



Western Orthopaedic Association

80th Annual Meeting

September 28 - October 1, 2016
Renaissance Indian Wells
Indian Wells, CA

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WOA President's Welcome

Welcome to Indian Wells! Our 80th Annual Meeting you gives you the opportunity to experience, not only an excellent educational program, but also enjoy the stunning Renaissance Indian Wells Resort in the foothills of Palm Springs' Coachella Valley. Your educational program planned by Dr. Robert Hart and the WOA Program Committee promises to be an excellent scientific meeting with state-of-the-art symposia presented by expert faculty. There will also be Podium, Rapid Fire and E-poster abstract presentations.

My Presidential Guest Speaker is Mr. Timothy Briggs MD, who has served as Director of the Royal National Orthopaedic Hospital and as President of the British Orthopaedic Association. He will discuss his courageous leadership focused on improving access and outcomes for thousands of British patients. We are also honored to have Ronald C. White, Jr., PhD as our Howard Steel Lecturer. He is a wonderful speaker and brilliant writer who will inspire us all. I believe there is no better subject than American history to help us understand who we are and what it is to lead.

At the Welcome Reception on Thursday evening we will enjoy delicious food and an open bar, in a beautiful setting with the Santa Rosa Mountains in the background. On Friday evening the Exhibitor/Sponsor Reception is a casual opportunity to mingle with friends and colleagues and express our appreciation to those who have supported the meeting. Be sure to smile and get your picture taken with Sinatra & Monroe, who will then entertain us at our Gala Dinner; a fun social finale for the meeting.

There are many recreational activities planned; from the popular Jeep Adventure of the San Andreas Fault Line, to a fabulous Palm Springs Architecture Tour. If you are a biker, complimentary bikes are available. Oh, and for you golfers, don't forget the world famous WOA Golf Tournament on Friday. My wife, Nancy is planning special activities for all spouses, children and guests. On Thursday, there will be breakfast and a presentation about Palms Springs' architecture by Robert Imber, a local enthusiast of the desert's midcentury modern marvels. Also she invites you to participate on Friday morning in an informal discussion with renowned history professor and author, Dr. Ronald White, on the importance of teaching American history. Dr. White's Howard Steel Lectureship will follow immediately in the general session where he will present leadership lessons of Abraham Lincoln's Second Inaugural Address.

Nancy and I thank you for joining us in Indian Wells for a truly unforgettable meeting.

Program Chair



*Robert A. Hart, MD
Portland, OR*

Medical Director of Spinal Deformity
Swedish Hospital System in Seattle, WA

Presidential Guest Speaker



*Mr. Timothy Briggs
London, England*

Chair of the National Clinical Reference
Group for Specialized Orthopaedics
Thursday, 10:40 am

Howard Steel Lecturer



*Ronald C. White Jr., PhD
La Canada, CA*

Author of *A. Lincoln*
Friday, 9:00 am

Summary of Events

Wednesday, September 28

8:00 am – 5:00 pm
Board of Directors Meeting
 Malta Rooms A & B

12:00 pm – 5:00 pm
Meeting Registration
 Esmeralda Ballroom Foyer

12:00 pm – 5:00 pm
Exhibit Setup
 Esmeralda Ballrooms 5,6,7 & 8

12:00 pm – 5:00 pm
Speaker Ready Area
 Esmeralda Ballroom Foyer

Thursday, September 29

6:00 am – 6:45 am
Scientific E-Poster Session
 Esmeralda Ballrooms 1,2,3 & Pre-function 6-8
 Presenters will be available to answer questions.

6:00 am – 2:05 pm
Speaker Ready Area
 Esmeralda Ballroom Foyer

6:30 am – 2:05 pm
Meeting Registration
 Esmeralda Ballroom Foyer

6:45 am – 7:00 am
First Business Meeting
 Esmeralda Ballroom 4

6:45 am – 2:05 pm
Technical Exhibits, Continental Breakfast, Coffee Breaks and Daily Drawing
 Esmeralda Ballrooms 5,6,7 & 8

7:00 am – 7:05 am
Welcome and Announcements
 Esmeralda Ballroom 4

7:05 am – 7:50 am
General Session 1 – Foot & Ankle/Pediatrics
 Esmeralda Ballroom 4

7:50 am – 8:40 am
Symposium 1 - Pediatric Sports Injuries
 Esmeralda Ballroom 4

8:40 am – 9:00 am
Break - Please visit Exhibits
 Esmeralda Ballrooms 5, 6, 7 & 8

9:00 am – 9:30 am
General Session 2 – Total Hip
 Esmeralda Ballroom 4

KEY

⊙ Activity/Tour
 † Social Event

* Special Presentation
 ★ PA Session

9:00 am – 10:03 am

★ **Concurrent PA Session 1 – Pediatric Fracture**
 Esmeralda Boardroom

9:00 am – 10:30 am

† **Spouse/Children's Hospitality**

Malta Room A & B

Our guest speaker, Robert Imber, turned his love for architecture and the desert's modern marvels into a business. For over ten years, Robert has been doing what he loves most – showing Palm Springs' incredible architecture to visitors and telling them stories that only an avid, irrepressible architecture buff and preservation advocate would know.

