fehring, MD (Charlotte, NC)
Faculty: Robert L. Barrack, MD (St. Louis, MO); Keith R. Berend, MD (New Albany, OH); Henry D. Clarke, MD (Phoenix, AZ); Michael J. Dunbar, MD (Halifax, NS); William G. Hamilton, MD (Alexandria, VA); William B. Macaulay, MD (New York, NY)

10:51 am – 11:01 am  Questions from the Audience

11:02 am – 11:22 am  SESSION IV: Special Highlights
Moderator: Bryan D. Springer, MD (Charlotte, NC)

11:03 am – 11:09 am  John Insall Travelling Fellowship
W. Norman Scott, MD (New York, NY)

11:10 am – 11:16 am  Highlights of Closed Meeting of The Knee Society
Bryan D. Springer, MD (Charlotte, NC)

11:17 am – 11:22 am  Highlights of ORS
Timothy M. Wright, PhD (New York, NY)

11:23 am – 11:48 am  SESSION V: The Knee Society Awards
Moderators: TBD and A. Seth Greenwald, D.Phil. (Oxon) (Cleveland, OH)

11:23 am – 11:30 am  Lifetime Achievement Award
TBD

11:31 am – 11:36 am  The John N. Insall, MD Award
TBD

11:37 am – 11:42 am  The Chitranjan S. Ranawat, MD Award
TBD

11:43 am – 11:48 am  The Mark B. Coventry, MD Award
TBD

11:49 am – 11:54 am  Discussion and Audience Questions

11:55 am – 1:00 pm  Lunch

1:01 pm – 1:48 pm  SESSION VI: Management of Early Osteoarthritis of the Knee
Moderator: Mark W. Pagnano, MD (Rochester, MN)

1:01 pm – 1:09 pm  Biologics
Fred D. Cushner, MD (New York, NY)

1:10 pm – 1:18 pm  Osteotomy
Tom Minas, MD, MS (West Palm Beach, FL)

1:19 pm – 1:27 pm  Meniscal Transplants
Brian J. Cole, MD, MBA (Chicago, IL)

1:28 pm – 1:35 pm  Cartilage Replacement
William D. Bugbee, MD (La Jolla, CA)

1:36 pm – 1:48 pm  Discussion

1:49 pm – 2:44 pm  SESSION VII: Periprosthetic Joint Infection
Moderator: Mathias P.G. Bostrom, MD (New York, NY)

1:49 pm – 1:56 pm  An Updates on Diagnosis of PJI
Javad Parvizi, MD, FRCS (Philadelphia, PA)

1:57 pm – 2:04 pm  The Role of Irrigation and Debridement in 2020
Matthew P. Abdel, MD (Rochester, MN)

2:05 pm – 2:12 pm  Is Two Exchange Stage Still the Gold Standard For PJI?
Arlen D. Hanssen, MD (Rochester, MN)

2:13 pm – 2:20 pm  One Stage Exchange for the Treatment of PJI: What Have We Learned and Need to Learn
Prof. Fares S. Haddad BSc (Hons) MBBS MD (Res) MCh (Orth) FRCS (Orth) FFSEM (London, UK)

2:21 pm – 2:28 pm  Current Concepts in Antibiotic Management
Barry D. Brause, MD (New York, NY)

2:29 pm – 2:44 pm  Discussion

2:45 pm – 3:00 pm  Refreshment Break

3:01 pm – 3:46 pm  SESSION VIII: Revision TKA: A Case Based Discussion
Moderator: Daniel J. Berry, MD (Rochester, MN)
Faculty: David Backstein, MD (Toronto, ON); Wael K. Barsoum, MD (Weston, FL); James A. Browne, MD (Charlottesville, VA); David J. Mayman, MD (New York, NY); Denis Nam, MD, MSc (Chicago, IL); Thomas P. Sculco, MD (New York, NY)

