

**WOA Scientific Program**  
**Renaissance Indian Wells Resort, Indian Wells, CA**  
**Emerald Ballroom 4**  
**September 28-Oct 1, 2016**  
**(Presenters and times are subject to change.)**

**Thursday, September 29**

6:00 am – 6:45 am                      **Scientific E-Poster Session** (*Emerald Ballroom 1,2,3 & Pre-function 6-8*) (Presenters will be available to answer questions.)

6:45 am – 7:00 am                      **First Business Meeting**

7:00 am – 7:05 am                      **Welcome and Announcements**  
*John R. Tongue, MD, President*  
*Robert A. Hart, MD, Program Chair*

**General Session 1 – Foot & Ankle/Pediatrics**

Moderators:    James Meeker, MD, *Oregon Health & Science University, Portland, OR*  
                      Ronald J. Turker, MD, *Kaiser Permanente Sunnybrook, Portland, OR*

7:05 am – 7:11 am                      Early Versus Delayed Weightbearing After Microfracture For Talar Osteochondral Lesions  
*J. Banks Deal Jr., MD, Tripler Army Medical Center, Honolulu, HI*

7:11 am – 7:17 am                      The Role of Computed Tomography in Supination-Adduction Ankle Fractures  
*Ram K. Alluri, MD, Keck School of Medicine at University of Southern California, Los Angeles, CA*

7:17 am – 7:23 am                      Radiographic Assessment Of Fibular Length Variance  
*Barkha Gurbani, MPH, MD, University of Texas Medical Branch, Galveston, TX*

7:23 am – 7:29 am                      Standardized Electronic Medical Record Note Templates Lead To Earlier Documentation Of Neurologic Injuries In Pediatric Patients With Supracondylar Humerus Fractures  
*Ryan P. Farmer, MD, MSc, Children's Hospital Colorado, Aurora, CO*

7:29 am – 7:35 am                      Postoperative Pain Control In Pediatric Scoliosis Patients  
*Hilda H. Kriel, MD, University of Texas Medical Branch, Galveston, TX*

7:35 am – 7:41 am Temporal Characteristics Of Meniscal Tears In Adolescents Undergoing ACL Reconstruction  
*Stephen D. Zoller, MD, University of California, Los Angeles, Los Angeles, CA*

7:41 am– 7:50 am Discussion

### **Symposium 1 – Pediatric Sports Injuries**

Moderator: Jeremy P. Bauer, MD, *Shriner’s Hospital for Children, Portland, OR*

7:50 am – 8:05 am Pediatric Sports Shoulder Injuries  
*Eric W. Edmonds, MD, Rady’s Children’s Hospital, San Diego, CA*

8:05 am – 8:20 am Pediatric Knee OCD  
*John D. Polousky, MD, Rocky Mountain Youth Sports Medicine Institute, Centennial, CO*

8:20 am – 8:35 am Pediatric Patellar Instability  
*Ronald J. Turker, MD, Kaiser Permanente Sunnybrook, Portland, OR*

8:35 am – 8:40 am Discussion

8:40 am – 9:00 am **Break – Please visit Exhibits (Emerald Ballrooms 5,6,7 & 8)**

### **General Session 2: Total Hip**

Moderators: William C. McMaster, MD, *UCI Medical Center Orthopaedics, Orange, CA*  
Kathryn Schabel, MD, *Oregon Health and Sciences University, Portland, OR*

9:00 am – 9:06 am Prophylactic Antibiotic Impregnated Calcium Sulfate Beads In High Risk Hip And Knee Arthroplasty  
*Adam Sassoon, MD, MS, University of Washington, Seattle, WA*

9:06 am – 9:12 am Fate Of Serum Cobalt Following Revision Of A Recalled Dual Modularity Femoral Component  
*Russell Cohen, MD, Tucson Orthopedic Institute, Tucson, AZ*

9:12 am – 9:18 am Efficacy Of Intra-Articular Hip Injections And Subsequent Surgery  
*Wilson Lai, BS, David Geffen School of Medicine at University of California, Los Angeles, Los Angeles, CA*

9:18 am – 9:24 am Spinopelvic Mobility On Late Dislocations In Total Hip Arthroplasty

*Nathanael Heckmann, MD, Keck School of Medicine at  
University of Southern California, Los Angeles, CA*

9:24 am – 9:30 am Discussion

**Concurrent PA Session 1 – Pediatric Fractures** (*Emerald Boardroom*)

Moderator: Jason S. Salden, PA-C, *Slocum Orthopedics, Eugene, OR*

9:00 am – 10:03 am Staying Out of Trouble and When to Refer  
*Daniel Fitzpatrick, MD, Slocum Orthopedics, Eugene, OR*

**Rapid Fire Session 3A – Total Hip** (*Emerald Ballroom 1*)

Moderators: Scott T. Ball, MD, *University of California, San Diego, CA*  
Dennis K. Collis, MD, *Slocum Orthopedics, Eugene, OR*

9:33 am – 9:37 am Hip Arthroplasty Closed Reduction: Fracture Table Technique  
And Clinical Experience  
*Justin S. Roth, DO, Riverside County Regional Medical Center,  
Moreno Valley, CA*

9:37 am – 9:41 am PRP and CellerateRX in Primary Total Joint Arthroplasty Wound  
Healing  
*David C. Evans, BA, Salt Lake Orthopedic Clinic, Salt Lake City,  
UT*

9:41 am – 9:45 am Frequency And Treatment Trends For Periprosthetic Femur  
Fractures In The United States  
*Thomas Kowalik, MD, Oregon Health and Science University,  
Portland, OR*

9:45 am – 9:48 am Discussion

9:48 am – 9:52 am Single-Center Experience with Closed Reduction of Hip  
Arthroplasty Dislocation  
*Nicholas G. Vance, MD, University of Texas Medical Branch,  
Galveston, TX*  
*\*Presented by Andrew Z. Coskey, MS*