Price: Included in Registration Fee or \$40 per Unregistered Adult Guest; \$20 per Unregistered Child (5-17 years)

9:33 am – 10:03 am

Rapid Fire Session 3A–D

Esmeralda Ballrooms 1, 2, 3, & Pre-Function 6-8

10:03 am – 10:23 am

Break - Please visit Exhibits

Esmeralda Ballrooms 5, 6, 7 & 8

10:23 am – 11:25 am

* **General Session 4 - AAOS, Presidential Guest Speaker**

Esmeralda Ballroom 4

Mr. Timothy Briggs MBBS (Hons), MD(Res), MCh(Orth), FRCS(Ed), FRCS(Eng)

11:25 am – 12:15 pm

Symposium 2 - Social Media in Orthopaedics: Online Reputation Management and the Use of Twitter and Facebook
 Esmeralda Ballroom 4

12:15 pm – 1:15 pm

* **WOA Luncheon – Industry Presentation**

Esmeralda Ballroom 4

Mallinckrodt Pharmaceuticals

Ethicon

*CME Credit Not Available

1:15 pm – 2:05 pm

Symposium 3 - Total Joint Arthroplasty

Esmeralda Ballroom 4

1:30 pm – 4:30 pm

⊙ **Jeep Adventures - San Andreas Fault Line**

Meet in Front Lobby

We whisk you away in our H1 Hummers to our first stop in the Colorado Sonoran Desert, the San Andreas Fault and Oasis. We guide you on a nature walk through the third largest Oasis in the world. Here, we will walk a palm lined trail and trek over a bridge above the San Andreas Fault where water gurgles out of the ground. This land is rich in geology, Native American, and Early Pioneer history. We will step inside a palm log cabin built by one of the first settlers of the area. Guests will board the Hummer and travel along an old goldmine trail into one of the oldest and most historic canyons in the country. Our narrated off-road journey rises about 2000 feet above the desert floor through beautiful canyon walls of granite and rock formations that have remained virtually unchanged for thousands of years.

Price: \$110 per person (minimum 5 people) includes gratuity

Summary of Events

2:05 pm – 5:05 pm

* **Resident Review Program**
Esmeralda Boardroom

5:05 pm – 5:35 pm

Multimedia Education Session
Esmeralda Ballroom Foyer

5:05 pm – 6:00 pm

† **Resident Reception**
Esmeralda Ballroom Foyer

6:00 pm – 7:00 pm

† **New Member Reception**
Presidential Suite, #7057
All WOA new members are invited to attend.
Price: Included in Registration Fee

7:00 pm – 9:30 pm

† **Welcome Reception**
Rose Lawn
Savor delicious food delicacies and an open bar, chat with friends and colleagues, and look out onto the Santa Rosa Mountains at the foothills of Palm Springs' Coachella Valley.
Attire: Resort Casual (no coat required)
Price: Included in Registration Fee or \$100 per Unregistered Adult Guest

Friday, September 30

6:00 am – 7:00 am

Regional and AAOS President's Breakfast Meeting with State Presidents and Board of Councilors
Monte Carlo Room

6:00 am – 7:00 am

Scientific E-Poster Session
Esmeralda Ballrooms 1,2,3 & Pre-function 6-8
Presenters will be available to answer questions.

6:00 am – 1:30 pm

Speaker Ready Area
Esmeralda Ballroom Foyer

6:30 am – 1:30 pm

Meeting Registration
Esmeralda Ballroom Foyer

6:45 am – 1:30 pm

Technical Exhibits, Continental Breakfast, Coffee Breaks and Daily Drawing
Esmeralda Ballrooms 5,6,7 & 8

7:00 am – 7:05 am

Announcements
Esmeralda Ballroom 4

7:05 am – 7:30 am

* **General Session 5: WOA/OREF Young Investigator Awards**
Esmeralda Ballroom 4

7:05 am – 8:20 am

★ **Concurrent PA Session 2 – Understanding MRIs**
Esmeralda Boardroom

KEY

⦿ **Activity/Tour**

† **Social Event**

* **Special Presentation**

★ **PA Session**

7:30 am – 8:20 am

* **General Session 6: WOA Resident Awards**
Esmeralda Ballroom 4

8:20 am – 8:40 am

Break - Please visit Exhibits
Esmeralda Ballrooms 5, 6, 7 & 8

8:40 am – 9:50 am

* **General Session 7 - BOC Report and Howard Steel Lecture**
Esmeralda Ballroom 4
Ronald C. White Jr., PhD

9:53 am – 10:30 am

Rapid Fire Session 8A-D
Esmeralda Ballrooms 1, 2, 3, & Pre-Function 6-8

9:53 am – 10:50 am

★ **Concurrent PA Session 3 – Ultrasound Usage**
Esmeralda Boardroom

10:00 am

† **Spouses' Discussion with Ron White**
Malta Room A & B
Please have breakfast on your own and listen to Dr. Ron White's presentation, *Lincoln's Sermon on the Mount: The Second Inaugural* at 9:00 am in the General Session. Then join fellow spouses and guests at 10:00 am for a discussion led by Dr. White on the importance of teaching American history.
Price: Included in Registration Fee

10:30 am – 10:50 am

Break - Please visit Exhibits
Esmeralda Ballrooms 5, 6, 7 & 8

10:50 am – 11:38 am

Symposium 4 - Modern Trauma Pitfalls and Solutions
Esmeralda Ballroom 4

11:38 am – 12:38 pm

* **WOA Luncheon – Industry Presentation**
Esmeralda Ballroom 4
THINK Surgical
DT MedSurg, LLC, a Data Trace Company (Seminar presentation supported by an unrestricted grant from Pacira Pharmaceuticals, Inc.)
*CME Credit Not Available

12:38 pm – 1:30 pm

Symposium 5 - Management of Metastatic Spine Disease
Esmeralda Ballroom 4

1:00 pm – 5:00 pm

⦿ **Golf Tournament** (1:00 pm Tee Time)
Meet in Front Lobby at 12:15
The Players Course (John Fought designed course) features a classic American design complete with sculpted bunkers. Most of the holes are oriented to take full advantage of jaw-dropping views of the San Jacinto, Santa Rosa and San Bernardino mountain ranges and the majestic Eisenhower Mountain stands sentinel to the south. The tournament will be a shotgun start with a scramble format.
Price: \$180 per person (Includes transportation, greens fee, lunch and beverage cart)

Summary of Events

KEY

⊙ Activity/Tour

✦ Social Event

* Special Presentation

★ PA Session

1:30 pm – 2:30 pm

Scientific E-Poster Session

Esmeralda Ballrooms 1,2,3 & Pre-function 6-8
Presenters will be available to answer questions.

