Specialty Day Program

Saturday, March 16
Create a unique experience customized to your specialization and educational needs.

AAOS 2019 Annual Meeting
March 12 – 16, Las Vegas, Nevada
Exhibit Dates: March 13 – 15
Dear Colleagues:

On behalf of the AAOS’ Board of Specialty Societies (BOS), we are excited to host the 31st annual Specialty Day on Saturday, March 16, 2019 in Las Vegas.

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 Shoulder and Elbow Surgeons
- American Society for Surgery of the Hand/American Association for Hand Surgery
- Arthroscopy Association of North America/American Orthopaedic Society of Sports Medicine
- 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 Infection 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 2019 Specialty Day in Las Vegas.

Sincerely,

Amy L. Ladd, MD
Chair, Board of Specialty Societies

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REGISTRATION

3 Simple and Secure Ways to Register
AAOS Annual Meeting registration is required to participate in Specialty Day.

**ONLINE (Preferred)**
Visit [aaos.org/mymeeting](http://aaos.org/mymeeting)
Use our express registration page (fast, quick, easy)

**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)

**MAIL**
Complete the registration form at [aaos.org/mymeeting](http://aaos.org/mymeeting) and mail with payment to:
AAOS 2019 Annual Meeting
C/O Convention Data Services
7 Technology Park Dr, Bourne, MA 02532

**FAX**
Complete the registration form at [aaos.org/mymeeting](http://aaos.org/mymeeting) and fax with payment to (508)743-3600

When your registration is complete you will receive an email confirmation. You can continue to add courses to your registration account through the meeting.

**CANCELLATION POLICY**

**Registration Change or Cancellation Deadline: January 31, 2019**
To cancel your registration, selected courses, track package, or specialty day session, please submit your written request to [AAOSMeeting@xpressreg.net](mailto: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.

**NEW! BADGES AND TICKETS WILL NOT BE MAILED.**
Attendees must present an electronic or printed copy of their registration confirmation at the Check-In counters located in Hall G of the Venetian/Sands Expo.

**Hotel Satellite Check-in is available on Monday and Tuesday at the following hotels:**
- Venetian Lobby
- Aria Tour Bus Lobby
- Palazzo Lobby

For additional details please visit [aaos.org/register](http://aaos.org/register)

**NEW! Family Badge - Members Only**
One complimentary family badge per member. Defined as spouse, significant other, or immediate family member who is not an active orthopaedic professional. Members can pre-register for a family badge during online registration or obtain a badge on-site.

**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.
### American Orthopaedic Foot & Ankle Society (AOFAS)
Fee includes lunch

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### American Shoulder and Elbow Surgeons (ASES)

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### American Society for Surgery of the Hand/American Association of Hand Surgery (ASSH/AAHS)

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### Arthroscopy Association of North America/American Orthopaedic Society for Sports Medicine (AANA/AOSSM)

**SELECT ONLY ONE CATEGORY**
Arthroscopy Association of North America and American Orthopaedic Society for Sports Medicine present a combined full-day scientific program.
Fee includes a box lunch.

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### Limb Lengthening and Reconstruction Society (LLRS)

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### Musculoskeletal Infection Society (MSIS)

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### Musculoskeletal Tumor Society (MSTS)
Fee includes a box lunch.

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### Orthopaedic Trauma Association (OTA)

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### The Hip Society/The Knee Society/AAHKS
**SELECT ONLY ONE CATEGORY**
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.

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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.

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.

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

Accreditation
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.

Credit Hours
The American Orthopaedic Foot & Ankle Society (AOFAS) designates this live activity for a maximum of 8.25 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.
9:00 am – 10:00 am Paper Session 1: What a Pain

Moderator: Charles L. Saltzman, MD

9:00 am – 9:07 am Opioid Consumption Rate After Foot and Ankle Surgery

Peter Kvarda, MD; Noortje Hagemeijer, MD, MSc; Gregory R. Waryasz, MD; Daniel Guss, MD, MBA; Christopher W. DiGiovanni, MD; A. Holly Johnson, MD

9:07 am – 9:14 am Correlation Between Self-Reported Pain Tolerance and Opioid Pain Medication Use after Foot and Ankle Surgery

Laura E. Sokil, BS; Elizabeth McDonald, BA; Ryan G. Roeger, BS; Daniel J. Fuchs, MD; Steven M. Raikin, MD; Brian S. Winters, MD; David I. Pedowitz, MD, MS; Joseph N. Daniel, DO; Rachel J. Shakked Birns, MD

9:14 am – 9:21 am Conventional Ankle Sprain Treatment is Associated with Alarmingly High Rates of Persistent Opioid Use

Fred T. Finney MD, Timothy D. Gossett, MD; Hsou Mei Hu, PhD; Jennifer Waljee, MD; Chad Brummett, MD; David M Walton MD, Paul G Talusan, MD; James R. Holmes, MD

9:21 am – 9:28 am Postoperative Pain Management After Foot and Ankle Surgery Without and With Gabapentin: A Prospective Investigation

Jamal Ahmad, MD

9:30 am – 10:00 am Discussion

10:00 am – 10:30 am Presidential Address and Updates

J. Chris Coetzee, MD

10:00 am – 10:10 am Presidential Address

Bruce J. Sangeorzan, MD

10:10 am – 10:15 am Foundation Update

Scott J. Ellis, MD

10:15 am – 10:20 am Award Presentation

TBD

10:20 am – 10:35 am Break

10:35 am – 11:30 am Symposium 3: Cavus Foot

Moderator: Mark E. Easley, MD

10:35 am – 10:45 am What is the Real Utility of Tendon Transfers in Cavovarus?

Keith L. Wapner, MD

10:45 am – 10:55 am Progressive Cavovarus: Are Traditional Procedures Limiting?

Paul T. Fortin, MD

10:55 am – 11:05 am Change in Gait Pre- and Post-Correction: Are We Really Offloading the 5th metatarsal?

William C. McGarvey, MD

11:05 am – 11:30 am Discussion

11:30 am – 12:30 pm Paper Session 2: TBD

Moderator: Bruce J. Sangeorzan, MD

11:30 am – 11:37 am Distribution of High-Volume Ankle Arthroplasty Surgeons in United States Metropolitan Areas: Data from the 2012-15 Medicare Provider Utilization and Payment Release

Brandon Stein, MD; Jeremy Somerson, MD; Cory Janney, MD; Vinod K. Panchbhavi, MD, FACS

11:37 am – 11:44 am The Use of Three-Dimensional (3D) Biometric Measurements to Predict Additional Alignment Procedures in Total Ankle Replacement

Cesar de Cesar Netto, MD, PhD; Lauren E. Roberts, MD; Ashraf M. Fansa, MBBC; Meghan Newcomer, OPA-C; Guilherme H. Saito, MD; Jonathan T. Deland, MD; Scott J. Ellis, MD; Constantine A. Demetracopoulos, MD

11:44 am – 11:51 am A Comparison of Cyst Formation and Management in Mobile-Bearing and Fixed-Bearing Total Ankle Arthroplasty

James Lachman, MD; Michel A. Taylor, MD, MSc, BSc; Elizabeth Cody, MD; Daniel J. Scott, MD, MBA; James A. Nunley, MD; James K. DeOrio, MD; Mark E. Easley, MD

11:51 am – 11:58 am Restoration of Talar Height using a Modular Revision Prosthesis after Failed Total Ankle Arthroplasty

Brian D. Steginsky, DO; Steven L. Haddad, MD

11:58 am – 12:30 pm Discussion

12:30 pm – 1:20 pm Lunch and Business Meeting

12:30 pm – 12:45 pm Announcements and Interim Business Meeting

J. Chris Coetzee, MD

12:45 pm – 1:20 pm Box lunch

1:20 pm – 2:20 pm Symposium 4: Ankle Arthritis

Moderator: Emilio Wagner, MD

1:20 pm – 1:30 pm Ankle Arthritis in Your 20’s: The Sad Future

Scott J. Ellis, MD

1:30 pm – 1:40 pm The Deleterious Effects of Injection and Ostectomy: Simple Isn’t So Simple

W. Hodges Davis, MD

1:40 pm – 2:20 pm Osteotomy to Avoid Arthroplasty: C’mon, Man.

Alexej Barg, MD

1:50 pm – 2:20 pm Discussion
Combined Specialty Day Meeting
American Orthopaedic Foot & Ankle Society / Orthopaedic Trauma Association
Room 4101

2:30 pm – 4:45 pm

2:30 pm – 3:30 pm

Moderator: TBD

2:30 pm – 3:04 pm
The Only thing that Really Matters in the Lateral Column: Ignoring the Deltoid
Michael J. Gardner, MD

2:30 pm – 2:57 pm
The Only Thing That Really Matters is the Deltoid, The Consequences of a Limited Field of View
TBD

2:50 pm – 2:57 pm
OTA Paper: Posterior Malleolar Fixation Reduces the Need for Syndesmotic Screw Fixation in Rotational Ankle Injuries
Omar Behery, MD; Rajkishen Narayanan, MS; Abdullah Qatu, BS; Sanjit Konda, MD; Nirmal Tejwani, MD; Kenneth Egol, MD

2:57 pm – 3:04 pm
Fractures of The Tibial Plafond: Does the presence or absence of a fibular fracture predict future morbidity?
Henry Boateng, MD, MSc; Chinenye Nwachuku, MD; Kempland C. Walley, BSc; Justin W. Walker; Rhett MacNeille, MD; Paul Tornetta, MD; Spence Reid, MD

3:04 pm – 3:30 pm
Discussion and Cases

3:30 pm – 4:15 pm
The Cases: Hindfoot Trauma: I Hate Puzzles

Moderators: David Thordarson, MD (AOFAS) and Timothy G. Weber, MD (OTA)
Panelist
Brian Weatherford, MD (AOFAS)
Mark Glazebrook, MD (AOFAS)

3:30 pm – 3:40 pm
Trauma Case
TBD

3:40 pm – 3:50 pm
Foot & Ankle Case
Brian M. Weatherford, MD and Mark A. Glazebrook, MD, MSc, PhD

3:50 pm – 4:15 pm
Discussion

4:15 pm – 4:45 pm
The Debate: The Midfoot: Fix It or Fuse It. Are These Joints Essentially Nonessential?

Moderators: Donald R. Bohay, MD, FACS (AOFAS) and Clifford B. Jones, MD (OTA)

Fuse It:
J. Chris Coetzee, MD (AOFAS)

Fix It:
TBD (AOFAS)
Clifford B. Jones, MD (OTA)

Closing Remarks / Adjourn
8:00 am – 8:55 am Symposium I: Massive Cuff Case-Based Learning: 57-Year-Old with Massive Tear and 70 Degrees Elevation

8:00 am – 8:07 am Psuedoparalysis: Apples and Oranges
Robert T. Burks, MD

8:07 am – 8:14 am Technology over Reason: Partial Repair is All We Need
Mark D. Lazarus, MD

8:14 am – 8:21 am Transfer the Lat vs Trap!
Leesa M. Galatz, MD

8:21 am – 8:28 am SCR: Sort of Cuff Repair
Stephen S. Burkhart, MD

8:28 am – 8:35 am Reverse? Really!
Laurent Lafosse, MD

8:55 am – 9:15 am Panel Discussion and Questions
Joseph A. Abboud, MD

8:55 am – 9:00 am Paper Session I: Rotator Cuff

Paper #1
When Should We Repair Partial-Thickness Rotator Cuff Tears? Outcome Comparison Between Immediate Surgical Repair vs. Delayed Repair After 6-Month Period of Nonsurgical Treatment
Yang-Soo Kim, MD, PhD

Paper #2
Postoperative Recovery Comparisons of Latissimus Dorsi Transfer to Lower Trapezius Transfer for the Treatment of Massive Rotator Cuff Tears
Eric R. Wagner, MD, MSc

Paper #3
Outcome of Arthroscopically Assisted Lower Trapezius Transfer to Reconstruct Massive Irreparable Posterior-Superior Rotator Cuff Tears
Eric R. Wagner, MD, MSc

9:10 am – 9:15 am Discussion

9:15 am – 9:30 am Break
9:30 am – 10:15 am  Symposium II: Instability Case-Based Learning: 22-Year-Old with Sub-Critical Bone Defect and Recurrent Instability After Arthroscopic Stabilization

Moderators: Asheesh Bedi, MD, and Stephen A. Parada, MD

9:30 am – 9:37 am  Revision Arthroscopic Stabilization: Is It Even Worth Considering?
Felix H. Savoie, III, MD

9:37 am – 9:44 am  Back to the Future: Open Capsular Shift!
Brian R. Wolf, MD, MS

9:44 am – 9:51 am  The Answer is Obvious: Latarjet
Nikhil N. Verma, MD

9:51 am – 9:58 am  Technique Spotlight: Distal Tibia Allograft for Glenoid Reconstruction
Anthony A. Romeo, MD

9:58 am – 10:15 am  Panel Discussion and Questions
Asheesh Bedi, MD

10:15 am – 10:35 am  Paper Session II: Instability

Moderators: April D. Armstrong, MD, FRCSC, and Vani J. Sabesan, MD

Paper #4
10:15 am – 10:20 am  Latarjet Procedure Versus Iliac-Crest Bone Graft Transfer for Treatment of Anterior Shoulder Instability with Glenoid Bone Loss: A Prospective Randomized Trial
Philipp Moroder, MD