9:52 am – 9:56 am Impact Of Anterior Versus Posterior Approach For Total Hip  
Arthroplasty On Post-Acute Care Service Utilization  
*John S. Cox, MD, Oregon Health and Science University,  
Portland, OR*

9:56 am – 10:00 am Obesity Is Associated With Early Total Hip Revision For Aseptic  
Loosening: A 10-Year Follow-Up

*L. Henry Goodnough, MD, PhD, Stanford Hospitals and Clinics, Stanford, CA*

10:00 am – 10:03 am Discussion

**Rapid Fire Session 3B – Trauma/Upper Extremity (Emerald Ballroom 2)**

Moderators: Amer J. Mirza, MD, *Summit Orthopaedics, Portland, OR*  
Andrew M. Choo, MD, *University of Texas Health Science Center, Houston, TX*

9:33 am – 9:37 am Does Concurrent Fibular Fixation And Intramedullary Tibial Nailing Increase Rates Of Tibial Nonunion?  
*Michael Githens, MD, Harborview Medical Center, Seattle, WA*

9:37 am – 9:41 am Midshaft Clavicle Fractures: A Meta-Analysis Comparing Surgical Fixation Via Anteroinferior Plating vs. Superior Plating  
*Peter S. Vezeridis, MD, Univeristy of California Los Angeles, Los Angeles, CA*

9:41 am – 9:45 am Infections Associated With Open Tibia Fractures In Ethiopia  
*Adam H. Kantor, BA, University of California, Irvine, Irvine, CA*

9:45 am – 9:48 am Discussion

9:48 am – 9:52 am Stability By Peripheral Peg Number In Modern TSA Glenoid Components  
*Eugene F. Stautberg III, MD, University of Texas Medical Branch, Galveston, TX*

9:52 am – 9:56 am Males With Glenohumeral Arthritis Have Worse Glenoid Pathology Than Females Despite Similar Pre-Morbid Morphology  
*Michael H. Amini, MD, Southwest Orthopaedic Surgery Specialists, Tucson, AZ*

9:56 am – 10:00 am Topical And Intravenous Tranexamic Acid Are Equivalent In Shoulder Arthroplasty  
*Matthew D. Budge, MD, Kaiser Permanente, Salem, OR*

10:00 am – 10:03 am Discussion

**Rapid Fire Session 3C – Foot & Ankle (Emerald Ballroom 3)**

Moderators: Stephen K. Benirschke, MD, *University of Washington, Seattle, WA*  
Glenn B. Pfeffer, MD, *Cedars-Sinai Medical Center, Los Angeles, CA*

9:33 am – 9:37 am Return To Active Duty Lifestyle After Modified Brostrom

*Thomas J. Melton, MD, Madigan Army Medical Center, Tacoma, WA*

*\*Presented by CPT Matti P. Asuma, MD*

9:37 am – 9:41 am      A Biomechanical Analysis Of Fixation Methods For The Posterior Malleolus  
*Chase Bennett, MD, Stanford University, Stanford, CA*

9:41 am – 9:45 am      Complications Following ORIF Of Closed Calcaneus Fractures In Medicare Population  
*Benjamin V. Kelley, BA, David Geffen School of Medicine at University of California, Los Angeles, Los Angeles, CA*

9:45 am – 9:48 am      Discussion

9:48 am – 9:52 am      Characterization And Incidence Of Missed Posterior Malleolus Fractures  
*CPT Shawn Gee, MD, Tripler Army Medical Center, Honolulu, HI*

9:52 am – 9:56 am      Calcaneus Fracture And Psychiatric Illness Or Use Of Psychotropic Medication  
*Cory F. Janney, MD, University of Texas Medical Branch, Galveston, TX*

9:56 am – 10:00 am      Mini-Open Approach To Weber B Fibula Fractures  
*Tyler Gonzalez, MD, MBA, Massachusetts General Hospital/Harvard Medical School, Boston, MA*

10:00 am – 10:03 am      Discussion

**Rapid Fire Session 3D – Spine/Pediatrics (Emerald Ballroom Pre-Function 6-8)**

Moderator:    Jeremy P. Bauer, MD, *Shriner's Hospital for Children, Portland, OR*  
                  Rolando F. Roberto, MD, *University of California, Davis, Sacramento, CA*

9:33 am – 9:37 am      Spinal Fusion In Children With Osteogenesis Imperfecta: A Nationwide Perspective Over A 12 Year Period  
*Christopher M. Belyea, MD, Tripler Army Medical Center, Honolulu, HI*

9:37 am – 9:41 am      Pre-Operative Urinary Symptoms In Patients Undergoing Elective Lumbar Spine Surgery  
*Elizabeth Lieberman, MD, Oregon Health and Science University, Portland, OR*

- 9:41 am – 9:45 am Antibiotic Therapy In A Mouse Model Of Spine Implant Infection  
*Daniel Johansen, BS, David Geffen School of Medicine at University of California, Los Angeles, Los Angeles, CA*
- 9:45 am – 9:50 am Discussion
- 9:50am – 9:54 am Indications And Outcomes Of Sacroiliac Arthrodesis: A Systematic Review Of The Literature  
*Travis Philipp, MD, Oregon Health and Science University, Portland, OR*
- 9:54 am – 9:58 am Monitor Progression Of Adolescent Idiopathic Scoliosis With Scoliometer  
*Aaron Beck, MD, Harbor University of California Medical Center, Torrance, CA*
- 9:58 am – 10:03 am Discussion
- 10:03 am – 10:23 am* **Break – Please visit Exhibits (Emerald Ballrooms 5,6,7 & 8)**