1:30 pm – 4:30 pm

⊙ Palm Springs Modern Architecture Tour

Meet in Front Lobby

The tour includes the history of Palm Springs: the people who lived, worked and vacationed there, the Hollywood stars who played and built homes in Palm Springs and the architects, builders, and designers who, from the late 1930s through the early 1970s, developed the "desert modernism" style for which Palm Springs has become famous.

Price: \$78 Per Person (Minimum 20 People)

2:30 pm – 4:30 pm

Multimedia Education Session

Esmeralda Ballroom Foyer

5:30 pm – 7:30 pm

✦ Exhibitor Reception

Esmeralda Ballrooms 5,6,7 & 8

Before dinner, start your evening off with drinks and mingle with Frank Sinatra and Marilyn Monroe.

Price: Included in Registration Fee or \$75 per Unregistered Adult Guest

5:30 pm – 10:00 pm

✦ Kids' Movie Night with Arts & Crafts and Dinner

Esmeralda Ballroom 3

Dinner and a movie—fun!!! Watch a great movie and nibble on snacks and treats with your friends! If younger than 5 years old, must be accompanied by an adult. This is not a babysitting service, but provided only for parents attending the Gala Dinner; children must be registered.

Price: Included in Registration Fee or \$40 per Unregistered Child (5-17)

7:30 pm – 10:00 pm

✦ Family Gala Dinner

Crystal Ballroom G, H & I

Dinner will be an event to remember with a delicious meal, good company, and an entertainment from Sinatra and Monroe.

Attire: Jacket and Tie

Price: Included in Registration Fee or \$150 per Unregistered Adult Guest; \$75 Surcharge per Registered Child (5-17 years)

Saturday, October 1

6:00 am – 6:50 am

Board of Directors Meeting

Malta Room A & B

6:00 am – 7:00 am

Scientific E-Poster Session

Esmeralda Ballrooms 1,2,3 & Pre-function 6-8
Presenters will be available to answer questions.

6:00 am – 12:05 pm

Speaker Ready Area

Esmeralda Ballroom Foyer

6:30 am – 12:05 pm

Meeting Registration

Esmeralda Ballroom Foyer

6:45 am – 12:05 pm

Technical Exhibits, Continental Breakfast, Coffee Breaks and Daily Drawing

Esmeralda Ballrooms 5,6,7 & 8

7:00 am – 7:15 am

Second Business Meeting

Esmeralda Ballroom 4

7:15 am – 7:50 am

General Session 9 - Total Knee / Upper Extremity

Esmeralda Ballroom 4

7:15 am – 8:30 am

★ Concurrent PA Session 4 – Casting

Esmeralda Boardroom

7:53 am – 8:30 am

Rapid Fire Session 10A–D

Esmeralda Ballrooms 1, 2, 3 & Pre-Function 6-8

8:30 am – 8:55 am

Break - Please visit Exhibits

Esmeralda Ballrooms 5, 6, 7 & 8

8:55 am – 9:45 am

Symposium 6 - Shoulder/Elbow

Esmeralda Ballroom 4

9:45 am – 10:25 am

* General Session 11 - OREF and Presidential Address

Esmeralda Ballroom 4

John R. Tongue, MD

10:25 am – 11:15 am

Symposium 7 – Shoulder Dislocations

Esmeralda Ballroom 4

11:15 am – 11:55 am

WOA Luncheon – Industry Presentation

Esmeralda Ballroom 4

Legally Mine

*CME Credit Not Available

11:55 am – 12:45 pm

General Session 12 - Sports/Trauma

Esmeralda Ballroom 4

12:45 pm – 1:45 pm

Scientific E-Poster Session

Esmeralda Ballrooms 1,2,3 & Pre-function 6-8
Presenters will be available to answer questions.

1:45 pm – 2:45 pm

Multimedia Education Session

Esmeralda Ballroom Foyer

Check with the concierge for tram rides, the Living Desert Museum, Air Museum, complimentary biking, and shopping at El Paseo in Palm Desert.

Scientific Program Esmeralda Ballroom 4, Unless Otherwise Specified

CME ACCREDITATION

The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of 22 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

- *13.75 CME Credits for Scientific Program
- *3.5 CME Credits for Scientific E-Poster Sessions
- *4.75 CME Credits for Multimedia Education Sessions

To ensure correct CME credit is awarded, please complete the WOA 2016 Annual Meeting CME Credit Records online at www.woa-assn.org. CME Certificates will be awarded to all registered participants.

RADIOLOGY TECHNOLOGY CONTINUING MEDICAL EDUCATION

A maximum of 10 hours may be claimed for Radiology Technology Continuing Medical Education hours.

Thursday, September 29

6:00 am **Scientific E-Poster Session**
Esmeralda Ballrooms 1,2,3 & Pre-function 6-8
Presenters will be available to answer questions.