Paper #5
10:20 am – 10:25 am  Clinical and Radiological Outcomes After Arthroscopic Bankart Repair Using the All-Suture Anchors: Comparison with The Biodegradable Suture Anchors
Sang-Jin Shin, MD

Paper #6
10:25 am – 10:30 am  Effect of the Location of the Split of the Subscapularis on Range of Motion, Stability, and Contact Pressure in the Glenohumeral Joint Following Latarjet or Trillat Procedures
Geoffroy Nourissat, MD

10:30 am – 10:35 am  Discussion

10:35 am – 11:00 am  How-To Videos I: Shoulder

Moderators: William N. Levine, MD, and Robert Z. Tashjian, MD

10:35 am – 10:41 am  Massive Cuff: Tips for Mobilization
Ian K.Y. Lo, MD

10:41 am – 10:47 am  Arthroscopic Latissimus Transfer
Jean Kany, MD

10:47 am – 10:53 am  Arthroscopic Glenoid Bone Graft
Ivan Ho-Bun Wong, MD

10:53 am – 11:00 am  Discussion

11:00 am – 11:45 am  Symposium III: Reverse Arthroplasty: Expert Perspective on Critical Design Variables

Moderators: Matthew D. Saltzman, MD, and Thomas W. Wright, MD

11:00 am – 11:07 am  Lateral Glenoid Offset Is the Key
Mark A. Frankie, MD

11:07 am – 11:14 am  Glenoid Position is Paramount
Gregory P. Nicholson, MD

11:14 am – 11:21 am  Humeral Side: Neck-Shaft Angle and Offset: Where Should We Be?
George S. Athwal, MD, FRCSC

11:21 am – 11:28 am  Putting It All Together: Pre-Operative Planning Is the Key
T. Bradley Edwards, MD

11:28 am – 11:45 am  Panel Discussion and Questions
Matthew D. Saltzman, MD

11:45 am – 12:05 pm  Paper Session III: Arthroplasty

Moderators: Justin W. Griffin, MD, and Gerald R. Williams Jr, MD

Paper #7
11:45 am – 11:50 am  Lateralization and Attachment Site Affect Subscapularis Biomechanics After Reverse Shoulder Arthroplasty
Lawrence V. Gulotta, MD

Paper #8
11:50 am – 11:55 am  Outcomes of Total Shoulder Arthroplasty for Instability Arthropathy with a Prior Coracoid Transfer Procedure: A Retrospective Review and Comparative Cohort
T. Bradley Edwards, MD

Paper #9
11:55 am – 12:00 pm  One and Two-Year Clinical Outcomes for a Standard All-Polyethylene Glenoid Component with a Fluted Central Peg: Analysis of 1270 Individual Patients from 11 Different Centers
Jeremy S. Somerson, MD

12:00 pm – 12:05 pm  Discussion

12:05 pm – 12:10 pm  NEER AWARD PRESENTATION
Anthony A. Romeo, MD, President, 2017-2018

12:10 pm – 12:50 pm  Lunch
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<th>Time</th>
<th>Session</th>
<th>Paper #</th>
<th>Time</th>
<th>Presentation</th>
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<tbody>
<tr>
<td>12:50 pm – 1:25 pm</td>
<td>Symposium IV: Elbow Fractures: Bread and Butter Treatment Approaches</td>
<td>Moderators: Guido Marra, MD, and Joaquin Sanchez-Sotelo, MD, PhD</td>
<td>2:24 pm – 2:31 pm</td>
<td>Subscap Reconstruction: Pec or Lat? Bassem T. Elhassan, MD</td>
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<tr>
<td>12:50 pm – 12:57 pm</td>
<td>Radial Head Fracture: When to Repair and When to Replace</td>
<td>Mark E. Baratz, MD</td>
<td>2:31 pm – 2:38 pm</td>
<td>Recalcitrant Scapular Dyskinesis: When and How I Fix W. Benjamin Kibler, MD</td>
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<tr>
<td>12:57 pm – 1:04 pm</td>
<td>Terrible Triad: How I Fix This</td>
<td>Matthew L. Ramsey, MD</td>
<td>2:38 pm – 2:45 pm</td>
<td>Panel Discussion and Questions</td>
</tr>
<tr>
<td>1:04 pm – 1:11 pm</td>
<td>Capitellum OCD: From Scope to Open</td>
<td>Felix H. Savoie, III, MD</td>
<td>2:45 pm – 3:05 pm</td>
<td>Paper Session V: Miscellaneous</td>
</tr>
<tr>
<td>1:11 pm – 1:18 pm</td>
<td>Olecranon Fractures: From Simple to Complex</td>
<td>Anand M. Murthi, MD</td>
<td>2:45 pm – 3:00 pm</td>
<td>Moderators: Grant E. Garrigues, MD, and Adam J. Seidl, MD</td>
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<tr>
<td>1:18 pm – 1:25 pm</td>
<td>Panel Discussion and Questions</td>
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<td>2:50 pm – 2:55 pm</td>
<td>The Determination of Interobserver and Intraobserver Reliability of a Magnetic Resonance Imaging Based Classification System for Ulnar Collateral Ligament Injury Mark S. Schickendantz, MD</td>
</tr>
<tr>
<td>1:25 pm – 1:45 pm</td>
<td>Paper Session IV: Elbow Moderators: E. Scott Paxton Jr., MD, and Matthew L. Ramsey, MD</td>
<td></td>
<td>2:55 pm – 3:00 pm</td>
<td>Preoperative Evaluation of Spinoglenoid Ganglion Cyst with MRI, EMG and Isokinetic Muscle Test: Does Size Matter? Joo Han Oh, MD</td>
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<tr>
<td>Paper #10</td>
<td>Joint Contact Changes with Under-Sized Prosthetic Radial Heads Shawn W. O’Driscoll, PhD, MD</td>
<td></td>
<td>3:00 pm – 3:05 pm</td>
<td>Development and Validation of a Risk Calculator for Prolonged Opioid Use After Shoulder Surgery David Kovacevic, MD</td>
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<tr>
<td>Paper #11</td>
<td>Prevention of Post-Traumatic Elbow Stiffness Using Botulinum Toxin Henrik Constantin Baecker, MD</td>
<td></td>
<td>3:05 pm</td>
<td>Meeting Adjourns</td>
</tr>
<tr>
<td>Paper #12</td>
<td>Counterforce Bracing of Lateral Epicondylitis: A Prospective, Randomised, Double Blinded, Placebo Controlled Clinical Trial Martin Krosliak, MBBS, MS</td>
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<tr>
<td>1:45 pm – 2:10 pm</td>
<td>How-To Videos II: Complex Shoulder Moderators: Frank A. Cordasco, MD, MS, and Russell F. Warren, MD</td>
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<tr>
<td>1:45 pm – 1:51 pm</td>
<td>Lat Transfer with Reverse Robert Z. Tashjian, MD</td>
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<td>1:51 pm – 1:57 pm</td>
<td>Peri-Prosthetic Humeral Fracture Scott P. Steinmann, MD</td>
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<tr>
<td>1:57 pm – 2:03 pm</td>
<td>SC Joint Reconstruction Edwin E. Spencer, Jr., MD</td>
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<td>2:03 pm – 2:10 pm</td>
<td>Discussion</td>
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<tr>
<td>2:10 pm – 2:45 pm</td>
<td>Symposium V: AC Joint, Biceps and Everything Else! Moderators: Peter N. Chalmers, MD, and Michael T. Freehill, MD</td>
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<tr>
<td>2:10 pm – 2:17 pm</td>
<td>AC Joint Reconstruction: Don’t Forget the AC Ligaments Peter J. Millett, MD</td>
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<tr>
<td>2:17 pm – 2:24 pm</td>
<td>Long Head Biceps: Where Should I Tenodese? TBD</td>
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**Description:**
With the fast-paced changes occurring in orthopaedics, anyone treating hand and upper extremity problems needs to know what treatments work best for their patients. This symposium offers time-tested techniques and evidence-based solutions for dealing with a myriad of acute injuries and chronic pathology affecting the upper extremity, including fractures and soft tissue injuries, peripheral nerve problems, and arthritis about the hand and wrist.

**Learning Objectives:**
The objective of this course is to provide the most current yet practical approach to the most common conditions facing practicing hand surgeons.

Upon completion of the course the learner will be confident in approaching everything from trauma including boney and soft tissue injury to managing arthritis of the hand and wrist.

In addition the course will offer an update on “what every hand surgeon should know about less commonly encountered conditions such as pediatric trauma and vascular disorders.

**Credit Hours**
8.5 AMA PRA Category 1 Credits™

**David S. Ruch, MD**, Program Co-Chair  
**David R. Steinberg, MD**, Program Co-Chair

<table>
<thead>
<tr>
<th>Time</th>
<th>Session I – Extensor and Flexor Tendon Injuries</th>
<th>Session II – Nerve Injuries</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 am</td>
<td><strong>Moderator: Donald H. Lee, MD</strong></td>
<td>Moderator: Jaimie T. Shores, MD</td>
</tr>
</tbody>
</table>
| 7:30 am  | Introductions                                  | Carpal Tunnel Syndrome: Should We Start or Stop Doing Endoscopic Releases?  
**Robert J. Strauch, MD** |
| 7:35 am  | How WALANT is Changing Hand Surgery           | I Have a Patient with Cubital Tunnel Syndrome: What the Evidence Tells Me to Do  
**Ryan Garcia, MD** |
| 7:45 am  | Mallet Fingers: When I Recommend Surgery       | When Do I Perform a Direct Nerve Repair and Tips to Getting It Right  
**John D. Lubahn, MD, FACS** |
| 7:55 am  | Saggital Band Injuries “How I Approach Acute and Chronic Injury”  
**Ghazi M. Rayan, MD** |
| 8:05 am  | My Approach to Zone 1 and Zone 2 Flexor Tendon Injuries: How Do I Do It and Why!  
**Fraser J. Leversedge, MD** |
| 8:25 am  | What Are My Top Three Options for Coverage of Soft Tissue Defects in the Hand?  
**Marc J. Richard, MD** |
| 8:35 am  | The Approach to Vascular Disease of the Hand: What Every Hand Surgeon Should Know  
**William C. Pederson, MD, FACS** |
| 8:45 am  | Mass Wisdom and Q&A                            | When Do I Decide That a 2-Stage Repair is Going to be Successful and When Do I Salvage?  
**Martin I. Boyer, MD, FRCS(C)** |
| 8:55 am  | BREAK                                          | Role of Supercharging a Nerve Repair  
**Jaimie T. Shores, MD** |
| 9:00 am  | Spontaneous AIN and PIN Palsy: Should They be Managed Differently?  
**Peter M. Murray, MD** |
| 9:40 am  | When is an Allograft Indicated? Is Auto graft Used Anymore?  
**Jaimie T. Shores, MD** |
| 9:50 am  | Nerve Transfers for Brachial Plexus Injuries  
**Amy M. Moore, MD** |
| 10:00 am| Update on Improving Results of Primary Nerve Repair – Have We Gotten Better?  
**TBD** |
| 10:00 am| What is the Role for Targeted Muscle Reanimation?  
**R. Glenn Gaston, MD** |
| 10:50 am| Key Note Address: What is the Role of Hand Transplant Now and in the Future?  
**L. Scott Levin, MD, FACS and W. P. Andrew, Lee, MD** |
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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Moderator</th>
<th>Time</th>
<th>Session</th>
<th>Moderator</th>
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<tbody>
<tr>
<td>11:10 am – 11:20 am</td>
<td>Mass Wisdom and Q&amp;A</td>
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<td>2:50 pm – 3:00 pm</td>
<td>Mass Wisdom and Q&amp;A</td>
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<tr>
<td>11:20 am – 12:20 pm</td>
<td>LUNCH</td>
<td></td>
<td>3:00 pm – 3:15 pm</td>
<td>BREAK</td>
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<tr>
<td>12:20 pm – 2:10 pm</td>
<td><strong>Session III – Fractures</strong></td>
<td><strong>Moderator:</strong> John V. Ingari, MD</td>
<td><strong>Session V – Wrist Instability and Arthritis</strong></td>
<td><strong>Moderator:</strong> David J. Bozentka, MD</td>
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<tr>
<td>12:20 pm – 12:30 pm</td>
<td>Acute PIP Fractures: When Do I Open and When Do I Ex Fix?</td>
<td>Randip R. Bindra, FRCS, MCh Orth</td>
<td>3:15 pm – 3:25 pm</td>
<td>What Works for Acute SL Tears?</td>
<td>Michael J. Sandow, BMBS, FRACS, FAOrthA</td>
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<tr>
<td>12:30 pm – 12:40 pm</td>
<td>Hemi Hamate Grafts: When are They Indicated and When are They Not?</td>
<td>Peter J. Stern, MD</td>
<td>3:25 pm – 3:35 pm</td>
<td>What Works for Chronic SL Tears?</td>
<td>Andrea Atzei, MD</td>
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<tr>
<td>12:40 pm – 12:50 pm</td>
<td>Proximal Phalanx Fractures: How I Achieve a Good Result</td>
<td>Douglas P. Hanel, MD</td>
<td>3:35 pm – 3:45 pm</td>
<td>How I Approach Midcarpal Instability</td>
<td>Alexander Y. Shin, MD</td>
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<tr>
<td>12:50 pm – 1:00 pm</td>
<td>Metacarpal Neck Fractures: When are Pins Not Enough?</td>
<td>Marc J. Richard, MD</td>
<td>3:45 pm – 3:55 pm</td>
<td>Is There Anything Short of a Fusion That Will Work for an LT with VISI?</td>
<td>Marco Rizzo, MD</td>
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<tr>
<td>1:00 pm – 1:10 pm</td>
<td>Metacarpal Shaft Fractures: When I Pin and When I Plate</td>
<td>Mihir J. Desai, MD</td>
<td>3:55 pm – 4:05 pm</td>
<td>CMC Arthritis: Do I Still do an LRTI?</td>
<td>Sanjeev Kakar, MD, FAOA</td>
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<tr>
<td>1:10 pm – 1:20 pm</td>
<td>Scaphoid Fractures: What has Changed in 20 Years</td>
<td>T. Greg Sommerkamp, MD</td>
<td>4:05 pm – 4:15 pm</td>
<td>Anchor, Suture, or Tendon - Do They Work Long Term?</td>
<td>Amy L. Ladd, MD</td>
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<tr>
<td>1:20 pm – 1:30 pm</td>
<td>How to Approach and Graft and Heal a Scaphoid Nonunion Without a Vascularized Graft</td>
<td>Brian D. Adams, MD</td>
<td>4:15 pm – 4:25 pm</td>
<td>CMC Arthroplasty: Is There an Advantage to Replacement?</td>
<td>Scott W. Wolfe, MD</td>
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<tr>
<td>1:30 pm – 1:40 pm</td>
<td>Distal Radius Fractures: The Evidence Supports Pins, so Why Plate?</td>
<td>David C. Ring, MD, PhD</td>
<td>4:25 pm – 4:35 pm</td>
<td>My CMC Procedure Failed! What Should I Do?</td>
<td>Dean G. Sotereanos, MD</td>
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<td>1:40 pm – 1:50 pm</td>
<td>Distal Radius Fractures: When is a Volar Plate Not Enough?</td>
<td>Jesse B. Jupiter, MD</td>
<td>4:35 pm – 4:45 pm</td>
<td>What is the Role of Arthroscopy in Wrist Arthritis?</td>
<td>A. Lee Osterman, MD</td>
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<tr>
<td>1:50 pm – 2:00 pm</td>
<td>Pediatric Hand Fractures: Avoid Getting Burned</td>
<td>Peter M. Waters, MD</td>
<td>4:45 pm – 4:55 pm</td>
<td>I Have a SLAC Wrist: How Do I Want I Treated?</td>
<td>A. Lee Osterman, MD</td>
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<tr>
<td>2:00 pm – 2:10 pm</td>
<td>Mass Wisdom and Q&amp;A</td>
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<td>5:05 pm – 5:15 pm</td>
<td>Is There a Future for Resurfacing?</td>
<td>TBD</td>
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<tr>
<td>2:10 pm – 3:00 pm</td>
<td><strong>Session IV – DRUJ Injury and Arthritis</strong></td>
<td><strong>Moderator:</strong> Nikolas H. Kazmers, MD, MSE</td>
<td>5:15 pm – 5:25 pm</td>
<td>Mass Wisdom and Q&amp;A</td>
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<tr>
<td>2:10 pm – 2:20 pm</td>
<td>Acute TFCC Injuries: How I Fix Them and Rehab Protocol</td>
<td>Jeffrey Yao, MD</td>
<td>5:25 pm – 5:30 pm</td>
<td>Closing Comments and Adjournment</td>
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<tr>
<td>2:20 pm – 2:30 pm</td>
<td>Chronic TFCC Tears: When Does a Repair Become a Reconstruction?</td>
<td>David M. Brogan, MD, MSc</td>
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<td>2:30 pm – 2:40 pm</td>
<td>DRUJ Arthritis: Does Darrach vs. Sauve Kapandje vs. Arthroplasty? How I Choose</td>
<td>Mark E. Baratz, MD</td>
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<td>2:40 pm – 2:50 pm</td>
<td>Salvage of the DRUJ: A Time for Prosthesis and a Time for a One Bone Forearm</td>
<td>Douglas P. Hanel, MD</td>
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Plan your education and register today at aaos.org/my meeting
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 AANA/AOSSM Specialty Day 2019 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.