#### **General Session 4 – AAOS, Presidential Guest Speaker**

Moderator: John R. Tongue, MD, *Cascade Orthopaedic Group, Tualatin, OR*

- 10:23 am – 10:25 am Introduction of AAOS President  
*John R. Tongue, MD, Cascade Orthopaedic Group, Tualatin, OR*
- 10:25 am – 10:35 am AAOS Report  
*Gerald R. Williams Jr., MD, The Rothman Institute, Philadelphia, PA*
- 10:35 am – 10:40 am Introduction of Presidential Guest Speaker  
*John R. Tongue, MD, Cascade Orthopaedic Group, Tualatin, OR*
- 10:40 am – 11:25 am **Presidential Guest Speaker**  
Improving the Quality of Elective Orthopaedic Care – An International Problem  
*Mr. Timothy Briggs MBBS (Hons), MD(Res), MCh(Orth), FRCS(Ed), FRCS(Eng), Royal National Orthopaedic Hospital at Stanmore, London, England*

#### **Symposium 2 – Social Media in Orthopedics: Online Reputation Management and The Use of Twitter and Facebook**

Moderator: Basil R. Besh, MD, *Fremont Orthopaedic & Rehabilitative Medicine, Fremont, CA*

- 11:25 am – 11:40 am Online Reputation Management

*Basil R. Besh, MD, Fremont Orthopaedic & Rehabilitative  
Medicine, Fremont, CA*

11:40 am – 11: 55 am                      The Value of Twitter and Other Social Media in Orthopaedic  
Practice  
*Ronald A. Navarro, MD, Kaiser Permanente, Harbor City, CA*

11:55 am – 12:10 pm                      How to get Started in Social Media...Its Easier than You Think  
*Steve A. Mora, MD, Restore Orthopedics and Spine Center,  
Orange, CA*

12:10 pm – 12:15 pm                      Discussion

12:15 pm – 1:15 pm                      **WOA Luncheon - Industry Presentations**  
**Mallinckrodt Pharmaceutical**  
Is Your Perioperative Analgesia Protocol Up To Date?  
*Todd Swenning, MD*  
**Ethicon**  
\*CME Credit Not Available

### **Symposium 3 – Total Joint Arthroplasty**

Moderator: Jay R. Lieberman, MD, *University of Southern California, Los Angeles, CA*

1:15 pm – 1:27 pm                      Highly Cross Linked Polyethylene – Is Wear No Longer An  
Issue?  
*James I. Huddleston III, MD, Stanford School of Medicine,  
Redwood City, CA*

1:27 pm -1:39 pm                      Dual Mobility Liners: A Hip for All Seasons?  
*Geoffrey H. Westrich, MD, Hospital for Special Surgery, New  
York, NY*

1:39 pm – 1:51 pm                      Bearing Surface Selections in 2016  
*Jay R. Lieberman, MD, University of Southern California,  
Los Angeles, CA*

1:51 pm – 2:05 pm                      Discussion

### **Resident Review Program (Emerald Boardroom)**

2:05 pm – 3:05 pm                      Orthopaedic Career Opportunities (Corporate, Academic, Private  
Practice & Non-Profit/Government)  
Moderator: Robert A. Hart, MD, *Oregon Health & Science  
University, Portland, OR*  
Panel:  
*Chad Maclachlan, MD, Kaiser Foundation Hospital, Vallejo, CA*

*Payam Tabrizi, MD, Santa Clara Valley Orthopedics, San Jose, CA*

*Jacqueline Munch MD, Oregon Health & Science University, Portland, OR*

*Nicholas J. Giori, MD, PhD, Stanford University School of Medicine, Redwood City, CA*

*Jennifer M. van Warmerdam MD, San Francisco, CA*

3:05 pm – 4:05 pm

ABOS Oral Board Tips And Tricks

(Residents Are Encouraged To Bring Practice Cases)

*Milton “Chip” Routt Jr., MD, University of Texas Health Science Center, Houston, TX*

*Jacqueline Munch, MD, Oregon Health & Science University, Portland, OR*

*Kathryn Schabel, MD, Oregon Health & Science University, Portland, OR*

4:05 pm – 4:15 pm

The Importance of Staying Engaged with the Orthopaedic Community

*Omer Ilahi, MD, South West Orthopedic Group/Texas Arthroscopy & Sports Medicine Institute, Houston, TX*

4:15 pm – 4:45 pm

DECADE

*Payam Tabrizi, MD, Santa Clara Valley Orthopedics, San Jose, CA*

4:45 pm – 5:05 pm

The Legal Differences between a W-2 Employee and a 1099 Employee

*Art McOmber, Legally Mine, Orem, UT*

5:05 pm – 5:35 pm

**Multimedia Education Session** (*Emerald Ballroom Foyer*)

## **Friday, September 30**

6:00 am – 7:00 am

**Scientific E-Poster Session** (*Emerald Ballroom 1,2,3 & Pre-function 6-8*) (Presenters will be available to answer questions.)