6:45 am **First Business Meeting**

7:00 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 Early Versus Delayed Weightbearing After Microfracture For Talar Osteochondral Lesions
J. Banks Deal Jr., MD, Tripler Army Medical Center, Honolulu, HI

7:11 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 Radiographic Assessment Of Fibular Length Variance
Barkha Gurbani, MPH, MD, University of Texas Medical Branch, Galveston, TX

7:23 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 Postoperative Pain Control In Pediatric Scoliosis Patients
Hilda H. Kriel, MD, University of Texas Medical Branch, Galveston, TX

7:35 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 Discussion

Symposium 1 – Pediatric Sports Injuries

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

7:50 am Pediatric Sports Shoulder Injuries
Eric W. Edmonds, MD, Rady's Children's Hospital, San Diego, CA

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

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

8:35 am Discussion

8:40 am **Break – Please visit Exhibits** Esmeralda 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 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 Fate Of Serum Cobalt Following Revision Of A Recalled Dual Modularity Femoral Component
Russell Cohen, MD, Tucson Orthopedic Institute, Tucson, AZ

9:12 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 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 Discussion

Concurrent PA Session 1 – Pediatric Fractures Esmeralda Boardroom
Moderator: Jason S. Salden, PA-C, Slocum Orthopedics, Eugene, OR

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

Rapid Fire Session 3A – Total Hip Esmeralda Ballroom 1
Moderators: Scott T. Ball, MD, University of California, San Diego, CA & Dennis K. Collis, MD, Slocum Orthopedics, Eugene, OR

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

Scientific Program Esmeralda Ballroom 4, Unless Otherwise Specified

9:37 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 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 Discussion

9:48 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 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 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 Discussion

Rapid Fire Session 3B – Trauma/Upper Extremity Esmeralda 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 Does Concurrent Fibular Fixation And Intramedullary Tibial Nailing Increase Rates Of Tibial Nonunion?
Michael Githens, MD, Harborview Medical Center, Seattle, WA

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

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

9:45 am Discussion

9:48 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 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 Topical And Intravenous Tranexamic Acid Are Equivalent In Shoulder Arthroplasty
Matthew D. Budge, MD, Kaiser Permanente, Salem, OR

10:00 am Discussion

Rapid Fire Session 3C – Foot & Ankle Esmeralda 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 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 A Biomechanical Analysis Of Fixation Methods For The Posterior Malleolus
Chase Bennett, MD, Stanford University, Stanford, CA

9:41 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 Discussion

9:50 am Characterization And Incidence Of Missed Posterior Malleolus Fractures
CPT Shawn Gee, MD, Tripler Army Medical Center, Honolulu, HI

9:54 am Calcaneus Fracture And Psychiatric Illness Or Use Of Psychotropic Medication
Cory F. Janney, MD, University of Texas Medical Branch, Galveston, TX

9:58 am Discussion

Rapid Fire Session 3D – Spine/Pediatrics Esmeralda Ballroom Pre-Function 6-8

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

9:33 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 Pre-Operative Urinary Symptoms In Patients Undergoing Elective Lumbar Spine Surgery
Elizabeth Lieberman, MD, Oregon Health and Science University, Portland, OR

9:41 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 Discussion

9:50 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 Monitor Progression Of Adolescent Idiopathic Scoliosis With Scoliometer
Aaron Beck, MD, University of California Harbor Medical Center, Torrance, CA

9:58 am Discussion

10:03 am **Break – Please visit Exhibits** Esmeralda 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 **Introduction of AAOS President**
John R. Tongue, MD, Cascade Orthopaedic Group, Tualatin, OR

10:25 am **AAOS Report**
Gerald R. Williams Jr., MD, The Rothman Institute, Philadelphia, PA

10:35 am **Introduction of Presidential Guest Speaker**
John R. Tongue, MD, Cascade Orthopaedic Group, Tualatin, OR

10:40 am **Presidential Guest Speaker**
Improving the Quality of Elective Orthopaedic Care – An International Problem

Scientific Program Esmeralda Ballroom 4, Unless Otherwise Specified

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 Online Reputation Management
Basil R. Besh, MD, Fremont Orthopaedic & Rehabilitative Medicine, Fremont, CA
- 11:40 am The Value of Twitter and Other Social Media in Orthopaedic Practice
Ronald A. Navarro, MD, Kaiser Permanente, Harbor City, CA
- 11:55 am 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 Discussion
- 12:15 pm **WOA Luncheon - Industry Presentation**
Mallinckrodt Pharmaceuticals
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 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 Dual Mobility Liners: A Hip for All Seasons?
Geoffrey H. Westrich, MD, Hospital for Special Surgery, New York, NY
- 1:39 pm Bearing Surface Selections in 2016
Jay R. Lieberman, MD, University of Southern California, Los Angeles, CA
- 1:51 pm Discussion

Resident Review Program Esmeralda Boardroom

- 2:05 pm **Orthopaedic Career Opportunities** (Corporate, Academic, Private Practice & Non-Profit/Government)
Moderator: Robert A. Hart, MD, Swedish Hospital System, Seattle, WA
- 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 **ABOS Oral Board Tips And Tricks**
Residents Are Encouraged To Bring Practice Cases
Milton "Chip" Rutt 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 **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 **DECADE**
Payam Tabrizi, MD, Santa Clara Valley Orthopedics, San Jose, CA

4:45 pm **The Legal Differences between a W-2 Employee and a 1099 Employee**
Art McOmber, Legally Mine, Orem, UT

5:05 pm **Multimedia Education Session** Esmeralda Ballroom Foyer

Friday, September 30

6:00 am **Scientific E-Poster Session**
Esmeralda Ballrooms 1,2,3 & Pre-function 6-8
Presenters will be available to answer questions.