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 Arthroscopy Association of North America (AANA) and American Orthopaedic Society for Sports Medicine (AOSSM) 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 American Orthopaedic Society for Sports Medicine (AOSSM) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. The AOSSM designates this live activity for a maximum of 7.50 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Continuing Education Credit For Athletic Trainers
The American Orthopaedic Society for Sports Medicine (AOSSM) is recognized by the Board of Certification, Inc. to offer continuing education for Certified Athletic Trainers.

This program is eligible for a maximum of 7.50 Category A hours/CEUs. ATs should claim only those hours actually spent in the educational program.

Disclosure Statement
In accordance with the guidelines of the ACCME, it is the policy of the AOSSM that faculty and planners disclose to the learners all financial relationships during the past twelve months with any commercial interest (any entity producing, marketing, re-selling, or distributing healthcare goods and services consumed by, or used on, patients). Any and all disclosures will be provided in the final program that is distributed at the meeting. In accordance with AOSSM policy, faculty participation is predicated upon timely submission and review of AOSSM disclosures. Non-compliance results in faculty begin stricken from the program.

Disclaimer
The material presented in this continuing medical education program is being made available by ANNA and AOSSM for educational purposes only. 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 its Committees, Commission or Affiliates. AOSSM makes 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
Kevin F. Bonner, MD; AANA Education Chair
Matthew T. Provenceher, MD; AOSSM Program Chair

Welcome
Louis F. McIntyre, MD
AANA President
Neal S. ElAttrache, MD
AOSSM President

7:05 am – 8:15 am

Session I: Shoulder Instability/Labrum

Moderators:
Jo A. Hannafin, MD, PhD
Brian R. Waterman, MD

Paper 01
7:05 am – 7:10 am
Minority Patients Have a Higher Number of Shoulder Dislocations and More Frequent Cartilage Lesions: Data from the MOON – Shoulder Instability Group
Carolyn M. Hettrich, MD, MPH1*, Anthony J. Zacharias, MD2*, Shannon Ortiz3, Kevin J. Cronin, MD2*, Shoulder Group MOON4, Brian R. Wolf, MD, MS5, Cale A. Jacobs, PhD6.* 1Kentucky Clinic, Lexington, KY, 2University of Kentucky, Lexington, KY, 3University of Iowa, Iowa City, IA, 4University of Iowa Hospitals and Clinics, Iowa City, IA.
7:10 am – 7:15 am  Arthroscopic Soft Tissue Stabilization for Traumatic Anterior Shoulder Instability in Elite Collision Athletes
Hoshika Shota, MD, Hiroyuki Sugaya, MD, Norimasa Takahashi, MD, Keisuke Matsuki, MD, PhD, Morihito Tokai, MD, Yusuke Ueda, MD, Hiroshi Higama, MD.
Sports Medicine & Joint Center, Funabashi Orthopaedic Hospital, Funabashi, Japan.

7:15 am – 7:20 am  Questions and Answers

7:20 am – 7:26 am  The Operative vs Non-operative Conundrum of a Shoulder Dislocation: What’s the Evidence?
John M. Tokish, MD

7:26 am – 7:32 am  How to Improve Outcomes of Arthroscopic Instability Repairs – My Best Pearls
Anthony A. Romeo, MD

7:32 am – 7:38 am  Arthroscopic Remplissage
John D. Kelly, MD

7:38 am – 7:44 am  How I Do it – Open Shoulder Stabilization
Robert A. Arciero, MD

7:44 am – 7:50 am  How I do it – Open Latarjet
Matthew T. Provencher, MD

7:50 am – 8:00 am  Questions and Answers

8:00 am – 8:15 am  The Case: Shoulder Instability – I Fixed it by Scope and Then Nine Months Later it Failed…. Moderators: William N. Levine, MD Panelists: Robert A. Arciero, MD; John D. Kelly, MD; Matthew T. Provencher, MD; Anthony A. Romeo, MD; John M. Tokish, MD

8:15 am – 8:55 am  Session II: Shoulder Biceps/Scapula/AC Joint

8:15 am – 8:21 am  The Long Head of the Biceps – Is this a Pain Generator or an Overrated Piece of Rope – How to Figure This Out?
Mark H. Getelman, MD

8:21 am – 8:27 am  The Unstable AC Joint – Not Just a Vertical Problem and How I Fix This
Stephen F. Brockmeier, MD

8:27 am – 8:35 am  Rehabilitation Considerations for the Shoulder – from Labrum to Biceps Postoperatively. What You and Your Therapist Need to Know!
Kevin E. Wilk, PT, DPT

8:35 am – 8:47 am  DEBATE: Do the Tenodesis My Way!

8:35 am – 8:41 am  Arthroscopic Suprapectoral Biceps Tenodesis
Larry D. Field, MD

8:41 am – 8:47 am  Subpectorall Biceps Tenodesis
Nikhil N. Verma, MD

8:47 am – 8:55 am  Questions and Answers

8:55 am – 9:01 am  Break

9:01 am – 10:00 am  Session III: Rotator Cuff

Paper 03

9:01 am – 9:06 am  Radiostereometric Analysis of Subpectoral vs. Suprapectoral Biceps Tenodesis with Interference Screw Fixation
Richard N. Puzzitiello, Avinesh Agarwala, Joseph N. Liu, MD, Gregory L. Cvetanovich, MD, Anirudh K. Gowd, Brian J. Cole, MD, MBA, Anthony A. Romeo, MD, Nikhil N. Verma, MD, Brian Forsythe, MD.

9:06 am – 9:11 am  Five-year Follow-up of Arthroscopic Superior Capsule Reconstruction for Irreparable Rotator Cuff Tears
Teruhisa Mihata, MD, PhD, Thay Q. Lee, PhD, Akihiko Hasegawa, MD, PhD, Kunimoto Fukunishi, MD, Takeshi Kawakami, MD, PhD, Yukitaka Fujisawa, MD, Yasuo Itami, MD, Mutsumi Ohue, MD, Masashi Neo, MD, PhD.

9:11 am – 9:16 am  Questions and Answers

9:16 am – 9:22 am  My Five Arthroscopic Cuff Repair Tips to Make Your Life Simple
Kevin F. Bonner, MD

9:22 am – 9:28 am  How I Do it: Large to Massive Cuff Tear – How to Get this Right
Felix H. Savoie, MD

9:28 am – 9:34 am  How I Do it: Biologics for the Cuff – What’s the Highest-Level Evidence Say?
Alison P. Toth, MD

9:34 am – 9:40 am  How I Do it: My Tricks for a Superior Capsular Reconstruction
Stephen B. Burkhart, MD

9:40 am – 9:45 am  Questions and Answers
9:45 am – 10:00 am  Case: A 51-year-old with a Failed Large-to-Massive Cuff Tear  
**Moderator:** Robert T. Burks, MD  
**Panelists:** Jeffrey S. Abrams, MD; Stephen S. Burkhardt, MD; Jorge Chahla, MD, PhD; Kevin D. Plancher, MD; Felix H. Savoie, MD; Alison P. Toth, MD  

10:00 am – 11:20 am  Session IV: Knee and Sports  
**Moderators:**  
Sandeep Mannava, MD, PhD  
Kurt P. Spindler, MD  

Paper 05  
10:00 am – 10:05 am  The Associations of Early Sport Specialization and Training Volume with Injury Rates in NCAA Division I Athletes  
**Seth Ahlquist, BS**, Brian Michael Cash, MD, Sharon L. Hame, MD.  
1David Geffen School of Medicine at UCLA, Los Angeles, CA, USA, 2UCLA Department of Orthopaedic Surgery, Santa Monica, CA, USA, 3UCLA Dept. of Ortho. Surgery, Los Angeles, CA, USA.  

Paper 06  
10:05 am – 10:10 am  Blood Flow Restriction Therapy Preserves Whole Limb Bone and Muscle Following ACL Reconstruction  
**Bradley Lambert, PhD**, Corbin A. Hedt, DPT, Robert A. Jack, MD, Michael Moreno, PhD, Domsenica Delgado, BS, Joshua David Harris, MD, Patrick C. McCulloch, MD.  
1Houston Methodist Hospital, Houston, TX, USA, 2Texas A&M University, Houston, TX, USA, 3Houston Methodist Hospital - Houston, TX, USA.  

Paper 07  
10:10 am – 10:15 am  Bridge-enhanced ACL Repair: Two-year Results of the First in Human Study  
**Martha M. Murray, MD**, Leslie Kalish1, Braden C. Fleming, PhD2, Brett Flutie3, Laura Thurer1, Christina Freiberger1, Rachael Henderson1, Gabriel Perrone1, Benedikt Proffen, MD3, Dennis E. Kramer, MD1, Yi-Meng Yen, MD2, Lyle J. Micheli, MD1.  
1Boston Children’s Hospital, Boston, MA, USA, 2Bioengineering Labs, Providence, RI, USA.  

10:15 am – 10:20 am  Questions and Answers  

10:20 am – 10:26 am  Can We Truly Prevent an ACL Tear?  
**Timothy E. Hewett, PhD, FACSM**  

10:26 am – 10:32 am  What Autograft is Best for YOUR Patient – and How I Choose.  
**Lars Engebretsen, MD, PhD**  

10:32 am – 10:46 am  DEBATE: Do Your ACL Reconstruction MY WAY!  