7:00 am – 7:05 am

**Announcements**

*Robert A. Hart, MD, Program Chair*

## **General Session 5 – WOA/OREF Young Investigator Awards**

Moderator: Robert A. Hart, MD, *Spinal Deformity for Swedish Hospital System, Seattle, WA*

7:05 am – 7:11 am

Obesity Is Associated With Early Total Hip Revision For Aseptic Loosening



*Derek F. Amanatullah, MD, PhD, Stanford University School of Medicine, Redwood City, CA*

- 7:11 am – 7:17 am      The Scandanavian Total Ankle Replacement: Patient Outcomes At 15 Year Follow-Up  
*Ariel Palanca, MD, Stanford University Medical Center, Stanford, CA*
- 7:17 am – 7:23 am      Vitamin D Deficiency In Patients With Osteoarthritis Undergoing Total Knee Arthroplasty  
*Kathryn Schabel, MD, Oregon Health and Sciences University, Portland, OR*
- 7:23 am – 7:30 am      Discussion
- Concurrent PA Session 2 – Understanding MRIs (Emerald Boardroom)**  
Moderator:    Jason S. Salden, PA-C, *Slocum Orthopedics, Eugene, OR*
- 7:05 am – 8:20 am      50 Shades of Grey: Understanding MRIs  
*Richard Rolfes, MD, ProScan, Cincinnati, OH*
- General Session 6 – WOA Resident Awards**  
Moderator:    Robert A. Hart, MD, *Spinal Deformity for Swedish Hospital System, Seattle, WA*
- 7:30 am – 7:36 am      Critical Findings On MR-Arthrogram In Posterior Shoulder Instability  
*MAJ Joseph W. Galvin, DO, Madigan Army Medical Center, Tacoma, WA*
- 7:36 am – 7:42 am      Fibroadipogenic Progenitor Cells Cause Fatty Infiltration in Murine Rotator Cuff Tears  
*Andrew R. Jensen, MD, MBE, University of California at Los Angeles, Los Angeles, CA*
- 7:42 am – 7:48 am      Curcumin’s Modulatory Effects On Inflammation In Animal Model Of Tendon Healing  
*Nathan Moroski, MD, University of California, Irvine, Orange, CA*
- 7:48 am – 7:54 am      Knee Sepsis Following Suprapatellar Medullary Nailing Of Open Tibia Fractures  
*Luke T. Nicholson, MD, University of Southern California, Los Angeles, CA*
- 7:54 am – 8:00 am      Digital Radiography In Total Hip Arthroplasty: Technique And Clinical Results

*Sanjum Samagh, MD, Cedars-Sinai Medical Center, Los Angeles, CA*

8:00 am – 8:06 am Proximal Tibia Anterior Closing Wedge Osteotomy Effects On ACL Force  
*Kent T. Yamaguchi, MD, University of California Los Angeles, Los Angeles, CA*

8:06 am – 8:12 am Previous Lumbar Fusion Poses Risk For Postoperative Total Hip Instability  
*Philip J. York, MD, University of Colorado, Aurora, CO*

8:12 am – 8:20 am Discussion

8:20 am – 8:40 am **Break – Please visit Exhibits (Emerald Ballrooms 5,6,7 & 8)**

**General Session 7 – BOC Report and Howard Steel Lecture**

Moderator: John R. Tongue, MD, *Cascade Orthopaedic Group, Tualatin, OR*

8:40 am – 8:50 am **BOC Report**  
*Bryan S. Moon, MD, MD Anderson Cancer Center, Houston, TX*

8:50 am – 8:58 am **Western Orthopaedic Foundation Report**  
*Robert R. Slater Jr., MD, Folsom, CA*

8:58 am – 9:03 am **Introduction of Howard Steel Lecturer**  
*John R. Tongue, MD, Cascade Orthopaedic Group, Tualatin, OR*

9:03 am – 9:50 am **Howard Steel Lecture**  
Lincoln's Sermon on the Mount: The Second Inaugural  
*Ronald C. White, Jr., PhD, La Canada, CA*

**Rapid Fire Session 8A – Sports (Emerald Ballroom 1)**

Moderators: Matthew J. Matava, MD, *Washington University School of Medicine, St. Louis, MO*  
Dean K. Matsuda, MD, *DISC Sports and Spine, Marina del Rey, CA*

9:53 am – 9:57 am Hip Arthroscopy Trends In The United States: An Update Following Coding Changes In 2011  
*Jeremy Truntzer, MD, Stanford University, Redwood City, CA*

9:57 am – 10:01 am Obesity Predicts Increased Healthcare Utilization For Patients Undergoing ACL Reconstruction  
*Daniel J. Lorenzana, BA, Keck School of Medicine at University of Southern California, Los Angeles, CA*

10:01 am – 10:05 am Benzoyl Peroxide -Clindamycin Skin Preparation Decreases P-Acnes Colonization In Shoulder Arthroscopy  
*Wesley M. Nottage, MD, The Sports Clinic, Laguna Hills, CA*

10:05 am – 10:09 am Discussion

10:09 am – 10:13 am Cyclic And Load To Failure Of All-Suture Anchors In Synthetic Bone  
*Nathan Douglass, MD, Stanford University Medical Center, Stanford, CA*  
*\*Presented by Tyler Johnston*

10:13 am – 10:17 am Anterior Cruciate Ligament Injury At Time Of Pediatric Tibial Eminence Fractures  
*Meredith Mayo, MD, University of Colorado, Aurora, CO*

10:17 am – 10:21 am Arthroscopic Mechanical Chondroplasty Of The Knee Is Beneficial For Treatment Of Focal Cartilage Lesions In The Absence Of Concurrent Pathology  
*Michael Rose, MD, Oregon Health and Science University, Portland, OR*

10:21 am – 10:25 am Platelet-Rich Plasma In Orthopaedic Surgery: The Assessment Of Quality, Accuracy, And Readability Of Online Patient Resources  
*Jason H. Ghodasra, MD, MSCI, University of California, Los Angeles, Los Angeles, CA*

10:25 am – 10:30 am Discussion

**Rapid Fire Session 8B – Pediatrics (Emerald Ballroom 2)**

Moderators: Ronald J. Turker, MD, *Kaiser Permanente Sunnybrook, Portland, OR*  
Ellen M. Raney, MD, *Shriners Hospitals for Children, Portland, OR*

9:53 am – 9:57 am Midterm Outcomes Of Growth Manipulation In Infantile Blount's Disease  
*Carlos Meheux, MD, Houston Methodist Hospital, Houston, TX*