3:36 pm – 3:46 pm  Questions from the Audience

3:47 pm – 4:32 pm  SESSION IX: Complex Primary TKA: A Case Based Discussion
Moderator: Steven J. MacDonald, MD (London, ON)
Faculty: John J. Callaghan, MD (Iowa City, IA); Douglas A. Dennis, MD (Denver, CO); Stuart B. Goodman, MD (Redwood City, CA); TBD; William A. Jiranek, MD (Durham, NC); William J. Maloney, III, MD (Redwood City, CA)

4:23 pm – 4:32 pm  Discussion and Audience Questions

4:33 pm  Adjourn
AAOS Annual Meeting

Specialty Day is an integral part of the AAOS Annual Meeting. In addition to Specialty Day, the AAOS is delighted to be partnering with many orthopaedic specialty societies represented in the BOS to bring you co-branded Instructional Courses and Symposia presented at the 2020 Annual Meeting. The following societies are participating:

- American Association for Hand Surgery (AAHS)
- American Association of Hip and Knee Surgeons (AAHKS)
- American Orthopaedic Association (AOA)
- American Orthopaedic Foot and Ankle Society (AOFAS)
- American Orthopaedic Society for Sports Medicine (AOSSM)
- American Shoulder and Elbow Surgeons (ASES)
- American Society for Surgery of the Hand (ASSH)
- Arthroscopy Association of North America (AANA)
- Musculoskeletal Infection Society (MSIS)
- North American Spine Society (NASS)
- Orthopaedic Rehabilitation Association (ORA)
- Orthopaedic Research Society (ORS)
- Orthopaedic Trauma Association (OTA)
- Pediatric Orthopaedic Society of North America (POSNA)
- Ruth Jackson Orthopaedic Society (RJOS)
- The Hip Society (HS)
- The Knee Society (KS)

The Annual Meeting gives you exclusive access to:

- **1,000+ Posters** keeping you in the forefront of cutting-edge research globally
- **800+ Expert faculty** presenting the highest quality information about new and hot topics
- **650+ Industry Exhibits** providing you with resources and solutions to address your toughest cases
- **230+ ICLs** exposing you to in-depth learning that is vital to your ongoing success in practice
- **29.5 CME credits** allowing you to advance your career (beginning on Tuesday, March 24)
- **25 Symposia** giving you a balanced perspective on the most relevant topics in orthopaedics
- **Specialty Day**, offered by 13 Specialty Societies, featuring the latest updates in each field

Meeting Location
Orange County Convention Center, West Building
9800 International Drive
Orlando, Florida 32819

Quick Guide to Annual Meeting

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<td>Registration</td>
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<td>aaos.org/mymeeting</td>
<td>December 18, 2019</td>
<td>(844)529-3707 – U.S. and Canada</td>
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<tr>
<td>Registration</td>
<td>Advance Registration Deadline</td>
<td>(508)743-8504 – International</td>
</tr>
<tr>
<td>aaos.org/register</td>
<td>February 14, 2020</td>
<td>Email: <a href="mailto:AAOSMeeting@xpressreg.net">AAOSMeeting@xpressreg.net</a></td>
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<tr>
<td>Housing</td>
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<td>Housing Bureau – MCI USA</td>
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<tr>
<td>aaos.org/housing</td>
<td>February 14, 2020</td>
<td>(800)931-6026 – U.S. and Canada</td>
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<tr>
<td>Education</td>
<td>Housing Deadline</td>
<td>(972)349-5558 – International</td>
</tr>
<tr>
<td>aaos.org/ameducation</td>
<td>February 21, 2020</td>
<td>Email: <a href="mailto:aaos@mcievents.com">aaos@mcievents.com</a></td>
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<tr>
<td>Specialty Day</td>
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<td>aaos.org/specialtyday</td>
<td>Tuesday, March 24 – Saturday, March 28</td>
<td>(800)501-2303</td>
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<td>Exhibits</td>
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<td>aaos.org/exhibits</td>
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Hotel Reservations
Don’t let your first-choice hotel get away! Now is the time to secure a room at your favorite Orlando hotel. MCI USA and IGD, AAOS’ official housing providers, have secured the lowest rates at some of the best hotels Orlando has to offer.