10:32 am – 10:39 am  Retrograde Drilling ACL Reconstruction  
**Robin Vereeke West, MD**  

10:39 am – 10:46 am  Medial Portal ACL Reconstruction – Easy and Reproducible  
**Asheesh Bedi, MD**  

10:46 am – 10:52 am  How I Do it: Quadriceps Tendon Reconstruction  
**Charles A. Bush-Joseph, MD**  

10:52 am – 10:58 am  How I Do it: PCL Reconstruction – How I Make It Reproducible  
**Bruce A. Levy, MD**  

10:58 am – 11:04 am  Questions and Answers  

11:04 am – 11:20 am  The Case: I Did an ACLR Two Years Ago, but Now has Recurrent Instability after Stepping Off a Curb  
**Moderator:** Laith M. Jazrawi, MD  
**Panelists:** Asheesh Bedi, MD; Charles A. Bush-Joseph, MD; Lars Engebretsen, MD, PhD; Timothy E. Hewett, PhD, FACSM; Bruce A. Levy, MD; Robin Vereeke West, MD  

11:20 am – 11:55 am  Kennedy Lecture  

11:25 am – 11:55 am  Introduction of Kennedy Lecture  
**Neal S. ElAttrache, MD, President AOSSM**  

11:55 am – 12:05 pm  Lunch Break  
A box lunch is included with your registration fee.  

12:05 pm – 12:36 pm  Session V: Knee Ligament/Patella Instability  
**Moderators:**  
Julie A. Dodds, MD  
Bert R. Mandelbaum, MD  

12:05 pm – 12:11 pm  Uncovering the Dark Side of the Knee – Dealing with PLC Injuries  
**Robert F. LaPrade, MD, PhD**  

12:11 pm – 12:17 pm  ACL Augmentation: ALL (Anterolateral Ligament) or the ITB (Iliotibial Band) – Science or Science Fiction?  
**Alan M. Getgood, MD, FRCS (Tr&Orth)**  

12:17 pm – 12:20 pm  Patella Instability with Dysplasia: My Surgical Algorithm  
**Elizabeth A. Arendt, MD**  

12:20 pm – 12:26 pm  MPFL vs MQTFL: What I Do and Why  
**Andrew J. Cosgarea, MD**  

12:26 pm – 12:36 pm  Questions and Answers  

12:36 pm – 12:46 pm  Break
**Session VI: Knee Cartilage, Meniscus and Biologics**

**Moderators:**
Robert E. Hunter, MD  
Aaron J. Krych, MD

12:46 pm – 12:51 pm  
**Paper 08**

**Accuracy and Reliability of the Visual Assessment of Patellar Tracking**  
Matthew Best, MD, Miho Jean Tanaka, MD, Shadpour Demehri, MD, Andrew J. Cosgarea, MD  
1Johns Hopkins University, Baltimore, MD, USA, 2Johns Hopkins Sports Medicine Center, Lutherville, MD, USA.

12:51 pm – 12:56 pm  
**Paper 09**

**Return to Sport and Patient Satisfaction Following Concomitant High Tibial Osteotomy and Osteochondral Allograft Transplantation**  
Joseph N. Liu, MD, David R. Christian, BS, Avinash Agarwalla, BS, Grant H. Garcia, MD, Michael L. Redondo, MA, BS, Adam Blair Yanke, MD, PhD  
Brian J. Cole, MD, MBA  
1Rush University Medical Center, Chicago, IL, USA, 2Midwest Orthopaedics at Rush, Chicago, IL, USA.

12:56 pm – 1:01 pm  
**Questions and Answers**

1:01 pm – 1:07 pm  
**Meniscus and Cartilage Injuries on MRI – What You Need to Know**  
Hollis G. Potter, MD

1:07 pm – 1:13 pm  
**Root Tears: How to Do This Reliably and in Whom?**  
Nicholas A. Sgaglione, MD

1:13 pm – 1:19 pm  
**Fixing Meniscus Tears You Didn’t Think Could Heal**  
Louis F. McIntyre, MD

1:19 pm – 1:25 pm  
**Surgical Decision Making for Symptomatic Defects**  
Brian J. Cole, MD, MBA

1:25 pm – 1:37 pm  
**DEBATE: I am Going to Tell You What is BEST for Cartilage Surgery!**

1:25 pm – 1:31 pm  
**Surface Cartilage Treatments are the Way to Go**  
Craig H. Bennett, MD

1:31 pm – 1:37 pm  
**Osteochondral Grafts are Most Reliable**  
William Bugbee, MD

1:37 pm – 1:43 pm  
**Osteochondral Allografts from the Condyle to the Patella: My Technical Pearls**  
James P. Bradley, MD

1:43 pm – 1:49 pm  
**When Do You Need an Osteotomy and How to Do It?**  
Andreas H. Gamoll, MD

1:49 pm – 1:55 pm  
**Biologics for the Knee – From Early OA to Tissue Repair – What to Do?**  
Scott A. Rodeo, MD

1:55 pm – 2:05 pm  
**Questions and Answers**

2:05 pm – 2:11 pm  
**Pears for Taking Care of High School, College, Professional Athletes and Weekend Warriors – My Lessons Learned**  
Walter R. Lowe, MD

2:11 pm – 2:17 pm  
**Nutratechicals, Powders and Wine – What Works to Keep Me in the Game**  
Eric C. McCarty, MD

2:20 pm – 2:30 pm  
**Prospective Randomized Comparison of Capsule Management Techniques During Hip Arthroscopy**  
Kostas John Economopoulos, MD  
Christopher Y. Kweon, MD  
1The Orthopaedic Clinic Association, Phoenix, AZ, USA, 2University of Washington, Seattle, WA, USA.

2:30 pm – 2:35 pm  
**Predictors of Persistent Postoperative Pain at Minimum Two Years after Arthroscopic Treatment of Femoroacetabular Impingement**  
Austin V. Stone, MD, PhD, Philip Malloy, William H. Neal, Edward Beck, Brian Robert Waterman, MD, Charles A. Bush-Joseph, Shane Jay Nho, MD, MS  
1Department of Orthopedic Surgery, Rush University Medical Center, Chicago, IL, USA, 2Wake Forest University School of Medicine, Winston Salem, NC, USA.

2:35 pm – 2:41 pm  
**Questions and Answers**

2:41 pm – 2:47 pm  
**When to Pull the Trigger on FAI Operative Treatment and How to Do It**  
JW Thomas Byrd, MD

2:47 pm – 2:53 pm  
**How to Set-up and Do Hip Arthroscopy – Five Simple Steps**  
Benjamin G. Domb, MD

2:53 pm – 2:59 pm  
**Labrum Repair – All My Tricks**  
Bryan T. Kelly, MD

2:59 pm – 3:05 pm  
**Labrum Reconstruction – How I Do It**  
Marc J. Philippon, MD

3:05 pm – 3:15 pm  
**Questions and Answers**

3:15 pm – 3:15 pm  
**Adjourn – See you in Orlando!**  
March 28, 2020
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.

General Information

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.

Program Chairs

ASIA: Jacob M. Buchowski, MD and Addisu Mesfin, MD
CSRS: Michael C. Gerling, MD
NASS: John G. Finkenberg, MD and Zoher Ghogawala, MD, FACS
SRS: Douglas C. Burton, MD and Suken A. Shah, MD

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.

Accreditation

Credit Hours
7.0 AMA PRA Category 1 Credits™.

8:00 am – 8:05 am  Welcome and Report of the President
Douglas C. Burton, MD, President

8:05 am – 9:50 am  Section I – Scoliosis Research Society

Moderators: Ronald A. Lehman Jr., MD and Suken A. Shah, MD

8:05 am – 8:08 am  Introduction
Ronald A. Lehman Jr., MD and Suken A. Shah, MD

8:08 am – 8:14 am  Non Operative Treatment for Pediatric Scoliosis: An Update
Suken A. Shah, MD

8:14 am – 8:22 am  Operative Treatment for Pediatric Scoliosis: Current Concepts and Innovations
Burt Yasay, MD

8:22 am – 8:40 am  Pediatric Deformity Roundtable: Case Presentations of Key Principles
James O. Sanders, MD; Paul D. Sponseller, MD; Matthew Oetgen, MD, MBA

8:40 am – 8:48 am  When Does an Adult Degenerative Spine Case Become a Deformity Case?
Todd J. Albert, MD

8:48 am – 8:56 am  Highlights of Preoperative Planning for Complex Adult Spinal Deformity
Rajiv K. Sethi, MD

8:56 am – 9:16 am  Debate on the Decision Tree and Technique of Sagittal Plane Reconstruction in Adult Spinal Deformity (With Particular Attention to the Interbody Space)

1. Posterior Only Deformity Correction with PCO & TLIF
Han Jo Kim, MD

2. Lateral Reconstruction with LIF & OLIF
Neel Anand, MD

3. Anterior Interbody Reconstruction – MIS or Open
Gregory J. Mundis, MD

4. Debate Summary, Key Points and My Preferred Technique
Douglas C. Burton, MD

Ronald A. Lehman Jr., MD

9:25 am – 9:50 am  Adult Spinal Deformity Case Presentations (With Emphasis on Prevention/Management of Complications)
Todd J. Albert, MD; Neel Anand, MD; Han Jo Kim, MD; Eric O. Klineberg, MD; Gregory J. Mundis, MD

9:50 am – 10:15 am  Break

Federation of Spine Associations

American Spinal Injury Association
Cervical Spine Research Society
North American Spine Society
Scoliosis Research Society
### Section II – Cervical Spine Research Society

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
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<tbody>
<tr>
<td>10:15 am – 11:40 am</td>
<td>Moderator: Michael C. Gerling, MD</td>
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<tr>
<td>10:15 am – 11:40 am</td>
<td>CSRS “ON-CALL”</td>
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<tr>
<td>10:15 am – 10:20 am</td>
<td>Introduction</td>
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<tr>
<td>10:20 am – 10:30 am</td>
<td>Introduction to Common Presentations and Work Up of Symptomatic Cervical Lesions</td>
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<tr>
<td>10:30 am – 10:45 am</td>
<td>Treatment of Metastatic Cervical Tumors</td>
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<td>10:45 am – 11:00 am</td>
<td>Treatment of Primary Cervical Tumors</td>
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<td>11:00 am – 11:15 am</td>
<td>Cervical Epidural Abscess and Infection</td>
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<td>11:15 am – 11:30 am</td>
<td>Optimization and the Compromised Patient with Acute Myelopathy</td>
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<tr>
<td>11:30 am – 11:40 am</td>
<td>Panel Discussion</td>
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<tr>
<td>11:40 am – 1:00 pm</td>
<td>Lunch</td>
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### Section III – North American Spine Society

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<tr>
<th>Time</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1:00 pm – 2:40 pm</td>
<td>Moderators: John G. Finkenberg, MD and Zoher Ghogawala, MD, FACS</td>
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<tr>
<td>1:00 pm – 1:15 pm</td>
<td>Effect of Spinal Decompression on Back Pain in Lumbar Spinal Stenosis: Canadian Spine Outcomes Research Network Registry</td>
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<tr>
<td>1:15 pm – 1:20 pm</td>
<td>Discussion</td>
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<tr>
<td>1:20 pm – 1:35 pm</td>
<td>Anterior Reconstruction Provides Better Outcomes When Correcting Mild Flexible Cervical Deformity</td>
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<td>1:35 pm – 1:40 pm</td>
<td>Discussion</td>
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<tr>
<td>1:40 pm – 1:55 pm</td>
<td>Spinepelic Compensatory Mechanisms for Reduced Hip Motion (ROM) in the Setting of Hip Osteoarthritis</td>
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<td>1:55 pm – 2:00 pm</td>
<td>Discussion</td>
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<tr>
<td>2:00 pm – 2:15 pm</td>
<td>Patients Comparison of MIS and Open TLIF in the Treatment of Single Level Lumbar Degenerative Diseases with a Minimum of 6-Years Follow-up</td>
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<tr>
<td>2:15 pm – 2:20 pm</td>
<td>Discussion</td>
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### Section IV – American Spinal Injury Association

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
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<tbody>
<tr>
<td>3:05 pm – 4:47 pm</td>
<td>Moderators: Jacob M. Buchowski, MD and Addisu Mesfin, MD</td>
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<tr>
<td>3:05 pm – 3:10 pm</td>
<td>Introduction</td>
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<tr>
<td>3:10 pm – 3:25 pm</td>
<td>Update on Novel Therapeutics and Clinical Trials on Spinal Cord Injury</td>
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<tr>
<td>3:25 pm – 3:35 pm</td>
<td>Spinal Cord Syndromes</td>
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<td>3:35 pm – 3:42 pm</td>
<td>Discussion</td>
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<td>3:43 pm – 3:52 pm</td>
<td>Diagnosing Cauda Equina Syndrome Versus Conus Medularis Syndrome</td>
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<td>3:52 pm – 4:00 pm</td>
<td>Brown Sequard Syndrome and Penetrating Trauma</td>
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<td>4:00 pm – 4:05 pm</td>
<td>Discussion</td>
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<td>4:05 pm – 4:13 pm</td>
<td>Management of Cervical Spine Cord Injury in the Stiff Spine</td>
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<td>4:13 pm – 4:23 pm</td>
<td>Debate - Thoracolumbar Spinal Cord Injury in the Ankylosed Spine</td>
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<tr>
<td>4:23 pm – 4:31 pm</td>
<td>Open Stabilization and Decompression TBD</td>
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<td>4:31 pm – 4:36 pm</td>
<td>Minimally Invasive Stabilization with/without Decompression</td>
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<td>4:36 pm – 4:44 pm</td>
<td>Discussion</td>
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<tr>
<td>4:44 pm – 4:52 pm</td>
<td>Immediate Post-Operative Management of the Spinal Cord Injury Patient</td>
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<td>4:52 pm – 4:57 pm</td>
<td>DVT Prophylaxis: When to Initiate and for How Long?</td>
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<td>4:57 pm</td>
<td>Adjourn</td>
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Spinal Cord Injury in the Hyperostotic Spine

Immediate Post-Operative Management of the Spinal Cord Injury Patient

Preoperative Multimodal Analgesia to Decrease Narcotic Consumption in Elective Spinal Fusion Patients

DVT Prophylaxis: When to Initiate and for How Long?