9:57 am – 10:01 am Intrinsic Hypoplasia Of The Osseous Structures In Patients With Unilateral Clubfoot: The Influence Of Distance From The Epicenter Of Pathology  
*Jennifer Beck, MD, Orthopedic Institute for Children, Los Angeles, CA*

- 10:01 am – 10:05 am      Definitive Diagnosis Of Children Presenting To A Pediatric Emergency Department With Fever And Extremity Pain  
*Nicolas V. Vardiabasis, DO, Riverside University Health System, Moreno Valley, CA*
- 10:05 am – 10:09 am      Discussion
- 10:09 am – 10:13 am      Ballistic Spine Trauma In The U.S. Pediatric Population  
*Mitchell C. Harris, MD, Tripler Army Medical Center, Honolulu HI*
- 10:13 am – 10:17 am      Continuous Local Infusion Analgesia After Pediatric Foot And Ankle Surgery  
*Julia S. Sanders, MD, University of Colorado School of Medicine, Aurora, CO*
- 10:17 am – 10:21 am      Pediatric Orthopaedic Related Injuries Associated With Recreational Trampoline Use  
*John D. Johnson, DO, Tripler Army Medical Center, Honolulu, HI*
- 10:21 am – 10:25 am      The Use Of 3D Printers In Hip Preservation Surgery  
*Brian Haus, MD, Shriners Hospital Northern California, Sacramento, CA*
- 10:25 am – 10:30 am      Discussion
- Rapid Fire Session 8C – Total Knee/Total Hip (Emerald Ballroom 3)**  
Moderators:    James I. Huddleston III, MD, *Stanford School of Medicine, Redwood City, CA*  
                      Andrew I. Spitzer, MD, *Cedars-Sinai, Los Angeles, CA*
- 9:53 am – 9:57 am      Precision And Reproducibility Of Tibial Component Rotation On CT Scans  
*Derek F. Amanatullah, MD, PhD, Stanford University School of Medicine, Redwood City, CA*
- 9:57 am – 10:01 am      Tibiofemoral Dislocation Following Total Knee Arthroplasty  
*Rishabh Jethanandani, BSE, Stanford University Medical Center, Redwood City, CA*
- 10:01 am – 10:05 am      Wound Vacuum Dressings Effect On Complications After Primary Knee Arthroplasty  
*CPT Joseph H. Dannenbaum, MD, Madigan Army Medical Center, Tacoma, WA*  
*\*Presented by Taylor Mansfield MD*

- 10:05 am – 10:09 am Discussion
- 10:09 am – 10:13 am Pulmonary Embolism Rates Following Total Knee Arthroplasty With Prophylactic Anticoagulation  
*Vincent Cheng, BA, Keck School of Medicine at University of Southern California, Los Angeles, CA*
- 10:13 am – 10:17 am Tribocorrosion In Primary THA With Metal On Polyethylene Bearings  
*John T. Dearborn, MD, Institute for Joint Restoration and Research, Fremont, CA*
- 10:17 am – 10:21 am Total Hip Replacement Using Anatomic Head Size Has Low Dislocation Rate In High Risk Patients  
*William T. Long, MD, Good Samaritan Hospital, Los Angeles, CA*
- 10:21 am – 10:25 am Properly Selected Homeless Veterans Have Good Outcomes Following TJA  
*Laura Lu, BS, Stanford University, Stanford, CA*
- 10:25 am – 10:30 am Discussion

**Rapid Fire Session 8D – Basic Science/Other** (*Emerald Ballroom Pre-Function 6-8*)

Moderators: William McMaster, MD, *UCI Medical Center Orthopaedics, Orange, CA*  
Jacqueline Munch, MD, *Oregon Health & Science University, Portland, OR*

- 9:53 am – 9:57 am Creation Of A Clinically Accurate Biomechanical Model For Vertical Femoral Neck Fractures  
*Christopher Bui, MD, University of California, Irvine, Orange, CA*
- 9:57 am – 10:01 am Biomechanical Analysis Of A Novel Buried Fixation Technique Using Headless Compression Screws  
*Alisa Alayan, MD, Cedars Sinai Medical Center, Los Angeles, CA*
- 10:01 am – 10:05 am Ulnar Variance For Diagnosing Essex-Lopresti Injury And Radiocapitellar Overstuffing  
*Garet C. Comer, MD, Stanford University School of Medicine, Redwood City, CA*  
*\*Presented by Gabrielle M. Paci, MD*
- 10:05 am – 10:09 am Discussion

- 10:09 am – 10:13 am                      Influence Of Female Orthopaedic Surgery Faculty On Female Residency Applicants  
*Alana M. Munger, BS, Keck School of Medicine at University of Southern California, Los Angeles, CA*
- 10:13 am – 10:17 am                      Intramedullary Nailing Of Sarcoma Bone Metastases  
*Bryan S. Moon, MD, MD Anderson Cancer Center, Houston, TX*
- 10:17 am – 10:21 am                      Postoperative Hypothermia In Orthopaedic Surgery: Incidence And Risk Factors  
*John P. Kleimeyer, MD, Stanford University, Redwood City, CA*
- 10:21 am – 10:25 am                      Cost Minimization Analysis for the Treatment of Acute Achilles Tendon Ruptures  
*Jeremy Truntzer, MD, Stanford University, Redwood City, CA*
- 10:25 am – 10:30 am                      Discussion

**Concurrent PA Session 3 – Ultrasound Usage (Emerald Boardroom)**

Moderator: Jason S. Salden, PA-C, *Slocum Orthopedics, Eugene, OR*

- 9:53 am – 10:50 am                      Hands-On Ultrasound Usage  
*Richard Rolfes, MD, ProScan, Cincinnati, OH*

10:30 am – 10:50 am                      **Break – Please visit Exhibits (Emerald Ballrooms 5,6,7 & 8)**