7:00 am **Announcements**
Robert A. Hart, MD, Program Chair

General Session 5 – WOA/OREF Young Investigator Awards

Moderator: Robert A. Hart, MD, Swedish Hospital System, Seattle, WA

7:05 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 The Scandanavian Total Ankle Replacement: Patient Outcomes At 15 Year Follow-Up
Ariel Palanca, MD, Stanford University Medical Center, Stanford, CA

7:17 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 Discussion

Concurrent PA Session 2 – Understanding MRIs Esmeralda Boardroom

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

7:05 am 50 Shades of Grey: Understanding MRIs
Richard Rolfes, MD, ProScan, Cincinnati, OH

General Session 6 – WOA Resident Awards

Moderator: Robert A. Hart, MD, Swedish Hospital System, Seattle, WA

7:30 am Critical Findings On MR-Arthrogram In Posterior Shoulder Instability
MAJ Joseph W. Galvin, DO, Madigan Army Medical Center, Tacoma, WA

7:36 am Fibroadipogenic Progenitor Cells Cause Fatty Infiltration in Murine Rotator Cuff Tears
Andrew R. Jensen, MD MBE, University of California, Los Angeles, Los Angeles, CA

7:42 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 Knee Sepsis Following Suprapatellar Medullary Nailing Of Open Tibia Fractures
Luke T. Nicholson, MD, University of Southern California, Los Angeles, CA

7:54 am Digital Radiography In Total Hip Arthroplasty: Technique And Clinical Results
Sanjum Samagh, MD, Cedars-Sinai Medical Center, Los Angeles, CA

Scientific Program Esmeralda Ballroom 4, Unless Otherwise Specified

8:00 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 Previous Lumbar Fusion Poses Risk For Postoperative Total Hip Instability
Philip J. York, MD, University of Colorado, Aurora, CO

8:12 am Discussion

8:20 am **Break – Please visit Exhibits** Esmeralda 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 **BOC Report**
Bryan S. Moon, MD, MD Anderson Cancer Center, Houston, TX

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

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

9:03 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 Esmeralda 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 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 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 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 Discussion

10:09 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 Anterior Cruciate Ligament Injury At Time Of Pediatric Tibial Eminence Fractures
Meredith Mayo, MD, University of Colorado, Aurora, CO

10:17 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 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 Discussion

Rapid Fire Session 8B – Pediatrics Esmeralda 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 Midterm Outcomes Of Growth Manipulation In Infantile Blount's Disease
Carlos Meheux, MD, Houston Methodist Hospital, Houston, TX

9:57 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 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 Discussion

10:09 am Ballistic Spine Trauma In The U.S. Pediatric Population
Mitchell C. Harris, MD, Tripler Army Medical Center, Honolulu, HI

10:13 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 Pediatric Orthopaedic Related Injuries Associated With Recreational Trampoline Use
John D. Johnson, DO, Tripler Army Medical Center, Honolulu, HI

10:21 am The Use Of 3D Printers In Hip Preservation Surgery
Brian Haus, MD, Shriners Hospital Northern California, Sacramento, CA

10:25 am Discussion

Rapid Fire Session 8C – Total Knee/Total Hip Esmeralda 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 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 Tibiofemoral Dislocation Following Total Knee Arthroplasty
Rishabh Jethanandani, BSE, Stanford University Medical Center, Redwood City, CA

10:01 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 Discussion

10:09 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 Tribocorrosion In Primary THA With Metal On Polyethylene Bearings
John T. Dearborn, MD, Institute for Joint Restoration and Research, Fremont, CA

Scientific Program Esmeralda Ballroom 4, Unless Otherwise Specified

10:17 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 Properly Selected Homeless Veterans Have Good Outcomes Following TJA
Laura Lu, BS, Stanford University, Stanford, CA

10:25 am Discussion

Rapid Fire Session 8D – Basic Science/Other Esmeralda 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 Creation Of A Clinically Accurate Biomechanical Model For Vertical Femoral Neck Fractures
Christopher Bui, MD, University of California, Irvine, Orange, CA

9:57 am Biomechanical Analysis Of A Novel Buried Fixation Technique Using Headless Compression Screws
Alisa Alayan, MD, Cedras Sinai Medical Center, Los Angeles, CA

10:01 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 Discussion

10:09 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 Intramedullary Nailing Of Sarcoma Bone Metastases
Bryan Moon, MD, MD Anderson Cancer Center, Houston, TX

10:17 am Postoperative Hypothermia In Orthopaedic Surgery: Incidence And Risk Factors
John P. Kleimeyer, MD, Stanford University, Redwood City, CA

10:21 am Cost Minimization Analysis for the Treatment of Acute Achilles Tendon Ruptures
Jeremy Truntzer, MD, Stanford University, Redwood City, CA

10:25 am Discussion

Concurrent PA Session 3 – Ultrasound Usage Esmeralda Boardroom
Moderator: Jason S. Salden, PA-C, Slocum Orthopedics, Eugene, OR

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

10:30 am **Break – Please visit Exhibits** Esmeralda Ballrooms 5,6,7 & 8

Symposium 4 – Modern Trauma Pitfalls and Solutions
Moderator: Milton "Chip" Routh Jr., MD, University of Texas Health Science Center, Houston, TX

10:50 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 The Syndesmosis Injury in 2016 - Current Concepts and Controversies
Michael J. Gardner, MD, Stanford University School of Medicine, Stanford, CA

11:14 am The Unstable Patient with an Unstable Pelvic Ring Injury - What, When, How, and Why
Milton "Chip" Routh Jr., MD, University of Texas Health Science Center, Houston, TX

11:26 am Discussion and Case Presentations

11:38 am **WOA Luncheon - Industry Presentation**
THINK Surgical
Active Robotics for Total Joint Replacement
William L. Bargar, MD
DT MedSurg, LLC, a Data Trace Company (Seminar presentation supported by an unrestricted grant from 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 Introduction
Jacob M. Buchowski, MD, Washington University School of Medicine, St. Louis, MO

12:39 pm Operative Treatment
Paul Santiago, MD, Washington University School of Medicine, St. Louis, MO

12:51 pm Radiation Therapy
Clifford G. Robinson, MD, Washington University School of Medicine, St. Louis, MO

1:03 pm Interventional/Nonsurgical Treatment
Jack W. Jennings, MD, PhD, Washington University School of Medicine, St. Louis, MO

1:15 pm **Case Discussion**

1:30 pm **Scientific E-Poster Session**
Esmeralda Ballrooms 1,2,3 & Pre-function 6-8
Presenters will be available to answer questions. Poster awards decided.