MAP Goals: Duration and Side Effects

Adjourn

Douglas C. Burton, MD
SPECIALTY DAY

Saturday, March 16, 2019
Venetian/Sands Expo
Room 3201
8:00 am – 5:15 pm

General Information

Description
The 2019 LLRS Specialty Day will focus on difficult problems in a limb reconstruction from birth through adulthood with invited guests from POSNA and Australia. The best papers from the summer LLRS meeting will be highlighted as well as important advances in limb reconstruction including osseous-integrated prosthesis and motorized intramedullary nails for limb lengthening.

Educational Objectives

• Explore management strategies for traumatic and congenital conditions about the ankle, knee, and hip as they present in childhood through adulthood;
• Examine emerging techniques in the reconstruction of the amputated leg and complex arthrodesis;
• Discuss current challenges and possible solutions in transitional medicine as the complex child becomes an adult; and
• Understand transitional medicine as the complex child becomes an adult.

Accreditation

Credit Hours
Credit Hours 7.75 AMA PRA Category 1 Credits™.

Program Committee Leadership

L. Reid Nichols, MD, Program Chair
Stephen M. Quinnan, MD, Program Co-chair

8:00 am – 8:05 am
Welcome and Introduction of Guest Nation: Australia
L. Reid Nichols, MD and Stephen M. Quinnan, MD

8:05 am – 9:45 am
Session I: Lower Extremity
Moderator: Douglas N. Beaman, MD

8:05 am – 8:35 am
Clubfoot – Management from School Age through Adulthood
Pediatrics – Steven L. Frick, MD (invited)
Adult – Austin T. Fragomen, MD
Australian Guest – TBD (invited)

8:35 am – 9:05 am
Post Traumatic Ankle Injuries: When is a Child an Adult?
Pediatrics – Joseph Rosenblatt, DO
Adult – William Terrell, MD
Australian Guest – Kevin Tetsworth, MD

9:05 am – 9:35 am
Osteogenesis Imperfecta (Leg)
Pediatrics – Richard W. Kruse, DO
Adult – J. Spence Reid, MD
Australian Guest – David Little, MD

9:35 am – 9:45 am
Discussion

9:45 am – 10:00 am
Refreshment Break

10:00 am – 11:10 am
Session II: Best Papers from LLRS 27th Annual Meeting 2018
Moderator: Mitchell Bernstein, MD

10:00 am – 10:15 am
Short and Intermediate Term Function after Distraction Osteogenesis for Bone Reconstruction in the Upper and Lower Extremity – Molly Friel Klima

10:15 am – 10:30 am
Mitigating Pathologic Fibrosis following Volumetric Muscle Loss in a Porcine Model – Jessica C. Rivera, MD

10:30 am – 10:45 am
Hip Dysplasia – Reduction of Proximal Migration Before Arthroplasty Using a Fully Implantable Motorized Distraction Nail – Professor Rainer Baumgart

10:45 am – 11:00 am
Gait Analysis in Children with Proximal Femoral Focal Deficiency – Lorena Fiocca, MD

11:00 am – 11:10 am
Discussion

11:10 am – 12:10 pm
Guest Presentation

11:10 am – 12:00 pm
Moderator: John G. Birch, MD
The Limb Length and Deformity Correction Omnivore-You Can Learn From Everyone! – Mark T. Dahl, MD

12:00 pm – 12:10 pm
Discussion/Questions

12:10 pm – 1:00 pm
Lunch On Own

12:10 pm – 12:55 pm
Optional LLRS Research Breakout Session
Moderator: Mitchell Bernstein, MD and Jessica C. Rivera, MD

1:00 pm – 1:50 pm
Session III: What’s New?

1:00 pm – 1:15 pm
Reconstruction of the Amputated Leg
Kevin Tetsworth, MD

1:15 pm – 1:30 pm
Complex Arthrodesis
S. Robert Rozbruch, MD

1:30 pm – 1:45 pm
Rotational Malalignment of the Extensor Mechanism and Congenital Lower Extremity Abnormalities
Sheanna Maine, BSc, BMBS

1:45 pm – 1:50 pm
Discussion
<table>
<thead>
<tr>
<th>Time</th>
<th>Session IV: Knee</th>
<th>Guest Presentation</th>
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<tbody>
<tr>
<td>1:50 pm – 2:20 pm</td>
<td>Moderator: Harold J.P. van Bosse, MD</td>
<td>Moderator: L. Reid Nichols, MD</td>
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<td>1:50 pm – 2:20 pm</td>
<td>Tibia vara</td>
<td>3:10 pm – 3:45 pm</td>
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<td>Pediatrics – Sanjeev Sabharwal, MD, MPH</td>
<td>Transitional Medicine: When a Complex</td>
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<td>Adult – Stephen M. Quinnan, MD</td>
<td>Child becomes an Adult</td>
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<td>Australian Guest – Minoo Patel, MD</td>
<td>Freeman Miller, MD</td>
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<tr>
<td>2:20 pm – 2:50 pm</td>
<td>Managing Knee Contractures: Congenital and Posttraumatic</td>
<td>3:45 pm – 3:55 pm</td>
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<td></td>
<td>Pediatrics – David S. Feldman, MBBS, MS, FRACS, PhD</td>
<td>Discussion</td>
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<td>Adult – S. Robert Rozbruch, MD</td>
<td>3:55 pm – 4:55 pm</td>
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<td></td>
<td>Australian Guest – TBD</td>
<td>Section V: Hip</td>
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<tr>
<td>2:50 pm – 3:00 pm</td>
<td>Discussion</td>
<td>Moderator: Christopher A. Iobst, MD</td>
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<td>3:00 pm – 3:10 pm</td>
<td>Refreshment Break</td>
<td>3:55 pm – 4:25 pm</td>
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<td>Managing Proximal Femur AVN</td>
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<td>Pediatrics – David Podezswa, MD</td>
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<td>Adult – Ronald Delanois, MD</td>
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<td>Australian Guest – Oliver Birke, MD</td>
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<td>3:10 pm – 3:55 pm</td>
<td>Guest Presentation</td>
<td>4:25 pm – 4:55 pm</td>
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<td>Congenital Femoral Deficiency</td>
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<td></td>
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<td>Pediatrics – Jill C. Flanagan, MD</td>
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<td>Adult – Dror Paley, MD</td>
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<td>Australian Guest – Oliver Birke, MD</td>
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<tr>
<td>3:55 pm – 4:55 pm</td>
<td>Section V: Hip</td>
<td>4:55 pm – 5:05 pm</td>
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<td>Discussion</td>
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<td>5:05 pm – 5:15 pm</td>
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<td>Closing Remarks and Adjourn</td>
</tr>
</tbody>
</table>

### Top 3 Reasons to Attend

1. **Experience unbiased and authoritative education**
   - 95% of attendees rate ICLs as most important

2. **Expand your network of mentors and colleagues**
   - 45% of attendees want to make connections

3. **Discover the latest products and technology under one roof**
   - 98% of attendees achieve their goals in the exhibit hall
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 Infection Society.

The American Academy of Orthopaedic Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

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.

Objectives
Upon completion of this activity, physicians will be able to:
• Describe the mechanisms of biofilm formation and current techniques for inhibition.
• Understand the risk of musculoskeletal infections in tumor prosthesis and potential opportunities for management.
• Comprehend current techniques for diagnosis and treatment for vertebral osteomyelitis.

8:00 am – 8:05 am Welcome, Disclosures – Carlos A. Higuera-Rueda, MD
8:05 am – 9:15 am Session I Best Research Presentations – Clinical Practice: Prevention, Diagnosis and Treatment of PJI
  Moderator: Thorsten Seyler, MD
  8:05 am – 8:13 am Perioperative Antibiotic Prophylaxis in Total Joint Arthroplasty: A Single Dose is as effective as Multiple Doses – Timothy L. Tan, MD
  8:14 am – 8:22 am Single vs Multiple Doses of Prophylactic Antibiotics in Orthopaedic Surgery: A Meta-Analysis – Sean Ryan, MD
  8:23 am – 8:31 am Intraoperative Prophylactic Techniques for the Prevention of Periprosthetic Joint Infection in Primary Total Joint Arthroplasty: A Systematic Review and Meta-Analysis – Elie Ghanem, MD
  8:32 am – 8:40 am Discussion
  8:41 am – 8:49 am An Enhanced Understanding of Culture-negative Periprosthetic Joint Infection with Next Generation Sequencing – Karan Goswami, MD

8:50 am – 8:58 am Diagnostic Accuracy of the Alpha-defensin for Periprosthetic Joint Infection in Patients with Inflammatory Diseases – Carlos A. Higuera-Rueda, MD
8:59 am – 9:07 am Changing Trends, Risk Factors, and Treatment Challenges in Staphylococcus aureus Septic Arthritis – Kenneth L. Urish, MD, PhD
9:08 am – 9:15 am Discussion
9:15 am – 10:00 am Session II Symposium: Vertebral Osteomyelitis – New Trends on Diagnostic and Treatment
  Moderator: Steven Schmitt, MD
  Speakers: Paul Huddleston MD, Hollis Potter, MD
10:00 am – 10:10 am Break
10:10 am – 11:10 am Session III Best Research Presentations – Basic Science – From Origins of Infection to Potential Prevention and Treatments
  Moderator: Antonia F. Chen, MD, MBA
  10:10 am – 10:18 am The Osteocyte as a Target Cell and Disease Nidus in Periprosthetic Joint Infection – Professor Gerald J. Atkins
  10:19 am – 10:27 am Polymyxin and Bacitracin in the Irrigation Solution: There is no role for this practice – Karan Goswami, MD
  10:28 am – 10:36 am Zoledronic acid increases bacterial burden and infection rate in a validated mouse model of implant infection – Peter Hsiue, MD
  10:37 am – 10:45 am Discussion
  10:46 am – 10:54 am In vivo bioluminescence imaging in a rabbit model of orthopedic implant-associated infection to monitor efficacy of an antibiotic-releasing coating – John M. Thompson, MD
  10:55 am – 11:03 am Toward Translational Treatments for the Infected Implant: A Novel Mouse Model of Revision Arthroplasty for PJI – Chad Ishmael, MD
11:04 am – 11:10 am Discussion
SPECIALTY DAY

11:10 am – 11:45 am  
**Session IV Symposium: Strategies to Prevent and Treat Infections in Tumor Prosthesis**  
**Moderator:** Carlos A. Higuera-Rueda, MD  
**Speakers:** Barry Brause, MD, Richard O’Donnell, MD

11:45 am – 12:45 pm  
**Session V Understanding Biofilm – An Update on Formation, Prevention and Treatment**  
**Moderator:** Alex McLaren, MD  
**Speakers:** Paul Stoodley, PhD, Kohei Nishitani, MD, PhD

12:45 pm  
Adjourn. Lunch on Own, Free Afternoon to attend other Specialty Day meetings

---

**Focus on Your Orthopaedic Resources**

The Exhibit Hall is your go-to resource for surgical and diagnostic solutions.

Nowhere else can you:
- See new products and technology from more than 650 companies
- Connect with industry experts from major orthopaedic and device manufacturers
- Compare products and plan purchases for your hospital or practice

Extend your education in the Exhibit Hall

**Presentations take place Wednesday through Friday**

**NEW! Innovation Theater** exposes you to live demonstrations of innovative products, services, and solutions showcased by medical and technology professionals.

**Ask an Expert** offers you an opportunity to present your case challenges to receive expert diagnosis and recommendations.

**Technology Theater** presents you with expert lead tech-focused sessions of the latest applications beneficial to you and your team.

---

**Exhibit Schedule**

- **Wednesday, March 13** ..............................9:00 AM – 5:00 PM
- **Thursday, March 14** ..............................9:00 AM – 5:00 PM
- **Friday, March 15** ..............................9:00 AM – 3:00 PM

Nowhere else can you:
- See new products and technology from more than 650 companies
- Connect with industry experts from major orthopaedic and device manufacturers
- Compare products and plan purchases for your hospital or practice

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Plan your Exhibit Hall experience before you arrive at aaos.org/exhibits.

**AAOS 2019 Annual Meeting**

March 12 – 16, Las Vegas, Nevada
SPECIALTY DAY

Musculoskeletal Tumor Society
Toolbox for Your Practice in Orthopaedic Oncology

Saturday, March 16, 2019
Venetian/Sands Expo
Room 3304
8:00 am – 3:30 pm

General Information
Description
The focus of the upcoming Specialty Day Meeting will be on tools to help physicians and allied health professionals in their practice caring for patients with musculoskeletal tumors. Through guest speakers from the business world, expert panel discussions, scientific presentations of cutting edge basic science research and surgical techniques, attendees will have the opportunity to learn and actively participate in areas of practice development.