**Symposium 4 – Modern Trauma Pitfalls and Solutions**

Moderator: Milton “Chip” Rountt Jr., MD, *University of Texas Health Science Center, Houston, TX*

- 10:50 am – 11:02 am                      Resolving Selection Conflict - Sliding Hip Screw or IM Nail for Intertrochanteric Femur Fractures  
*Marc F. Swiontkowski, MD, University of Minnesota, Minneapolis, MN*
- 11:02 am – 11:14 am                      The Syndesmosis Injury in 2016 - Current Concepts and Controversies  
*Michael J. Gardner, MD, Stanford University School of Medicine, Stanford, CA*
- 11:14 am – 11:26 am                      The Unstable Patient with an Unstable Pelvic Ring Injury - What, When, How, and Why  
*Milton “Chip” Rountt Jr., MD, University of Texas Health Science Center, Houston, TX*
- 11:26 am – 11:38 am                      Discussion and Case Presentations

11:38 am – 12:38 pm

**WOA Luncheon - Industry Presentations**

**THINK Surgical**

Active Robotics for Total Joint Replacement

*William L. Bargar, MD*

**Pacira Pharmaceuticals, Inc.**

Postsurgical Pain Management

*Alexander P. Sah, MD*

\*CME Credit Not Available

**Symposium 5 – Management of Metastatic Spine Disease**

Moderator: Jacob M. Buchowski, MD, *Washington University School of Medicine, St. Louis, MO*

12:38 pm – 12:39 pm

Introduction

*Jacob M. Buchowski, MD, Washington University School of Medicine, St. Louis, MO*

12:39 pm – 12:51 pm

Operative Treatment

*Paul Santiago, MD, Washington University School of Medicine, St. Louis, MO*

12:51 pm – 1:03 pm

Radiation Therapy

*Clifford G. Robinson, MD, Washington University School of Medicine, St. Louis, MO*

1:03 pm – 1:15 pm

Interventional/Nonsurgical Treatment

*Jack W. Jennings, MD, PhD, Washington University School of Medicine, St. Louis, MO*

1:15 pm - 1:30 pm

Case Discussion

1:30 pm – 2:30 pm

**Scientific E-Poster Session** (*Emerald Ballroom 1,2,3 & Pre-function 6-8*) (Presenters will be available to answer questions.) (Poster Awards Decided)

2:30 pm – 4:30 pm

**Multimedia Education Session** (*Emerald Ballroom Foyer*)

**Saturday, October 1**

6:00 am – 7:00 am

**Scientific E-Poster Session** (*Emerald Ballroom 1,2,3 & Pre-function 6-8*) (Presenters will be available to answer questions.)

7:00 am – 7:15 am

**Second Business Meeting**

**General Session 9 – Total Knee/Upper Extremity**

Moderators: Jonathan T. Bravman, MD, *University of Colorado, Boulder, CO*

Robert J. Feibel, MD, *University of Ottawa, Ottawa, ON*

7:15 am – 7:21 am                      A Safe And Effective Protocol To Minimize Blood Transfusion  
And Venous Thromboembolic Disease After Primary Total Hip  
And Knee Arthroplasty  
*Joshua Campbell, MD, Cedars-Sinai, Los Angeles, CA*

7:21 am – 7:27 am                      Prospective, Randomized Evaluation Of The Quality Of Wound  
Closure With Barbed Versus Standard Suture After TJA  
*Alexander P. Sah, MD, Institute for Joint Restoration, Fremont,  
CA*

7:27 am – 7:33 am                      Uncemented Tantalum Patellar Components Have A High  
Fracture Rate  
*Jeremy Y. Chan, MD, Stanford University, Stanford, CA*

7:33 am – 7:39 am                      Digital Tomography For Detection Of Acute Occult Scaphoid  
Fractures  
*Liang Zhou, MD, Tripler Army Medical Center, Honolulu, HI*

7:39 am – 7:45 am                      Insurance Status Affects Postoperative Morbidity And  
Complication Rate After Shoulder Arthroplasty  
*Paul H. Yi, MD, University of California, San Francisco, San  
Francisco, CA*  
*\*Presented by Joseph W. Galvin, DO*

7:45 am – 7:50 am                      Discussion

**Concurrent PA Session 4 – Casting** (*Emerald Boardroom*)

Moderator:    Jason S. Salden, PA-C, *Slocum Orthopedics, Eugene, OR*

7:15 am – 8:30 am                      Casting Pearls  
*Jarred Gibson, ATC, Slocum Orthopedics, Eugene, OR*

**Rapid Fire Session 10A - Total Knee** (*Emerald Ballroom 1*)

Moderators:    Brian A. Jewett, MD, *Slocum Orthopedics, Eugene, OR*  
                     Kathryn Schabel, MD, *Oregon Health and Sciences University, Portland, OR*

7:53 am – 7:57 am                      Preoperative Systemic Sepsis in Prosthetic Joint Infection  
*Grace Xiong, BA, Stanford University, Stanford, CA*

7:57 am – 8:01 am                      More Bang For Your Bundle: Oxinium Femurs On All-  
Polyethylene Tibias  
*Adam Sassoon, MD, MS, University of Washington, Seattle, WA*