2:30 pm **Multimedia Education Session** Esmeralda Ballroom Foyer

Saturday, October 1

6:00 am **Scientific E-Poster Session**
Esmeralda Ballrooms 1,2,3 & Pre-function 6-8
Presenters will be available to answer questions.

7:00 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 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 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

Scientific Program Esmeralda Ballroom 4, Unless Otherwise Specified

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

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

7:39 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 Discussion

Concurrent PA Session 4 – Casting Esmeralda Boardroom
Moderator: Jason S. Salden, PA-C, Slocum Orthopedics, Eugene, OR

7:15 am Casting Pearls
Jarred Gibson, ATC, Slocum Orthopedics, Eugene, OR

Rapid Fire Session 10A - Total Knee Esmeralda Ballroom 1
Moderators: Brian A. Jewett, MD, Slocum Orthopedics, Eugene, OR & Kathryn Schabel, MD, Oregon Health and Sciences University, Portland, OR

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

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

8:01 am Varus Tibial Alignment In TKA Decreases Strain In Cadaveric Tibias
Paul Mead, MD, St. Mary's Medical Center, San Francisco, CA

8:05 am Discussion

8:11 am Tibial Component Rotation Based On Landmark Selection And Surgeon Experience
Derek F. Amanatullah, MD, PhD, Stanford University School of Medicine, Redwood City, CA

8:15 am Claims versus Registry: Capturing Outcomes In Total Joint Arthroplasty
Joseph T. Patterson, MD, University of California, San Francisco, San Francisco, CA

8:19 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

8:24 am Discussion

Rapid Fire Session 10B – Trauma Esmeralda Ballroom 2
Moderators: Amer J. Mirza, MD, Summit Orthopaedics, Portland, OR & John A. Scolaro, MD, University of California, Irvine, Orange CA

7:53 am Do You Know When Your Open Fractures Actually Receive Antibiotics?
Justin F. Lucas, MD, UC Davis Health System, Sacramento, CA

7:57 am Locked Plate Fixation Of Complex Comminuted Patellar Fractures
Tyler Moore, MD, University of California, Irvine, Orange, CA

8:01 am Race And Gender Influence Management Of Humerus Shaft Fracture
Dayton M. Opel, MD, Oregon Health & Science University, Portland, OR

8:05 am Discussion

8:09 am Provisional Plating Of Closed Tibia Fractures
Justin Haller, MD, Harborview Medical Center, Seattle, WA
*Presented by Michael Githens, MD

8:13 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 Reduction Of Posterior Pelvic Ring Through Reduction Of Anterior Ring
Krishna C. Vemulapalli, MD, University of Texas Health, Houston, TX

8:21 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 Discussion

Rapid Fire Session 10C - Upper Extremity Esmeralda 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 Bennett Fractures: A Biomechanical Model and Its Relevant Ligamentous Anatomy
Jason R. Kang, MD, Stanford University School of Medicine, Stanford, CA

7:57 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 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 Discussion

8:09 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 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 Premorbid Version Affects Pathologic Morphology In Patients Undergoing Total Shoulder Arthroplasty
Michael H. Amini, MD, Southwest Orthopaedic Surgery Specialists, Tucson, AZ

8:21 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 Discussion

Rapid Fire Session 10D – Spine Esmeralda 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

Scientific Program Esmeralda Ballroom 4, Unless Otherwise Specified

7:53 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 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 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 Discussion

8:11 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 Quality Measures In Spine Surgery
Chase Bennett, MD, Stanford University, Stanford, CA

8:19 am Validation Of The ICD-9 Invasiveness Index For Spine Surgery
David J. Wright, MS, University of California, Irvine, Orange, CA

8:23 am Discussion

8:30 am **Break – Please Visit Exhibits** Esmeralda Ballrooms 5,6,7 & 8

Symposium 6 – Shoulder/Elbow

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

8:55 am The Role of Reverse TSA for Cuff Deficiency and Revision
Robert M. Orfaly, MD, Oregon Health & Sciences University, Portland, OR

9:07 am Use of RTSA for Fracture and Complex Instability
Jonathan T. Bravman, MD, CU Sports Medicine Center, Denver, CO

9:19 am Reverse Arthroplasty: Is Over Utilization a Problem?
Gerald R. Williams Jr., MD, The Rothman Institute, Philadelphia, PA

9:31 am Discussion

General Session 11 – OREF and Presidential Address

Moderator: Robert A. Hart, MD, Swedish Hospital System, Seattle, WA

9:45 am **OREF Update**
Richard F. Santore, MD, San Diego, CA

9:50 am **JBJS Update**
Marc F. Swiontkowski, MD, University of Minnesota, Minneapolis, MN

9:55 am **Presidential Address**
Roadway Trauma: Patterns and Prevention
John R. Tongue, MD, Cascade Orthopaedic Group, Tualatin, OR