Educational Objectives
Upon completion of the session, attendees should be able to:
• Understand several treatment options for challenging patient, tumor and reconstruction options in Orthopaedic Oncology.
• Assess the progress of MSTS-sponsored research projects.
• Be aware of new tools under development to assess margins intraoperatively in tumor resection surgery.
• Cultivate career planning expertise to become a good mentee and develop into a good mentor.
• Recognize signs of physician burn out and develop skills to avoid it.
• Develop an understanding of technological advances that can have an impact on a musculoskeletal oncology practice.

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 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Program Committee Leadership
Megan E. Anderson, MD, Program Chair
Pietro Ruggieri, MD, PhD, Vice Chair
Nicholas Bernthal, MD, Member-at-Large
David M. King, MD, Member-at-Large

8:00 am – 8:05 am Welcome
R. Lor Randall, MD, FACS, MSTS
President
Megan E. Anderson, MD, Program Chair

8:05 am – 8:45 am Session I: MSTS Guest Speaker
Look For The Light
Theresa Beech

8:45 am – 10:00 am Session II: Challenging Case: Ask an International Expert

Moderators: Nicholas M. Bernthal, MD and Peter Ferguson, MD
Panel Participants:
Miguel A. Ayerza, MD, (Argentina)
Peter Steadman, MB, BS, FRACS (Ortho)
(Australia)
Jay S. Wunder, MD, Msc, FRCSC
(Canada)
Andrea Angelini, MD, PhD (Italy)
Hiroyuki Tsuchiya, MD, PhD (Japan)
Keith V. Hosking, MB, ChB, FCS, (SA),
Lee M. Jays, MB, ChB, MSc, FRCS (UK)
Francis J. Hornicek, MD, PhD (USA)

10:00 am – 10:30 am Morning Break

10:30 am – 12:00 pm Session III: Research Forum

Moderators: Emily E. Carmody, MD and Odion Binitie, MD

Update from MSTS Grant Projects
2017 MSTS/OREF – Benjamin J. Miller, MD, MS
2016 MSTS/OREF – Lukas Nystrom, MD
2016 MSTS/MTF – Thomas J. Scharschmidt, MD

11:00 am – 11:15 am Discussion/Questions

Panel: Assessment of Margins in Orthopaedic Oncology
Brian E. Brigman, MD, PhD
Ginger E. Holt, MD

11:45 am – 12:00 pm Discussion/Questions

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

1:00 pm – 2:00 pm Session IV: Career Tools

Moderators: David M. King, MD and Rosanna Wustrack, MD

1:00 pm – 1:20 pm Mentorship From Mentee to Mentor
Kristy L. Weber, MD

1:20 pm – 1:40 pm Physician Health – Avoiding Burnout
Peter J. Buecker, MD

1:40 pm – 2:00 pm Panel Discussion/Questions
<table>
<thead>
<tr>
<th>Time</th>
<th>Session V: Advances in Technology That Can Impact Your Practice</th>
<th>Time</th>
<th>Distraction Osteogenesis and Bone Sarcomas</th>
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<tbody>
<tr>
<td>2:00 pm – 2:20 pm</td>
<td><strong>Moderators:</strong> Pietro Ruggieri, MD, PhD and Tessa Balach, MD 3D Printing Technology and Oncologic Endoprostheses Daniel Kotrych, MD, PhD 2:20 pm – 2:40 pm Immunology and the Treatment of Sarcomas G. Douglas Letson, MD</td>
<td>2:40 pm – 3:00 pm</td>
<td>Daniel E. Prince, MD, MPH 3:00 pm – 3:20 pm Discussion/Questions 3:20 pm – 3:30 pm Closing Remarks</td>
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<td>2:20 pm – 3:20 pm</td>
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### Focus on Your Learning

#### Top 10 Learning Opportunities

1. **Instructional Courses** allow you to master in-depth experience-based orthopaedic techniques from world-renowned surgeons.
2. **Case Presentation Courses** let you engage in table discussions of complex cases with peers and experts, review case data, and hear the final solution.
3. **Symposia** inspire your thinking as a panel of surgeons shares leading-edge research shaping changes in practice.
4. **Paper Presentations** enable you to explore new and exciting research and advances in orthopaedics.
5. **Ask an Expert** offers you an opportunity to present your case challenges to receive expert diagnosis and recommendations.
6. **Flash 5**: What’s Coming Down the Pike exposes you to critical takeaways on hot topics during 5-minute presentations.
7. **Showdowns®** puts you in the driver’s seat as you watch surgeons debate topics and techniques; then YOU determine who wins.
8. **The Way I See It…®** lets you hear the faculty’s candid opinions on top-of-mind issues.
9. **Orthopaedic Video Theater** presents you with high quality and peer reviewed surgical technique videos.
10. **Posters** allow you to learn from visual presentations about the latest medical, clinical, or scientific research.

Create a unique experience customized to your needs and specialization

**AAOS 2019 Annual Meeting**
March 12 – 16, Las Vegas, Nevada
### 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 afternoon will feature a combined session with AOAFAS.

**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**
- Describe evidence-based recommendations for decision-making for common traumatic conditions
- Identify contemporary operative techniques to facilitate on-call management of challenging situations
- Apply best practices and recent research advances to your trauma or general practice.

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

### Accreditation

**Credit Hours**
6.5 AMA PRA Category 1 Credits™.

### Program Committee Leadership

**David C. Teague, MD, Program Chair**
Chad P. Coles, MD, Michael J. Gardner, MD, Clifford B. Jones, MD, Stephen A. Kottmeier, MD, Nirmal C. Tejwani, MD, FRCS

### Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Activity</th>
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<tbody>
<tr>
<td>7:25 am – 7:30 am</td>
<td><strong>Welcome</strong>&lt;br&gt;David C. Teague, MD, OTA President</td>
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<tr>
<td>7:30 am – 8:25 am</td>
<td><strong>Session I: Orthopaedic Trauma Hot Topics</strong></td>
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<td>7:30 am – 8:25 am</td>
<td>Moderator: Nirmal C. Tejwani, MD</td>
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<td>7:45 am – 8:00 am</td>
<td>Proximal Humerus Fractures (Brian vs Brian)&lt;br&gt;Brian Solberg, MD – Non-op&lt;br&gt;Brian Mullis, MD – Op</td>
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<td>8:05 am – 8:11 am</td>
<td>Mangled Extremity: Never Amputate at First Trip to OR&lt;br&gt;William J. Ertl, MD</td>
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<td>8:11 am – 8:25 am</td>
<td>Nail or Plate: Distal Tibia (Dan vs Dan)&lt;br&gt;Daniel N. Segina, MD – Nail&lt;br&gt;Brian H. Mullis, MD – Plate</td>
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<td>8:25 am – 9:20 am</td>
<td><strong>Session II: Postoperative Complications: How to Get Out of this Mess (Case Based with ARS)</strong></td>
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<td>8:25 am – 8:55 am</td>
<td>Resolve or Refer I&lt;br&gt;Moderator: Stephen A. Kottmeier, MD&lt;br&gt;Panelists: Paul Tornetta, III, MD&lt;br&gt;J. Tracy Watson, MD</td>
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<td>8:55 am – 9:20 am</td>
<td>Resolve or Refer II&lt;br&gt;Moderator: Clifford B. Jones, MD&lt;br&gt;Panelists: Heather A. Vallier, MD&lt;br&gt;Robert F. Ostrum, MD</td>
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<td>9:20 am – 9:40 am</td>
<td>BREAK</td>
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<td>9:40 am – 10:40 am</td>
<td><strong>Session III: Fracture Timing and Open Fracture EBM</strong></td>
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<td>9:40 am – 9:50 am</td>
<td>Open Fractures: 6 Hour Rule; Can It Wait Overnight?&lt;br&gt;Nirmal C. Tejwani, MD</td>
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<td>9:50 am – 10:00 am</td>
<td>Talus Fractures: What is the Urgency?&lt;br&gt;Sean E. Nork, MD</td>
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<td>10:05 am – 10:10 am</td>
<td>Q&amp;A</td>
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<td>10:10 am – 10:20 am</td>
<td>Femoral Neck Fractures in the 30 Year Old: Tonight?&lt;br&gt;Philip R. Wolinsky, MD</td>
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<td>10:20 am – 10:30 am</td>
<td>Compartment Syndrome: Diagnosis; Timing; Delayed?&lt;br&gt;Eric Kubiak, MD</td>
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<td>10:30 am – 10:40 am</td>
<td>Q&amp;A</td>
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<td>10:40 am – 11:40 am</td>
<td><strong>Session IV: Best Practice Mini Topics</strong></td>
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<td>10:40 am – 10:55 am</td>
<td>Pain Management Guidelines– Opioid/Nonopioid Regimens&lt;br&gt;Thomas F. Higgins, MD</td>
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<td>10:55 am – 11:10 am</td>
<td>DVT Prophylaxis in Lower</td>
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Mohit Bhandari, MD, PhD, FRCSC

11:25 am – 11:40 am  Q&A

11:40 am – 12:10 pm  Guest Speaker: What I Know Now

12:10 pm – 1:10 pm  LUNCH BREAK

1:15 pm – 2:15 pm  Session V: Papers You Should Know About: 2018 OTA Annual Meeting Highlights

Moderators:  
Michael J. Gardner, MD – 2018 Program Chair  
Stephen A. Kottmeier, MD – 2018 Program Co-Chair

1:15 pm – 1:22 pm  Bovill Award Paper Presentation

Introduction: David C. Teague, MD

1:22 pm – 1:27 pm  DISCUSSION

1:27 pm – 2:15 pm  2018 OTA Annual Meeting Highlights

Michael J. Gardner, MD – 2018 Program Chair  
Stephen A. Kottmeier, MD – 2018 Program Co-Chair

2:15 pm – 2:30 pm  BREAK/Walk to AOFAS

Combined Specialty Day Meeting  
American Orthopaedic Foot & Ankle Society/ Orthopaedic Trauma Association  
Room 4101

2:30 pm – 4:45 pm  Session 1: The Science: Rotational Ankle Fractures and the Syndesmosis: The Standard, The Latest, The Controversial

2:30 pm – 2:40 pm  The Only thing that Really Matters in the Lateral Column: Ignoring the Deltoid

Michael J. Gardner, MD

2:40 pm – 2:50 pm  The Only Thing that Really Matters is the Deltoid: The Consequences of a Limited Field of View

OTA Paper: Posterior Malleolar Fixation Reduces the Need for Syndesmotic Screw Fixation in Rotational Ankle Injuries

Omar Behery, MD; Rajkishen Narayanan, MS; Abdullah Qatu, BS; Sanjik Konda, MD; Nirmal Tejwani, MD; Kenneth Egol, MD

2:57 pm – 3:04 pm  Fractures of The Tibial Plafond: Does the presence or absence of a fibular fracture predict future morbidity?

Henry Boateng, MD, MSc; Chinenye Nwachuku, MD; Kempland C. Walley, BSc; Justin W. Walker; Rhett MacNeille, MD; Paul Tornetta, MD; Spence Reid, MD

3:04 pm – 3:30 pm  DISCUSSION AND CASES

3:30 pm – 4:15 pm  Session 2: The Cases: Hindfoot Trauma: I Hate Puzzles

3:30pm – 3:40pm  Trauma Case

TBD

3:40pm – 3:50pm  Foot & Ankle Case

Brian M. Weatherford, MD  
Mark A. Glazebrook, MD, MSc, PhD

3:50pm – 4:15pm  Discussion

4:15 pm – 4:45 pm  Session 3: The Debate: The Midfoot: Fix It or Fuse It. Are These Joints Essentially Nonessential?

Moderators:  
Donald R. Bohay, MD, FACS (AOFAS) and Clifford B. Jones, MD (OTA)

Fuse It:

J. Chris Coetzee, MD (AOFAS)

Fix It:

TBD (AOFAS)  
Clifford B. Jones, MD (OTA)

4:45 pm  Closing Remarks / Adjourn
Saturday, March 16, 2019
Venetian/Sands Expo
Room 2101
7:55 am – 5:35 pm

**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 7.5 **AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation.