- 8:01 am – 8:05 am                      Local Versus Systemic Administration Of Tranexamic Acid In Primary Knee Replacement: A Meta-Analysis  
*Kevin A. Lawson, MD, University of Arizona, Tucson, AZ*
- 8:05 am – 8:09 am                      Discussion
- 8:09 am – 8:13 am                      Varus Tibial Alignment In TKA Decreases Strain In Cadaveric Tibias  
*Paul Mead, MD, St. Mary's Medical Center, San Francisco, CA*
- 8:13 am – 8:17 am                      Tibial Component Rotation Based On Landmark Selection And Surgeon Experience  
*Derek F. Amanatullah, MD, PhD, Stanford University School of Medicine, Redwood City, CA*
- 8:17 am – 8:21 am                      Claims versus Registry: Capturing Outcomes In Total Joint Arthroplasty  
*Joseph T. Patterson, MD, University of California, San Francisco, San Francisco, CA*
- 8:21 am – 8:25 am                      Knee Flexion At Time Of Hospital Discharge As Indication Of Ultimate Range Of Motion After Total Knee Arthroplasty  
*Alexander P. Sah, MD, Institute for Joint Restoration, Fremont, CA*
- 8:25 am – 8:30 am                      Discussion

**Rapid Fire Session 10B – Trauma** (*Emerald Ballroom 2*)

Moderators:    Amer J. Mirza, MD, *Summit Orthopaedics, Portland, OR*  
                      John A. Scolaro, MD, *University of California, Irvine, Orange CA*

- 7:53 am – 7:57 am                      Do You Know When Your Open Fractures Actually Receive Antibiotics?  
*Justin F. Lucas, MD, UC Davis Health System, Sacramento, CA*
- 7:57 am – 8:01 am                      Locked Plate Fixation Of Complex Comminuted Patellar Fractures  
*Tyler Moore, MD, University of California, Irvine, Orange, CA*
- 8:01 am – 8:05 am                      Race And Gender Influence Management Of Humerus Shaft Fracture  
*Dayton M. Opel, MD, Oregon Health & Science University, Portland, OR*
- 8:05 am – 8:09 am                      Discussion

- 8:09 am – 8:13 am                      Provisional Plating Of Closed Tibia Fractures  
*Justin Haller, MD, Harborview Medical Center, Seattle, WA*  
*\*Presented by Michael Githens, MD*
- 8:13 am – 8:17 am                      Can Manual Palpation To Detect Compartment Syndrome Be Taught?  
*Samuel E. Galle, MD, University of California, Irvine, Orange, CA*  
*\*Presented by Philip K. Lim, BS, MD*
- 8:17 am – 8:21 am                      Reduction Of Posterior Pelvic Ring Through Reduction Of Anterior Ring  
*Krishna C. Vemulapalli, MD, University of Texas Health, Houston, TX*
- 8:21 am – 8:25 am                      Mini-Fragment Fixation Is Equivalent To Bicortical Screws For Horizontal Medial Malleolus Fractures  
*Adam M. Wegner, MD, PhD, University of California Davis Medical Center, Sacramento, CA*
- 8:25 am – 8:30 am                      Discussion

**Rapid Fire Session 10C - Upper Extremity (Emerald Ballroom 3)**

Moderators:    Robert M. Orfaly, MD, *Oregon Health & Sciences University, Portland, OR*  
                          John G. Costouros, MD, FACS, *Stanford Health Care, Redwood City, CA*

- 7:53 am – 7:57 am                      Bennett Fractures: A Biomechanical Model and Its Relevant Ligamentous Anatomy  
*Jason R. Kang, MD, Stanford University School of Medicine, Stanford, CA*
- 7:57 am – 8:01 am                      Is The Appropriate Use Criteria For Type II Supracondylar Humerus Fractures Really Appropriate?  
*Howard Y. Park, MD, University of California at Los Angeles, Los Angeles, CA*  
*\*Presented by Mauricio Silva, MD*
- 8:01 am – 8:05 am                      Operative Management Of Rotator Cuff Tears In The Medicare Population  
*Andrew R. Jensen, MD, MBE, University of California at Los Angeles, Los Angeles, CA*
- 8:05 am – 8:09 am                      Discussion
- 8:09 am – 8:13 am                      Effect Of Wrist And Finger Loading And Thumb Position On Scaphoid Fracture Displacement

*Tyler Moore, MD, University of California, Irvine, Orange, CA*

- 8:13 am – 8:17 am      Reduced-Dose Computed Tomography To Detect Radius Screw Penetration  
*Kevin J. Leffers, MD, University of Texas Medical Branch, Galveston, TX*  
*\*Presented by Ronald W. Lindsey, MD*
- 8:17 am – 8:21 am      Premorbid Version Affects Pathologic Morphology In Patients Undergoing Total Shoulder Arthroplasty  
*Michael H. Amini, MD, Southwest Orthopaedic Surgery Specialists, Tucson, AZ*
- 8:21 am – 8:25 am      Characterizing the Propionibacterium Load in Revision Shoulder Arthroplasty - A Study of 137 Culture Positive Cases  
*Zahab S. Ahsan, MD, University of Washington, Seattle, WA*
- 8:25 am – 8:30 am      Discussion

**Rapid Fire Session 10D – Spine** (*Emerald Ballroom Pre-Function 6-8*)

Moderators:    Nitin N. Bhatia, MD, *University of California, Irvine, Irvine, CA*  
                  Eric Klineberg, MD, *University of California, Davis, Sacramento, CA*

- 7:53 am – 7:57 am      Lumbar MRI Findings In Patients With And Without Waddell Signs  
*John S. Cox, MD, Oregon Health and Science University, Portland, OR*
- 7:57 am – 8:01 am      Chondrosarcoma Of The Osseous Spine: An Analysis Of 974 Cases Using The SEER Registry  
*Armin Arshi, BS, David Geffen School of Medicine at University of California, Los Angeles, Los Angeles, CA*
- 8:01 am – 8:05 am      Does Age Influence The Outcome Of Demineralized Bone Matrix Enriched With Concentrated Bone Marrow Aspirate In Lumbar Fusions?  
*Remi M. Ajiboye, MD, MPH, University of California at Los Angeles Medical Center, Los Angeles, CA*
- 8:05 am – 8:11 am      Discussion
- 8:11 am – 8:15 am      The Routine Use Of Intraoperative Neuromonitoring During ACDFs For The Treatment Of Spondylotic Myelopathy And Radiculopathy Is Questionable: A Review Of 15395 Cases  
*Remi M. Ajiboye, MD, MPH, University of California at Los Angeles Medical Center, Los Angeles, CA*