Symposium 7 – Shoulder Dislocations

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

10:25 am Arthroscopic Labral Repair for Recurrent Anterior Dislocation

10:32 am Management of Recurrent Posterior Dislocation

10:39 am Management of Multi-Directional Instability

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

10:53 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 **WOA Luncheon - Industry Presentation**

Legally Mine

Keys to Locking Out Lawsuits and Lowering Taxes

Art McOmber, Orem, UT

*CME Credit Not Available

General Session 12 – Sports/Trauma

Moderators: Marc F. Swiontkowski, MD, University of Minnesota, Minneapolis, MN & Omer Ilahi, MD, South West Orthopedic Group/Texas Arthroscopy & Sports Medicine Institute, Houston, TX

11:55 am 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 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 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 The Hidden Zone of the Posterior Femoral Cartilage During Knee Arthroscopy

Sean S. Rajaei, MD, Cedars-Sinai Medical Center, Los Angeles, CA

12:19 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 Discussion

12:30 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 Are Early Career Orthopaedic Surgeons Performing Less Complex Trauma Surgery?

Jacob D. Gire, MD, Stanford University, Redwood City, CA

12:41 pm Discussion

12:45 pm **Scientific E-Poster Session**

Esmeralda Ballrooms 1,2,3 & Pre-function 6-8

Presenters will be available to answer questions.

1:45 pm **Multimedia Education Session** (Esmeralda Ballroom Foyer)

Scientific Poster Presentations Esmeralda Ballroom 1, 2, 3 & Pre-Function 6-8

STATION A - Esmeralda Ballroom 1

Basic Science

Poster 1: Characterization of Mesenchymal Stem/Stromal Cells in Bone Marrow Aspirate Concentrates
Malcolm R. DeBaun, MD, Stanford University Medical Center, Palo Alto, CA
*Presented by Jacob D. Gire, MD

Poster 2: Creating A Method Of Strain Analysis For The Proximal Tibia
Bo He, MD, San Francisco Orthopaedic Residency Program, San Francisco, CA

Poster 3: Adipose Derived Perivascular Stem Cells For Anterior Cruciate Ligament Regeneration
Robert C. Maciel, BS, MS, University of California Los Angeles, Los Angeles, CA

Other

Poster 4: Drilling Time And Far Cortex Penetration: A Cadaveric Study
J. Ryan Hill, BA, BS, Keck School of Medicine at University of Southern California, Los Angeles, CA
*Presented by William C. Pannell, MD

Poster 5: Transillumination As An Adjunct Diagnostic Tool For Ganglion Cysts
J. Ryan Hill, BA, BS, Keck School of Medicine at University of Southern California, Los Angeles, CA
*Presented by Nathanael Heckmann, MD

Poster 6: Prevalence Of Marijuana Use In Orthopaedic Patients: A Multicenter Survey
Alan J. Hwang, BS, University of Southern California, Los Angeles, CA

Poster 7: The State Of Musculoskeletal Education In California Medical Schools: A Comprehensive Analysis
Tim Wang, MD, Stanford University Medical Center, Stanford, CA

Total Hip

Poster 8: Inadvertent Muscle Damage: Direct Anterior versus Direct Superior
Derek F. Amanatullah, MD, PhD, Stanford University School of Medicine, Redwood City, CA

Poster 9: Operative Notes Are Inadequate For Planning Revision Total Hip Replacement
Derek F. Amanatullah, MD, PhD, Stanford University School of Medicine, Redwood City, CA

Poster 10: Academic Productivity Among Fellowship Associated Adult Total Joint Reconstruction Surgeons
Adam Z. Khan, BS, David Geffen School of Medicine at University of California Los Angeles, Los Angeles, CA
*Presented by Jason H. Ghodasra, MD, MSCI

Total Knee

Poster 11: Elevated Body Mass Index Is Associated With Early Total Knee Revision For Infection
Derek F. Amanatullah, MD, PhD, Stanford University School of Medicine, Redwood City, CA

Poster 12: Inadequacy Of Operative Notes For Planning Revision Total Knee Arthroplasty
Derek F. Amanatullah, MD, PhD, Stanford University School of Medicine, Redwood City, CA

Poster 13: Evaluation Of A New Cementless TKA Design
Russell G. Cohen, MD, Tucson Orthopedic Institute, Tucson, AZ

Poster 14: Outcomes Of TJR Patients In LA County
Cory H. Pham, MD, University of California Los Angeles Medical Center, Los Angeles, CA
*Presented by Martina Shoukralla, BS

Poster 15: Initial Experience With Next Day Discharge After Total Knee Arthroplasty
Alexander P. Sah, MD, Institute for Joint Restoration, Fremont, CA

STATION B - Esmeralda Ballroom 2

Foot & Ankle

Poster 16: Delayed ORIF Of Missed, Low Energy Lisfranc Injuries
Spenser J. Cassinelli, MD, Harbor University of California Medical Center, Torrance, CA

Poster 17: Lisfranc ORIF In An Athletic Population: Screw Fixation Vs. Suture Button Fixation
CPT Shawn Gee, MD, Tripler Army Medical Center, Honolulu, HI

Poster 18: The Effect Of Insurance On The Treatment Of Tibiotalar Osteoarthritis
Nathanael Heckmann, MD, Keck School of Medicine at University of Southern California, Los Angeles, CA

Poster 19: Chevron-Akin Double Osteotomy In Mild, Moderate, And Severe Hallux Valgus
Robert W. Lindeman, MD, University of Texas Medical Branch, Galveston, TX

Poster 20: Hindfoot Arthrodesis With Tricortical Allograft For Pes Planovalgus Deformity Updated
Eric Q. Pang, MD, Stanford University, Stanford, CA
*Presented by Jeremy Y. Chan, MD