**Disclaimer**
The material presented at the 2019 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 2019 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 2019 Winter (Open) Meeting. The Hip Society reserves all rights to such material, and commercial reproduction is specifically prohibited unless authorized by The Hip Society.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>7:55 am – 8:00 am</td>
<td><strong>Welcome / Opening Remarks</strong></td>
<td>Douglas E. Padgett, MD, (New York, NY)</td>
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<tr>
<td>8:00 am – 8:30 am</td>
<td><strong>DEBATE I: Surgical Approaches: Does It Matter?</strong></td>
<td>Moderators: John J. Callaghan, MD (Iowa City, IA)</td>
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<td>8:02 am – 8:12 am</td>
<td>Anterior Hip Approach</td>
<td>Wael K. Barsoum, MD (Weston, FL)</td>
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<td>8:13 am – 8:23 am</td>
<td>Posterior Hip Approach</td>
<td>Robert T. Trousdale, MD (Rochester, MN)</td>
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<td>8:23 am – 8:30 am</td>
<td>Discussion</td>
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<td>8:30 am – 9:10 am</td>
<td><strong>SESSION I: Decreasing Complications</strong></td>
<td>Moderators: William A. Jiranek, MD (Durham, NC)</td>
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<td>8:30 am – 8:36 am</td>
<td>Scope of Problem</td>
<td>David C. Ayers, MD (Worcester, MA)</td>
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<td>8:37 am – 8:43 am</td>
<td>VTE Update</td>
<td>Paul F. Lachiewicz, MD (Chapel Hill, NC)</td>
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<td>8:44 am – 8:50 am</td>
<td>Implant Loosening</td>
<td>Michael Tanzer, MD, FRCSC (Montreal, QC, Canada)</td>
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<td>8:51 am – 8:57 am</td>
<td>Modifying Risk Factors</td>
<td>Richard Iorio, MD (Boston, MA)</td>
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<td>8:57 am – 9:10 am</td>
<td>Discussion</td>
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<td>9:10 am – 10:00 am</td>
<td><strong>SESSION II: Hip Instability</strong></td>
<td>Moderators: William J. Maloney, III, MD (Redwood City, CA)</td>
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<td>9:10 am – 9:16 am</td>
<td>Bearing: Role for “Standard” Head Sizes</td>
<td>Amar S. Ranawat, MD (New York, NY)</td>
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<td>9:17 am – 9:23 am</td>
<td>Soft Tissue Procedures</td>
<td>Stephen J. Incavo, MD (Houston, TX)</td>
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<td>9:24 am – 9:30 am</td>
<td>Bearing: Dual Mobility</td>
<td>Arlen D. Hanssen, MD (Rochester, MN)</td>
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<td>9:31 am – 9:37 am</td>
<td>Bearing: Constrained Options</td>
<td>Thomas P. Sculco, MD (New York, NY)</td>
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<td>9:38 am – 9:44 am</td>
<td>Acetabular Positioning</td>
<td>Robert L. Barrack, MD (St. Louis, MO)</td>
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<td>9:44 am – 10:00 am</td>
<td>Discussion</td>
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<td>10:00 am – 10:15 am</td>
<td><strong>COFFEE BREAK</strong></td>
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<td>Time</td>
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<tr>
<td>10:15 am – 11:15 am</td>
<td>SESSION III: Special Highlights</td>
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<td></td>
<td><strong>The Hip Society</strong></td>
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<td><strong>Moderator:</strong> Mathias P. G. Bostrom, MD (New York, NY)</td>
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<td>10:15 am – 10:25 am</td>
<td>The John Charnley Award</td>
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<td>To Be Announced</td>
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<td>10:25 am – 10:35 am</td>
<td>The Otto Aufranc Award</td>
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<td>To Be Announced</td>
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<tr>
<td>10:35 am – 10:45 am</td>
<td>The Frank Stinchfield Award</td>
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<td>To Be Announced</td>
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<tr>
<td>10:45 am – 10:55 am</td>
<td><strong>The Hip Society's Rothman-Ranawat Traveling Fellowship</strong></td>
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<td></td>
<td>Recap of the 2018 Rothman-Ranawat Fellowship</td>
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<tr>
<td>10:55 am – 11:00 am</td>
<td>Introduction of the 2019 Rothman-Ranawat Fellows</td>
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<td></td>
<td><strong>Adolph V. Lombardi, Jr., MD</strong> (New Albany, OH)</td>
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<tr>
<td>11:00 am – 11:15 am</td>
<td><strong>Presidential Guest Speaker</strong></td>
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<tr>
<td></td>
<td>Jeremy L. Gilbert, Ph.D., FBSE</td>
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<tr>
<td></td>
<td>Professor of Bioengineering</td>
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<td></td>
<td>Clemson University</td>
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<tr>
<td></td>
<td>Professor of Orthopaedics</td>
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<td></td>
<td>Medical University of South Carolina (Charleston, SC)</td>
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<tr>
<td>11:15 am – 11:55 am</td>
<td><strong>DEBATE II: Outpatient THRrs</strong></td>
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<td></td>
<td><strong>Moderator:</strong> Joshua J. Jacobs, MD (Chicago, IL)</td>
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<tr>
<td>11:17 am – 11:27 am</td>
<td>Pros</td>
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<td></td>
<td>Keith R. Berend, MD (New Albany, OH)</td>
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<tr>
<td>11:28 am – 11:38 am</td>
<td>Cons</td>
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<td>Michael P. Bolognesi, MD (Durham, NC)</td>
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<tr>
<td>11:39 am – 11:45 am</td>
<td>Reality and Economics</td>
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<td></td>
<td>Kevin J. Bozic, MD (Austin, TX)</td>
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<tr>
<td>11:45 am – 11:55 am</td>
<td>Discussion</td>
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<td>11:55 am – 1:00 pm</td>
<td><strong>LUNCH</strong></td>
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<tr>
<td>1:00 pm – 1:45 pm</td>
<td><strong>SESSION IV: Lessons Learned from Difficult Cases</strong></td>
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<td></td>
<td><strong>Moderator:</strong> Daniel J. Berry, MD (Rochester, MN)</td>
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<tr>
<td>1:00 pm – 1:06 pm</td>
<td>Case 1</td>
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<td>C. Anderson Engh, Jr., MD (Alexandria, VA)</td>
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<td>1:07 pm – 1:13 pm</td>
<td>Case 2</td>
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<td>Ran Schwarzkopf, MD, MSc (New York, NY)</td>
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<tr>
<td>1:14 pm – 1:20 pm</td>
<td>Case 3</td>
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<td>James I. Huddleston, III, MD (Redwood City, CA)</td>
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<td>1:21 pm – 1:27 pm</td>
<td>Case 4</td>
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<td></td>
<td>Jay R. Lieberman, MD (Los Angeles, CA)</td>
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<td>1:27 pm – 1:45 pm</td>
<td>Discussion / Audience votes</td>
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<td>1:45 pm – 2:30 pm</td>
<td><strong>SESSION V: Young Adult Hip</strong></td>
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<td></td>
<td><strong>Moderator:</strong> Rafael J. Sierra, MD (Rochester, MN)</td>
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<tr>
<td>1:45 pm – 1:51 pm</td>
<td>Hip Impingement</td>
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<td>Christopher L. Peters, MD (Salt Lake City, UT)</td>
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<td>1:52 pm – 1:58 pm</td>
<td>Osteotomy</td>
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<td>Michael B. Millis, MD (Boston, MA)</td>
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<td>1:59 pm – 2:05 pm</td>
<td>Resurfacing</td>
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<td>Paul E. Beaulé, MD, FRCSC (Ottawa, ON, Canada)</td>
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<td>2:06 pm – 2:11 pm</td>
<td>THR</td>
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<td>Oleg A Safir, MD, MEd, FRCSC (Toronto, ON, Canada)</td>
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<tr>
<td>2:11 pm – 2:30 pm</td>
<td>Discussion</td>
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<td>2:30 pm – 3:03 pm</td>
<td><strong>SESSION VI-A: Revision THR Acetabular Issues</strong></td>
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<td><strong>Moderator:</strong> Wayne G. Paprosky, MD (Winfield, IL)</td>
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<td>2:30 pm – 2:36 pm</td>
<td>Jumbo Cups</td>
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<td>Scott M. Sporer, MD (Winfield, IL)</td>
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<td>2:37 pm – 2:42 pm</td>
<td>Wedges and Augments</td>
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<td>Richard W. McCalden, MD (London, ON, Canada)</td>
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<tr>
<td>2:43 pm – 2:49 pm</td>
<td>Custom Flanged Cups</td>
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<td></td>
<td>Douglas A. Dennis, MD (Denver, CO)</td>
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<tr>
<td>2:50 pm – 2:56 pm</td>
<td>Cup Cage</td>
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<td>Allan E. Gross, MD, FRCSC, O. Ont. (Toronto, ON, Canada)</td>
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<tr>
<td>2:57 pm – 3:03 pm</td>
<td>Discussion</td>
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<tr>
<td>3:04 pm – 3:40 pm</td>
<td><strong>SESSION VI-B: Revision THR Femur</strong></td>
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<td><strong>Moderator:</strong> David G. Lewallen, MD (Rochester, MN)</td>
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<td>3:04 pm – 3:10 pm</td>
<td>Fluted Tapered Stems</td>
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<td>Don S. Garbuz, MD, MHSc, FRCSC (Vancouver, BC, Canada)</td>
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<tr>
<td>3:11 pm – 3:17 pm</td>
<td>Managing Bone Loss</td>
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<td>Gwo-Chin Lee, MD (Philadelphia, PA)</td>
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<tr>
<td>3:18 pm – 3:24 pm</td>
<td>Peri-Prosthetic Fractures</td>
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<td>George J. Haidukewych, MD (Orlando, FL)</td>
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<tr>
<td>3:24 pm – 3:40 pm</td>
<td>Discussion</td>
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</tbody>
</table>

Plan your education and register today at aaos.org/my meeting
3:40 pm – 3:55 pm COFFEE BREAK

Combined Specialty Day Meeting
The Hip Society/The Knee Society/american Association of Hip and Knee Surgeons
Room 2201

3:55 pm – 5:35 pm

3:55 pm – 4:40 pm COMBINED SESSION I: Pain Management

Moderator: John B. Meding, MD
(Mooresville, IN)

3:55 pm – 4:01 pm How Big is the Problem?
Bryan D. Springer, MD (Charlotte, NC)

4:02 pm – 4:08 pm Pre-Intervention Management
Carlos J. Lavernia, MD
(Coral Gables, FL)

4:09 pm – 4:15 pm Opiate Sparing Analgesia
William J. Hozack, MD
(Philadelphia, PA)

4:16 pm – 4:22 pm Post-Operative Management
Craig J. Della Valle, MD (Chicago, IL)

4:23 pm – 4:40 pm Discussion

4:40 pm – 4:45 pm Highlights from the AAHKS 2018 Annual Meeting
Craig J. Della Valle, MD (Chicago, IL)

4:45 pm – 5:35 pm COMBINED SESSION II: Prosthetic Joint Infections Update

Moderator: Kevin L. Garvin, MD
(Omaha, NE)

4:45 pm – 5:01 pm Prevention
Michael H. Huo, MD (Dallas, TX)

5:02 pm – 5:08 pm Diagnosis
Steven J. MacDonald, MD, FRCSC
(London, ON, Canada)

5:09 pm – 5:15 pm Treatment
R. Michael Meneghini, MD (Fishers, IN)

5:16 pm – 5:21 pm Costs
Thomas K. Fehring, MD (Charlotte, NC)

5:21 pm – 5:35 pm Discussion

5:35 pm Adjourn

Your Annual Meeting Registration Includes Exclusive Access to:

- 1,000+ Posters offered in two sessions
- 800+ Expert Faculty
- 700+ Orthopaedic Videos
- 650+ Industry Exhibits
- 88+ Scientific Exhibits
- 30+ Innovation Theater Sessions NEW!
- 25 Symposia
- 15+ Poster Tours
- 10+ Technology Theater Sessions
- 10+ Ask an Expert Sessions
- 10+ Industry Lunch & Learn Sessions
- 5+ Exhibit Hall Tours NEW!
- 2 Flash Five® What’s Coming Down the Pike
- 4 The Way I See It…® Sessions
- 2 Showdowns® Debates
- My Academy App
- Your Academy 2019

Enhance your experience with ticketed opportunities:

- 230+ Instructional Course Lectures
- 32 Case Presentations
- 13 Technical Skills Courses
- 10 Education Tracks
Saturday, March 16, 2019
Venetian/Sands Expo
Room 2201
7:55 am – 5:35 pm

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 7.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation.

Disclaimer
The material presented at the 2019 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 2019 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.

No reproductions of any kind, including audio- and video-recordings, may be made of the presentations at the 2019 Specialty Day (Open) Meeting. The Knee Society reserves all rights to such material, and commercial reproduction is specifically prohibited unless authorized by The Knee Society.

7:55 am – 8:00 am
Welcome / Opening Remarks
Robert L. Barrack, MD, (St. Louis, MO) President of The Knee Society

8:00 am – 9:10 am
SESSION I: Non-Operative Management of the Painful Knee: Biologics and Other Options. What Should You Be Doing?