- 8:15 am – 8:19 am                      Quality Measures In Spine Surgery  
*Chase Bennett, MD, Stanford University, Stanford, CA*
- 8:19 am – 8:23 am                      Validation Of The ICD-9 Invasiveness Index For Spine Surgery  
*David J. Wright, MS, University of California, Irvine, Orange, CA*
- 8:23 am – 8:30 am                      Discussion
- 8:30 am – 8:55 am                      **Break – Visit Exhibits** (*Emerald Ballrooms 5,6,7 & 8*)

**Symposium 6 – Shoulder/Elbow**

Moderator: Robert M. Orfaly, MD, *Oregon Health & Sciences University, Portland, OR*

- 8:55 am – 9:07 am                      The Role of Reverse TSA for Cuff Deficiency and Revision  
*Robert M. Orfaly, MD, Oregon Health & Sciences University, Portland, OR*
- 9:07 am – 9:19 am                      Use of RTSA for Fracture and Complex Instability  
*Jonathan T. Bravman, MD, CU Sports Medicine Center, Denver, CO*
- 9:19 am – 9:31 am                      Reverse Arthroplasty: Is Over Utilization a Problem?  
*Gerald R. Williams Jr., MD, The Rothman Institute, Philadelphia, PA*
- 9:31 am – 9:45 am                      Discussion

**General Session 11 – OREF and Presidential Address**

Moderator: Robert A. Hart, MD, *Spinal Deformity for Swedish Hospital System, Seattle, WA*

- 9:45 am - 9:50 am                      **OREF Update**  
*Richard F. Santore, MD, San Diego, CA*
- 9:50 am – 9:55 am                      **JBJS Update**  
*Marc F. Swiontkowski, MD, University of Minnesota, Minneapolis, MN*
- 9:55 am – 10:25 am                      **Presidential Address**  
Roadway Trauma: Patterns and Prevention  
*John R. Tongue, MD, Cascade Orthopaedic Group, Tualatin, OR*
- 10:25 am – 10:35 am                      **Refreshment Break** (*Emerald Ballroom Foyer*)

**Symposium 7 – Shoulder Dislocations**

Moderator: Richard A. Marder, MD, *University of California, Davis, Sacramento, CA*

10:25 am – 10:32 am Arthroscopic Labral Repair for Recurrent Anterior Dislocation

10:32 am – 10:39 am Management of Recurrent Posterior Dislocation

10:39 am – 10:46 am Management of Multi-Directional Instability

10:46 am – 10:53 am Treatment of Anterior Dislocation with Glenoid Bone Loss

10:53 am – 11:15 am Interesting Cases, Panel and Audience Participation

Panel:

*C. Benjamin Ma, MD, University of California, San Francisco, San Francisco, CA*

*James Van den Bogaerde, MD, University of California, Davis, Sacramento, CA*

*Richard A. Marder, MD, University of California, Davis, Sacramento, CA*

11:15 am – 11:55 am

**WOA Luncheon - Industry Presentation**

**Legally Mine**

Keys to Locking Out Lawsuits and Lowering Taxes

*Art McOmber*

\*CME Credit Not Available

### **General Session 12 – Sports/Trauma**

Moderators: Marc F. Swiontowski, MD, *University of Minnesota, Minneapolis, MN*

Omer Ilahi, MD, *South West Orthopedic Group/Texas Arthroscopy & Sports Medicine Institute, Houston, TX*

11:55 am – 12:01 pm

Biologic Augmentation Of Microfracture For Treatment Of Symptomatic Chondral Defects Of The Knee: A Systematic Review

*Armin Arshi, BS, David Geffen School of Medicine at University of California, Los Angeles, Los Angeles, CA*

12:01 pm – 12:07 pm

Cadaveric Intraarticular Pressure With Gravity And Pump Arthroscopic Systems

*Meredith Mayo, MD, University of Colorado, Aurora, CO*

\*Presented by Jonathan T. Bravman, MD

12:07 pm – 12:13 pm

Effects Of Low Serum Albumin On Outcomes After Knee Arthroscopy

*Nathanael Heckmann, MD, Keck School of Medicine at University of Southern California, Los Angeles, CA*

- 12:13 pm – 12:19 pm      The Hidden Zone of the Posterior Femoral Cartilage During Knee Arthroscopy  
*Sean S. Rajae, MD, Cedars-Sinai Medical Center, Los Angeles, CA*
- 12:19 pm – 12:25 pm      Dysplasia: Prevalence, Associated Findings, And Procedures From Large Multi-Center Study  
*Dean K. Matsuda, MD, DISC Sports and Spine, Marina del Rey, CA*
- 12:25 pm – 12:30 pm      Discussion
- 12:30 pm – 12:36 pm      Does Contralateral Templating Reliably Estimate Femoral Version for Fracture Fixation?  
*Daniel J. Lorenzana, BA, Keck School of Medicine at University of Southern California, Los Angeles, CA*
- 12:36 pm – 12:41 pm      Are Early Career Orthopaedic Surgeons Performing Less Complex Trauma Surgery?  
*Jacob D. Gire, MD, Stanford University, Redwood City, CA*
- 12:41 pm – 12:45 pm      Discussion
- 12:45 pm – 1:45 pm      **Scientific E-Poster Session** (*Emerald Ballroom 1,2,3 & Pre-function 6-8*) (Presenters will be available to answer questions.)
- 1:45 pm – 2:45 pm      **Multimedia Education Session** (*Emerald Ballroom Foyer*)