AAOS rates are available only through the AAOS Housing Bureaus, MCI USA and IGD. Reservations are made on a first come, first served basis. Hotels closest (within walking distance) to the Orange County Convention Center, West Building fill quickly and do not have shuttle service so consider this when you make your reservations. Physician attendees may not obtain housing through industry exhibitors.

Simple and Secure Online Housing
Visit aaos.org/myhousing
Contact us:
Phone: (800)931-6026
Email: aaos@mci.events.com

Visit aaos-igd.com
Contact us:
Phone: (305)865-4648
Email: info@aaos-igd.com

Deposits
A one-night room/tax deposit is required for each room reserved. Your deposit is charged immediately to your credit card. This deposit is applied to your final bill upon checkout. If your confirmation indicates that a deposit was not charged to your credit card, the hotel will charge you for your full stay at checkout.

Confirmations
A confirmation is emailed within 72 hours (if not immediately) of making a reservation. If you do not have an email address, the confirmation is mailed to the address provided. If you do not receive a confirmation within three business days, contact the Housing Bureaus at aaos@mci.events.com / (800)931-6026 (US) or info@aaos-igd.com / (305)865-4648 (International).

Cancellations/Changes/Refunds: International
Deposits are currently nonrefundable. Total room block may be reduced up to 20% for a refund until January 24, 2020. Refunds will be processed within 60 days of the close of the event.

Changes can be requested through your assigned Meetings & Conventions Manager until February 24. After February 24, you will be introduced to an onsite manager who will process all changes and requests throughout the conference.

Cancellations/Changes/Refunds: US and Canada
Hotel cancellation policies vary – dates range from 72 hours to 5 days prior to arrival. Check your MCI USA hotel confirmation or visit the hotel’s website for more information. Failure to check-in on your confirmed date of arrival results in the forfeiture of your deposit.

• Before February 21, 2020: Can be made online or by calling MCI USA at (800)931-6026.

• After February 28, 2020: Cancel directly with the hotel. Forward the date, time, and hotel cancellation number to MCI USA (aaos@mci.events.com) and allow 4-6 weeks (after the meeting) for your refund to be processed.

• During the Meeting: Housing issues can be addressed at the AAOS Housing Desk located in Academy Hall C Lobby starting Monday at 2:00 PM.

Airport Shuttle
Mears Motor Shuttle provides convenient and affordable transportation between Orlando International Airport, your hotel and the Orange County Convention Center, West Building. Ticket costs vary according to hotel location and range between $22 to $39 one-way and roundtrip.

To make a reservation, book online at www.mears.com or call (800)759-5219 or (407)423-5566 and use Promo Code: 600724052.

Housing Alert!
You may receive phone calls or emails or see websites from groups offering to arrange your housing for the AAOS 2020 Annual Meeting in Orlando, Florida, March 24-28. Be advised that MCI USA and IGD are the only housing providers authorized to manage housing reservations on behalf of AAOS.

AAOS does not recommend that you provide any financial or personal information to or conduct business with these unaffiliated groups. If you choose to engage with these groups, you do so at your own risk. AAOS, MCI USA, and IGD will be unable to verify the authenticity of these transactions.

If you question the authenticity of an individual, group or website, please contact AAOS at amhousing@aaos.org.
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Select from a moderate or advanced path with a variety of targeted sessions covering the most current, relevant, and scientific knowledge and practices.

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- Adult Reconstruction Knee
- Foot and Ankle
- Hand and Wrist
- Musculoskeletal Oncology
- Pediatrics
- Shoulder and Elbow
- Spine
- Sports Medicine
- Trauma

Focus your time by choosing the Education Track that will propel your practice and heighten your mastery.

Education Tracks fill up quickly reserve your seat today at aaos.org/mymeeting.