Sports Medicine

Poster 21: What Do Adolescent Athletes And Their Guardians Want In Their Sports Medicine Surgeon?
Jennifer Beck, MD, Orthopedic Institute for Children, Los Angeles, CA

Poster 22: Injury Prediction Value Of Functional Movement Screening In Collegiate Athletes
James Chen, MD, University of California, Los Angeles, Los Angeles, CA

Poster 23: Hylan GF-20 Effectiveness In The Treatment Of Compartmentalized Knee Osteoarthritis
Wendell Cole III, BS, Morehouse School of Medicine, Atlanta, GA

Poster 24: Radiographic Comparison Of Elbow OCD, UCL Injuries And Healthy-Controls In Adolescent-Athletes
Brian Lau, MD, University of California San Francisco Medical Center, San Francisco, CA
*Presented by Joseph T. Patterson, MD

Poster 25: Ethnic Disparities In Patient-Reported Outcomes Following Rotator Cuff Repair
Daniel J. Lorenzana, BA, Keck School of Medicine at the University of Southern California, Los Angeles, CA

Poster 26: ASSET Validity And Simulation Knee Model Arthroscopy For Resident Education
Jacqueline Munch, MD, Oregon Health and Science University, Portland, OR

Poster 27: Landing Patterns At The Reno Pole Vault Summit
Jacqueline K. Nguyen, MD, San Francisco Orthopedic Residency Program, San Francisco, CA

Poster 28: Isolated Lateral Collateral Ligament Injuries: A Rare Injury Now Frequently Seen Among Mixed Martial Artists
M. Kareem Shaath, MD, Rutgers - New Jersey Medical School, Newark, NJ

Tumor

Poster 29: Juxta-Articular Osteoid Osteoma Of The Knee: A Case Report
CPT Matti P. Asuma, MD, Madigan Army Medical Center, Tacoma, WA

Scientific Poster Presentations Esmeralda Ballroom 1, 2, 3 & Pre-Function 6-8

STATION C - Esmeralda Ballroom 3

Trauma

Poster 30: Factors Influencing Infection And Nonunion Rates After Open Humerus Fractures

Brian M. Cash, MD, University of California Los Angeles Orthopaedic Surgery, Los Angeles, CA

Poster 31: Hardware Removal In Dual Mini-Fragment Fixation Of Clavicular Shaft Fractures

Cory M. Czajka, MD, University of Texas at Houston, Houston, TX
*Presented by Andrew B. Kay, MD

Poster 32: CT Scan In Management Of Ankle Fractures Involving The Posterior Malleolus

Steven D. Donohoe, MD, LAC/USC Medical Center, Los Angeles, CA

Poster 33: The Value Of A Dedicated Orthopaedic Trauma Room

Katherine J. Gavin, MD, University of New Mexico, Albuquerque, NM

Poster 34: Sacral Insufficiency Fractures: Determining Frequency And Defining The Patient Profile

Hanne A. Gehling, BS, Providence Health and Services, Portland, OR

Poster 35: Surgical Treatment Of Intertrochanteric Fractures: An Analysis Of 13,276 Hips

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

Poster 36: Pocket-Sized Ultrasound To Assess Distal-Radius Fractures And Quality Of Closed-Reduction

Brian Lau, MD, University of California San Francisco Medical Center, San Francisco, CA
*Presented by Joseph T. Patterson, MD

Poster 37: Midshaft Forearm Fractures: Demographics And Complication Rates Within Medicare Population

Robert C. Maciel, BS, MS, University of California Los Angeles, Los Angeles, CA

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Luke T. Nicholson, MD, University of Southern California, Los Angeles, CA

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Justin S. Roth, DO, Riverside County Regional Medical Center, Moreno Valley, CA

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Michael Steff, MD, University of Southern California, Los Angeles, CA

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Justin U. Tilan, MD, University of Southern California, Los Angeles, CA

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Peter S. Vezeridis, MD, University of California Los Angeles, Los Angeles, CA

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Adam M. Wegner, MD, PhD, University of California Davis Medical Center, Sacramento, CA

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Stephen D. Zoller, MD, University of California Los Angeles, Los Angeles, CA

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Michael H. Amini, MD, Southwest Orthopaedic Surgery Specialists, Tucson, AZ

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Ali Azad, MD, University of Southern California, Los Angeles, CA

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Christopher M. Belyea, MD, Tripler Army Medical Center, Honolulu, HI

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J. Ryan Hill, BA, BS, Keck School of Medicine at the University of Southern California, Los Angeles, CA

*Presented by Nathanael Heckmann, MD

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J. Ryan Hill, BA, BS, Keck School of Medicine at the University of Southern California, Los Angeles, CA

*Presented by Nathanael Heckmann, MD

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Todd S. Kim, MD, Palo Alto Medical Foundation- Burlingame Division, Burlingame, CA

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Christopher L. McCrum, MD, Keck School of Medicine at the University of Southern California, Los Angeles, CA

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Braden M. McKnight, BS, Keck School of Medicine at the University of Southern California, Los Angeles, CA

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Braden M. McKnight, BS, Keck School of Medicine at the University of Southern California, Los Angeles, CA

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Braden M. McKnight, BS, Keck School of Medicine at the University of Southern California, Los Angeles, CA

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Luke T. Nicholson, MD, University of Southern California, Los Angeles, CA

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Alexander Telis, MD, MS, University of New Mexico, Albuquerque, NM

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Peter S. Vezeridis, MD, University of California Los Angeles, Los Angeles, CA

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Kent T. Yamaguchi, MD, University of California Los Angeles, Los Angeles, CA

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Hamed Yazdanshenas, MD, University of California Los Angeles, Los Angeles, CA

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D Welcome Reception
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