8:00 am – 8:05 am
Introduction
Jay R. Lieberman, MD (Los Angeles, CA)

8:06 am – 8:11 am
The Regulatory Environment: How Does It Influence Your Treatment Options?
Thomas P. Vail, MD (San Francisco, CA)

8:12 am – 8:17 am
Oral Agents: It’s A Good Start!
Henry D. Clarke, MD (Phoenix, AZ)

8:18 am – 8:23 am
Corticosteroid Injections: Do They Really Work?
David F. Dalury, MD (Towson, MD)

8:24 am – 8:29 am
Hyaluronic Acid: What’s The Fuss?
William J. Maloney, III, MD (Redwood City, CA)

8:30 am – 8:35 am
Platelet-Rich Plasma: What, Where, and When?
Scott A. Rodeo, MD (New York, NY)

8:36 am – 8:41 am
Stem Cells: Hype or Reality?
Jason L. Dragoo, MD (Redwood City, CA)

8:42 am – 9:10 am
Case Presentation and Discussion

9:10 am – 10:00 am
SESSION II: Scientific Awards/The Insall Fellowship Awards

9:10 am – 9:20 am
The John N. Insall Award
To Be Announced

9:21 am – 9:31 am
The Chitranjan S. Ranawat Award
To Be Announced

9:32 am – 9:42 am
The Mark Coventry Award
To Be Announced

9:43 am – 10:00 am
The Insall Travelling Fellowship Update
W. Norman Scott, MD, FACS (New York, NY)
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:49 am – 9:54 am</td>
<td>Highlights from The Knee Society’s 2018 Members Meeting</td>
<td>Ryan M. Nunley, MD (St. Louis, MO)</td>
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<tr>
<td>9:55 am – 10:00 am</td>
<td>Highlights from the ORS 2019 Annual Meeting To Be Announced</td>
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<tr>
<td>10:00 am – 10:15 am</td>
<td>COFFEE BREAK</td>
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<tr>
<td>10:15 am – 11:15 am</td>
<td>SESSION III: Patient Selection and Optimization</td>
<td>Moderator: Bryan D. Springer, MD (Charlotte, NC)</td>
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<tr>
<td>10:15 am – 10:21 am</td>
<td>Avoiding Dissatisfaction (Osteoarthritis Study Initiatives)</td>
<td>William A. Jiranek, MD (Durham, NC)</td>
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<td>10:22 am – 10:28 am</td>
<td>A Realistic Informed Consent</td>
<td>David J. Mayman, MD (New York, NY)</td>
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<td>10:36 am – 10:42 am</td>
<td>Managing Medical Co-Morbidities: Modifiable and Non-Modifiable</td>
<td>Matthew S. Austin, MD (Philadelphia, PA)</td>
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<tr>
<td>10:43 am – 10:49 am</td>
<td>Managing the Non-Medical Co-Morbidities: Depression, Mental Illness,</td>
<td>James A. Browne, MD (Charlottesville, VA)</td>
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<tr>
<td>10:50 am – 10:59 am</td>
<td>Mini-Debate I: Is Obesity</td>
<td>Affirm – David F. Dalury, MD (Towson, MD)</td>
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<tr>
<td>11:00 am – 11:09 am</td>
<td>Mini-Debate II: Is Smoking</td>
<td>Oppose – Nicholas J. Giori, MD (Palo Alto, CA)</td>
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<td>11:09 am – 11:15 am</td>
<td>Discussion</td>
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<td>11:15 am – 11:55 am</td>
<td>SESSION IV: The Painful TKA Diagnostic Dilemmas: Case Presentations and Panel Discussion</td>
<td>Moderator: Daniel J. Berry, MD (Rochester, MN)</td>
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<td>11:39 am – 11:45 am</td>
<td>Algorithm for the TKA with Occult Pain</td>
<td>Daniel J. Berry, MD (Rochester, MN)</td>
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<td>11:45 am – 11:55 am</td>
<td>Discussion</td>
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<td>11:55 am – 1:00 pm</td>
<td>LUNCH</td>
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<tr>
<td>1:00 pm – 2:05 pm</td>
<td>SESSION V: Current Debates in TKA</td>
<td>Moderator: Michael A. Mont, MD (New York, NY)</td>
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<tr>
<td>1:00 pm – 1:05 pm</td>
<td>Mini-Debate I: Robotic UK</td>
<td>Expensive and Unnecessary</td>
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<tr>
<td>1:06 pm – 1:11 pm</td>
<td>Mini-Debate II: Antibiotic Cement in Primary TKA</td>
<td>It Is the Future of UK</td>
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<tr>
<td>1:12 pm – 1:21 pm</td>
<td>Mini-Debate III: Metal Allergy in TKA</td>
<td>An Occasional Cause of Symptoms and Failure</td>
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<tr>
<td>2:05 pm – 3:04 pm</td>
<td>SESSION VI: Revision Techniques</td>
<td>Moderator: John J. Callaghan, MD (Iowa City, IA)</td>
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<tr>
<td>2:05 pm – 2:10 pm</td>
<td>Fully Cemented Stems Technique: Rationale and Results</td>
<td>David G. Lewellen, MD (Rochester, MN)</td>
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<tr>
<td>2:11 pm – 2:16 pm</td>
<td>Hybrid Fixation Technique and Results</td>
<td>Keith R. Berend, MD (New Albany, OH)</td>
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<tr>
<td>2:17 pm – 2:22 pm</td>
<td>Femoral and Tibial Cones Technique and Results</td>
<td>R. Michael Meneghini, MD (Fishers, IN)</td>
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<tr>
<td>2:23 pm – 2:28 pm</td>
<td>Indications and Technique for Distal Femoral Replacement</td>
<td>Ryan M. Nunley, MD (St. Louis, MO)</td>
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<td>2:29 pm – 2:34 pm</td>
<td>One Stage Indication and Technique</td>
<td>Thorsten Gehrke, MD (Hamburg, Germany)</td>
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</table>
2:35 pm – 2:40 pm  Articulating Spacer Indications and Technique  
*Michael E. Berend, MD*  
*Indianapolis, IN*

2:41 pm – 2:46 pm  Knee Arthrodesis – Current Indications and Technique  
*Thomas K. Fehring, MD*  
*Charlotte, NC*

2:47 pm – 3:04 pm  Discussion, Case Presentations

3:04 pm – 3:40 pm  **SESSION VII: Lessons Learned from the Legends**  

**Moderator: Thomas P. Sculco, MD**  
*New York, NY*

3:04 pm – 3:10 pm  Case 1  
*Robert E. Booth, Jr., MD*  
*Philadelphia, PA*

3:11 pm – 3:17 pm  Case 2  
*Anthony K. Hedley, MD, FRCSC*  
*Phoenix, AZ*

3:18 pm – 3:24 pm  Case 3  
*Kelly G. Vince, MD, FRCSC*  
*Whangarei, New Zealand*

3:25 pm – 3:31 pm  Case 4  
*Allan E. Gross, MD, FRCSC*  
*Toronto, ON, Canada*

3:31 pm – 3:40 pm  Discussion, Audience Votes

3:40 pm – 3:55 pm  **COFFEE BREAK**

3:55 pm – 5:35 pm  **COMBINED SESSION I: Pain Management**  

**Moderator: John B. Meding, MD**  
*Mooresville, IN*

3:55 pm – 4:01 pm  How Big is the Problem?  
*Bryan D. Springer, MD*  
*Charlotte, NC*

4:02 pm – 4:08 pm  Pre-Intervention Management  
*Carlos J. Lavernia, MD*  
*Coral Gables, FL*

4:09 pm – 4:15 pm  Opiate Sparing Analgesia  
*William J. Hozack, MD*  
*Philadelphia, PA*

4:16 pm – 4:22 pm  Post-Operative Management  
*Craig J. Della Valle, MD*  
*Chicago, IL*

4:23 pm – 4:40 pm  Discussion

4:40 pm – 4:45 pm  **Highlights from the AAHKS 2018 Annual Meeting**  
*Craig J. Della Valle, MD*  
*Chicago, IL*

4:45 pm – 5:35 pm  **COMBINED SESSION II: Prosthetic Joint Infections Update**  

**Moderator: Kevin L. Garvin, MD**  
*Omaha, NE*

4:45 pm – 5:01 pm  Prevention  
*Michael H. Huo, MD*  
*Dallas, TX*

5:02 pm – 5:08 pm  Diagnosis  
*Steven J. MacDonald, MD, FRCSC*  
*London, ON, Canada*

5:09 pm – 5:15 pm  Treatment  
*R. Michael Meneghini, MD*  
*Fishers, IN*

5:16 pm – 5:21 pm  Costs  
*Thomas K. Fehring, MD*  
*Charlotte, NC*

5:21 pm – 5:35 pm  Discussion

5:35 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 2019 Annual Meeting. The following societies are participating:

- American Association for Hand Surgery
- American Association of Hip and Knee Surgeons
- American Orthopaedic Association
- American Orthopaedic Foot and Ankle Society
- American Orthopaedic Society for Sports Medicine
- American Shoulder and Elbow Surgeons
- American Society for Surgery of the Hand
- Arthroscopy Association of North America
- Cervical Spine Research Society
- J. Robert Gladden Orthopaedic Society
- Limb Lengthening and Reconstruction Society
- Musculoskeletal Infection Society
- Musculoskeletal Tumor Society
- North American Spine Society
- Orthopaedic Research Society
- Orthopaedic Trauma Association
- Pediatric Society of North America
- Ruth Jackson Orthopaedic Society
- Scoliosis Research Society
- The Hip Society
- The Knee Society

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
- **33 CME credits** allowing you to advance your career (beginning on Tuesday, March 12)
- **25 Symposia** giving you a balanced perspective on the most relevant topics in orthopaedics
- **Specialty Day**, offered by 14 Specialty Societies, featuring the latest updates in each field

**Important Dates**

- **Early Bird Registration Deadline**: December 14, 2018
- **Advance Registration Deadline**: January 31, 2019
- **Cancellation Deadline**: January 31, 2019
- **Housing Deadline**: February 19, 2019
- **Meeting Dates**: Tuesday, March 12 – Saturday, March 16
- **Specialty Day**: Saturday, March 16

**AAOS Website**

- Annual Meeting General: [aaos.org/mymeeting](http://aaos.org/mymeeting)
- Registration: [aaos.org/register](http://aaos.org/register)
- Housing: [aaos.org/housing](http://aaos.org/housing)
- Education: [aaos.org/ameducation](http://aaos.org/ameducation)
- Specialty Day: [aaos.org/specialtyday](http://aaos.org/specialtyday)
- Exhibits: [aaos.org/exhibits](http://aaos.org/exhibits)

**Contact Information**

**Registration**

- U.S. and Canada: (844)529-3707
- International: (508)743-8504

Email: AAOSMeeting@xpressreg.net

**Housing Bureau – MCI USA**

- U.S. and Canada: (800)931-6026
- International: (972)349-5558

Email: aaos@mcievents.com
Hotel Reservations
Don’t let your first-choice hotel get away! Now is the time to secure a room at your favorite Las Vegas hotel. MCI USA, AAOS’ official housing provider, has secured the lowest rates at some of the best hotels Las Vegas has to offer.

Be aware of fraudulent housing companies. Official AAOS housing for Las Vegas should only be accessed through the AAOS website – aaos.org/housing.

AAOS rates are available only through the AAOS Housing Bureau, MCI USA. Reservations are made on a first come, first served basis. Hotels closest (within walking distance) to the Venetian/Sands Expo 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.

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<thead>
<tr>
<th></th>
<th>US and Canada</th>
<th>International Individuals and Groups</th>
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<tbody>
<tr>
<td>Online</td>
<td>aaos.org/housing</td>
<td>aaos-igd.com</td>
</tr>
<tr>
<td>Phone</td>
<td>(800)931-6026</td>
<td>(305)865-4648</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:aaos@mcievents.com">aaos@mcievents.com</a></td>
<td><a href="mailto:aaos@internationalgroupsdepartment.com">aaos@internationalgroupsdepartment.com</a></td>
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<tr>
<td>Hours</td>
<td>8:00 AM to 5:00 PM Central Time</td>
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Cancellations/Changes/Refunds
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 19, 2019: Can be made online or by calling MCI USA at (800)931-6026.
• After February 25, 2019: Cancel directly with the hotel. Forward the date, time, and hotel cancellation number to MCI USA (aaos@mcievents.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 at the Venetian/Sands Expo starting Monday at 2:00 PM.

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 Bureau at aaos@mcievents.com or (800)931-6026 (US), (305)865-4648 (International).

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.

Transportation
Airlines
Call CorpTrav at (800)318-3846 or go to corptravonline.com to make your reservation online. A per reservation service fee of $15 (online) and $32 (telephone) is charged.

Airport
The McCarran International Airport (mccarran.com) is located 2 miles (15-minutes) from the world-famous Las Vegas Strip and 15 miles from downtown.

Airport Shuttle
Super Shuttle provides transportation from the airport to hotels and various other locations in Las Vegas for $10.00 (per person, one-way) or $20.00 (per person, round-trip). These fares include three (3) bags per person. Additional baggage may be subject to additional fees. Passengers can purchase tickets at the Airport Shuttle ticket booths located on the first level throughout the Baggage Claim area. Book online at shuttlelasvegas.com to receive a discounted rate of $10 (one-way) and $20 (round-trip).

Hotel Shuttles run between the hotels and the Venetian/Sands Expo starting Tuesday, March 12, at 6:30 AM through Saturday, March 16 at 6:00 PM. There will be no service between 10:00 AM and 3:00 PM.

Parking is available free of charge at the Venetian and Palazzo hotels as the Sands Expo does not have a parking lot.

Rental Car reservations can be made via the AAOS housing and travel website, MCI USA, your travel agent, or directly with rental car companies. AAOS has negotiated special rates for rental cars during the meeting. Call the number below and mention the discount code listed.

<table>
<thead>
<tr>
<th>Car Company</th>
<th>Phno</th>
<th>Code/Website</th>
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<tbody>
<tr>
<td>Hertz</td>
<td>CV#02KS0024 (800)654-2240 hertz.com</td>
<td></td>
</tr>
<tr>
<td>Avis</td>
<td>AWD#J095822 (800)331-1600 avis.com</td>
<td></td>
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Taxi Service from the airport ranges from $17 to $35 (one-way) according to the location of your hotel.
Focus on Mastering Your Specialty Practice

Take a deep dive into your specialty by choosing an Education Track with a variety of targeted sessions covering the most current, relevant and scientific knowledge and practices. Each Track includes up to five instructional courses and is offered in a specialist or general path.

Choose from 10 specialty areas and then select the individual programs that align with your level of expertise. Education Tracks cover:

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

Make the best use of your time by choosing the Education Track that will propel your practice and heighten your mastery.

Receive one FREE ICL with purchase

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